

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

Date of zero draft MoM sent to Chairman: 30/01/2025

Approval by Chairman: 06/02/2025

Uploading on PARIVESH: 07/02/2025

SUMMARY RECORD OF THE TWENTIETH (20TH) MEETING OF EXPERT APPRAISAL COMMITTEE (EAC) HELD ON 20TH – 23RD JANUARY 2025 FOR ENVIRONMENT APPRAISAL OF COAL MINING SECTOR PROJECTS THROUGH PHYSICAL MODE.

DAY-1: 20TH JANUARY 2025 [MONDAY]

The Member Secretary apprised the members of the EAC that consequent to the resignation tendered by Dr. Sharad Singh Negi (I.F.S Retd.), Chairman - Expert Appraisal Committee (Thermal Power & Coal Mining), MoEF&CC vide Order dated 16/01/2025 nominated Shri. Inder Pal Singh Matharu (I.F.S Retd.) as interim Chairman, Expert Appraisal Committee (Thermal Power & Coal Mining) with immediate effect.

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

Confirmation of the Minutes of the 19th Meeting of the EAC (Coal): The minutes of the 19th meeting of the EAC (Coal) held during 10th & 11th December, 2024 have been confirmed by the EAC.

Agenda No. 20.1

Gondbahera Ujheni Underground Coal Mine (area 1926.246 Ha having normative capacity 4.12/ peak rated capacity 6.18 MTPA) by M/s MP Natural Resources Private Limited, located at Villages: Talwa, Tinguri, Majhauri, Devra and Ujaini; District: Singrauli; State: Madhya Pradesh – Environment Clearance – regarding.

[Online Proposal No. IA/MP/CMIN/501886/2024; Consultant: M/s Perfact Enviro Solutions Pvt. Ltd.; NABET/EIA/2225/RA 0284 valid till 26.11.2025]

20.1.1: M/s. MP Natural Resources Private Limited has submitted an online application vide proposal no. IA/MP/CMIN/501886/2024 dated 04.12.2024 along with a copy of EIA/EMP report, CAF (Part A, B & C) 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. Hence, the project is appraised at Central Level. Further, the project do not attract the General Condition of the EIA Notification, 2006.

Gondbahera Ujheni Underground Coal Mine of M/s MP Natural Resources Private Limited having area 1926.246 ha and production of rated capacity 4.12/ peak rated capacity 6.18 MTPA is located at Villages: Talwa, Tinguri, Majhauri, Devra and Ujaini; Tehsil: Deosar; District: Singrauli; State: Madhya Pradesh for setting up of a new underground coal mine. The project was granted ToR for the said area and capacity vide letter J-11015/41/2024-IA.II(M) dated 31.07.2024 valid up to 30.07.2028.

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

20.1.2: Environmental Site Settings:

PP submitted that the project area is covered under Survey of India Topo sheet No. 63L/8 (OSM No. G44W8) and is bounded by the geographical coordinates ranging from 24°08'57" N and 24°11'27" N and longitudes 82°19'53" E and 82°23'38" E.

Project does not fall in the Critically Polluted Area (CPA)/ Severely Polluted Area (SPA), as per CEPI Assessment 2018. PP has submitted a distance certificate from MPPCB dated 24.06.2024, wherein, it is mentioned that the said underground coal mine does not fall within the SPA region of Singrauli and the same is approximately 18.84 km away from it.

Forest Area: The project involves total 461.777 Ha of forest land. Application for Stage – I Forest Clearance has been made vide application no FP/MP/MIN/QR/473885/2024 dated 24.05.2024. Further, PP submitted that there is no broken forestland and no violation of Van (Sanrakshan Evam Samvardhan) Adhiniyam, 1980.

Protected Area: The project is not located within 10 KM of any ESZ/ ESA/ national park/ wildlife sanctuary/ biosphere reserve/ tiger reserve/ elephant reserve/tiger corridor/elephant corridor etc. Authenticated map vide letter no. 10004 dated 11.11.2024 from PCCF and Chief wildlife warden, Government of Madhya Pradesh has been submitted stating that distance of ESZ (from boundary of Son Gharial Sanctuary: 27 km, from boundary of Bagadara Sanctuary: 40 km, from core area of Sanjay Tiger Reserve: 30 km, from buffer zone of Sanjay tiger reserve: 21 km and from elephant corridor: 16 km) from the ML area is more than 15 km. PP submitted that there is no violation of WLP Act. Wildlife conservation plan has been prepared for 8 nos of Schedule –I species (*Hyaena hyaena* (Stripped Hyaena), *Canis aureus* (Jackal), *Cuon alpinus* (Wild Dog), *Melursus ursinus* (Sloth Bear), *Pavo cristatus* (Indian Peafowl), *Naja naja* (Cobra), *Python molurus* (Indian Rock Python), *Varanus bengalensis* (Common Monitor Lizard) and is submitted for approval.

Other sensitive receptors: Bandha Nallah passes through the southern boundary of the ML area. Mahan river flows at a distance of approximately 1.5 km from the ML area. There are total 7 nos of ponds present in the core zone and total 12 nos of water bodies present in the buffer zone. Instant proposal do not involve diversion of any water body. Further, there is no presence of ASI protected archaeological site in close proximity to the ML area.

Project Area/ Mine Lease: PP submitted that the instant proposal is in a mine lease area of 1926.246 ha. The same has been allotted vide vesting order no. NA-104/15/2023-NA. Date of block allotment is 08.06.2023 and expiry date is 07.06.2073.

20.1.3: Details of ToR:

Date of Application	Details	Date of Accord	ToR Validity
24/05/2024	Vide File No: J-11015/41/2024-IA.II(M)	31/07/2024	30/07/2028

20.1.4: Method of Mining and Mine Plan:

1. Mine Plan and Mine Closure: The Ministry of Coal approves plan of Gondbahera Ujheni Coal Mine vide letter dated 03.06.2024 for rated capacity of 4.12 MTPA and peak rated capacity of 6.18 MTPA for ML area 1926.246 Ha.
2. Method of mining to be adopted will be underground with bord and pillar method by using continuous miner technology.
3. The total geographical reserves reported are 672.875 MT, out of which mineable reserves are 286.829 MT and extractable reserves are 158.544 MT. Percentage of extraction is 23.562%.
4. There are 7 workable seams by UG method in the block. Seam-VIII, Seam-VII (Top, Bot and comb), Seam-VI and Seam-V are at depth with thickness ranging from 0.35 to 16.60 m. Seams R-3, R-1 and RL-5 are near the surface with thickness ranging from 0.15 to 6.80 m.
5. Grade of coal will be G-10.
6. Life of Mine will be 51 years.
7. Since, it is an underground mine, the waste/OB will only be generated during drivage's of incline, & shafts sinking and also from drivage's of cross-cuts in hard rock is estimated to be about 0.438 million Cum which will be used in embankment for preparation bank head and filling of low-lying areas.
8. Out of the entire 1926.246 ha land area, 38.449 ha will be used for road, green belt and infrastructure development, 1.41 ha will be for UG entry, 0.468 ha will be used for road diversion and the rest 1885.919 ha will be undisturbed area. At the end of the conceptual period, a total 37.127 ha will be biologically reclaimed.
9. Land use details:

a. Pre-mining Land use:

S. No.	Land Use	Within ML Area (ha)	Outside ML Area (ha)	Total
1.	Agricultural Land	1018.102	-	1018.102
2.	Forest land	461.777	-	461.777
3.	Waste land	-	-	-
4.	Grazing land	-	-	-
5.	Surface Water Bodies	-	-	-

S. No.	Land Use	Within ML Area (ha)	Outside ML Area (ha)	Total
6.	Settlements	-	-	-
7.	Other (Specify)	446.367 (govt. land)	-	446.367
Total		1926.246		1926.246

b. Post Mining land use:

S. No.	Type	Total Area	Reclaimed Area	Un- reclaimed area
1.	Excavation/Quarry Area:	-	-	-
	(a) Backfilled areas	-	-	-
	(b) Excavated Void	-	-	-
2.	External Dump	-	-	-
3.	Safety Zone	-	-	-
4.	Road and infrastructure	39.859	37.127	2.732
5.	Garland Drains	-	-	-
6.	Embankment	-	-	-
7.	Others (road diversion)	0.468	-	0.468
Total		40.327	37.127	3.2

10. **Transportation of Coal:** The material is proposed to be transported by series of conveyors to the SILO & then loading railway wagons by Rapid loading system. Details of the same are as follows:

- i. In Pit: Conveyor
- ii. Surface to siding: Conveyor
- iii. Siding to loading: Silo to railway
- iv. Quantity to be transported by conveyor/rail: 6.18 MTPA (entire coal will be transported through conveyor belt to railway siding)

11. **Details of Reclamation:** Out of the entire 1926.246 ha land area, 38.449 ha will be used for road, green belt and infrastructure development, 1.41 ha will be for UG entry, 0.468 ha will be used for road diversion and the rest 1885.919 ha will be undisturbed area. Total infrastructure area required for surface activity is 40.33 ha. Out of this, at the end of conceptual period 37.127 ha will be afforested and the balance 3.20 ha will be left for public use.

Out of 37.127 ha, 14 ha will be planted within the first five years along the conveyor belt, periphery of CHP, along air shaft 1, 2 & 3, along magazine area, and along infrastructure area. Balance 23.127 ha will be afforested at the end of conceptual period after demolishing the above structures. Density of plantation will be 2500 nos of plants.

20.1.5: Baseline Data: The Baseline data has been generated from October 2023 to December 2023.

Period	October 2023 to December 2023																								
AAQ parameters at 10 Locations (min and max)	PM _{2.5} = 31.79 To 38.55 µg/m ³ PM ₁₀ = 72.40 To 86.35 µg/m ³ SO ₂ = 5.23 to 6.35 µg/m ³ NO ₂ = 18.25 To 22.12 µg/m ³ CO = 0.45 To 0.54 mg/m ³																								
Incremental GLC Level	PM ₁₀ = 0.27 µg/m ³ (Level at 0.1 km in SE Direction) NO ₂ = 0.16 µg/m ³ (Level at 0.1 km in SE Direction) CO = 0.01 mg/m ³ (Level at 0.1 km in SE Direction) SO ₂ = negligible, as the entire coal production will be transported through conveyor belt to railway siding																								
Ground water quality at 8 Locations	pH: 6.65 to 7.02, Total Hardness: 40 to 248 mg/l, Chlorides: 28 to 88 mg/l (14.42 to 30.90), Fluoride: 0.13 to 0.60 mg/l. Heavy metals (Zinc): 0.055 to 1.52, Lead: < 0.01 mg/l, Ni: < 0.1 mg/l, Fe: < 0.05- 0.319 mg/l, Mn and Cu are found below detection limit of 0.01 mg/L																								
Surface water quality at 8 Locations	pH: 7.11 to 7.67; DO: 6.5 to 6.6 mg/l and BOD: 2.2 to 7.9 mg/l. COD from 8.0 to 32.0 mg/l																								
Noise levels Leq (Day and Night)	53.9 to 55.4 dB (A) for the day time and 42.7 to 46.1 dB (A) for the Night time in Industrial area 53.6 to 54.9 dB (A) for the day time and 43.9 to 46.3 dB (A) for the Night time in Residential area																								
Traffic assessment study findings	<p>Traffic study has been conducted at NH 39 which is Approximately 8.19 km by road (distance) from the mine site. Transportation of mineral will be done 0 % by road. Existing PCU is 6120 PCU/hr on NH 39 and existing level of service (LOS) is:</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 Ratio</th> <th>V/C</th> <th>LOS</th> </tr> </thead> <tbody> <tr> <td>NH 39</td> <td>6120</td> <td>469</td> <td>0.08</td> <td></td> <td>0.08</td> </tr> </tbody> </table> <p>PCU load after proposed project will be 469 (Existing) + 5 (Additional) PCU/hr and level of service (LOS) will be:</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 Ratio</th> <th>V/C</th> <th>LOS</th> </tr> </thead> <tbody> <tr> <td>NH 39</td> <td>6120</td> <td>474</td> <td>0.08</td> <td></td> <td>0.08</td> </tr> </tbody> </table> <p>Note: Capacity as per IRC- 106, 1990 Guide line for capacity for roads. Conclusion: The level of service will be 0.08 after including additional traffic due to proposed project.</p>	Road	V (Volume in PCU/hr.)	C (Capacity in PCU/hr.)	Existing Ratio	V/C	LOS	NH 39	6120	469	0.08		0.08	Road	V (Volume in PCU/hr.)	C (Capacity in PCU/hr.)	Proposed Ratio	V/C	LOS	NH 39	6120	474	0.08		0.08
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Flora and fauna	8 Schedule I species (<i>Hyaena hyaena</i> (Stripped Hyaena), <i>Canis aureus</i> (Jackal), <i>Cuon alpinus</i> (Wild Dog), <i>Melursus ursinus</i> (Sloth Bear), <i>Pavo cristatus</i> (Indian Peafowl), <i>Naja naja</i> (Cobra), <i>Python molurus</i> (Indian Rock Python), <i>Varanus bengalensis</i> (Common Monitor Lizard) present in the buffer zone. For which conservation plan has been prepared and submitted for approval.																								

20.1.6: Details of water requirement: Total water requirement submitted by the proponent is 1753 KLD out of which 53 KLD water will be sourced from borewell and 1651.71 KLD water will be sourced from mine seepage and the remaining requirement will be fulfilled through treated water. The 53 KLD water which will be sourced from borewell will be used for drinking and domestic purpose, 100 KLD water which will be used for water sprinkling and gardening will be sourced from treated STP/ ETP/ seepage water and 1600 KLD which will be used for mining processing including workshop will be sourced from seepage water. An application to CGWA vide application no. 21-4/2380/MP/MIN/202 dated 23.10.2024 has been submitted by the proponent for 2082 KLD (60 KLD through borewell and 2022 KLD through mine seepage).

20.1.7: Public Consultation/ Hearing: The advertisement for Public hearing was given on 30.08.2024 in the "Times of India Delhi, Times of India Bhopal and Dainik Bhaskar". Public hearing conducted on 04.10.2024 at 12.00 PM at Khasra No. 291 (2.8 Km from Village Panchayat Office Ujheni on the way to Tingudi), Village-Talwa, Tehsil-Deosar/ Bargawan, District-Singrauli (M.P.). The hearing was presided by Shri Arvind Kumar Jha, Additional Collector Singrauli and Shri Sanjeev Mehra, Regional Officer of MPPCB. There were approximately 2100 nos of attendees during the PH, out of which 28 attendees expressed their views. Additionally, 34 written suggestions/objections were also received during PH. The major issues raised during the PH are related to employment, skill development, educational support, construction & maintenance of village road, solar light, drinking water facilities, ambulance & health facilities, subsidence due to underground mining and R&R. The issues of the people addressed during the PH were noted for necessary action. An amount of Rs. 9.25 Cr has been proposed to be spent to address the issues raised during PH.

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

S. No.	Heads	Villages	FY 2024-2025	FY 2025-2026	FY 2026-2027	FY 2027-2028	FY 2028-2029	Capital Budget (Amount in crores)	Recurring budget (Amount in crores)
1	Education Construction/Renovation of Primary school/Higher Secondary School, Free education in schools	Pachour, Ujheni, Devra, Kukraon, Kolhua, Talwa, Pachaur, Majghauli	0.55	0.4	0.3	0.3	0.3	1.85	0.19
2	Health Provision of Ambulance, Distribution of free medicine, Health Camps	Devra, Ujheni, Kolhua, Makri, Talwa, Majghauli. Pachaur, Tingudi	0.9	0.75	0.65	0.5	0.3	3.1	0.3
3.	Primary Health Center (PHC) & Community Health Center (CHC) Provision of PHCs and CHC in project area and buffer zone to be strengthened for better public health.	Primary Health Center (PHC) – Tingudi Sub Center Health-Tingudi,	0.1	0.1	0.1	0.1	0.1	0.5	0

S. No.	Heads	Villages	FY 2024-2025	FY 2025-2026	FY 2026-2027	FY 2027-2028	FY 2028-2029	Capital Budget (Amount in crores)	Recurring budget (Amount in crores)
		Majhuli, Ujjaini CHC- Sarai and Bargawan							
4	Infrastructure Development Construction of road, Water coolers and purifier Physical Work: Strengthening/maintenance of village roads, Rain Water Harvesting at Community Area, Provision of Plantation and streetlights in Community Area, Provision Training for recycle SWM and Sale of recyclable waste to scrap merchants. Water Cooler for Potable Drinking water	Pachour, Ujheni, Talwa, Majhauri, Devra, Tingudi	0.45	0.4	0.35	0.3	0.2	1.7	0.17
5	Agricultural Facilities Physical Work: Donation of seeds, saplings, block plantation in village area, Plantation in school, fertilizers, manure to needy farmers, Financial assistance for Irrigation facilities, Construction of farm ponds for needy farmers, Training related to Modern Agricultural techniques to the farmers. Pashushala/Gaushala	Ujheni, Talwa, Pachour, Devra, Tingudi Majhauri,	0.35	0.3	0.25	0.15	0.15	1.2	0.12
6	Skill Development Wick making, Stitching, Mushroom Production, Making Agarbatti, ITI, Computer Training	Pachaur, Dewra, Ujheni, Majhauri, Talwa, Tingudi Villages	0.25	0.25	0.2	0.1	0.1	0.9	0.1
Total								9.25	0.88

20.1.8: EMP Cost: Total cost of the project is Rs. 2464 Cr. The capital cost for environmental protection measures is proposed as Rs. 31.04 Cr. The annual recurring cost towards the environmental protection measures is proposed as Rs 3.44 Cr. The employment generation

from the proposed project is 1178 nos. The details of cost for environmental protection measures is as follows:

S. No.	Line Items	Capital Cost (Crore Rs). Proposed	Recurring Cost/annum (Crore Rs).
1	Pollution Control	0.6	0.5
2	Water Management	0.8	0.25
3	Technical Study & Report Preparation	0.4	0.4
4	Online Ambient Air Quality Monitoring Station	2.0	0.15
5	Online Effluent/ flow Monitoring Station	0.2	0.05
6	ETP {Oil Water Separator (Workshop)} and STP	0.8	0.3
7	Plantation nursery and Greenbelt Development of 14 ha area as per Mine Plan	0.97	0.28
8	Environment Lab Establishment/Environment Monitoring	0.6	0.2
9	Gap Plantation & Biodiversity	1.8	0.0
10	Planation within the community Area	12.0	-
11	Plantation of six schools & its water management and awareness program	0.24	0.03
11	Soil Conservation Plan	0.7153	0.1
12	Pond (Water Bodies) Rejuvenation and Conservation Activities	0.7827	0.1
13.	Public Health and Safety	-	0.2
14.	Solar Plant	0.1	-
15.	Public Hearing Commitment Budget	9.25	0.88
Total		31.042	3.44

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

S. No.	Type of Waste	Source	Quantity (TPA)	Mode of Treatment	Disposal
1.	Biodegradable	Domestic	23.33	Composted	Will be used for plantation
2.	Non-Biodegradable	Domestic	34.98	-	The generated waste will be handed over to authorized recyclers
3.	Solid waste	Generated during	4,38,000 Cum	-	Total 4,38,000 Cum muck will be generated one time and will

S. No.	Type of Waste	Source	Quantity (TPA)	Mode of Treatment	Disposal
		incline drivages and Shaft sinking for mine entries	(One time)		be utilized in infrastructure within mine lease
4.	Plastic waste	Domestic waste from site office	2.5	-	Sold to Authorized recycling Vendors
5.	Hazardous waste	From HEMM and other mining equipment's	5	-	Authorized CPCB recyclers
6	E-Waste	Computers, switches, cable etc	0.1	-	Authorized CPCB recyclers
7.	Battery waste	vehicles	0.5	-	As per battery waste management Rules 2022, waste will be sold to authorized vendors for recycling
8.	Biomedical waste	Dispensary	0.05	-	Incineration by nearby hospitals or authorized vendors.

20.1.10: Power Requirement and details of diversion of Hi-Tension/ Transmission Line: Total electricity requirement will be 16 MW, which will be sourced from MP Madhya Kshetra Vidyut Vitaran Company Limited. For the emergency purpose One DG set of 3 MVA, will be used. PP further submitted that no diversion of Hi-Tension/Transmission line is proposed.

20.1.11: Plantation: The proposed greenbelt will be developed in 14 ha which is about 34.71 % of the total proposed infrastructure area. A 7.5 m wide greenbelt, consisting of at least 3 tiers around the 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 35000 saplings will be planted and nurtured in 14 hectares in 5 years. As it is a proposed underground mine where a total of 37.127 ha of area will be afforested at the end of conceptual period. Out of this, 14 ha area will be completed within the initial 5 years.

20.1.12: Project Cost: The capital cost of the project is Rs. 2464.00 Cr. The budget allocated for the Environmental Management Plan is Rs. 1,836.8 Lakhs as capital cost and Rs. 341 Lakhs as recurring cost, which also includes budget for public hearing issues. Employment opportunities will be given to approx. 1178 nos of people.

20.1.13: R&R Issues: It is an underground mine with limited surface activity. R&R plan will not be applicable. Wherever, land will be required, it will be purchased on a mutually agreeable basis. Also, 6 schools are located within ML area. However, they are 500 m away from the infrastructure.

20.1.14: Undertaking/ Affidavit: PP submitted an undertaking stating that the information provided in CAF (Part A, B and C) in physical form and/or in pdf format in PARIVESH, to the Ministry/EAC members and PPT presentation during the EAC meeting to be held on 20th January 2025, have no deviation in respect of the proposal no. IA/MP/CMIN/501886/2024 for EC for coal mining having 1926.246 ha of ML area/Project area and rated capacity of 4.12 MTPA for Coal Mine Project located at village Talwa, Devra, Tingudi, Ujheni & Majhauri, Tehsil: Deosar, District-Singrauli, State- Madhya Pradesh. It is further stated 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 any deviation in data found in any of the documents, the Authorized Signatory shall be held responsible and furthermore, the above said project shall be rejected for grant of amendment in EC.

20.1.15: 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.

20.1.16: Written Submissions: PP submitted the following information vide letter dated 21.01.2025:

S. no.	Points	Written submissions
1.	Details of application submitted along with payment details to CGWA for extraction of ground water is requested to be submitted.	An application for groundwater abstraction/dewatering has been submitted to CGWA New Delhi vide application no. 21-4/2380/MP/MIN/2024 dated 23.10.2024 with amount of Rs. 0.19/- Crore (Nineteen lakh nine thousand eight hundred twenty-five) . Copy of the application along with payment details is submitted.
2.	Certification of Hydrogeological consultant to be submitted.	A comprehensive hydrogeological report has been prepared by Vardan EnviroNet which is accredited by Central Ground Water Authority (CGWA). Findings, action plan and copy of the accreditation is submitted.
3.	Primary Health Center (PHC) & Community Health Center (CHC) in project area and buffer zone to be strengthened for better public health.	PHCs & CHCs with in the core and buffer zone will be supported with budget of Rs. 0.5 Crore over 5 years, for improving facilities for enhancing quality of public health service. The same has been included in the public hearing budget. Revised PH Capital budget is Rs. 9.25 Crore and recurring is Rs. 0.88 Crore . Revised PH Budget is submitted and the same is furnished above.
4.	PP should Include the cost of community plantation in the EMP budget.	The cost of community plantation of Rs. 12.00 Crore (Twelve Crore) has been included in the EMP cost in the ppt. The budget for community plantation is incorporated in the EMP budget and the revised EMP budget is submitted. The EMP budget has been revised with capital budget is Rs. 31.042 Crore and Rs. 3.44 Crore recurring budget.
5.	Environmental monitoring lab budget to be revised.	Environmental monitoring lab budget has been proposed for Rs. 0.40 Crore and same has been revised to Rs. 0.60 Crore for equipment's. This budget will be included in the EMP cost. The revised budget for Environmental monitoring lab is incorporated in the EMP budget and the same submitted.

S. no.	Points	Written submissions
		The EMP budget has been revised with capital budget is Rs. 31.042 Crore and Rs. 3.44 Crore recurring budget.
6.	Water harvesting structures to be developed in the core zone for recharge of ground water.	Pond rejuvenation scheme for 6 Nos of ponds has been provided in Annexure 10 of EIA report. Additional water harvesting structures will be developed within core zone. The location of the 4 nos. of additional water harvesting structures is submitted.
7.	PP should ensure the availability of regular watering after plantation done in nearby Schools. And awareness to students in school to care for the plants & trees.	Regular watering of saplings planted in the nearby schools will be carried out by Project Proponent, which will help to mitigate the air and noise pollution. Furthermore, we will organize quarterly awareness programs for school student to educate them on the significance and preservation of trees. The plan with budgetary amount Rs.0.27 Cr with recurring cost for the same is submitted.
8.	Agro forestry may be encouraged in consultation with the land owners.	Fruit bearing plants will be distributed to farmers for plantation in barren and agriculture lands to improve the green cover in and around the mine lease area.
9.	Subsidence monitoring should be done from time to time.	Regular subsidence monitoring will be carried out and suitable subsidence management will be done to mitigate its effect on the surface. Regular subsidence monitoring studies will be done by engaging a reputed scientific agency, during and after depillaring operation. Subsidence movements, slope & tensile strain value will be monitored and accordingly suitable safety precautions will be taken. An undertaking in this regard is submitted.
10.	Agriculture support need to be given to villagers in the area as soil is deficient in nitrogen.	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. The budget for the same is incorporated in the PH budget.
11.	PP to ensure that Raniganj coal seams (R-3,R-1 & RL-5) will be worked through Underground method with development and should not be extracted by Opencast method	Agreed and the same will be complied.

Deliberations and Observation of the Committee:

20.1.17: The Committee noted the following:

1. The instant proposal is a Greenfield project for grant of Environment Clearance (EC) of Gondbahera Ujheni Underground Coal Mine (area 1926.246 Ha having capacity 6.18 MTPA) by M/s MP Natural Resources Private Limited, located at Villages: Talwa, Tinguri, Majhauri, Devra and Ujaini; Distret: Singrauli; State: Madhya Pradesh.
2. Ministry of Coal allotted the said block to the proponent vide vesting order no. NA-104/15/2023-NA dated 08.06.2023. Mine Plan and the Mine Closure Plan for the same has been approved by Ministry of Coal vide letter dated 03.06.2024 for rated capacity of 4.12 MTPA and peak rated capacity of 6.18 MTPA for ML area 1926.246 Ha.

3. Life of mine is 51 years.
4. ToR for the proposed project was obtained on 31.07.2024.
5. The EAC took into consideration of 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. Project does not fall in the Critically Polluted Area (CPA)/ Severely Polluted Area (SPA), as per CEPI Assessment 2018 and the same has been duly certified by the MPPCB.
7. It was apprised by the Member Secretary that instant proposal involves 461.777 Ha of forest land for which requisite Stage I FC under the provisions of Van (Sanrakshan Evam Samvardhan) Adhiniyam, 1980 is yet to be obtained. Further apprised that as per OM dated 09/09/2011, after the EAC has recommended the project for environmental clearance, it would be processed on file for obtaining decision of the Competent Authority for grant of environmental clearance. In the cases where the Competent Authority has approved the grant of environmental clearance, the proponent will be informed of the same and a time limit of 12 months will be given to submit the requisite Stage – I forestry clearance. On receipt of the same, formal EC letter will be issued by the Ministry.
8. 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 and the same has been duly certified by the state forest department.
9. Wildlife conservation plan has been prepared for 8 nos of Schedule –I species and is submitted for approval. However, the same is yet to be approved by the PCCF (WL).
10. Proposal involves no diversion of water body. However, it involves diversion of a village road of about 600 m length and application for the diversion of the same has been submitted to MP Rural Road Development Authority and the same is under process. There is no ASI protected archaeological site present in close proximity to the ML area.
11. Water requirement for the said project is 1753 KLD and the same will be sourced from borewell and mine seepage. An application to CGWA vide application no. 21-4/2380/MP/MIN/202 dated 23.10.2024 has already been submitted by the proponent for the same along with Rs. 0.19 Crores (GW abstraction charges & application fees). Approval for the same is yet to be accorded.
Committee deliberated on the pond rejuvenation scheme submitted by the proponent and opined that PP shall also introduce water harvesting structures. PP submitted the location of 4 nos of additional water harvesting structures within the core zone.
12. PP collected the baseline data from October 2023 to December 2023. The Committee deliberated on the baseline data and incremental GLC due to the proposed project and observed that AAQ levels are within NAAQS.
13. Committee deliberated on the Public Hearing and observed the action plan submitted by the proponent for the issues of public hearing. Committee opined that along with the activities

already envisaged for health care facilities, PP should also introduce measures to strengthen the Primary Health Centres and Community Health Centres in the core zone and buffer zone of the ML area. PP submitted that PHCs & CHCs within the core and buffer zone will be supported with budget of Rs. 0.5 Crore over 5 years, for improving facilities for enhancing quality of public health service. The same has been included in the public hearing budget. Revised PH Capital budget is Rs. 9.25 Crore and recurring is Rs. 0.88 Crore.

14. Committee deliberated on the Plantation plan submitted by the proponent and observed that the proponent has planned to plant 35000 nos. of saplings in the first 5 years in 14 ha of land. However, by the end of the mine life, PP has proposed the plantation in 37.127 ha and 2500 nos. of plants per ha are proposed to be planted. Committee suggested that the proponent should also involve intensive gap plantation in forest area, road side plantation and community afforestation including Miyawaki plantation in its plantation programme. Apart from this, Committee suggested that PP should also do plantation in the village schools and carry out awareness programmes regarding awareness on environmental issues in these village schools. PP should also take responsibility to water the trees proposed to be planted in the village schools. PP submitted the revised EMP budget as per the suggestions of the EAC.
15. Committee observed that out of 1926.246 ha ML area, 1018.102 ha is the agricultural land. Committee deliberated on the quality of soil present there and observed that at some places, nitrogen level in the soil is not adequate. Committee opined that, PP shall introduce measures to improve the quality of soil and plant nitrogen fixing trees in the ML area.
16. Committee deliberated on the protection measures to be undertaken for the schools presents in the ML area. PP submitted that there are 6 schools present within the ML area and submitted the distances of these schools from the surface activity areas. Committee observed that all the schools except one are located more than 500 meters away from the main infrastructure area, significantly reducing the potential impact of mining operations. PP submitted various measures to mitigate the impact of mining on these schools, such as, dense plantation along the infrastructure area, providing 100% assisting to the schools for undertaking plantation, continuous water sprinkling to reduce dust emission, etc.
17. Committee deliberated on the subsidence study report submitted by the proponent and opined that the PP shall carry out subsidence monitoring continuously. Committee also opined that all the recommendations made by CSIR-CIMFR in its Subsidence Monitoring report shall be complied.
18. Committee opined that no OB shall be dumped on the forestland.
19. There are no court cases pending against the proposed the project.
20. 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.

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

Recommendations of the Committee:

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

A. Specific Conditions:

- i. Project proponent shall submit the Stage – I Forest Clearance for diversion of forestland of 461.777 ha involved in the project for non-forestry activity prior to grant of Environment Clearance.
- ii. Project proponent shall get the Wildlife Conservation Plan approved by the State PCCF (Wildlife) prior to commencement of mining activities. The final Wildlife conservation plan duly approved by the CWLW shall be submitted to RO, MoEF&CC within a time frame of three months from the date of grant of EC and the budget approved by the concerned authority shall be deposited in government account.
- iii. Project proponent shall obtain prior permission from the concerned competent authority for diversion of road of 600 m distance prior to commencement of mining activities.
- iv. Project proponent shall undertake and complete “Comprehensive aquatic ecology study” of Mahan River & the major tributaries within the study area of the project by reputed Government institute prior to the commencement of production of the mine. Furthermore, the PP shall fulfill the additional budgetary requirement that will emerge from the findings & recommendations of the said report and make provisions in the EMP for the same. Copy of the study report and provisions made under the EMP shall be submitted to the Ministry and concerned Regional Office of MoEF&CC. Compliance status in this regard shall be submitted along with the six monthly compliance to the concerned Regional Office and also kept on the web portal of the company.
- v. PP shall ensure that entire UG mine seepage will be pumped to the surface into the sedimentation tank. It will be 100% reutilized within mine for sprinkling & greenbelt irrigation. Excess treated shall be given to nearby farmers for irrigation, villagers for non- potable other use, nearby industries or discharged into nearby stream after ensuring compliance to prescribed norms and prior permission from MPPCB.
- vi. Project proponent is not permitted to transport the coal by road. Transportation of coal shall be done only by conveyor belt followed by railway as committed.
- vii. Project proponent shall install 2 MW solar power panel in the ML area within two years from the date of grant of EC grant as committed. PP to install solar lights along the road to avoid the accidents at night and also carry out its maintenance.

- viii. Green belt shall be developed greenbelt in 14 ha, which is about 34.71 % of the total proposed infrastructure area. Local and native species will be planted with a density of 2500 trees per hectare. A 7.5 m wide greenbelt, consisting of at least 3 tiers around the mine boundary will be developed as greenbelt and green cover as per CPCB/MoEF&CC, New Delhi guidelines. Total no. of 35000 saplings will be planted and nurtured in 14 hectares in 5 years. In addition to this, proponent should also involve intensive gap plantation in forest area, road side plantation and community afforestation including Miyawaki plantation in its plantation programme.
- ix. Project proponent shall carry out community plantation with budgetary provisions of Rs. 12.00 Crore (Twelve Crore) over a period of 3 years. Further, PP shall provide basic facilities to the nearby schools such as drinking water, sanitation facilities and shall also develop green belt around the nearby schools. Regular watering of saplings planted in the nearby schools will be carried out by Project Proponent to mitigate the air and noise pollution. Further, PP shall organize quarterly awareness programs for school student to educate them on the significance and preservation of trees. In addition to this, Agro forestry shall be encouraged in consultation with the land owners. Further, PP shall provide 50,000 plant saplings with 4 feet tall fruit bearing plants to farmers for plantation in barren and agriculture lands in the study area every year for 5 years with incentive to improve the green cover in and around the mine lease area.
- x. Project proponent shall install two continuous ambient air quality monitoring station at suitable location preferably village side in consultation with MPPCB. 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.
- xi. The budget proposed for PH is Rs 9.25 Crores. The budget proposed shall be kept in a separate account and audited annually. Project proponent shall implement the action plan to address the issues raised during public hearing within a time frame of 5 years from the date of grant of EC. PP shall submit the progress report regarding the implementation of action plan to concerned RO along with the six monthly compliance report.
- xii. 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 31.04 Cr (Capital) and Rs 3.44 crores (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. In addition to this, PP shall strengthen the existing Primary Health Center (PHC) & Community Health Center (CHC) in the study area for better public health. As committed by the PP, PHCs & CHCs within the core and buffer zone will be supported with budget of Rs. 1.0 Crore over 5 years, 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.
- xiii. PP shall follow the recommendation of subsidence study and monitor the degree of subsidence regularly and shall be submitted to concern Regional Office of MoEF&CC along with the six monthly compliance report.

- xiv. No OB shall be dumped on the forestland. PP shall use the OB generated during the installation of mine shaft and mine incline in infrastructure development.
- xv. Environmental monitoring lab budget of Rs. 0.60 Crore shall be made available for equipment's as committed by the proponent. Compliance status in this regard shall be submitted along with the six monthly compliance to the concerned Regional Office of MoEF&CC.
- xvi. 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.
- xvii. Water harvesting structures with Pond rejuvenation scheme for 6 Nos of ponds to be developed in the core zone for recharge of ground water as committed by the proponent.
- xviii. PP shall ensure that all types of plastic waste generated from the plant shall be stored separately in isolated area and disposed of strictly adhering to the Plastic Waste Management Rules 2016 (as amended). In pursuant to the Ministry's OM dated 18/07/2022. PP shall also create awareness among the people working in the project area as well as in its surrounding area on the ban on Single Use Plastic (SUP) in order to ensure compliance of Ministry's Notification published by the Ministry on 12/08/2021. A report along with photograph on the measures taken shall also be included in the six monthly compliance report being submitted by PP.
- xix. PP shall comply all the recommendations of the hydrogeological report and the compliance status in this regard shall be submitted to the concerned Regional Office of the MoEF&CC.
- xx. As committed by the PP, Raniganj coal seams (R-3,R-1 & RL-5) shall be worked through Underground method with development and shall not be extracted by Opencast method.
- xxi. Project proponent is advised to implement the '**Ek Ped Maa Ke Naam**' Campaign which was launched on 5th June 2024 on the occasion of the World Environment Day to increase the forest cover across the Country. This plantation drive is other than Green belt development. The action in this regard shall be submitted concerned RO in six monthly report.

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. The project proponent shall obtain clearance from the National Board for Wildlife, if applicable.
- iii. 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.

- iv. The maximum production or peak production at any given time shall not exceed the limit as prescribed in the EC.
- v. Validity of EC is as per life of the mine mentioned in EC letter or 30 years as per EIA Notification, 2006 and its amendments therein.

2. Air Quality Monitoring and Mitigation Measures

- i. Project proponent shall obtain requisite consents from State Pollution Control Board for normative capacity 4.12/ peak rated capacity 6.18 MTPA for underground mining.
- ii. Adequate ambient air quality monitoring stations shall be established in the core zone as well as in the buffer zone for monitoring of pollutants, namely particulates, SO₂ and NO_x. 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.
- iii. The Ambient Air Quality monitoring in the core zone shall be carried out to ensure the Coal Industry Standards notified vide GSR 742 (E) dated 25th September, 2000 and as amended from time to time by the Central Pollution Control Board. Data on ambient air quality and heavy metals such as Hg, As, Ni, Cd, Cr and other monitoring data shall be regularly reported to the Ministry/Regional Office and to the CPCB/SPCB.
- iv. Effective control measures such as regular water sprinkling/rain gun/ Fog cannon /mist sprinkling etc., shall be carried out in critical areas prone to air pollution with higher level of particulate matter all through the coal transport roads, loading/unloading and transfer points. Fugitive dust emissions from all sources shall be controlled regularly. It shall be ensured that the ambient air quality parameters conform to the norms prescribed by the Central/State Pollution Control Board.
- v. Major approach roads shall be black topped and properly maintained.
- vi. Vehicular emissions shall be kept under control and regularly monitored. All the vehicles engaged in mining and allied activities shall operate only after obtaining 'PUC' certificate from the authorized pollution testing centres.
- vii. PP should Install Wind breaker/shield arrangement along the railway siding for reducing the dust propagation in upwind direction.
- viii. Post environmental closure third party monitoring by reputed instituted in air quality, water, land & soil etc shall be carried out 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 continuous AQMS, site-specific water regime. Also, third party shall analyse the implementation of river diversion, meeting to the requirement of project report.

3. Water Quality Monitoring and Mitigation Measures

- i. PP shall take approval from the CGWA for withdrawal of 2082 KLD (60 KLD through borewell and 2022 KLD through mine seepage) prior to commencement of mining operations.
- ii. The effluent discharge (mine waste water, workshop effluent) shall be monitored in

terms of the parameters notified under the Water Act, 1974 Coal Industry Standards vide GSR 742 (E) dated 25th September, 2000 and as amended from time to time by the Central Pollution Control Board.

- iii. The monitoring data shall be uploaded on the company's website and displayed at the project site at a suitable location. The circular No.J-20012/1/2006-1A.11 (M) dated 27th May, 2009 issued by Ministry of Environment, Forest and Climate Change shall also be referred in this regard for its compliance.
- iv. The project proponent shall not alter major water channels around the site. Appropriate embankment shall be provided along the side of the river/nallah flowing near or adjacent to the 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.
- v. Garland drains (of suitable size, gradient and length) around the critical areas i.e. mine shaft and low lying areas, 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
- vi. The water pumped out from the mine, after siltation, shall be utilized for industrial purpose viz. watering the mine area, roads, green belt development etc. The drains shall be regularly desilted particularly after monsoon and maintained properly
- vii. Industrial wastewater from coal handling plant and mine water shall be properly collected and treated so as to conform to the standards prescribed under the Environment (Protection) Act, 1986 and the Rules made thereunder, and as amended from time to time. Oil and grease trap shall be installed before discharge of workshop effluent. Sewage treatment plant of adequate capacity shall be installed for treatment of domestic wastewater.
- viii. The surface drainage plan including surface water conservation plan for the area of influence affected by the said mining operations shall be prepared, considering the presence of any river/rivulet/pond/lake etc., with impact of mining activities on it, and implemented by the project proponent. The surface drainage plan and/or any diversion of natural water courses shall be as per the provisions of the approved Mining Plan/ EIA-EMP submitted to this Ministry and the same should be done with due approval of the concerned State/GoI Authority. The construction of embankment to prevent any danger against inrush of surface water into the mine should be as per the approved mining plan and as per the permission of DGMS.
- ix. 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.
- x. Construction of Sewage Treatment Plant (STP)/Effluent treatment plant (ETP) with latest technology should be completed within 2 years and treated water shall be reused for plantation.

4. Noise and Vibration Monitoring and Prevention

- i. Adequate measures shall be taken for control of noise levels as per Noise Pollution Rules, 2016 in the work environment. Workers engaged in blasting and drilling

operations, operation of HEMM, etc shall be provided with personal protective equipments (PPE) like ear plugs/muffs in conformity with the prescribed norms and guidelines in this regard. Adequate awareness programme for users to be conducted. Progress in usage of such accessories to be monitored.

- ii. The noise level survey shall be carried out as per the prescribed guidelines to assess noise exposure of the workmen at vulnerable points in the mine premises, and report in this regard shall be submitted to the Ministry/RO on six-monthly basis.

5. Mining Plan

- i. Project proponent shall obtain star rating as per the guidelines of Ministry of Coal.
- ii. Mining shall be carried out under strict adherence to provisions of the Mines Act 1952 and subordinate legislations made there-under as applicable.
- iii. No change in mining method i.e. UG to OC, calendar programme and scope of work shall be made without obtaining prior approval of the Ministry of Environment, Forests and Climate Change (MoEFCC).
- iv. 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 circulars issued by Directorate General Mines Safety (DGMS).
- v. Environmental conditions of mining place shall be rendered ergonomic and air breathable with adequate illumination in conformance with DGMS standards.
- vi. No mining shall be carried out in forest land without obtaining Forestry Clearance as per Forest (Conservation) Act, 1980 and also adhering to The Scheduled Tribes and Other Traditional Forest Dwellers (Recognition of Forest Rights) Act, 2006 read with provisions of Indian Forest Act, 1927.
- vii. Efforts should be made to reduce energy and fuel consumption by conservation, efficiency improvements and use of renewable energy.

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 (MOEFCC) from time to time shall be submitted to MOEFCC/Regional Office (RO).
- ii. Post-mining land be rendered usable for agricultural/forestry purposes and shall be handed over to the respective State Government, as specified in the Guidelines for Preparation of Mine Closure Plan, issued by the Ministry of Coal dated 27th August, 2009 and subsequent amendments.
- iii. 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 till movement ceases completely. 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.

- iv. A separate team for subsidence monitoring and surface mitigation measures shall be constituted and continuous monitoring & implementation of mitigation measures be carried out.
- v. 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.
- vi. Quick action/mitigation plan shall be established and implemented in the area affected by subsidence caused due to mining activity.
- vii. 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.

7. Public Hearing and Human Health Issues:

- i. Adequate illumination shall be ensured in all mine locations (as per DGMS standards) and monitored.
- ii. The project proponent shall undertake occupational health survey for initial and periodical medical examination of the personnel engaged in the project and maintain records accordingly as per the provisions of the Mines Rules, 1955 and DGMS circulars. Besides regular periodic health check-up, 20% of the personnel identified from workforce engaged in active mining operations shall be subjected to health check-up for occupational diseases and hearing impairment, if any, as amended time to time
- iii. 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.
- iv. 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.
- v. Effective arrangement shall be made to provide and maintain at suitable points conveniently situated, a sufficient supply of drinking water for all the persons employed.
- vi. Implementation of the time bound action plan on the issues raised during the public hearing shall be ensured. The project proponent shall undertake all the tasks/measures as per the time bound action plan submitted with budgetary provisions during the public hearing. 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.
- vii. 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'.
- viii. PP should conduct epidemiology study for analysis of the distribution, patterns and determinants of health and disease conditions in defined populations.

8. Corporate Environment Responsibility:

- 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 and/or shareholders/stake holders
- ii. A separate Environmental Cell both at the project and company head quarter level, with qualified personnel shall be set up under the control of senior Executive, who will directly 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.
- iv. Self-environmental audit shall be conducted annually. Every three years third party environmental audit shall be carried out.

9. Miscellaneous:

- i. The project proponent shall make public the environmental clearance granted for their project along with the environmental conditions and safeguards at their cost by prominently advertising it at least in two local newspapers of the District or State, of which one shall be in the vernacular language within seven days and in addition this shall also be displayed in the project proponent's 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 environment clearance portal.
- v. 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.
- vi. The project authorities shall inform to the Regional Office of the MOEFCC regarding commencement of mining operations.
- vii. The project authorities must strictly adhere to the stipulations made by the State Pollution Control Board and the State Government.
- viii. 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.
- ix. No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment, Forests and Climate Change (MoEF&CC).
 - x. 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.
 - xi. The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.
 - xii. The Ministry reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.
 - xiii. 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
 - xiv. 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 No. 20.2

Expansion of Amalgamated Yekona I & II OC (Phase-I) from 2.75 MTPA to 3.30 MTPA within project area of 1679.39 ha by M/s Western Coalfields Limited, located at Village Yekona, Tehsil – Warora, District Chandrapur, Maharashtra. - Environmental Clearance for expansion up to 20% under para 7(ii) of EIA, 2006 as per MoEF&CC OM dated 11/04/2022 - reg.

[Online Proposal No. IA/MH/CMIN/485659/2024; Consultant: CMPDIL; NABET/EIA/22-25/SA0223 valid till 08/04/2025]

20.2.1: M/s Western Coalfields Limited has made an online application vide proposal no. IA/MH/CMIN/485659/2024 dated 17/07/2024 along with copy of EIA/EMP report, Forms (Part A, B and C) seeking environmental clearance under the provisions of para 7(ii) of EIA Notification, 2006 for the project mentioned above. The project falls under item 1(a)– Coal mining of the schedule of the EIA Notification, 2006 and falls Category-“A” as the mining lease area is more than 500 Ha and appraised at the central level. Further, the project do not attract the General Condition of the EIA Notification, 2006.

The project of M/s Western Coalfields Limited is a brownfield project for expansion of production capacity from 2.75 MTPA to 3.30 MTPA, for the first phase of 20% expansion as per Ministry's OM dated 11/04/2022, within the existing project area of 1679.39 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:

20.2.2: Details of Previous Approvals in chronological orders:

Sl. No.	Details of Letter No.	EC/ Expansion EC/ Amendment in EC/ Validity extension/ Transfer of EC	Capacity (MTPA)	Area (MTPA)	Date of issuance	Status of implementation
1	vide ref no J-11015/175/2006 -IA.II(M)	EC	0.40 MTPA	265.50 ha	17.10.2006	Implemented
2	Vide ref no J-11015/182/2006 -IA.II(M)	EC	0.60 MTPA	414.56 ha	17.10.2006	Implemented
3	Vide ref no. J-11015/381/2015 -IA-II(M)	Expansion and Amalgamation (1.00 MTPA to 2.75 MTPA)	2.75 MTPA	1679.39 ha	01.01.2021	Being Implemented
4	Vide ref no. J-11015/381/2015 -IA-II(M)	Amendment in EC	2.75 MTPA	1679.39 ha	15.03.2024	Being Implemented

20.2.3: Production details of existing EC: W.r.t the previous approvals, PP submitted the actual production details of the concerned mine and submitted that the mine became operational from 26.10.2017 onwards. CTO renewal has been obtained from the SPCB and is valid up to 31.03.2025. Details of the same are as follows:

Year	EC Sanctioned capacity (MTPA)	Actual Production (MTPA)	Excess production beyond the EC sanctioned capacity
2018-19	1.00*	0.11	NIL
2019-20	1.00*	0.35	NIL
2020-21	2.75	1.10	NIL
2021-22	2.75	2.417	NIL
2022-23	2.75	2.749	NIL
2023-24	2.75	2.749	NIL

*2018-19 to 2019-20, the mine has operated as Yekona-I (0.40 MTPA) & Yekona- II (0.60 MTPA). As per EC dt. 01.01.2021, Amalgamated Yekona I & II mine started with production capacity of 2.75 MTPA.

20.2.4: Certified Compliance Report: The Status of compliance of earlier EC was obtained from Regional Office, IRO, MoEF&CC, Nagpur vide letter no. EC-1016/RON/2019-NGP/12614 dated 11.12.2023 for the visit conducted on 28.11.2023 in the name of M/s. Western Coalfields Limited. The Action taken report regarding the partially complied/non-complied condition was submitted to Regional officer MoEF&CC, Nagpur vide letter no. vekoli/makshe/ksheempra/civil/YSA/1277 dated 28.01.2024. The details of the observations made by RO in the report dated 03.10.2024 along with its re-assessment are furnished below

S. No	Details of the EC and the condition	Condition as per EC	Observations of RO (abridged)	Reassessment by RO of the ATR submitted by the proponent
1	EC dated 01/01/2021, specific condition no. vi	<i>“Transportation of coal from coal handling plant shall be through mechanized covered trucks for 3 years. No transportation by trucks after 3 years and proposed railway siding/pipe conveyor system.”</i>	Partially Complied The work of railway siding was supposed to be completed by Dec, 2023. As of now, PP has completed 10 % of railway siding work. The work of Railway Siding has been awarded to IPRCL and same is expected to be completed by Dec, 2025	Complied During the site visit it was verified that work of construction of Railway siding has been awarded to M/s Indian Port Rail & Ropeway Corporation Limited vide agreement no 0712022-23 dated 07.05.2022 for an amount of Rs. 80.74 Crore for construction of railway siding, 35.4 Ha of land is required. Out of which 10.00 Ha of land is already acquired by WCL and remaining land is being acquired by Railways. Gazette notification no S.O.3751 (E) dated 02.09.2024 by Central Railway for acquisition of the remaining land of 27.2 Ha has been notified. The total length of the railway siding is 700 m and the total length of railway from the nearest railway station is 4.65 km. The earth work, alignment of railway siding work is in progress on the portion of land which is under the possession of the project proponent. Civil work of the wharf wall siding platform has commenced. The total progress on the work as on date is about 40%. The details of the payment made to the IPRCL for the work done are enclosed in the report. The timeline for completion of Railway Siding with work progress is enclosed in the report. With the current progress of work, PP is putting all efforts for completion of railway siding work by Dec, 2025. However, PP has obtained an amendment from MoEF&CC vide letter dated 15.03.2024 regarding timeline for construction of proposed railway siding till Dec, 2026.
2	EC dated 01/01/2021, specific condition no. xviii	<i>Toe wall of at-least 15-20 mtrs height should be constructed along the OB dump to protect Yekona Village</i>	PP was supposed to construct a Toe wall of atleast 15 mts to 20 mts height along the OB dump to protect Yekona village. Same has not been constructed, however, Protective measures such as Grass seeding on dump, Tree Plantation, Garland drain at the toe of dump has been provided. PP informed that a scientific study was conducted through VNIT Nagpur vide for determining the	During site visit it was verified that a feasibility study regarding toe wall and providing remedial measures for black cotton soil dump towards Yekona village was awarded to VNIT. As per the report of VNIT Nagpur, various mitigative measures/ preventive measures has been suggested in addition to existing measures taken. The scientific study mentioned that there is no requirement of Toe Wall as plantation between the toe of the dump and village and plantation over the dump in addition to grass seeding helped in stabilizing the dump. (Copy of recommendations as per report of VNIT Nagpur enclosed in the report). In compliance with the recommendation made by VNIT in its report, PP has awarded work to Ms Shivaji Singh vide

S. No	Details of the EC and the condition	Condition as per EC	Observations of RO (abridged)	Reassessment by RO of the ATR submitted by the proponent																					
			requirement of the toe wall.	letter no.02 dated 01.04.2024 with value of Rs 57.99 Lakhs for stone pitching, garland drain, slope correction. As on date, 50% of the work has been completed. The total work will be completed by Nov, 2024. Grass seeding work has been awarded to Mangesh Bramhadev Mandhare (vide letter no. 257 dated 25.07.2024 with cost of Rs 6.18 Lakhs. Grass seeding work has been completed. A verification site visit report has been submitted by VNIT vide letter dated 23.08.2024 against the commencement of the activities as per recommendations of the scientific study.																					
3	EC dated 01/01/2021, specific condition no. xxx	Project proponent to plant 1,50,000 No. of native trees with broad leaves along the transportation route in three years to prevent air pollution. After completion of three plantation, number of trees	PP was supposed to plant 1,50,000 No. of trees in three years. However as on date Total 1,20,000 Nos. of tree saplings planted over an area of 48 Ha. About 50,000 nos. over an area of 20 Ha is planted on Plain and Top Soil dump along the Coal transportation route.	<p>It has been verified that, approx. 60 ha area has been biologically reclaimed and the details of year-wise plantation since inception of the mine are as under:</p> <table border="1"> <thead> <tr> <th>FY</th> <th>No's</th> <th>Location</th> </tr> </thead> <tbody> <tr> <td>2020-21</td> <td>10,000</td> <td>Plain land/Green belt along mine boundary</td> </tr> <tr> <td>2021-22</td> <td>15,000</td> <td>Black Cotton Soil Dump</td> </tr> <tr> <td>2022-23</td> <td>50,000</td> <td>Plain land/Avenue Plantation. Blck Cotton Soil Dump</td> </tr> <tr> <td>2023-24</td> <td>45,000</td> <td>Black Cotton Soil Dump</td> </tr> <tr> <td>2024-25 (As on date)</td> <td>34,000</td> <td>Embankment along Wardha River, Plain land near Dahiwal Nallah</td> </tr> <tr> <td>Total</td> <td>1,54,000</td> <td></td> </tr> </tbody> </table> <p>In this FY 2024-25, total plantation of 34,000 no's has been planted.</p>	FY	No's	Location	2020-21	10,000	Plain land/Green belt along mine boundary	2021-22	15,000	Black Cotton Soil Dump	2022-23	50,000	Plain land/Avenue Plantation. Blck Cotton Soil Dump	2023-24	45,000	Black Cotton Soil Dump	2024-25 (As on date)	34,000	Embankment along Wardha River, Plain land near Dahiwal Nallah	Total	1,54,000	
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EIA report submitted by the PP is for expansion capacity of 50% i.e., from 2.75 MTPA to 4.125 MTPA. However, the proposal placed before EAC is for 20% expansion, i.e., for 3.30 MTPA as per Ministry's OM dated 11.04.2022.

20.2.5: Compliance of Ministry's OM dated 11/04/2022: Instant proposal is for capacity enhancement from 2.75 MTPA to 3.30 MTPA, i.e., for first 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.	The Project have gone through the public hearing process once for EC capacity. The public hearing was conducted on 14.06.2019. The expansion is being sought on production capacity of for which Public Hearing has been already conducted and EC was granted. The present proposal is expansion in production capacity from existing 2.75 MTPA to 4.125 MTPA in next 3 years. In the first year the capacity is proposed to be increased to 3.30 MTPA (20% increase over 2.75 MTPA).																
2	There should not be change in Category of the project from 'B2' to 'B1' or 'A' due to proposed modernization or expansion.	There is no change in the category of the project because of proposed expansion. This is 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-à-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 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. Public Hearing of the project was conducted for 1701.32 ha. The present proposal involves only 1679.39 ha land in the Phase- I.																
4	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 public hearing has been successfully completed for production capacity of 2.75 MTPA on 14.06.2019 and based on public hearing EC was issued on 01.01.2021 for 2.75 MTPA. The proposed expansion is in three phases as per OM. The proposed phase-wise expansion details are provided below: <table border="1"> <thead> <tr> <th>S. No</th> <th>Particulars</th> <th>Proposed Production</th> <th>% capacity increased proposed</th> </tr> </thead> <tbody> <tr> <td>1.</td> <td>Present Proposal – 1st Year</td> <td>3.30 MTPA</td> <td>20% increase</td> </tr> <tr> <td>2.</td> <td>2nd Phase – 2nd Year</td> <td>3.85 MTPA</td> <td>20% increase</td> </tr> <tr> <td>3.</td> <td>3rd Phase – 3rd Year</td> <td>4.125 MTPA</td> <td>10% increase</td> </tr> </tbody> </table>	S. No	Particulars	Proposed Production	% capacity increased proposed	1.	Present Proposal – 1st Year	3.30 MTPA	20% increase	2.	2nd Phase – 2nd Year	3.85 MTPA	20% increase	3.	3rd Phase – 3rd Year	4.125 MTPA	10% increase
S. No	Particulars	Proposed Production	% capacity increased proposed															
1.	Present Proposal – 1st Year	3.30 MTPA	20% increase															
2.	2nd Phase – 2nd Year	3.85 MTPA	20% increase															
3.	3rd Phase – 3rd Year	4.125 MTPA	10% increase															
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.	Baseline data has been collected for the mine from October 2023 to December, 2023 for impact prediction. Environmental quality parameters arising out of proposed expansion are predicted to be within the prescribed norms with control measures. Control measures will continue to be operated and augmented to maintain environmental quality parameters as per prescribed norms. Prediction of PM ₁₀ , PM _{2.5} , SO ₂ and NO ₂ in the surrounding is carried out (for 24 hours' average) with the help of AERMOD Software (v16216r of USEPA), based on Gaussian Plume																

S. No.	Criteria	Status
		<p>equation. The predicted value of total GLC (baseline + GLC) with control measures was found to be following:</p> <p>Buffer Zone PM₁₀= 98.64 µg/m³ PM_{2.5} = 59.36 µg/m³ SO₂ = 35.02 µg/m³ NO_x = 39.08 µg/m³</p> <p>Core Zone PM₁₀= 191.77 µg/m³ PM_{2.5} = 84.96 µg/m³ SO₂ = 33.82 µg/m³ NO_x = 51.96 µg/m³</p>
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 will not result in reduction in greenbelt area below 33% due to expansion. Plantation in 829.19 ha land is proposed in Phase-I of the proposal. This is 49.37% of the project area of Phase-I. Thus plantation will not reduce below 33% due to expansion.
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.	<p>The Certified Compliance Report (CCR) for existing Environmental Clearance dated 01.01.2021 has been obtained from Integrated Regional Office, MoEF&CC, Nagpur vide letter F. No. EC- 1016/RON/2019-NGP/12614 dated 11.12.2023. Field visit for ascertaining status of compliance of EC conditions was made from IRO, MoEF&CC, Nagpur on 28.11.2023. Only three conditions were observed partially complied and no non-compliance recorded for Amalgamated Yekona I & II OC Mine (Phase-I) out of the total 94 conditions by IRO, MoEF&CC.</p> <p>The ATR for the 3 nos of partially complied conditions was submitted to Regional Office, MoEF&CC, Nagpur vide WCL letter dated 28.01.2024. MoEF&CC (RO), Nagpur re-evaluated the partially complied conditions and has issued letter dated 03.10.2024.</p> <p>W.r.t commitment made during earlier public hearing, it is submitted that public hearing was completed on 14.06.2019 for 2.75 MTPA.</p>
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 public hearing has been successfully completed for production capacity of 2.75 MTPA on 14.06.2019 and based on the public hearing EC was issued on 01.01.2021 for 2.75 MTPA. As per the table given in the OM, 11.04.2022, the project is in scenario-II. In Scenario-II (upto 20% expansion), the fresh public consultation is not required.
9	Effluent monitoring includes air quality monitoring systems as specified in the existing EC, if stipulated, should have been installed.	CAAQMS as specified in the existing EC, have been installed within the core of the project. The effluent generated due to vehicle washing is reused in the process after treatment in ETP. No effluent is discharged outside. Only excess mine water is discharged outside the mine premises after passing through the sedimentation tank.

S. No.	Criteria	Status
		Further as mentioned in Existing EC regular environmental monitoring is also being carried out for ambient air quality and effluent monitoring.

20.2.6: Environmental Site Settings:

The project area is covered under Survey of India Topo Sheet No 55L/15 and 55L/16 and is bounded by the geographical coordinates ranging from 20°13'39" N to 21°16'15" N Longitude 78°55'25" E and 78°58'21" 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/959/2025, dated 10.01.2025, detailing the aerial distances of the said project from CEPI notified areas. The project is about 30 kms away from the nearby CEPI area. The distance from CEPI areas is as follows:

- MIDC Tadali - about 30 km
- MIDC Ghuggus - about 30 km
- MIDC Chandrapur - about 40 km
- MIDC Ballarpur - about 60 km

Mining Lease: PP Submitted that the total project area is 1679.39 ha. Out of which within mine lease area is 1631.39 Ha and the outside lease area is 48.0 Ha. Out of 1631.49 Ha of mine lease area, 1628.90 Ha has been acquired under CBA (A&D) Act, 1957 and 2.49 ha is yet to be acquired. The land acquisition details are provided below:

S. No.	Govt. Order/Notifications as the case may be	Total Area acquired in Notification (ha)	Area involved in the project (ha)
1.	Publication under Section 9 of CBA dated 6 th October, 2004 (S. O. No – 2576 dated 06.10.2004) for Yekona II OC	421.70 ha	421.70 ha
2.	Ministry of Coal Letter dated 22 nd September, 2008 for publication in Gazette under Section 9 of CBA Act (S. O. No - 2692 dated 22.09.2008) Yekona –I OC	254.15 ha	254.15 ha
3.	Notification under Section 9 of CBA dated 27 th August, 2020 (Notification Number - S.O. – 719 of Ministry of Coal, Government of India dated 27.08.2024)	974.98* ha	953.05 ha
	Total	1650.83 ha	1628.90 ha
4.	To be acquired within mine lease area	-	2.49 ha
5.	Land to be acquired outside Mine Lease Area	-	48.0 ha
	Total	-	1679.39 ha

*The 21.93 ha land acquired in this notification is involved in Phase-II of the project. Present proposal is only for Phase-I of the project. Land acquired under CBA (A&D) Act 1957 on 06.10.2004, 22.09.2008, 27.10.2020. The expiry can be considered to be up to 06.10.2103.

The mine plan is prepared and approved over an area of 1679.39 Ha.

Forest Area: PP submitted that no forest land is involved in the proposal.

Other sensitive receptors: There is Wardha river at a distance of 100 m from the ML boundary. There is one seasonal nallah and one canal within the ML area and both are proposed to be diverted. PP submitted that study for nallah diversion has been conducted by CDO Nashik and permission is yet to be accorded. Permission for Canal diversion has been accorded and work has been taken up by Minor Irrigation Department. Further, there is no presence of ASI protected archaeological site in close proximity to the ML area.

Protected Area: PP submitted that the project is not located within 10 KM of any ESZ/ ESA/ national park/ wildlife sanctuary/ biosphere reserve/ elephant reserve/ tiger corridor. However, the PP reported that the project is located 25 km from a Tiger Reserve, i.e., the Tadoba Andhari Tiger Reserve.

PP submitted that Wildlife Conservation Plan has been prepared for 11 nos Schedule-I species [namely *Hystrix indica* (Indian Porcupine), *Urva edwardsii* (Common Mongoose), *Canis aureus* (Jackal), *Vulpes bengalensis* (Indian Fox), *Panthera pardus* (Leopard), *Panthera tigris* (Tiger), *Pavo crista* (Indian pea fowl), *Varanus bengalensis* (Monitor lizard), *Naja Naja* (Cobra), *Ptyas mucosus* (Rat Snake), *Nettapus coromandelianus* (Cotton pygmy goose)]. The wildlife conservation plan has been approved by the chief Wildlife Warden vide letter dated 11.12.2024 with capital outlay of Rs.882.00 Lakhs on conservation measures. The mitigation measures as proposed in the conservation plan will be implemented.

Earlier a wildlife conservation plan for Schedule-I species (Great Indian Bustard) has been approved by PCCF (Wildlife), Maharashtra. Rs 35 Lakh was earmarked for the wildlife conservation plan. The amount was deposited on 06.08.2020 in favour of “Divisional Forest Officer, Chandrapur” for implementation of conservation plan. As per the letter dated 11.10.2023 received from DFO, Chandrapur, and the expenditure of Rs.35 Lakhs has been made in accordance with wildlife conservation plan.

20.2.7: Method of Mining & Mining Plan:

1. The mining plan & mine closure plan for the project was approved for 4.125 MTPA, 1679.39 ha by the WCL Board in the 356th meeting held on 28.09.2023 and communicated vide board note letter no. WCL/Office of CS/BM-356/2023-24/736 dated 12.10.2023. Present proposal is for 20% capacity expansion i.e. 3.30 MTPA as per MoEF&CC OM dated 11.04.2022.
2. Total geological reserve reported in the mine lease area is 101.01 MT with 58.72 MT mineable reserve. Extractable reserves are 55.78 MT considering 5% of mining losses. 6.73 MT coal reserves have been extracted till 31.03.2023. 49.05 MT coal reserves are remaining for extraction as on 01.04.2023. The Percentage of extraction is 95%.
3. One (1) coal seam with thickness ranging from 4.82 m – 14.98 m is workable. Declared Grade of coal is G-8, stripping ratio is 1:7.82 m³/t, while the gradient is 1 in 4.3 to 1 in 12.1.
4. Life of mine is 13 years as on 01.04.2023.
5. Method of Mining to be adopted shall be Opencast. The Capacity of the mine applied for normative capacity as per approved mining plan is 3.30 MTPA in the first phase.

6. The project has 8 external OB dumps in an area of 377.96 ha with maximum 90 m height and 130.61 Mm³ of OB (2.42 Mm³ OB in Embankment). 2 internal OB in an area of 385.26 ha having maximum height of 90 m with 286.67 Mm³ of OB is envisaged in the project.
7. Total quarry area is 640.26 ha out of which backfilling will be done in 385.26 ha while final mine void will be created in an area of 255 ha with a depth of 160 m. 308.21 ha of Backfilled quarry area shall be reclaimed with plantation. Final mine void will be converted to a water body.
8. The technology proposed to be used for top OB and parting OB removal and extraction of coal is shovel dumper system and surface miner technology.
9. Land use details:
 - a. Pre-mining land use details:

S. No.	Type of Land	Area (ha)
1.	Tenancy Land	1573.09
2.	Government Land	58.30
3.	Forest Land	0.00
4.	Outside Mine leasehold area	48.00
Total		1679.39

b. Post-Mining land use details:

S. No.	Type	Total Area	Reclaimed Area	Un Reclaimed area
1.	Excavation /Quarry Area:			
a)	Backfilled areas	385.26	308.21	77.05*
b)	Excavated Area (Void)	255.00	0.00	255.0
2.	External OB Dump (within ML area)	377.96	298.48	79.48*
3.	Embankment	44.37	5.00	39.37
4.	Road	30.00	5.00	25.00
5.	Built up area	148.0	70.00	78.00
6.	Nallah and canal Diversion	58.35	0.00	58.35
7.	Undisturbed area	380.45	142.50	237.95
Total		1679.39	829.19	850.2

*The external dump and quarry area proposed to be technically reclaimed.

10. 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:** Through dumpers
- b) **Surface to nearby thermal power plant (5.5 km):** Through tippers (as of now)
- c) **Quantity being transported by Road/Rail:** Total material to be transported by road is 3.30MTPA. In this project, coal transportation is proposed by constructing Railway siding by Mar'2026 within the Mine Lease area. The EC amendment has also been granted by MoEF&CC vide letter no: J-11015/381/2015-IA.II(M), dated 15.03.2024 for construction of railway siding by December 2026.

11. Reclamation plan: The reclamation plan includes i) Afforestation shall be done progressively covering an area of 829.19 ha at the end of mining. This will include Reclaimed external OB dump of 298.48 ha, reclaimed backfilled area in the form of internal OB dumps of 308.21 ha and Green Belt of 25 ha. Density of the plantation will be 2500 nos of plants per ha. Area of void is proposed to be 255 ha (includes batter area), which will be converted into water body of depth of 160 m. 197.50 ha which will also be reclaimed through plantation, includes different land use pattern, such as excavation area long ML boundary, along roads and infrastructure, embankment area and in township located outside the lease, etc.

20.2.8: Baseline data: Baseline data was generated in the post monsoon Season 2023 from 01.10.2023 to 31.12.2023 at 12 locations.

Period	Parameters
AAQ parameters at 12 Locations (min and max)	<p>Core Zone (All values found within permissible limit as per Coal Mine Standard, GSR 742(E), 2000 PM_{2.5} = 55 To 81 µg/m³ PM₁₀ = 121 To 158 µg/m³ SO₂ = 21 to 33 µg/m³ NO_x = 26 To 39 µg/m³</p> <p>Buffer Zone (All values found within permissible limit as per NAAQS, 2009) PM_{2.5} = 29 To 59 µg/m³ PM₁₀ = 51 To 96 µg/m³ SO₂ = 14 to 35 µg/m³ NO_x = 16 To 36 µg/m³</p>
Incremental GLC Level (Maximum)	<p>The incremental increase in values were projected in Buffer Zone with control measures is - PM₁₀ = 9.31 µg/m³ (Level at 0.50 km in West Direction) PM_{2.5} = 2.56 µg/m³ (Level at 0.50 km in West Direction) SO₂ = 0.18 µg/m³ (Level at 0.10 km in East Direction) NO_x = 2.89 µg/m³ (Level at 0.10 km in East Direction)</p> <p>The incremental increase in values were projected in core Zone with control measures is - PM₁₀ = 34.77 µg/m³ (Level in core zone) PM_{2.5} = 4.96 µg/m³ (Level in core zone) SO₂ = 0.82 µg/m³ (Level in core zone) NO_x = 12.96 µg/m³ (Level in core zone)</p>
Ground Water Quality	pH: 7.27 to 8.24, TDS: 480 to 2160 mg/l, Chlorides: 22 to 480 mg/l, Fluoride: 0.21 to 0.99 mg/l. Heavy Metal - Zinc: 0.011 – 0.052 mg/l.

Period	Parameters																				
	Nickel: 0.025 – 0.039 mg/l. Manganese: 0.029 – 0.051 mg/l. Copper: 0.042 – 0.054 mg/l. Lead: 0.005 – 0.009 mg/l. Total Chromium: 0.014 – 0.018 mg/l.																				
Surface Water Quality	pH: 7.96 to 8.24; DO: 3.4 to 4.2 mg/l BOD: from 3.0 mg/l to 4.40 mg/l COD from 32 mg/l to 56 mg/l																				
Noise levels Leq (Day and Night)	Core Zone 51.6 to 57.2 dB(A) for the day time and 43.1 to 55.9 dB(A) for the Night time. Buffer Zone 41.2 to 47.8 dB(A) for the day time and 39.1 to 44.2 dB(A) for the Night time.																				
Traffic Assessment Study Findings	<p>Traffic study has been conducted along coal transportation route, which is approximately 5.5 km. Transportation of mineral will be done 100% by road till construction of Railway Siding by December, 2026. Existing PCU is 260.4 PCU/hr on Coal Transportation Route and existing level of service (LOS) is:</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 Thermal Power Plant</td> <td>260.4</td> <td>1500</td> <td>0.17</td> <td>A</td> </tr> </tbody> </table> <p>PCU load after proposed project will be 260.4 (Existing) + 37 (Additional) PCU/hr and level of service (LOS) will be:</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 Thermal Power Plant</td> <td>297.4</td> <td>1500</td> <td>0.198</td> <td>A</td> </tr> </tbody> </table> <p>Note: Capacity as per IRC-106-1990 Guide line for capacity for roads is 1500. Conclusion: The level of service will remain excellent (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	Mine to Thermal Power Plant	260.4	1500	0.17	A	Road	V (Volume in PCU/hr.)	C (Capacity in PCU/hr.)	Existing V/C Ratio	LOS	Mine to Thermal Power Plant	297.4	1500	0.198	A
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Road	V (Volume in PCU/hr.)	C (Capacity in PCU/hr.)	Existing V/C Ratio	LOS																	
Mine to Thermal Power Plant	297.4	1500	0.198	A																	
Flora and Fauna	<p>The wildlife conservation plan for 11 nos of schedule-I species [namely <i>Hystrix indica</i> (Indian Porcupine), <i>Urva edwardsii</i> (Common Mongoose), <i>Canis aureus</i> (Jackal), <i>Vulpes bengalensis</i> (Indian Fox), <i>Panthera pardus</i> (Leopard), <i>Panthera tigris</i> (Tiger), <i>Pavo crista</i> (Indian pea fowl), <i>Varanus bengalensis</i> (Monitor lizard), <i>Naja Naja</i> (Cobra), <i>Ptyas mucosus</i> (Rat Snake), <i>Nettapus coromandelianus</i> (Cotton pygmy goose)], has been approved by the chief Wildlife Warden vide letter dated 11.12.2024 for Rs.882.00 Lakhs. The approval copy along with action plan to be implemented for wildlife conservation is enclosed.</p>																				
Water Requirement	<p>Source of Water: Mine water through pumping and tubewell (70 KLD) Ground Water Intersection: Yes In core zone the ground water level has been reported to be varying between 2.2 m to 3.5 m during pre-monsoon and between 6.9 m to 8.30 m during post-monsoon. In buffer zone the ground water level has been reported to be varying between 2.0 m to 4.75 m during pre-monsoon and between 3.90 m to 9.40 m during post-monsoon. Water Requirement: Water requirement is 4624 KLD NOC (Ground Water): CGWA has granted NOC for abstraction of ground water for Amalgamated Yekona I & II OC mine vide letter no. CGWA/NOC/MIN/ORIG/2019/6689 dated 19.11.2019 and valid upto 18.11.2021. The 1st</p>																				

Period	Parameters
	renewal of NOC has been approved in 67 th meeting as communicated by CGWA vide email dated 26.07.2023. The formal renewal letter is awaited. The application for 2 nd renewal of NOC has been made on 18.11.2023. The application is under consideration at CGWA, Delhi. In regard to the renewal application, correspondences has been made to CGWA vide letter no. 1114 dated 18.10.2024 and letter no. 1230 dated 12.11.2024 for issuance of NOC. In reply of same, CGWA vide email dt. 19.11.2024 ensures that “application is under process for issuance of NOC.”

20.2.9: Water Requirement: PP submitted that the water requirement for the said project will be 4624 KLD and source of water shall be groundwater. PP submitted that the NOC for abstraction of groundwater has been granted vide letter no CGWA/NOC/MIN/ORIG/20196689 dated 19.11.2019 with validity up to 18.11.2021. The renewal of NOC has been approved in 67th meeting as communicated by CGWA vide email dated 26.07.2023. The formal renewal letter is awaited. The application for 2nd renewal of NOC has been made on 18.11.2023. The application is under consideration CGWA. PP further submitted that the project involves the diversion of one seasonal Nallah and one canal. The study for nallah diversion is conducted by CDO Nashik. The design report on diversion of Nallah has been submitted by Water Resource Department, Central Design Organisation, and Government of Maharashtra in July, 2024 by technical note no CDO/DAM/ED-2/2024 dated 03.07.2024. The NOC approval from irrigation department is yet to be accorded and the same is under process. The canal diversion work has been taken up by the Minor Irrigation Department, Maharashtra Government. The survey work for diversion of canal has been completed by Minor Irrigation department, Chandrapur in 2022 and alignment of diverted route was fixed. The irrigation department has provided the estimate of Rs. 7.51 Crores for diversion of canal vide letter no. 1672/ Pra. Sha – 4/Valan Kalwa Mobadla/WCL//23 dated 20.7.2023. The WCL Board has approved the proposal of award of work of “Diversion of branch of Lal Nallah canal project to Minor Irrigation Department, Chandrapur, Maharashtra vide letter dated 21.12.2024. The diversion work of canal will be completed in 18 months by Minor Irrigation Dept, Chandrapur. PP submitted that the diversion of nallah and canal are already envisaged in the existing EC Dt.01.01.2021. In the present proposal, no additional diversions of nallah/canal are proposed.

20.2.10: Power Requirement and details of diversion of Hi-Tension/ Transmission Line: The power requirement for the mine is projected to be 50, 25,500 KWH at peak. A 33 KV and 11 KV line is proposed to be diverted. The existing length of 33 KV line is 1.40 km and 11KV line is 1.37 KV. The proposed diverted length for both line will be 3.50 Km. Survey of both existing 33 KV and 11 KV HT lines was done by Executive Engineer, Warora, MSEDCL has been carried. The Maharashtra State Electricity Distribution Co. Lt (MAHAVITARAN) has approved the shifting of 33KV line and 11KV line on 12.09.2024.

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

S. No.	Type of Waste	Source	Quantity	Mode of Treatment	Disposal
1	Overburden	Mining	417.28 MM ³	OB Dump	Dumping
2	ETP Sludge	ETP	24 tonne	Sludge drying bed	Disposed off by Authorized agency by MPCB
3	Burnt Oil	HEMM	2.4 TPA	Sold to authorized recycler	Sold to authorized recycler
4	Used Oil	HEMM	40 TPA	Sold to authorized recycler	Sold to authorized recycler

20.2.12: Status of implementation of action plan as per the Public Consultation held on 14/06/2019: Public Hearing was held on 14.06.2019, for the EC granted vide letter dated 01.01.2021. PP submitted that the advertisement for public hearing was given on 09.05.2019 in Loksatta, Hitavada and Deshonnati (3 newspapers) and public hearing held on 14.06.2019 at Amalgamated Yekona I & II OC Mine, Yekona Village, Tehsil Warora, Chandrapur District, Maharashtra under the Chairmanship of Additional District Magistrate, Chandrapur. Total 198 nos of people attended the public hearing and no written representations were received from the district and outside the district. The major issues raised during the PH were R&R, employment, CSR, land acquisition, environment pollution etc. PP submitted the compliance of the minutes of the PH, as follows:

S. No	Physical activity and action plan		Year of implementation (Budget in INR)						Total Expenditure (Rs. in Lakhs)
	Name of the Activity	Physical Targets	1 st (2019-20)	2 nd (2020-21)	3 rd (2021-22)	4 th (2022-23)	5 th (2023-24)	6 th (2024-25)	
			Completed Activities						
1	Medical Camps	Conducting medical camps in	0.80	-	0.10	0.30	0.20	2.0	3.40
2	Drinking Water Supply	Providing Handpumps in Yekona and Marda Village, Borewell in Charurkhathi Village, Water Purifier in Warora	6.26	-	-	74.15	-	-	80.41
3	School Infrastructure	Fencing of ZP School, Charurkhathi, Library room in Yekona Village	2.20	-	-	-	5.82	-	8.02
4	Road and Drainage system	Cement road in Yekona, Wanoja and Marda Village	-	-	10.46	249.15	4.89	8.00	272.5

S. No	Physical activity and action plan		Year of implementation (Budget in INR)						Total Expenditure (Rs. in Lakhs)	
	Name of the Activity	Physical Targets	1 st (2019-20)	2 nd (2020-21)	3 rd (2021-22)	4 th (2022-23)	5 th (2023-24)	6 th (2024-25)		
			Completed Activities							Proposed
		Repair of Warora – Madheli Road								
5	Infrastructure	Samaj Bhavan in Charurkhati Village Street Lightening in Yekona Village, construction of wall around Samaj Bhavan, Charurkhati Village	-	-	-	-	13.46	18.10	31.56	
6	Rainwater Harvesting Measures	Pond at Yekona Village for Rainwater Harvesting	-	-	-	-	5.32	-	5.32	
Total			373.11						28.10	401.21

20.2.13: EMP Budget: The capital cost for environmental protection measures is proposed as Rs 588.5 Lakhs. The annual recurring cost towards the environmental protection measures is proposed as Rs 247 Lakhs. Permanent employment to 303 persons has been provided from the project. In addition, approximately 519 Nos. of employment are provided by contractual HEMM operators. The details of cost for environmental protection measures is as follows:

S. No.	Description of Item	Existing (in Lakhs)		Proposed in Lakhs	
		Capital Cost	Recurring Cost	Capital Cost	Recurring Cost
(i)	Air Pollution Control/ Noise Management	70.00	88.32	313.50	150.0
(ii)	Water Pollution Control	58.28	25.07	35.00	47.0
(iii)	Environmental Monitoring and Management	102.80	221.19	-	-
(iv)	Green Belt & Plantation Development	-	182.60	240.00	50
(v)	Other heads as proposed in EIA/committed during the EAC	-	321.28	-	-
Total		231.08	838.46	588.5*	247

* The activity wise details for proposed expenditure of ₹ 588.50 Lakhs are provided as below:

S. No.	Particular	Capital Proposed (₹ in Lakhs)	Timeline
1	10 nos of Fixed Sprinklers at coal stock yard	10	March'25
2	20 nos of fixed sprinklers along coal transportation route	20	March'25
3	Road Sweeping Machine	43.50	June'25
4	2 nos of fog canon at Coal Stock Yard and Weigh Bridge	16	June'25
5	2 nos of fog canons along coal transportation Route	16	June'25
6	1 nos of fog canon at Proposed Railway Siding	8	Dec'25
7	Wind Barrier at Proposed Railway Siding	200	Dec'25
8	Additional Sedimentation tank	25	March'25
9	Roof top rain water harvesting	10	May'25
10	Green Belt (in next 3 years)	240	2024-2027
Total		588.50	

20.2.14: Plantation: Existing plantation has been developed in 61.6 ha area which is about 3.66 % of the total project area of 1679.39 ha with total sapling of 1,54,000 trees. Proposed additional plantation will be developed in 767.59 ha which is about 45.71 % of the total project area. Thus total of 829.19 ha area (49.37% of total project area) will be developed as plantation. 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 2072975 saplings will be planted and nurtured in 829.19 hectares in 16 years (13 years of mine + 3 years of post-closure activities).

20.2.15: Rehabilitation and Resettlement: PP submitted that, in this project R&R of Marda village located within the ML area is proposed to be rehabilitated. The project involves 208 project affected families. R&R of the PAPs will be done as per R&R policy of Coal India Limited and State Government of Maharashtra.

20.2.16: Project Cost: PP submitted that there are no changes in the capital cost. However,

20.2.17: Details of pending litigation: 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.

20.2.18: Undertaking and Affidavit: PP submitted an undertaking vide letter dated 05.01.2025, stating that, i) Mining is done at the site as per the provisions of approved mining plan and the existing Environment Clearance obtained (Ref: EC for Amalgamated Yekona has been granted by MoEF&CC, vide letter no. - J-11015/381/2015-IA-II(M) dated 01.01.2021 and EC amendment granted by MoEF&CC vide letter no J-11015/381/2015-IA-II(M) dated 15.03.2024 , ii) That there is no litigation on the project at NGT or any other court of law. However, WP No. 2470/2022, WP No. 1617/2023, WP No. 1839/2023, WP no. 2874/2024 regarding construction of by-pass road i.e. outside the EC boundary is pending before Hon'ble Hight court of Bombay, Nagpur Bench, iii) the land has been acquired as per provisions of approved Project Report/Mining Plan under CBA (A&D), Act, 1957 and R&R being carried out as per CIL norms. iv) there is no difference in the documents

submitted and presentation being made to the EAC, v) Reason for submitting the project at MoEF&CC – The present proposal is for expansion of Environment Clearance dated 01.01.2021 under EIA Notification, 2006 for “Amalgamated Yekona I & II OC (Phase-I) for increasing production capacity from 2.75 MTPA to 3.30 MTPA in the land area of 1679.39 ha located in Tehsil Warora: District Chandrapur; State; Maharashtra.

The Consultant vide undertaking dated 01.07.2024 submitted that the complete EIA report of Amalgamated Yekona I & II OC (Phase-I) for increase in capacity from 2.75 MTY to 4.125 MTY (3.30 MTY, Phase-1) with Mine lease area of 1679.39 ha for M/s Western Coalfields Limited (Under 7(ii) Clause of EIA notification, 2006 vide OM dtd.11.04.2022) has been prepared by them. All the data submitted is factually correct to the best of our knowledge. And CMPDIL owns the content (information and data) of the above-mentioned EIA report and the content of this report has not been copied from other EIA reports.

20.2.19: ADS Reply: The proponent submitted the ADS reply vide letter dated 12.12.2024 uploaded on PARIVESH on 13.12.2024 Point-wise reply of ADS is given as below:

S. No	ADS point	Reply/ Action Plan/ Compliance Status
1	Wildlife conservation plan duly approved by the chief Wildlife Warden along with the action plan for implementation of the same	<ul style="list-style-type: none"> In the existing project, a wildlife conservation plan for Schedule-I species (Great Indian Bustard) has been approved by PCCF (Wildlife), Maharashtra vide letter Dt.20.04.2020 for Rs.35.00 Lakhs and the correspondence from DFO, Chandrapur vide letter Dt.11.10.2023 to PP regarding the utilization of the earmarked amount. (same has been submitted). In connection the proposed expansion, 12 Schedule-I species are reported during flora fauna survey conducted from October-December’2023 in the study area as per Wildlife (Protection) Amendment Act, 2022. Accordingly, the wildlife conservation plan has been approved by the chief Wildlife Warden vide letter dated 11.12.2024 for Rs.882.00 Lakhs. The approval copy along with action plan to be implemented for wildlife conservation (the same is submitted). A total amount of Rs.917.00 Lakhs is being utilized for wildlife conservation in respect to the Amalgamated Yekona I & II OC.
2	NOC Renewal status of ground water approval from CGWA along with the requisite supporting document	<ul style="list-style-type: none"> The NOC for abstraction of groundwater has been granted vide NOC no. CGWA/NOC/MIN/ORIG/2019/6689 dated 19.11.2019 with validity up to 18.11.2021 (the same is submitted).. The 1st renewal of NOC has been approved in 67th meeting as communicated by CGWA vide email dated 26.07.2023 (the same is submitted). The formal renewal letter is awaited. The application for 2nd renewal of NOC has been made on 18.11.2023. The application is under consideration at CGWA, Delhi (the same is submitted). In regard to the renewal application, correspondences has been made to CGWA vide letter no. 1114 dated 18.10.2024 and letter no. 1230 dated 12.11.2024 for issuance of NOC (the same is submitted). In reply of same, CGWA vide email dt. 19.11.2024 ensures that “application is under process for issuance of NOC.” (the same is submitted).
3	Certified compliance status by Regional Office on the three partial compliances reported by them based	<p>Certified Compliance Report (CCR) for the existing Environment Clearance Dt.01.01.2023, has been obtained from Regional Office, MoEF&CC, Nagpur vide letter no.12614, Dt.11.12.2023.</p> <p>Site visit for addendum CCR has been conducted by IRO, MoEF&CC, Nagpur on Dt. 26.09.2024.</p> <p>An addendum CCR, has been obtained from Regional Office, MoEF&CC, Nagpur vide letter no. 13622 dated 03.10.2024 on the three partial compliances reported during initial CCR Dt.11.12.2023 (the same is submitted).</p>

S. No	ADS point	Reply/ Action Plan/ Compliance Status																																										
	on the ATR of the project proponent																																											
4	Time bound action plan for green belt development shall be submitted	<p>As on date 1,54,000 trees are planted along North-Western Boundary, between Yekona Village and mine boundary and year-wise plantation details is deliberated below</p> <table border="1"> <thead> <tr> <th>Financial Year</th> <th>Nos</th> <th>Location</th> </tr> </thead> <tbody> <tr> <td>2020-21</td> <td>10,000</td> <td>Plain land/ Green Belt along mine boundary</td> </tr> <tr> <td>2021-22</td> <td>15,000</td> <td>Black cotton soil dump</td> </tr> <tr> <td>2022-23</td> <td>50,000</td> <td>Plain land/Avenue Plantation. Black cotton soil dump</td> </tr> <tr> <td>2023-24</td> <td>45,000</td> <td>Black cotton soil dump</td> </tr> <tr> <td>2024-25</td> <td>34,000</td> <td>Embankment along Wardha river, plain land near Dahiwal nala</td> </tr> <tr> <td>Total</td> <td>1,54,000 nos</td> <td></td> </tr> </tbody> </table> <p>The geotagged photographs of the plantation are submitted. The action plan for plantation programme for the next five years is detailed below.</p> <table border="1"> <thead> <tr> <th>Financial Year</th> <th>Location</th> <th>Area available for plantation</th> </tr> </thead> <tbody> <tr> <td>2025-26</td> <td>Near CAAQMS & Marda village gut no.321</td> <td>10 Ha.</td> </tr> <tr> <td>2026-27</td> <td>Between Dahiwal nala and diverted state highway road</td> <td>10 Ha.</td> </tr> <tr> <td>2027-28</td> <td>Embankment Wardha river side (western boundary)</td> <td>8 Ha.</td> </tr> <tr> <td>2028-29</td> <td>Near CA land of forest land gut no.261,262 side</td> <td>12 Ha.</td> </tr> <tr> <td>2029-30</td> <td>Near gut no.45 & 46 east to north boundary side.</td> <td>10 Ha</td> </tr> <tr> <td></td> <td>Total</td> <td>50 Ha.</td> </tr> </tbody> </table> <p>The location plan showing the proposed plantation sites is submitted along with undertaking from PP.</p>	Financial Year	Nos	Location	2020-21	10,000	Plain land/ Green Belt along mine boundary	2021-22	15,000	Black cotton soil dump	2022-23	50,000	Plain land/Avenue Plantation. Black cotton soil dump	2023-24	45,000	Black cotton soil dump	2024-25	34,000	Embankment along Wardha river, plain land near Dahiwal nala	Total	1,54,000 nos		Financial Year	Location	Area available for plantation	2025-26	Near CAAQMS & Marda village gut no.321	10 Ha.	2026-27	Between Dahiwal nala and diverted state highway road	10 Ha.	2027-28	Embankment Wardha river side (western boundary)	8 Ha.	2028-29	Near CA land of forest land gut no.261,262 side	12 Ha.	2029-30	Near gut no.45 & 46 east to north boundary side.	10 Ha		Total	50 Ha.
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5	As per specific condition (vi) of the EC dated 1/1/2021, Rs. 45.35 crores is earmarked for CER activities shall be considered as part of EMP which shall be accomplished	<p>As per MoEF&CC OM dated 01.05.2018, the CER Provision in the existing Amalgamated Yekona I & II OC was 3.63 Crore. The fund was allocated accordingly to the maximum percentage as prescribed in the page 2 of the OM dated 01.05.2018. The relevant paragraph of MoEF&CC OM dated 01.05.2018 is quoted below:</p> <p>II. The fund allocation for the CER shall be deliberated in the EAC or SEAC or DEAC, as the case may be, with a due diligence subject to maximum percentage as prescribed for different cases:</p>																																										

S. No.	ADS point	Reply/ Action Plan/ Compliance Status													
	<p>within a period of 5 years whereas PP has incurred only Rs. 3.7 crores. Clarification in this regard shall be submitted by the project proponent.</p>	<p>S. No.</p>	<p>Capital investment/ Additional Capital investment (in Rs.)</p>	<p>Greenfield Project - % of Capital Investment</p>	<p>Brownfield Project - % of Additional Capital Investment</p>										
		1.	≤ 100 Crore	2.0 %	1.0 %										
		2.	> 100 Crores to ≤ 500 Crores	1.5 %	0.75 %										
		3	> 500 crores to ≤ 1000 crores	1.0 %	0.50 %										
		4.	> from 10000 crores to ≤ 10000 crores	0.5 %	0.25 %										
		5.	> 10000 crores	0.25 %	0.125 %										
		<p>The proposal for Amalgamated Yekona I & II OC mine was brownfield project involving expansion in production capacity and ML Area. Total project cost was 745.83 Crore and the additional capital investment in the project was 727.38 Crore as per the approved Project report. The project falls in the S. No. 3 of the above table with maximum allocation of 0.50%. Accordingly, 0.5% of 727.38 Crore i.e. 3.63 Crore was allocated for the CER.</p>													
		<p>Accordingly, the provision of 3.63 crore was envisaged in the approved EIA-EMP report. Same information was also provided on the Parivesh portal. The information of CER available on the Parivesh Portal for existing Amalgamated Yekona I & II OC is provided below with screenshot from the website.</p>													
		<p><u>Project Cost (as per previous EIA/ EMP Report):</u></p>													
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		<p>However, due to some error, the amount for CER was written as 45.35 Crore in the EC letter dated 01.01.2021. It is requested to kindly consider the CER provision of 3.63</p>													

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		<p>crore. The project proponent has incurred 3.73 Crore against the provision of 3.63 Crore. The details of expenditure made on the CER and proposed CER activities is provided below:</p> <table border="1"> <thead> <tr> <th rowspan="3">S. No</th> <th colspan="2">Physical activity and action plan</th> <th colspan="6">Year of implementation (Budget in INR)</th> <th rowspan="3">Total Expenditure (Rs. in Lakhs)</th> </tr> <tr> <th rowspan="2">Name of the Activity</th> <th rowspan="2">Physical Targets</th> <th>1st</th> <th>2nd</th> <th>3rd</th> <th>4th</th> <th>5th</th> <th>6th</th> </tr> <tr> <th>(2019-20)</th> <th>(2020-21)</th> <th>(2021-22)</th> <th>(2022-23)</th> <th>(2023-24)</th> <th>(2024-25)</th> </tr> <tr> <th colspan="7">Completed Activities</th> <th>Proposed</th> <th></th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Medical Camps</td> <td>Conducting medical camps in</td> <td>0.80</td> <td>-</td> <td>0.10</td> <td>0.30</td> <td>0.20</td> <td>2.0</td> <td>3.40</td> </tr> <tr> <td>2</td> <td>Drinking Water Supply</td> <td>Providing Handpumps in Yekona and Marda Village, Borewell in Charurkhati Village, Water Purifier in Warora</td> <td>6.26</td> <td>-</td> <td>-</td> <td>74.15</td> <td>-</td> <td>-</td> <td>80.41</td> </tr> <tr> <td>3</td> <td>School Infrastructure</td> <td>Fencing of ZP School, Charurkhati, Library room in Yekona Village</td> <td>2.20</td> <td>-</td> <td>-</td> <td>-</td> <td>5.82</td> <td>-</td> <td>8.02</td> </tr> <tr> <td>4</td> <td>Road and Drainage system</td> <td>Cement road in Yekona, Wanoja and</td> <td>-</td> <td>-</td> <td>10.46</td> <td>249.15</td> <td>4.89</td> <td>8.00</td> <td>272.5</td> </tr> </tbody> </table>								S. No	Physical activity and action plan		Year of implementation (Budget in INR)						Total Expenditure (Rs. in Lakhs)	Name of the Activity	Physical Targets	1 st	2 nd	3 rd	4 th	5 th	6 th	(2019-20)	(2020-21)	(2021-22)	(2022-23)	(2023-24)	(2024-25)	Completed Activities							Proposed		1	Medical Camps	Conducting medical camps in	0.80	-	0.10	0.30	0.20	2.0	3.40	2	Drinking Water Supply	Providing Handpumps in Yekona and Marda Village, Borewell in Charurkhati Village, Water Purifier in Warora	6.26	-	-	74.15	-	-	80.41	3	School Infrastructure	Fencing of ZP School, Charurkhati, Library room in Yekona Village	2.20	-	-	-	5.82	-	8.02	4	Road and Drainage system	Cement road in Yekona, Wanoja and	-	-	10.46	249.15	4.89	8.00	272.5
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S. No	ADS point	Reply/ Action Plan/ Compliance Status											
				Marda Village									
				Repair of Warora – Madheli Road									
		5	Infrastructure	Samaj Bhavan in Charurkhati Village Street Lightening in Yekona Village, construction of wall around Samaj Bhavan, Charurkhati Village	-	-	-	-	13.46	18.10	31.56		
		6	Rainwater Harvesting Measures	Pond at Yekona Village for Rainwater Harvesting	-	-	-	-	5.32	-	5.32		
		Total							373.11	28.10	401.21		

20.2.20: Written Submissions: PP submitted an undertaking stating the following:

S. No.	Points	Written submissions
1	Timeline for proposed Railway siding	The railway siding is under construction. It is proposed to be commissioned by March'2026. No transportation by trucks after March'2026 except for small scale industry and thermal power located within 5 kms of the mine area.

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2	Distance of Project from CEPI notified areas	A certificate has been issued from the Sub-Regional Officer, Maharashtra Pollution Control Board, Chandrapur vide letter no MPCB/SROC/959/2025, Dt.10.01.2025 (letter submitted), detailing the aerial distances of the said project from CEPI notified areas. The project is about 30 kms away from the nearby CEPI area. The distance from CEPI areas is as follows: <ul style="list-style-type: none"> ➤ MIDC Tadali - about 30 km ➤ MIDC Ghuggus - about 30 km ➤ MIDC Chandrapur - about 40 km ➤ MIDC Ballarpur - about 60 km 																																																
3	Yekona Village Road diversion	The Yekona village road has been diverted with the approval of executive Engineer, PWD, Zilla parishad, Chandrapur letter vide no. NOC/ 1129/2023, Dt.05.10.2023 (letter submitted). The Existing length of road is 1.70 km and diverted length is 1.65 Km																																																
4	Protection along the River	Part of Quarry area of the mine is within the HFL of the Wardha River. Hence, a protective embankment is constructed along the Wardha River with the height of 6 meter above HFL. The Embankment along the periphery of active quarry area is constructed 100 meter away from Wardha River. Plantation and grass seeding on the embankment is proposed along the Wardha river side. In 2024-25, 15,000 saplings were planted on the slope of Embankment. Further, plantation on embankment will be strengthened in next 3 years.																																																
5	Solar power	Proposed roof top solar of capacity 40KWp in office buildings. Estimated cost: Rs.25.00 Lakhs																																																
6	Additional Pollution Control Measures to reduce the Air Pollution	In order to mitigate air pollution in and around mine premises, the proposed railway siding will be commissioned by March'2026. It will minimise the road transportation. In addition to this, the following additional Air Pollution control measures are proposed: <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>S.no</th> <th>Particulars</th> <th>Timeline</th> <th>Estimate (in Rs Lakhs)</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Fixed Sprinklers at coal stock yard and along coal transportation route (30 nos)</td> <td>June'2025</td> <td>20.0</td> </tr> <tr> <td>2</td> <td>Fog canon at Coal Stock Yard, Weigh Bridge , coal transportation Route and at railway siding (5 nos)</td> <td>June'2025</td> <td>40.0</td> </tr> <tr> <td>3</td> <td>Wind Barrier at Proposed Railway Siding (6m height)</td> <td>March'2026</td> <td>250.0</td> </tr> <tr> <td>4</td> <td>Road sweeping machine (1 no)</td> <td>Feb'2025</td> <td>33.0</td> </tr> <tr> <td>5</td> <td>Tyre Washing System</td> <td>June'25</td> <td>34.77</td> </tr> <tr> <td>6</td> <td>CAAQMS (1 no)</td> <td>March'2026</td> <td>70.00</td> </tr> <tr> <td colspan="3" style="text-align: right;">Total</td> <td>447.77</td> </tr> </tbody> </table> <p>Further, to minimise the air pollution, increase in green cover is proposed and details are as follows</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>S.no</th> <th>Particulars</th> <th>Timeline</th> <th>Estimate (in Rs Lakhs)</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Green Belt (along the mine boundary) – Details elaborated at point no.8</td> <td>In next 3 years</td> <td>300.0</td> </tr> <tr> <td>2</td> <td>Miyawaki Plantation (10,000 saplings in 1 ha)</td> <td>FY 2025-2026</td> <td>100.0</td> </tr> <tr> <td>3</td> <td>Sapling Distribution- Details elaborated at point no.7</td> <td>10 Years</td> <td>24.0</td> </tr> </tbody> </table>	S.no	Particulars	Timeline	Estimate (in Rs Lakhs)	1	Fixed Sprinklers at coal stock yard and along coal transportation route (30 nos)	June'2025	20.0	2	Fog canon at Coal Stock Yard, Weigh Bridge , coal transportation Route and at railway siding (5 nos)	June'2025	40.0	3	Wind Barrier at Proposed Railway Siding (6m height)	March'2026	250.0	4	Road sweeping machine (1 no)	Feb'2025	33.0	5	Tyre Washing System	June'25	34.77	6	CAAQMS (1 no)	March'2026	70.00	Total			447.77	S.no	Particulars	Timeline	Estimate (in Rs Lakhs)	1	Green Belt (along the mine boundary) – Details elaborated at point no.8	In next 3 years	300.0	2	Miyawaki Plantation (10,000 saplings in 1 ha)	FY 2025-2026	100.0	3	Sapling Distribution- Details elaborated at point no.7	10 Years	24.0
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7	Sapling Distribution	Target – 60,000 Saplings <ul style="list-style-type: none"> ➤ 10,000 saplings will be distributed in next Monsoon season i.e. FY 2025-26 under special drive for increasing the green cover in nearby villages. 																																																

S. No.	Points	Written submissions																				
		<ul style="list-style-type: none"> ➤ Further, 5,000 saplings/Year of fruit bearing, and native species will be distributed in nearby villages during Vriksharopan Abhiyan in Monsoon Season. In next 10 years, 50,000 saplings will be distributed. ➤ Thus, total 60,000 saplings are proposed to be distributed in phased manner. 																				
8	Plantation Program	<p>In next 3 years, 60 ha area is proposed to be planted with 1,50,000 saplings.</p> <table border="1"> <thead> <tr> <th>Financial Year</th> <th>Location</th> <th>Area available for plantation</th> <th>Saplings</th> </tr> </thead> <tbody> <tr> <td>2025-2026</td> <td>Near CAAQMS & Marda village gut no.321 and Between Dahiwal nala and diverted state highway road and any other location within mine lease</td> <td>25 Ha</td> <td>62,500</td> </tr> <tr> <td>2026-2027</td> <td>Embankment Wardha river side (western boundary) and along north east mine boundary and any other location within mine lease</td> <td>20 Ha</td> <td>50,000</td> </tr> <tr> <td>2027-2028</td> <td>Near gut no.45 & 46 east to north boundary side and any other location within mine lease</td> <td>15 Ha</td> <td>37,500</td> </tr> <tr> <td></td> <td></td> <td>60 Ha</td> <td>150,000</td> </tr> </tbody> </table> <p>*Tentative expenditure- 300 Lakhs for 60 Ha proposed plantation.</p>	Financial Year	Location	Area available for plantation	Saplings	2025-2026	Near CAAQMS & Marda village gut no.321 and Between Dahiwal nala and diverted state highway road and any other location within mine lease	25 Ha	62,500	2026-2027	Embankment Wardha river side (western boundary) and along north east mine boundary and any other location within mine lease	20 Ha	50,000	2027-2028	Near gut no.45 & 46 east to north boundary side and any other location within mine lease	15 Ha	37,500			60 Ha	150,000
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9	Mine Water Discharge	<p>During the mining operations, the strata seepage water gets accumulated in the mine sump. This seepage water is required to be extracted for safe working of mine, men and machinery. Coal can be extracted only after adequate dewatering of the seepage water from working phase of mine. Due to continuous influx of seepage water, even after gainful utilization of mine water within mine, excess quantity of water after treatment is to be discharged in nearby water body .</p> <p>Hence, mine water extraction and discharge are integral part of coal mining process. The mine water is being utilised to maximum extent for various industrial purposes such as firefighting, washing of HEMM, gardening purposes, dust suppression through fog cannons, fixed sprinklers, mobile tankers etc.,</p> <p>Excess Mine Water after treatment is being discharged to nearby Daiwal Nallah so that it can be gainfully utilised by nearby communities and which also helps in maintaining the E-flow ie Environmental flow of the nallah.</p>																				

S. No.	Points	Written submissions			
10	Diversion of Canal and Nallah	<p>The diversion of nallah and canal are already envisaged in the existing EC Dt.01.01.2021. In the present proposal, no additional diversions of nallah/canal are proposed. Details of Diversion are detailed as below-</p>			
		Activity	Existing length	Proposed diversion length	Remarks
		Diversi on of nallah	2850 m	2490 m	<p>The study for Nallah diversion has been conducted by CDO Nashik. The design report on diversion of Nallah has been submitted by Water Resource Department, Central Design Organisation, Government of Maharashtra by technical note no CDO/DAM/ED-2/153/2024 dated 04.07.2024. (letter submitted)</p> <p>The work of NOC approval from Irrigation department, Chandrapur and the discussion with CDO Nasik regarding design are in progress. The correspondences made to Irrigation department Vide WCL letter no. WCL/MA/SAM/YSA/Civil/730, Dt. 02.08.2024 & letter no. 1157, Dt.24.10.2024 (letter submitted)</p> <p>It is to submit that, nallah diversion will be done only after obtaining NOC from irrigation department.</p>
		Diversi on of canal	6000 m	3600 m	<p>The canal diversion work is being taken up by Irrigation Department, Maharashtra Government vide letter no. 1672/ Pra. Sha – 4/Valan Kalwa Mobadla/WCL/23 dated 20.7.2023. (letter submitted).</p>
		<p>The diversions lengths detailed above are as per the alignment proposed by CDO nasik for nallah diversion and irrigation departmnet for Canal diversion.</p>			
11	CGWA NOC status	<ul style="list-style-type: none"> ● The NOC for abstraction of groundwater has been granted vide NOC no. CGWA/NOC/MIN/ORIG/2019/6689 dated 19.11.2019 with validity up to 18.11.2021. ● The 1st renewal of NOC has been approved in 67th meeting as communicated by CGWA vide email dated 26.07.2023.The formal renewal letter is awaited. ● The application for 2nd renewal of NOC has been made on 18.11.2023. The application is under consideration at CGWA, Delhi. ● In regard to the renewal application, correspondences has been made to CGWA vide letter no. 1114 dated 18.10.2024 and letter no. 1230 dated 12.11.2024 for early issuance of NOC. ● In reply of same, CGWA vide email dt. 19.11.2024 ensured that “application is under process for issuance of NOC.” ● All the required payments against the above said applications are made to CGWA (letter submitted). 			

Observation and deliberation of the EAC:

20.2.21: Committee after deliberations noted the following:

1. Yekona – I OC, originally accorded EC on 17/10/2006 for coal production of 0.40 MTPA over a lease area of 265.50 ha. Yekona-II OC, accorded EC on 17/10/2006 for coal production of 0.60 MTPA over a lease area of 414.56 ha. Thereafter, EC for amalgamated Yekona – I OC & Yekona – II OC was accorded on 1/1/2021 for coal production of 2.75 MTPA over a lease area of 1679.39 ha.
2. The above ECs have been implemented by the proponent and they have achieved the production of 2.749 MTPA during 2022-23 and 2024-25.
3. 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.
4. Instant proposal under consideration is expansion of Amalgamated Yekona I & II OC (Phase-I) from 2.75 MTPA to 3.30 MTPA within project area of 1679.39 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.
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 is located into Chandrapur District, which falls into Critically Polluted Area (CPA) as per the 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/959/2025, dated 10.01.2025, detailing the aerial distances of the said project from CEPI notified areas. The project is about 30 kms away from the nearby CEPI area.
7. The project is not located within 10 KM of any ESZ/ ESA/ national park/ wildlife sanctuary/ biosphere reserve/ elephant reserve/ tiger corridor. However, the PP reported that the project is located 25 km from the Tadoba Andhari Tiger Reserve. PP submitted a distance map obtained from the DFO in this regard.
8. Committee observed that there are 12 Schedule-I species reported in the study area. Wildlife Conservation has been prepared as proposed by the DFO, Chandrapur. The mitigation measures as proposed in the conservation plan will be implemented. The wildlife conservation plan has been duly approved by the Chief Wildlife Warden vide letter dated 11.12.2024 for Rs.882.00 Lakhs.
9. The project doesn't involves any forestland.
10. The mining plan & mine closure plan for the project was approved for 4.125 MTPA (50% expansion), 1679.39 ha by the WCL Board in the 356th meeting held on 28.09.2023 and

communicated vide board note letter no. WCL/Office of CS/BM-356/2023-24/736 dated 12.10.2023.

11. Life of mine is 13 years as on 01.04.2023.
12. Proposal involves diversion of a canal and a nallah falling within the ML area. PP submitted the details and permission of diversion. Committee observed that the said diversion was already envisaged in the existing EC dated 01.01.2021 and in the present proposal there is no additional diversion proposed.
There is no ASI protected archaeological site present in close proximity to the ML area.
13. Committee observed that NOC renewal for abstraction of groundwater of 4624 KLD is yet to be obtained. However, the proponent has submitted that the 1st renewal of NOC has been approved in 67th meeting as communicated by CGWA vide email dated 26.07.2023. The formal renewal letter is awaited. The application for 2nd renewal of NOC has been made on 18.11.2023. The application is under consideration at CGWA, Delhi. In regard to the renewal application, correspondences has been made to CGWA vide letter no. 1114 dated 18.10.2024 and letter no. 1230 dated 12.11.2024 for issuance of NOC. In reply of same, CGWA vide email dated 19.11.2024 ensures that “application is under process for issuance of NOC.” All the required payments against the said application has been made to CGWA.
14. Committee deliberated on the baseline data submitted by the proponent and observed that the AAQ parameters are on the higher side. Though the mining site of the proponent is away from the notified CPA of the Chandrapur district as notified in the CEPI Assessment 2018 (as per the certificate issued by the Sub-Regional Officer, Maharashtra Pollution Control Board, Chandrapur vide letter no MPCB/SROC/959/2025, dated 10.01.2025), the pollution parameters are observed to be high. Committee sought for additional pollution control measures for air pollution and PP submitted the time bound action plan for the same.
15. Public Hearing was held on 14.06.2019, for the EC granted vide letter dated 01.01.2021. Committee noted that proponent is complying with the issues raised during the public consultation.
16. The Committee deliberated on the plantation activities been undertaken by the proponent and the action plan submitted in this regard as sought by the Committee in the previous appraisal. PP has submitted a time bound action plan for the same. Committee observed that the existing plantation has been developed in 61.6 ha area which is about 3.66 % of the total project area of 1679.39 ha with total sapling of 1,54,000 trees. Proposed additional plantation will be developed in 767.59 ha which is about 45.71 % of the total project area. Thus total of 829.19 ha area (49.37% of total project area) will be developed as plantation. 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 2072975 saplings will be planted and nurtured in 829.19 hectares in 16 years (13 years of mine + 3 years of post-closure activities).

17. The Committee opined that in the next 3 years 60 ha area shall be planted with atleast 1,50,000 saplings and miyawaki plantation shall be done in atleast 1 ha area in order to mitigate the air pollution. Apart from this, Committee suggested that PP should encourage the villagers by distributing them 50,000 plant saplings including the fruit bearing trees per year for 5 years to grow those trees and maintain the survival of those trees on their land by giving incentive. PP should submit the plan for the same.
18. The project has 8 external OB dumps in an area of 377.96 ha with maximum 90 m height and 130.61 Mm³ of OB (2.42 Mm³ OB in Embankment). Two internal OB in an area of 385.26 ha having maximum height of 90 m with 286.67 Mm³ of OB is envisaged in the project.
19. Total quarry area is 640.26 ha out of which backfilling will be done in 385.26 ha while final mine void will be created in an area of 255 ha with a depth of 160 m. 308.21 ha of Backfilled quarry area of shall be reclaimed with plantation. Final mine void will be converted to water body.
20. Total geological reserve reported in the mine lease area is 101.01 MT with 58.72 MT mineable reserve. Extractable reserves are 55.78 Mt considering 5% of mining losses. 6.73 Mt coal reserves has been extracted till 31.03.2023. 49.05 Mt coal reserves are remaining for extraction as on 01.04.2023. Percent of extraction is 95%.
21. One coal seams with thickness ranging from 4.82 m – 14.98 m are workable. Declared Grade of coal is G9 stripping ratio 1:7.82, while gradient is 1 in 4.3 to 1 in 12.1.
22. Committee deliberated on the specific condition no. (vi) of the EC dated 01/01/2021, wherein, it was mentioned that “*Transportation of coal from coal handling plant shall be through mechanized covered trucks for 3 years. No transportation by trucks after 3 years and proposed railway siding/pipe conveyor system.*” However, the PP sought amendment for the same and got this timeline extended till December 2026 vide EC amendment letter dated 15.03.2024. Committee deliberated on the progress done in the construction of the railway siding and observed that the same is being done in full swing and as reported by the PP, the construction work is expected to be completed by March 2026. The Committee opined that the amendment of the extended timeline can be reduced to March 2026 and the road transportation thereafter, shall be allowed only for the small scale industries and the thermal power plant located within 5 km from the ML area.
23. Committee observed that some part of a quarry of the mine is within the HFL of the Wardha River and deliberated on the protection measures of the same. PP submitted that a protective embankment is constructed along the Wardha River with the height of 6 meter above HFL. The Embankment along the periphery of active quarry area is constructed 100 meter away from Wardha River. Plantation and grass seeding on the embankment is proposed along the Wardha river side. In 2024-25, 15,000 saplings were planted on the slope of Embankment. Further, plantation on embankment will be strengthened in next 3 years.
24. In the compliance of Ministry’s OM dated 11.04.2022 submitted by the proponent, Committee observed that excess mine water is discharged outside the mine premises after passing through the sedimentation tank. Committee sought clarification on the same. PP submitted that mine water is being utilised to maximum extent for various industrial purposes such as firefighting, washing of HEMM, gardening purposes, dust suppression through fog cannons, fixed

sprinklers, mobile tankers etc., Excess Mine Water after treatment is being discharged to nearby Daiwal Nallah after prior permission from SPCB so that it can be gainfully utilised by nearby communities and which also helps in maintaining the E-flow ie Environmental flow of the nallah.

25. During the deliberation the committee observed that a village road has been diverted and the approval of executive Engineer, PWD, Zilla parishad, Chandrapur letter vide no. NOC/1129/2023, dated 05.10.2023, was obtained before the diversion took place. The diverted length of road was 1.65 km out of 1.70 km.
26. The Committee also deliberated on the measures to propose the use of solar power and suggested the proponent to introduce the installation of solar power plants. PP submitted that roof top solar of 40KWp in office buildings are proposed to be installed.
27. There are no court cases pending against the proposed the project.
28. The EAC also deliberated on the additional information as well as written submission of the project proponent and found it satisfactory.

Recommendations of the Committee:

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

A. Specific Conditions:

- i. PP shall divert a seasonal Nallah and a canal only after obtaining NoC from the Water Resource Department, Government of Maharashtra. The diversion of Nallah/Canal shall be monitored by RO and complete report with the drone video and satellite imagery shall be submitted to the concern Regional Office of MoEF&CC along with the six monthly compliance report.
- ii. PP shall maintain 50 mts width of embankment all along the diverted nallah/canal and shall carry out dense plantation with fruit bearing native species.
- iii. In order to mitigate air pollution in and around mine premises, the proposed railway siding shall be commissioned by March 2026 as committed. No transportation shall be done by trucks after March 2026 except for small scale industry and thermal power located within 5 kms of the mine area. PP should take up the 3 tier plantation on the coal transportation route to mitigate the environment impacts. This shall be completed during the forthcoming monsoon session.
- iv. PP shall adopt the following additional Air Pollution control measures:

S.no	Particulars	Timeline	Estimate (in Rs Lakhs)
1	Fixed Sprinklers at coal stock yard and along coal transportation route (30 nos)	June'2025	20.0
2	Fog canon at Coal Stock Yard, Weigh Bridge , coal transportation Route and at railway siding (5 nos)	June'2025	40.0
3	Wind Barrier at Proposed Railway Siding (6m height)	March'2026	250.0
4	Road sweeping machine (1 no)	Feb'2025	33.0
5	Tyre Washing System	June'25	34.77
6	CAAQMS (1 no)	March'2026	70.00
	Total		447.77

v. PP shall minimise the air pollution with increase in green cover as proposed below:

S.no	Particulars	Time -line	Estimate (in Rs Lakhs)			
1	Green Belt (along the mine boundary)		In next 3 years	300.0		
	Financial Year	Location			Area available for plantation	Saplings
	2025-2026	Near CAAQMS & Marda village gut no.321 and Between Dahiwal nala and diverted state highway road and any other location within mine lease			25 Ha	62,500
	2026-2027	Embankment Wardha river side (western boundary) and along north east mine boundary and any other location within mine lease			20 Ha	50,000
	2027-2028	Near gut no.45 & 46 east to north boundary side and any other location within mine lease			15 Ha	37,500
					60 Ha	150,000
	*Tentative expenditure- 300 Lakhs for 60 Ha proposed plantation.					
2	Miyawaki Plantation (10,000 saplings in 1 ha)	FY 2025-2026	100.0			
3	Sapling Distribution- Target – 60,000 Saplings	10 Years	24.0			

S.no	Particulars	Time -line	Estimate (in Rs Lakhs)
	<ul style="list-style-type: none"> • 10,000 saplings will be distributed in next Monsoon season i.e. FY 2025-26 under special drive for increasing the green cover in nearby villages. • Further, 5,000 saplings/Year of fruit bearing, and native species will be distributed in nearby villages during Vriksharopan Abhiyan in Monsoon Season. In next 10 years, 50,000 saplings will be distributed. • Thus, total 60,000 saplings are proposed to be distributed in phased manner. 		

- vi. PP shall construct a protective embankment along the Wardha River with the height of 6 meter above HFL. The embankment along the periphery of active quarry area shall be constructed 100 meter away from Wardha River. Plantation and grass seeding on the embankment shall be done along the Wardha river side. In 2024-25, 15,000 saplings shall be planted on the slope of Embankment. Further, plantation on embankment will be strengthened in next 3 years.
- vii. The mine water shall be utilised to maximum extent for various industrial purposes such as firefighting, washing of HEMM, gardening purposes, dust suppression through fog cannons, fixed sprinklers, mobile tankers etc. Excess Mine Water shall be discharged to nearby Daiwal Nallah only after treatment with prior permission from the concerned State Pollution Control Board.
- viii. PP shall install rooftop solar panels of 40 KWp capacity in office buildings and encourage the use of renewal sources of energy.
- ix. PP shall develop additional plantation in 767.59 ha area which is about 45.71 % of the total project 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. Total no. of 2072975 saplings will be planted and nurtured in 829.19 hectares in 16 years (13 years of mine + 3 years of post-closure activities). In addition to this, PP shall provide 50,000 plant saplings with 4 feet tall fruit bearing plants to farmers for plantation in barren and agriculture lands in the study area every year for 5 years with incentive to improve the green cover in and around the mine lease area.
- x. The budget proposed for compliance to the PH held on 14/06/2019 (FY2024-25) is Rs 28.10 Lakhs. The budget proposed shall be kept in a separate account. Project proponent shall implement the action plan to address the issues raised during public hearing within the stipulated time frame. PP shall submit the progress report regarding the implementation of action plan to concerned RO along with the six monthly compliance report. In addition to this, PP shall strengthen the existing Primary Health Center (PHC) & Community Health Center (CHC) in the study area for better public health. As committed by the PP, PHCs & CHCs within the core and buffer zone shall be supported with adequate budget over 5 years, 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.

- xi. 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 588.5 lakhs (Capital) and Rs 247 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.
- xii. PP shall deposit the approved amount of Rs. 882 lakhs proposed for wildlife conservation plan to the Govt. of Maharashtra, Forest & Environment Dept. and further consult with State Biodiversity Authority for its CSR activity.
- xiii. PP shall conduct third party audit of compliance of EC condition at an interval six months and its report shall be submitted to the concerned Regional Office of the MoEF&CC.
- xiv. Hon'ble Supreme Court in an Writ Petition(s) Civil No. 114/2014, Common Cause vs Union of India &Ors vide its judgement dated 8th January, 2020 has directed the Union of India to impose a condition in the mining lease and a similar condition in the environmental clearance and the mining plan to the effect that the mining lease holders shall, after ceasing mining operations, undertake re-grassing the mining area and any other area which may have been disturbed due to their mining activities and restore the land to a condition which is fit for growth of fodder, flora, fauna etc. Compliance of this condition after the mining activity is over at the cost of the mining lease holders/Project Proponent". The implementation report of the above said condition shall be sent to the Regional Office of the MoEF&CC.
- xv. Project proponent is advised to implement the 'Ek Ped Maa Ke Naam' Campaign which was launched on 5th June 2024 on the occasion of the World Environment Day to increase the forest cover across the Country. This plantation drive is other than Green belt development. The action in this regard shall be submitted concerned RO in six monthly report.

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. The project proponent shall obtain clearance from the National Board for Wildlife, if applicable.
- iii. 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.
- iv. The maximum production or peak production at any given time shall not exceed the limit as prescribed in the EC.
- v. Validity of EC is as per life of the mine mentioned in EC letter or 30 years as per EIA Notification, 2006 and its amendments therein.

2. Air Quality Monitoring and Mitigation Measures

- i. Project proponent shall obtain requisite consent from State Pollution Control Board for 3.30 MTPA mining.
- ii. Adequate ambient air quality monitoring stations shall be established in the core zone as well as in the buffer zone for monitoring of pollutants, namely particulates, SO₂ and NO_x. 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.
- iii. The Ambient Air Quality monitoring in the core zone shall be carried out to ensure the Coal Industry Standards notified vide GSR 742 (E) dated 25th September, 2000 and as amended from time to time by the Central Pollution Control Board. Data on ambient air quality and heavy metals such as Hg, As, Ni, Cd, Cr and other monitoring data shall be regularly reported to the Ministry/Regional Office and to the CPCB/SPCB.
- iv. Effective control measures such as regular water sprinkling/rain gun/ Fog cannon /mist sprinkling etc., shall be carried out in critical areas prone to air pollution with higher level of particulate matter all through the coal transport roads, loading/unloading and transfer points. Fugitive dust emissions from all sources shall be controlled regularly. It shall be ensured that the ambient air quality parameters conform to the norms prescribed by the Central/State Pollution Control Board.
- v. Major approach roads shall be black topped and properly maintained.
- vi. Vehicular emissions shall be kept under control and regularly monitored. All the vehicles engaged in mining and allied activities shall operate only after obtaining 'PUC' certificate from the authorized pollution testing centres.
- vii. PP should Install Wind breaker/shield arrangement along the railway siding for reducing the dust propagation in upwind direction.

3. Water Quality Monitoring and Mitigation Measures

- i. PP shall take approval from the CGWA/ Competent Authority prior to commencement of mining operations.
- ii. The effluent discharge (mine waste water, workshop effluent) shall be monitored in terms of the parameters notified under the Water Act, 1974 Coal Industry Standards vide GSR 742 (E) dated 25th September, 2000 and as amended from time to time by the Central Pollution Control Board.
- iii. The monitoring data shall be uploaded on the company's website and displayed at the project site at a suitable location. The circular No.J-20012/1/2006-1A.11 (M) dated 27th May, 2009 issued by Ministry of Environment, Forest and Climate Change shall also be referred in this regard for its compliance.
- iv. Garland drains (of suitable size, gradient and length) around the critical areas i.e. mine shaft and low lying areas, 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
- v. The water pumped out from the mine, after siltation, shall be utilized for industrial purpose viz. watering the mine area, roads, green belt development etc. The drains shall be regularly desilted particularly after monsoon and maintained properly
- vi. Industrial wastewater from coal handling plant and mine water shall be properly

collected and treated so as to conform to the standards prescribed under the Environment (Protection) Act, 1986 and the Rules made thereunder, and as amended from time to time. Oil and grease trap shall be installed before discharge of workshop effluent. Sewage treatment plant of adequate capacity shall be installed for treatment of domestic wastewater.

- vii. The surface drainage plan including surface water conservation plan for the area of influence affected by the said mining operations shall be prepared, considering the presence of any river/rivulet/pond/lake etc., with impact of mining activities on it, and implemented by the project proponent. The surface drainage plan and/or any diversion of natural water courses shall be as per the provisions of the approved Mining Plan/ EIA-EMP submitted to this Ministry and the same should be done with due approval of the concerned State/GoI Authority. The construction of embankment to prevent any danger against inrush of surface water into the mine should be as per the approved mining plan and as per the permission of DGMS.
- viii. The project proponent shall take all precautionary measures to ensure revarian/ riparian ecosystem in and around the coal mine upto a distance of 5 km. A revarian /riparian ecosystem conservation and management plan should be prepared and implemented in consultation with the irrigation / water resource department in the state government.
- ix. Industrial effluent and domestic wastewater shall be treated in the Effluent treatment Plant (ETP) and Sewage Treatment Plant (STP). After treatment, treated water shall be reused for plantation.

4. Noise and Vibration Monitoring and Prevention

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

5. Mining Plan

- i. Project proponent shall obtain star rating as per the guidelines of Ministry of Coal.
- ii. Mining shall be carried out under strict adherence to provisions of the Mines Act 1952 and subordinate legislations made there-under as applicable.
- iii. No change in mining method, calendar programme and scope of work shall be made without obtaining prior approval of the Ministry of Environment, Forests and Climate Change (MoEFCC).
- iv. 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 circulars issued by Directorate General Mines Safety (DGMS).
- v. Efforts should be made to reduce energy and fuel consumption by conservation,

efficiency improvements and use of renewable energy.

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) from time to time shall be submitted to the Regional Office of MoEF&CC.
- (ii) The final mine void depth should preferably be as per the approved Mine Closure Plan, and in case it exceeds 40 m, adequate engineering interventions shall be provided for sustenance of aquatic life therein. The remaining area shall be backfilled and covered with thick and alive top soil. Post-mining land be rendered usable for agricultural/forestry purposes and shall be diverted. Further action will be treated as specified in the guidelines for Preparation of Mine Closure Plan issued by the Ministry of Coal dated 27th August, 2009 and subsequent amendments.
- (iii) The entire excavated area, backfilling, external OB dumping (including top soil) and afforestation plan shall be in conformity with the “during mining”/”post mining” land-use pattern, which is an integral part of the approved Mining Plan and the EIA/EMP submitted to this Ministry. Progressive compliance status vis-a-vis the post mining land use pattern shall be submitted to the MOEFCC/RO.
- (iv) Further, it may be ensured that as per the time schedule specified in mine closure plan it should remain live till the point of utilization. The topsoil shall temporarily be stored at earmarked site(s) only and shall not be kept unutilized. 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.
- (v) 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.

7. Public Hearing and Human Health Issues:

- i. Adequate illumination shall be ensured in all mine locations (as per DGMS standards) and monitored.
- ii. The project proponent shall undertake occupational health survey for initial and periodical medical examination of the personnel engaged in the project and maintain records accordingly as per the provisions of the Mines Rules, 1955 and DGMS circulars. Besides regular periodic health check-up, 20% of the personnel identified from workforce engaged in active mining operations shall be subjected to health check-

- up for occupational diseases and hearing impairment, if any, as amended time to time
- iii. 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.
 - iv. 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.
 - v. Effective arrangement shall be made to provide and maintain at suitable points conveniently situated, a sufficient supply of drinking water for all the persons employed.
 - vi. 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. Corporate Environment Responsibility:

- 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 and/or shareholders/stake holders
- ii. A separate Environmental Cell both at the project and company head quarter level, with qualified personnel shall be set up under the control of senior Executive, who will directly report to the head of the organization.

9. Miscellaneous:

- i. The project proponent shall make public the environmental clearance granted for their project along with the environmental conditions and safeguards at their cost by prominently advertising it at least in two local newspapers of the District or State, of which one shall be in the vernacular language within seven days and in addition this shall also be displayed in the project proponent's 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 environmental 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 environment clearance portal.
- v. 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.

- vi. The project authorities shall inform to the Regional Office of the MOEFCC regarding commencement of mining operations.
- vii. The project authorities must strictly adhere to the stipulations made by the State Pollution Control Board and the State Government.
- viii. 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.
- ix. No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment, Forests and Climate Change (MoEF&CC).
- x. 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.
- xi. The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.
- xii. The Ministry reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.
- xiii. 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
- xiv. 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 No. 20.3

20.3: Nigahi Opencast Project (area 3582.723 Ha having capacity 25 MTPA) by M/s Northern Coalfields Limited, located at Village: Waidhan; District: Singrauli; State: Madhya Pradesh – Regarding amendment in EC for time extension for transportation of Coal by road, rating to be obtained from Ministry of Coal and allowance for diversion of nallah.

[Online Proposal No. IA/MP/CMIN/502301/2024; Consultant: CMPDIL; NABET/EIA/22-25/SA0223 valid till 08/04/2025]

20.3.1: The instant proposal is for amendment in Environment Clearance granted to M/s Northern Coalfields Limited accorded vide File No.: J-11015/79/2013-IA-II(M) dated 03.06.2024, for Nigahi Opencast Project (area 3582.723 ha having capacity 25 MTPA), located at Village: Waidhan; District: Singrauli; State: Madhya Pradesh.

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

S.No.	Details of Letter No.	EC/ Expansion EC/ Amendment in EC/ Validity extension/ Transfer of EC	Capacity (MTPA)	Area (MTPA)	Date of issuance	Status of implementation
1.	MoEF's letter dated 08.10.1987	Fresh EC for 4.20 MTPA	4.20	3036.400	08.10.1987	Implemented
2.	J-11015/292/94-IA. II (M) dated 28.02.1996	Expansion EC(from 4.20 to 10.00 MTPA)	10.00	3036.400	28.02.1996	Implemented
3.	J-11015/235/2006-IA. II (M) dated 08.05.2007	Expansion EC(from 10.00 to 15.00 MTPA)	15.00	3036.400	08.05.2007	Implemented
4.	J-11015/79/2013-IA. II (M) dated 19.03.2015	Expansion EC(from 15.00 to 18.75 MTPA)	18.75	3036.400	19.03.2015	Implemented
5.	J-11015/79/2013-IA. II (M) dated 12.10.2018	Amendment in EC	18.75	3018.400	12.10.2018	Implemented
6.	J-11015/79/2013-IA.II(M) dated 03.02.2020	Expansion EC(from 18.75 to 21.00 MTPA)	21.00	3018.400	03.02.2020	Implemented
7.	EC letter no. J-11015/79/2013-IA-II(M) dated 26.07.2022	Expansion EC(from 21.00 to 22.50 MTPA)	22.50	3018.400	26.07.2022	Implemented
8.	EC letter no. J-11015/79/2013-IA-II(M) dated 26.07.2022	Revalidation EC for 22.50 MTPA	22.50	3018.400	20.07.2023	Implemented
9.	EC letter no. J-11015/79/2013-IA-II(M) dated 03.06.2024	Expansion EC(from 22.50 to 25.00 MTPA)	25.00	3582.783	03.06.2024	Being Implemented

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

20.3.3: PP submitted that the concerned mines became operational from **1987-88** onward. CTO renewal has been obtained from the SPCB and is valid up to **31.10.2025**. Details of the same are as follows:

Year	Actual Coal Production in MTPA	Planned Coal production in MTPA as per Environmental Clearance	Excess Production
1987-1988	0.00	4.20	NIL
1988-1989	0.00	4.20	NIL
1989-1990	0.00	4.20	NIL
1990-1991	1.05	4.20	NIL

MoM of 20th meeting of the EAC for Coal Mining sector held on 20th – 23rd January, 2025

1991-1992	1.90	4.20	NIL
1992-1993	2.21	4.20	NIL
1993-1994	2.87	4.20	NIL
1994-1995	3.60	4.20	NIL
1995-1996	4.20	4.20	NIL
1996-1997	4.20	10.00	NIL
1997-1998	4.00	10.00	NIL
1998-1999	4.13	10.00	NIL
1999-2000	4.50	10.00	NIL
2000-2001	5.40	10.00	NIL
2001-2002	6.06	10.00	NIL
2002-2003	7.59	10.00	NIL
2003-2004	9.50	10.00	NIL
2004-2005	10.40	10.00	0.40
2005-2006	11.05	10.00	1.05
2006-2007	11.10	10.00	1.10
2007-2008	11.30	15.00	NIL
2008-2009	11.66	15.00	NIL
2009-2010	12.36	15.00	NIL
2010-2011	12.02	15.00	NIL
2011-2012	10.88	15.00	NIL
2012-2013	13.52	15.00	NIL
2013-2014	13.65	15.00	NIL
2014-2015	13.66	15.00	NIL
2015-2016	15.01	18.75	NIL
2016-2017	15.52	18.75	NIL
2017-2018	17.13	18.75	NIL
2018-2019	18.48	18.75	NIL
2019-2020	19.59	21.00	NIL
2020-2021	20.66	21.00	NIL
2021-2022	21.00	21.00	NIL
2022-2023	22.50	22.50	NIL
2023-2024	22.50	22.50	NIL
2024-2025	18.16 (as on 31.12.2024)	25.00	NIL

20.3.4: Details regarding amendment sought in the EC dated 03.06.2024:

Specific / General Condition No.	Details of condition as per EC	Amendment Sought	Justification
1.1 (Specific Conditions)	PP shall complete the work of the construction/installation of an additional 10 MTPA CHP before 31.12.2024. There should not be any road transportation of coal from the mines after 31.12.2024.	PP shall complete the work of the construction/ installation of an additional 10 MTPA CHP before 30.06.2025. Road transportation of coal from the mine shall not exceed 10% of EC Capacity.	As on 20.10.2024, physical progress of construction of additional 10 MTPA CHP is 86.50%. Heavy rainfall of 2221 mm has been recorded in the current year 2024 till 20.10.2024, which is 216.79 % of the average Annual Rainfall of 1024.50 mm. Due to this, various Civil and Mechanical construction activities at the CHP site have been impacted severely. In addition to above, the construction work has also been stopped temporarily due to interventions by Director General of Mines Safety (DGMS) regarding safe working at highly elevated structures. Work will be resumed after compliance of DGMS guidelines. Due to aforementioned challenges, construction of the CHP is expected to be completed by 30.06.2025. Nigahi Project has responsibility to meet the coal supply needs of small consumers including MSMEs, which are not connected to the rail network and are entirely dependent on Nigahi Project of NCL for their coal requirements. Therefore, transportation of coal by road be permitted for 10% of EC Capacity. This is vital to support the socio-economic development of the region.
1.15 (Specific Conditions)	PP shall obtain a 5- star rating in terms of Environment Compliance from the Ministry of Coal as per the rating system implemented by the Ministry of Coal.	PP shall obtain Star rating in terms of Environment Compliance from the Ministry of Coal as per the rating system implemented by the Ministry of Coal.	Nigahi OCP has consistently demonstrated its commitment to excellence by achieving a 5-Star Rating in the MoC's star rating system for last 4 years i.e. 2019-20 to 2022-23. This achievement reflects compliance across all seven modules of all rating system, with environmental parameters contributing 26 points out of total of 100. The remaining points hinge on performance in the other six modules, highlighting the comprehensive approach required for success. As a Public Sector Undertaking, Nigahi OCP is dedicated in maintaining its participation and striving for continued excellence in this competitive evaluation of mines across India.

Specific / General Condition No.	Details of condition as per EC	Amendment Sought	Justification
1.24 (Specific Conditions)	PP shall ensure that nallah should not be diverted.	Nallah shall be diverted as per the plan submitted to MoEF&CC and as per the terms and conditions of the NOC issued from the WRD.	There are two seasonal Nallahs in the expansion area, out of which one Nallah needs diversion for opencast mining in the expansion area. Since this Nallah falls in the Coal Bearing Area, therefore mining wouldn't be possible without it's diversion. However, above Nallah is required to be diverted, for which NOC from Executive Engineer vide letter dated 08.08.2023 has already been obtained from the Water Resources Department (WRD).
5.1 (5-Mining Plan)	5- Star Rating is mandatory to obtained certification as per guidelines of Ministry of Coal	PP shall obtain Star rating in terms of Environment Compliance from the Ministry of Coal as per the rating System implemented by the Ministry of Coal.	Nigahi OCP has consistently demonstrated its commitment to excellence by achieving a 5-Star Rating in the MoC's star rating system for last 4 years i.e. 2019- 2020 to 2022-2023. This achievement reflects compliance across all seven modules of all rating system, with environmental parameters contributing 26 points out of total of 100. The remaining points hinge on performance in the other six modules, highlighting the comprehensive approach required for success. As a Public Sector Undertaking, Nigahi OCP is dedicated to maintaining its participation and striving for continued excellence in this competitive evaluation of mines across India.

20.3.5: Traffic Impact Assessment Report: PP submitted the Traffic Impact Assessment Report for Nigahi OCP. Findings of the same are as follows:

Transportation of Coal and Traffic Load:

The coal transportation road from Nigahi OCP originates from coal stockyard of Nigahi OCP to Jayant Morwa Road (stretch of 12 km). The Jayant Morwa road is the main road connecting Jayant to the Singrauli railways station and NH-39 (stretch of 3.5 km) towards Anpara/Varanasi with some public transport along with the coal transportation. From Jayant Morwa Road coal transportation is diverted towards the exclusive coal corridor (stretch of 5.5 km) where the coal transportation from surface miner side is also added in the existing traffic from behind. The coal transportation via coal corridor road reaches Singrauli siding and some of the coal transportation is diverted towards NH-39. The proposed coal transportation traffic shall be supplementing to the existing local transportation traffic on NH 39.

The vehicles passing through the road (in both ways) were counted at two locations for 24 hrs duration from 28.11.2024 to 29.11.2024 (two days). The number of vehicles per hour were counted and converted into Passenger Car Units (PCU's) using factor given in IRC: 106- 1990.

Traffic studies were carried out at two locations on the existing road to estimate the existing traffic load on either side of the intersections. The sections considered for this study is presented in table below:

S. No.	Section	Location of Section
1	Section 1	Jayant Morwa Road
2	Section 2	Coal Corridor
3	Section 3	NH 39 Towards Anpara/Varanasi

During study period it was found that traffic density on the section 01 (two lane) is average as this route is used by public as well for coal transportation. The coal transportation to the Singrauli siding is also moving on the same route and hence the monitoring station on section 01 is recording average traffic load. The traffic load is further decreased by diverting the coal transportation traffic from section 01 to section 02 on the coal corridor which avoids the local traffic on the Jayant Morwa road till Singrauli siding. The traffic load on the on the section 03 i.e. NH – 39 (four lane), is moderate as compared to the section 01. The peak hour in the section 01 is 16.00 -17.00 and peak PCU/hr is 1127.85. The peak hour in the section 03 is 10.00 -11.00 and average PCU/hr is 2003.35. Study revealed that Section-1 recorded 220 trucks/hr (maximum hourly) and 3483 trucks/day. However, Section-3 recorded 352 trucks/hr (maximum hourly) 3234 trucks/day.

There is no additional coal proposed on the coal transportation road from Nigahi OCP. Further, the coal transportation shall be limited to 2.5 MTPA (1.0 - 0.5 MTPA less than current scenario), which shall decongest the current traffic on the coal transportation road.

Ambient Air Quality Monitoring

AAQ Monitoring was conducted at 3 nos of sites, namely CWA1 – GM Office (at a distance of 150 m from the road), NA5-Nigahi East Substation (at a distance of 95 m from the road) and JYA2-Coal Substation (at a distance of 140 m from the road).

The average PM₁₀ at CWA1-GM Office, NA5-Nigahi East Substation, JYA2-Coal Substation varied from 175-222 µg/m³, 162-244 µg/m³ and 182-234 µg/m³ respectively.

The average PM_{2.5} at CWA1-GM Office, NA5-Nigahi East Substation, JYA2-Coal Substation varied from 68-68 µg/m³, 56-76 µg/m³ and 66-81 µg/m³ respectively.

The average SO₂ at CWA1-GM Office, NA5-Nigahi East Substation, JYA2-Coal Substation varied from 28-34 µg/m³, 30-33 µg/m³ and 31-34 µg/m³ respectively.

The average NO₂ at CWA1-GM Office, NA5-Nigahi East Substation, JYA2-Coal Substation varied from 31-38 µg/m³, 33-39 µg/m³ and 36-40 µg/m³ respectively.

Existing monitoring structure of NCL covers Ambient Air & Noise monitoring to address all concerns arising out of coal transportation by road. Three stations for the ambient air monitoring are being considered near coal transportation route. Ambient air quality monitoring at above three locations of road transportation route will be continued for monitoring the impact of coal transport, at a frequency of once in a fortnight as per Standards for Coal Mines, 2000/ CPCB guideline and National Ambient Air Quality Standards, 2009.

Appropriate mitigation measures are in operation to control the dust suppression and to contain the predicted concentration within prescribed norms. Coal transportation vehicles are allowed to leave the mine premise only after properly covering by the tarpaulin. Round the clock dust suppression is being done by the NCL on the coal transportation route through 5 numbers of pressurised mobile water tankers, 5 numbers of mobile fog cannons and 1 number of road sweeping machines for cleaning of the roads. In order to further control the air pollution, wheel washing system is also proposed to be installed at the exit barrier of the mine. Vehicles are regularly being maintained to control the emissions and are being operated after obtaining PUC certificate from authorised pollution testing centre. The transportation roads are being maintained properly for smooth road transportation as well as to prevent any spillage of coal, thereby reducing air pollution impact.

Noise Level Monitoring

Noise level monitoring was carried out during day and night at 2 locations, namely CWN1-CWS Workshop (at a distance of 100 m from the road) and DN5-CMPDI Camp (at a distance of 970 m from the road).

The estimated noise levels in CWN1-CWS Workshop and DN5-CMPDI Camp during the day were recorded to be between 65.9-72.4 dBA and 38.3-45.8 dBA respectively.

The estimated noise levels in CWN1-CWS Workshop and DN5-CMPDI Camp during the night time were recorded to be between 54.6-63.9 dBA and 35.1-39.6 dBA respectively.

Existing monitoring structure of NCL covers Ambient Air & Noise monitoring to address all concerns arising out of coal transportation by road. Two stations for the noise level monitoring are being considered near coal transportation route.

The ambient noise level of existing project is being monitored regularly and noise levels are found to be within the limits of the prescribed standard. Since there is no increase in the quantum of road transportation as compared to the current road transportation in the 22.50 MTPA capacity of Nigahi Project, therefore there will be no additional noise generation due to road transportation of Coal.

To have proper control over the impact of road transportation on noise levels, noise level monitoring will be done at two locations (One station in the Core Zone and One Station in the Buffer Zone) of road transportation route.

For control of any probable noise pollution following measures are being taken:

1. Routine maintenance of trucks.
2. Avenue plantation on both sides of the coal transportation roads

20.3.6: Reason for delay in establishing additional 10 MTPA CHP: PP submitted that as on 01.01.2025, physical progress of construction of additional 10 MTPA CHP is 90.50%. Heavy rainfall of 2221 mm has been recorded in the year 2024, which is 216.79 % of the average Annual Rainfall of 1024.50 mm. Due to this, various Civil and Mechanical construction activities at the CHP site have been impacted severely. In addition to above, the construction work has also been stopped temporarily due to interventions by Director General of Mines Safety (DGMS) regarding safe working at highly elevated structures. Work will be resumed

after compliance of DGMS guidelines. Due to aforementioned challenges, construction of the CHP is expected to be completed by 30.06.2025.

20.3.7: Details of Court Cases: There are no court cases pending on the project.

20.3.8: Written Submissions: PP submitted an undertaking vide letter dated 24.01.2025 stating the following:

- i. Green house emission from the mine operations will be evaluated and corresponding carbon absorption plan will be submitted to the MoEF&CC by 28.02.2025.
- ii. Nigahi Project is aligning its activities to one/few of the Sustainable Development Goals (SDG), for which present status and an action plan will be submitted to the MoEF&CC by 28.02.2025.

Observations and deliberation of the Committee:

20.3.9: The EAC noted the following:

1. MoEF&CC has granted EC to M/s Northern Coalfields Limited vide letter no. J-11015/79/2013-IA-II(M) dated 03.06.2024, for Nigahi Opencast Project (area 3582.723 Ha having capacity 25 MTPA) located at Village: Waidhan; District: Singrauli; State: Madhya Pradesh.
2. The project involves 1510.011 ha of forestland. PP accorded Stage – II FC on 874.146 ha and 406.517 ha on 16.10.2020 and 12.04.2018 respectively and on 229.348 ha on 29.12.2023.
3. The instant proposal is now placed before EAC for amendment in conditions pertaining to extension in timeline for coal transportation by road, permission to divert nallah coming in coal bearing zone and obtaining 5-star rating from coal ministry for environment compliance and as per the guidelines of Coal Ministry.
4. Committee deliberated on the implementation status of EC accorded by the proponent vide letter dated 03.06.2024. Committee was informed that as on date the project is operational at 22.50 MTPA for which CTO was valid until 31.12.2024. After issuance of EC for 25 MTPA, vide letter dated 03.06.2024, CTE for 25 MTPA was obtained from the MPPCB vide consent no. CTE-61020 dated 06.09.2024 and application for CTO for 25 MTPA was submitted to MPPCB. CTO for 25 MTPA has been accorded vide letter dated 03.01.2025 valid up to 31.10.2025. Production as on 31.12.2024 is 18.16 MTPA and EC for 25 MTPA will now be implemented as CTO was awaited.
5. As per EC letter dated 03.06.2024, specific condition no. 1.1 stated that, *“PP shall complete the work of the construction/installation of an additional 10 MTPA CHP before 31.12.2024. There should not be any road transportation of coal from the mines after 31.12.2024.”* The proponent has sought amendment in the said condition stating the reason for delay in establishing the additional 10 MTPA CHP and also sought permission to continue the coal transportation by road for 10% of its capacity.

Committee deliberated on the reasons for delay submitted by the proponent and observed that the deployment work of the CHP has been severely affected due to heavy

rainfall in that region. Along with that, the PP is also required to comply with a few DGMS guidelines regarding safe workings at highly elevated structures.

Along with this, PP also sought permission to allow road transportation of coal by road for at least 10% of its EC capacity, even after the commissioning of additional CHP, in order to meet the coal supply needs of small consumers including MSME, power sector consumers, etc, which are not connected to the rail network and are entirely dependent on the Nigahi Project of NCL for their coal requirement.

6. Committee deliberated on the Traffic Assessment Report submitted by the proponent and observed that the air pollution parameters and noise levels are found to be within the limits of the prescribed standards. Committee also deliberated on the measures being undertaken to mitigate pollution and observed that, Coal transportation vehicles are allowed to leave the mine premise only after properly covering by the tarpaulin. Round the clock dust suppression is being done by the NCL on the coal transportation route through 5 numbers of pressurised mobile water tankers, 5 numbers of mobile fog cannons and 1 number of road sweeping machines for cleaning of the roads. In order to further control the air pollution, wheel washing system is also proposed to be installed at the exit barrier of the mine. Vehicles are regularly being maintained to control the emissions and are being operated after obtaining PUC certificate from authorised pollution testing centre. The transportation roads are being maintained properly for smooth road transportation as well as to prevent any spillage of coal, thereby reducing air pollution impact. Apart from this, regular maintenance of trucks is being done and avenue plantation has been done on both the sides of the road. Committee is of the opinion that 3 tier plantation shall be done on both the side of the captive road to control the pollution done by the transportation of coal through roads.
7. As per EC letter dated 03.06.2024, specific condition no. 1.24 stated that, *“PP shall ensure that nallah should not be diverted.”* The proponent has sought amendment in the said condition stating that there are two seasonal Nallahs in the expansion area, out of which one Nallah needs diversion for opencast mining in the expansion area. Since this Nallah falls in the Coal Bearing Area, therefore mining wouldn't be possible without its diversion. Committee observed that the above Nallah needs to be diverted and NoC from the Water Resource Department has been accorded vide letter dated 08.08.2023. The said nallah diversion is also the part of approved mine plan.

Committee deliberated on the nallah diversion map presented by the proponent and did not find it adequate. Also, the permission accorded for the diversion of nallah is from executive engineer. The Committee is of the opinion that the permission for nallah diversion shall be accorded from the Secretary of the Irrigation Department and then the proposal shall be placed before EAC for the said nallah diversion.

8. As per EC letter dated 03/06/2024, specific condition no. 1.15 and Mining Plan 5.1, *“PP shall obtain a 5- star rating in terms of Environment Compliance from the Ministry of Coal as per the rating system implemented by the Ministry of Coal”* & *“5-Star Rating is mandatory to obtained certification as per guidelines of Ministry of Coal”*. PP sought amendment for the same stating that Nigahi OCP has consistently demonstrated its

commitment to excellence by achieving a 5-Star Rating in the MoC’s star rating system for last 4 years i.e. 2019-20 to 2022-23. This achievement reflects compliance across all seven modules of all rating system, with environmental parameters contributing 26 points out of total of 100. The remaining points hinge on performance in the other six modules, highlighting the comprehensive approach required for success. As a Public Sector Undertaking, Nigahi OCP is dedicated to maintaining its participation and striving for continued excellence in this competitive evaluation of mines across India.

The Committee opined that this condition may be modified as the subject matter falls within the purview of Ministry of Coal.

9. Apart from this, Committee is of the opinion that as the said mines falls in Severely Polluted Area (SPA) as per CEPI Assessment 2018, the proponent shall adopt several other air pollution mitigation measures such as distribution of tall fruit bearing plant species to local villagers and farmers to plant the same on their land and develop a plan to incentivize them for maintaining its survival. Apart from this, Committee also opined that the proponent shall install 2 additional CAAQMS to monitor the air quality parameters in the core and buffer zone. The Committee also suggested that the proponent shall align its activities with sustainable development goals and green house emission from the mine operations shall be evaluated and a plan accordingly for carbon absorption shall be submitted to the MoEF&CC by February 2025. PP submitted an undertaking for the same.

10. Written submission made by the PP was deliberated by the EAC and found satisfactory.

Recommendations of the Committee:

20.3.10: In view of the foregoing and after the detailed deliberations, the Committee *partially recommended* the instant proposal for grant of amendment in the EC granted vide letter no. J-11015/79/2013-IA-II(M) dated 03.06.2024 as detailed below **subject to stipulation of following additional specific conditions and uploading of written submissions on PARIVESH portal.** Other terms and conditions prescribed in EC dated 03.06.2024 shall remain unchanged:

Reference in EC letter dated 03.06.2024	Description as per approved EC letter dated 03.06.2024	Amendment sought in EC	Recommendation of EAC
1.1 (Specific Conditions)	PP shall complete the work of the construction/installation of an additional 10 MTPA CHP before 31.12.2024. There should not be any road transportation of coal from the mines after 31.12.2024.	PP shall complete the work of the construction/ installation of an additional 10 MTPA CHP before 30.06.2025. Road transportation of coal from the mine shall not exceed 10% of EC Capacity.	Agreed Concerning the changes in specific condition no. 1.1 of EC dated 03.06.2024, Committee recommended to amend specific condition no. 1.1 as follows: “PP shall complete the work of installation/commissioning of the additional 10 MTPA CHP by 30.06.2025 and thereafter transportation of coal through road shall not exceed 10% of the production capacity mentioned in EC.”

Reference in EC letter dated 03.06.2024	Description as per approved EC letter dated 03.06.2024	Amendment sought in EC	Recommendation of EAC
1.15 (Specific Conditions)	PP shall obtain a 5- star rating in terms of Environment Compliance from the Ministry of Coal as per the rating system implemented by the Ministry of Coal.	PP shall obtain Star rating in terms of Environment Compliance from the Ministry of Coal as per the rating system implemented by the Ministry of Coal.	Agreed Concerning the changes in specific condition no. 1.15 of EC dated 03.06.2024, Committee recommended to amend specific condition no. 1.15 as follows: <i>“PP shall obtain the star rating in terms of environmental compliance from the Ministry of Coal as per the rating system implemented by the Ministry of Coal”</i>
1.24 (Specific Conditions)	PP shall ensure that nallah should not be diverted.	Nallah shall be diverted as per the plan submitted to MoEF&CC and as per the terms and conditions of the NOC issued from the WRD.	Not agreed EAC opined that the nallah diversion plan shall be modified and accordingly the approval for nallah diversion shall be obtained from the Secretary, Irrigation Department. Thereafter, the proposal for the said amendment shall be submitted to be placed before the EAC.
5.1 (5 - Mining Plan)	5- Star Rating is mandatory to obtained certification as per guidelines of Ministry of Coal	PP shall obtain Star rating in terms of Environment Compliance from the Ministry of Coal as per the rating System implemented by the Ministry of Coal.	Agreed Concerning the changes in Mine Plan, condition no. 5.1 of EC dated 03.06.2024, Committee recommended to amend Mine Plan condition no. 5.1 as follows: <i>“PP shall obtain the star rating in terms of environmental compliance from the Ministry of Coal as per the rating system implemented by the Ministry of Coal.”</i>

Additional Specific Conditions

- i. Three tier plantation shall be done on both the sides of the captive road being used for coal transportation to control the pollution caused by the transportation of coal through roads. In addition to this, PP shall provide 50,000 plant saplings with 4 feet tall fruit bearing plants to farmers for plantation in barren and agriculture lands in the study area every year for 5 years with incentive to improve the green cover in and around the mine lease area.
- ii. In addition to the existing 1 CAAQMS, 2 additional CAAQMS shall be installed in the lease area for monitoring of pollutants, namely particulates, SO₂ and NO_x. 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 (SPCB).
- iii. All the recommendations made in the Traffic Assessment Study Report regarding coal transportation by road shall be strictly adhered with.
 - iv. Green house emission from the mine operations shall be evaluated and corresponding carbon absorption plan shall be submitted to the concerned RO, MoEF&CC with 6 monthly compliance report
 - v. PP shall align its activities to the Sustainable Development Goals (SDG), for which Present status and an action plan shall be submitted to the concerned RO, MoEF&CC with 6 monthly compliance report.
 - vi. Additional air pollution control measures should be taken along roads being used for transport of coal including e-/CNG/LNG vehicles.
 - vii. PP shall adopt wildlife protection measures including creating awareness among the drivers, sensitizing the drivers about prevention of road kills and handling of wildlife encounters while driving through forest areas and speed governors must be installed in the coal transporting trucks/dumpers.

Agenda No. 20.4

20.4: Arjuni East underground Coal Mine (area 1044.819 Ha having capacity 2.04 MTPA) by M/s Ultratech Cement Limited, located at villages: Pahadiya, Dhaurai, Arjuni and Badwahi; District: Umaria; State: Madhya Pradesh – Regarding grant of ToR

[Online Proposal No. IA/MP/CMIN/468586/2024; Consultant: JM EnviroNet; NABET/EIA/2326/RA 0308 valid up to 07/08/2026]

20.4.1: M/s Ultratech Cement Limited has made an application online vide proposal no IA/MP/CMIN/468586/2024 dated 17.05.2024 along with the application in the prescribed format Form-I: CAF, Part A and Part B and pre-feasibility report for undertaking a detailed EIA study as per the EIA Notification, 2006 for the project mentioned above. The proposed project activity is listed at S. No. 1(a) Under Category “A” (> 500 Ha) of the schedule of the EIA Notification, 2006 and appraised at the Central Level.

The present proposal is for grant of Terms of References (ToR) of Arjuni East Coal Mine Sohagpur Coal Field (Block Area: 1044.819 ha, Capacity: 2.04 MTPA), located at Arjuni, Badwahi, Dhaurai & Pahadiya, Tehsil Pali, Umaria District, Madhya Pradesh.

The project was earlier appraised in the 13th EAC Meeting held on 1st & 2nd July, 2024. The same was deferred for want of additional information. PP submitted the additional information sought on 25/11/2024 followed by the clarification sought on 03/12/2024. The project was further placed before the EAC in its 20th meeting held on 20th-23rd January 2025 for consideration.

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

20.4.2: Environmental Site Settings:

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

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

Forest Area: The project involved total 498.463 ha of forest land (Reserve Forest- 498.179 Ha + Revenue Forest – 0.284 Ha). Application for Diversion of Forest Land of 498.493 ha as well as Surface Right for 29.455 ha has been submitted vide Proposal No. FP/MP/MIN/QRY/458491/2024, dated 15.05.2024. PP submitted that there is no violation of the 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/ elephant corridor etc. However, there is a tiger corridor connecting Bandhavgar National Park and Achanakmar Wildlife Sanctuary at a distance of 7.5 km from the mine lease area. The PP further submitted that WL management plan will be prepared and will be part of the EIA EMP report. Regarding the presence of Schedule – I species and the conservation plan in that regard, the PP has submitted that a detailed study is under process and the same will be incorporated in the EIA/EMP Report.

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

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

20.4.3: Mining Plan and Mine Closure Plan: Mine plan & Mine Closure plan for the project were approved by the Ministry of Coal (Rated capacity 1.36 MTPA & Peak Capacity: 2.04 MTPA, Area 1044.819 Ha) vide letter no ARJUNI EAST COAL MINEMPMP043/APP00258/2023, dated 12.01.2024.

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

2. No waste is proposed to be generated as this is an underground coal mine. Soil excavated from excavations of Inclines and shaft to be used for greenbelt development. Excavated rock waste will be generated from drivage of inclines and shaft, which will be of very less quantity. This is proposed to be spread out in the infrastructure area and proposed to be used for construction of road & backfilling of low-lying infrastructure area.
3. Total geological reserve reported in the mine lease area are 131.833 Million Tonnes with 54.9180 Million Tonnes mineable reserves. Out of total mineable reserves, 28.30 Million Tonne reserves are available for extraction. Percent of extraction is 21.4670%.
4. Total 14 seams are available within mine area, out of which 04 seams are workable with thickness ranging from 0.30 m to 7.56 m. Grade of coals G9-G16. This proposal is for underground mining. During excavation of coal from underground mining, there is no generation of OB; hence, details of stripping ratio are not applicable. The gradient is around 1 in 35 to 1 in 50.
5. Life of mine is 27 years.
6. Total block area is 1044.819 ha; out of which, 231.454 ha is Govt. Land, 314.902 ha is Private Land and 498.463 ha is Forest Land. At conceptual stage, 9.25 ha area to be developed under greenbelt/plantation within & around facilities. 19.045 is proposed for Roads & Infrastructure, 0.700 for UG entry, 0.250 for Top Soil Dump, 0.210 Ha for Settling Pond. 1015.364 area will remain undisturbed or mining right for underground mining.
7. Details of Land Use:
 - a. **Pre Mining land use:**

S. No.	Land Use	Within ML Area (Ha)	Outside ML Area (Ha)	Total (Ha)
1.	Agricultural Land	310.740	-	310.740
2.	Forest Land	498.463	-	498.463
3.	Waste Land	0	-	0
4.	Grazing Land	9.268	-	9.268
5.	Surface Water Bodies	2.222	-	2.222
6.	Settlements	12.983	-	12.983
7.	Other (Barren Land, Roads/Other Infrastructure, Reserve, Other)	211.143	-	211.143
Total		1044.819	-	1044.819

b. Post Mining Land Use:

S. No.	Type	Total Area	Reclaimed Area	Un-claimed Area
1.	Excavation/ Quarry Area:	-	-	-
	(a) Backfilled Areas	-	-	-
	(b) Excavated Void	0.700	0.700	-
2.	External Dump	-	-	-
3.	Safety Zone	-	-	-
4.	Road & Infrastructure	19.045	19.045	-

S. No.	Type	Total Area	Reclaimed Area	Un-claimed Area
5.	Garland Drains	-	-	-
6.	Embankment	-	-	-
7.	Others (UG Entry, Settling Pond, Green Belt/ Plantation, Undisturbed OR Mining Right For UG)	1025.074	9.71	1015.364
Total		1044.819	1044.819	1015.364

8. Details of transportation: PP submitted that the coal is proposed to be transported within the outside mining lease in the following manner:
- In pit:** From underground face via network of belt conveyors which will discharge into 3 x 150 tonner bunker to be installed at surface.
 - Surface to siding:** Coal from this bunker will be loaded onto the trucks and transported to the nearest railway siding and it will be transported to the nearby Plants of UltraTech Cement Limited via covered trucks.
 - Siding to loading:** Coal from this bunker storage will be loaded onto the trucks and to be transported via road to nearest road to nearest railway siding or end user or Cement Plant of UltraTech Cement Ltd. via covered trucks.
 - Proposed change in transportation:** Two routes via road are proposed for transportation of Mineral. Both the routes (Route 1 & Route 2) touch the National Highway 43, which is around 2.5 km towards the south of the block which could be used for evacuation of coal from the mine.
9. Reclamation: PP reported that greenbelt is proposed to be developed in 9.25 ha within and around the facilities. 23,125 nos of saplings @2500 per ha are proposed to be planted. 19.045 is proposed for Roads & Infrastructure, 0.700 for UG entry, 0.250 for Top Soil Dump, 0.210 Ha for Settling Pond will be reclaimed and Afforestation shall be done as per Approved Mine Closure Plan in Consultation with the Forest Dept.

20.4.4: Baseline Data: PP reported that baseline data has been collected during Post Monsoon Season (Oct., to Dec., 2023) and will be included in the EIA Report. Baseline data has been collected for the following and the data analysis and interpretation is under process:

S. No.	Environmental Component	Baseline			
		Parameters	Frequency	Monitoring Locations	Methodology
1.	Land	Soil	Once in a season	09	As per IS 2720/USDA
2.	Meteorology	Temperature, Relative Humidity, Wind Speed, Wind Direction, Rain fall	Hourly	1	
3.	Air	PM10, PM2.5, SO2, NO2 and CO	(24 hourly), twice a week	10	CPCB Guidelines/ NAAQS/ IS/ 5182
4.	Noise	Equivalent noise levels in Leq dB(A)	Once in a season (day & night time)	10	CPCB Guidelines /IS 9989
5.	Ground Water	Parameters as per IS 10500-2012	Once in a season	09	IS 10500-2012/ IS 3025/APHA 22nd edition 2012
6.	Surface Water			05	

20.4.5: Details of Water Requirement: PP submitted that total water requirement is 1300 KLD, same will be sourced from ground water & mine seepage. Prior permission for ground water abstraction & dewatering of ground water will be taken from the Central Ground Water Authority. Potable water is proposed to be sourced through borewells. In development stage, industrial requirement is proposed to be met through borewells and in later years proposed to be met through treated water pumped from the mine. Comprehensive Hydrogeological Study, Ground Water Modelling is under progress and preparation of application for obtaining permission from CGWA is under progress and will be submitted along with the EIA/EMP Report.

20.4.6: Details of Power Requirement and diversion of High-Tension/Transmission Line: PP submitted that Power requirement of the mine is 2 x 5 MVA, 33KV/6.6kV substation has been envisaged which will receive power at 33 KV by a double circuit overhead feeder from MPPKVCL's substation. The substation is proposed to be located near the return air shaft. The power will be sourced from Singhpur substation of MPPKVCL Shahdol of East DISCOM, Govt. of MP. Further, no High-Tension/Transmission Line is proposed to be diverted.

20.4.7: 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 Treatment	Disposal
1.	Solid Waste (Domestic waste)	Mine Site	15	Organic Composter and Vermi-Compost Pits.	The same will be used as Manure in Greenbelt- By Road
2.	Plastic Waste (Packing material)	Equipment/components/spare parts packing	0.5	-	Through registered agencies - By Road
4.	E-waste IT equipment, electronic parts, cartridges of printer)	Laptops/Desktops/Servers/Printers/Electronics equipment.	160	-	Through registered vendors -By Road
5.	Batteries Waste	Caplamp-350, UPS-40 Machineries-12, FSV-3	83	-	Returned to OEM/Supplier - By Road
6.	Hazardous Waste (Lubricants, gear oil, engine oil and hydraulic oil)	Mine Site	45	-	Sold to the authorized CPCB recyclers through Registered Agencies - By Road
7.	C & D Waste (Houses, Shelter of Village Habitants)	Mine Site	335	-	Will be utilized in road leveling and construction work- By Road inside lease or to be sent to authorized recyclers/vendors
8.	Waste Rock	Mine Site	0.572	-	Will be utilized in road leveling, low lying area

S. No	Type of Waste	Source	Quantity (TPA)	Mode of Treatment	Disposal
					and construction work- By Road inside lease.

20.4.8: Plantation: PP submitted that greenbelt is proposed to be developed in 9.25 ha area with density of 2500 nos. of plants per ha. Local and fruit bearing species are proposed to be planted in consultation with the forest department.

20.4.9: R&R Plan: PP reported that the proposed mine site is falling in 04 Revenue Village viz. Arjuni, Badwahi, Dhaurai & Pahadiya. Habitation of Village Arjuni, Badwahi, Dhaurai & Pahadiya lying within the mine block. Due to proposal of underground mining, no relocation and rehabilitation are proposed. Therefore, R&R Plan is not applicable.

20.4.10: Project Cost: The estimated project cost is proposed to be 547 crores.

20.4.11: 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.

20.4.12: ADS Reply: PP submitted the ADS Reply vide letter dated 25/11/2024 and its further clarification vide letter dated 03/12/2024. Details of the same are as follows:

S. No.	ADS Point	Reply
1.	PP shall get the study done by ISM Dhanbad/ Kharagpur on whether the shaft and incline can be placed in the non-forest land or not. The study should also suggest the possible location of the same. The study should also comment on the alternatives suggested by PP.	A detailed study regarding finalization of the location of shaft & incline in the forest and non-forest land has been done by the ISM Dhanbad/ Kharagpur. Out of these 5 alternative routes, alternative route no. V is finalized located in forest area and the same is also located at the edge of the forest area connecting revenue area. Therefore, there will not be any direct impact in the forest area. Also, the transportation route is outside the forest area connecting from South-East part of mine area to mid-part of the mine passing through the revenue area. Trees are proposed to be removed which will directly affect wildlife dependent on these trees for shelter & food. Fragmentation could result in habitat isolation, affecting wildlife movement & breeding patterns. The tiger corridor is at a distance of approximately 10 km from Alternative-V, and therefore, there will be no habitat loss and impact on tiger population and other species that use the corridor. There are young to mature tree population in the forest will be reduced, leading to a decrease in biodiversity. Loss of these trees could disrupt the local microclimate and soil stability. Therefore, Alternative-V will lead to minimal wildlife habitat loss. The loss of trees and habitat could impact species richness and the ecological balance of the area, particularly affecting those species dependent on large trees. Detailed Study Report is submitted.
2.	PP has proposed semi-mechanised mining, PP should explain the proposed process in detail.	Semi-Mechanized Board & Pillar Underground Working Technology is given below: (a) Production Cycle = Drill + Blast + Load + Haul (b) Auxiliary Operation = Roof Control, Ventilation, Pumping, Clean Up (c) SDL/LHD are used for Load & Haul up to loading

S. No.	ADS Point	Reply
		point of nearest belt conveyor and through series of belt conveyor to Surface (d) Hydraulic operated single Roof bolter is used for roof support
3.	PP has proposed 0.065 Million CuM of waste rock at the conceptual stage, but the same will be generated in the initial year of mine development. Further, PP has proposed to spread out the same in the infrastructure area and proposed to be used for the construction of roads & backfilling of low-lying infrastructure areas. Whether the same has been proposed in the mine plan or not?	During initial year of mine development, 0.065 Million CuM of waste rock has been generated from drivage of inclines and shaft, this is the total quantity of waste to be generated during entire period of life of mine. Same will be used for construction of road & backfilling of low-lying infrastructure area. In Approved Mining Plan of Section 3.1.2 same details were given. Mining Plan Approval Letter along with respective details is submitted.
4.	PP shall optimise the use of forest land to the bare minimum and explore possibility of locating the shaft and incline in non-forest land alternatives for avoiding forest fragmentation and ecological disturbance should be examined.	Reply of the same is given in Point No. 1.
5.	Since there is a road passing through the ML, PP shall submit comments of the concerned authorities.	Arjuni East is an underground mine the roads passing over the ML area shall be unaffected, permission for underground working as required under Regulation 119 of the Coal Mines Regulations shall be obtained at appropriate time during the workings. Application for the same is submitted vide reference no. UTCL/AECM/PMGSY/ 2024-25/32, dated 30.07.2024. Copy of the same is submitted.

Clarification submitted vide reply dated 03/12/2024:

S. No.	Clarification sought	Reply
1.	As per the report of ISM Dhanbad, three alternative sites have been studied whereas the reply to point no. 1 states that five sites have been examined. Reply to point no. 1 shall be revisited based on the ISM Dhanbad study report.	In ISM Dhanbad Report, total 5 alternative sites have been studied. Detailed description is given below: In case of Alternative- I, the site of the incline & shaft is located in forest land as given in the Approved Mining Plan, the EAC had directed the Project Proponent to review the location of mine openings and to submit brief environmental analysis. Subsequently as directed by EAC, a detailed study regarding finalization of the location of shaft & incline in the forest and non-forest land has been undertaken by IIT/ISM Dhanbad/Kharagpur. In the said study, in addition to the Alternative- I given above, initially 3 more alternative sites (Alternative-II, Alternative-III & Alternative-IV) for the position of mine openings (shafts & inclines) and other mine infrastructures have been analyzed and siting has been suggested in non-forest area to avoid any adverse effects on forest land & habitation. Based on a comparative analysis of all the proposed alternatives, no alternative has been found to be suitable considering a nos. of associated issues i.e., constraint in smooth mining operation, including extension of infrastructure development period, high cost of operation, likely imposition of penalty, bottleneck in proper and effective ventilation and transportation. Therefore, another option as Alternative -V has then been proposed by ISM based on a detailed discussion with the Project Proponent and it has been found to be the safe and best location for development of shafts, inclines and other infrastructures considering minimum disturbance to eco system and forest fragmentation. Thus, a total of 5 alternative sites have been considered and a comparative analysis for location of mine entries and other infrastructures are given in Table No. 11 (Page No. 31) of the Report.

S. No.	Clarification sought	Reply
		<p>Alternative-V proposed in forest land is the best suitable option for developing mine entries and other infrastructures on the surface of Arjuni East Coal Mine considering minimal damage to the surrounding environment and least forest fragmentation. This alternative proposes the diversion of forest land. However, the forest land over the inclines and shaft will be minimally affected because it will be permanent structures and appropriate measures will be taken to protect the surface topography, minimizing subsidence and other impacts. Further, it is also proposed that the mine management must put efforts in next 5 years to maintain the multi-layer/3 tier greenbelt plantation on the periphery of development infrastructure of around 10-100 m wide within the layout of Alternative-V which will isolate the habitation and forests from it. Report of ISM Dhanbad is submitted.</p> <p>Therefore, we propose for change in location of Infra-2 (Shaft Drivage -2 nos.) in Shaft Area as per Alternative-V whereas location of Infra-1 (Incline drivage -2 nos.) in incline area as per Alternative V are remain same as proposed in Alternative- I.</p>
2.	With respect to point no 5 of ADS reply, comments/views of the concerned authority on the road passing through ML area shall be submitted.	Arjuni East is an underground mine the roads passing over the ML area shall be unaffected, permission for underground working as required under Regulation 119 of the Coal Mines Regulations, 2017 shall be obtained at appropriate time during the workings. No Objection Certificate has been obtained from Janpad Panchayat Pali, District: Umariya, MP, vide S. No./197, dated 29.11.2024. Copy of the same is submitted.

Deliberations and Observation of the Committee:

20.4.13: The Committee noted the following:

1. The instant greenfield proposal is for grant of Terms of Reference (ToR) to Arjuni East Coal Mine, (Sohagpur Coal Field) with rated capacity of 1.36 MTPA and peak rated capacity of 2.04 MTPA in an area of 1044.819 ha located at Villages: Arjuni, Badwahi, Dhaurai & Pahadiya, Tehsil: Pali, District: Umariya, Madhya Pradesh.
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 498.463 ha of forest land. Application for Diversion of Forest Land of 498.493 ha as well as Surface Right for 29.455 ha has been submitted vide Proposal No. FP/MP/MIN/QRY/458491/2024, dated 15.05.2024.
5. The Ministry of Coal vide allocation order No: NA-104/2/2023-NA dated 08.06.2023, allotted Arjuni East Coal Mine to Ultratech Cement Limited.
6. The Mining plan and the Mine Closure plan for the capacity of 1.36 MTPA/2.04 MTPA (targeted/ peak), within the lease area of 1044.819 Ha, were approved by the Ministry of Coal vide letter dated 12.01.2024.
7. PP submitted that 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 and no violation of WLP, Act is reported. However, the PP

submitted that there is tiger corridor connecting Bandhavgarh National Park and Achanakmar Wildlife Sanctuary, in 7.5 km west direction. The PP further submitted that WL management plan will be prepared and will be part of the EIA EMP report. Regarding the presence of Schedule – I species and the conservation plan in that regard, the PP has submitted that a detailed study is under process and the same will be incorporated in the EIA/EMP Report.

8. PP submitted that the total water requirement is 1300 KLD, that will be sourced from groundwater & mine seepage. Prior permission for groundwater abstraction & dewatering of groundwater will be taken from the Central Ground Water Authority (CGWA).
9. PP submitted that the total electricity requirement is 10 MW, 33KV/6.6kV substation is envisaged which receive power by a double circuit overhead feeder from MPPKVCL. The Committee is of the view that PP shall also explore the possibility of using renewable energy and accordingly a plan in this regard may be submitted. Further, PP shall align the project towards achieving SDGs.
10. The project cost (expected) submitted by the PP is Rs. 547 Cr.
11. Details of reserves and resources submitted by the PP are as follows:
 - Net Geological reserves – 131.833 MT
 - Mineable reserves – 54.9180 MT
 - Extractable reserves – 28.30 MT
 - Life of Mine – 27 Years
12. This proposal is for underground mining. Total 14 seams are available within mine area, out of which 04 seams are workable with thickness ranging from 0.30 m to 7.56 m. Grade of coals G9-G16. During excavation of coal from underground mining, there is no generation of OB; hence, details of stripping ratio are not applicable. The gradient is around 1 in 35 to 1 in 50.
13. The Committee noted that two routes via road are proposed for transportation of Mineral by PP. Both the routes (Route 1 & Route 2) touch the National Highway 43, which is around 2.5 km towards the south of the block, which could be used for evacuation of coal from the mine. The Committee is of the view that since the 48% of the area of the mine falls in the Forest, PP shall avoid road transportation in the forest area.
14. Greenbelt is proposed to be developed in 9.25 ha within and around the facilities. 23,125 nos of saplings @2500 per ha are proposed to be planted. An area of 19.045 ha is proposed for Roads & Infrastructure, 0.700 ha for UG entry, 0.250 ha for Top Soil Dump, 0.210 Ha for Settling Pond will be reclaimed and Afforestation shall be done as per Approved Mine Closure Plan in Consultation with the Forest Dept.
15. The proposed mine site is falling in 04 Revenue Village viz. Arjuni, Badwahi, Dhaurai & Pahadiya. Habitation of Village Arjuni, Badwahi, Dhaurai & Pahadiya lying within

the mine block. Due to underground mining, no relocation and rehabilitation are proposed.

16. Baseline data has been collected during Post Monsoon Season (Oct., to Dec., 2023) and the same shall be included in the EIA Report.
17. The Committee deliberated on the ADS Reply submitted by the proponent and found satisfactory.

20.4.14: Recommendations of the Committee:

EAC after detailed deliberations, under the provision of EIA Notification 2006 and as amended, **recommended** the proposal for grant of Terms of Reference (ToR), as applicable to the project, with Public Consultation (Public Hearing and Written submission) and following Specific ToR to **M/s. UltraTech Cement Limited** in addition to generic ToR given at Annexure-II for underground mines for preparation of EIA/EMP report for Arjuni East Coal Mine (area 1044.819 Ha having capacity 2.04 MTPA), located at villages: Pahadiya, Dhaurai, Arjuni and Badwahi; District: Umaria; State: Madhya Pradesh:

Specific ToRs:

- i. Project proponent has to prepare the EIA-EMP report based on the valid baseline data and thereafter conduct the Public Consultation (including public hearing), through concerned SPCB of the concerned Districts as per the provisions/procedure contained in the EIA Notification, 2006 (as amended) and OM issued by the MoEF&CC in this regard.
- ii. Project Proponent shall submit the detailed activities proposed with year-wise budgetary provisions (Capital and recurring) as per the Ministry's OM dated 30.09.2020, to address the concerns raised during the Public consultation including the public hearing. Activities proposed shall be part of the EMP.
- iii. Project proponent shall submit the EIA/EMP report after the plagiarism check using authenticated plagiarism software.
- iv. Impact of underground mining on the environment including underground mine air quality needs to be done by a reputed Government institute. The action plan on recommendation of study with budgetary provision needs to be submitted. Project proponent shall include specific studies and environmental mitigation measures for underground mining in the EIA/ EMP report.
- v. Project proponent has to Plot the wind rose diagram using the typical meteorological year (TMY) data for the period considered for the study. The monitoring units shall be deployed in the field based on the coverage area ratio and direction of the wind. A mathematical model shall be developed for the local site rather than using the standard model available in software for both air & water quality modelling. Project proponent should also increase the number of air pollution monitoring stations and incorporate the data in EIA report.
- vi. As the project involves groundwater intersection a Hydrological study shall be carried

- out by reputed Government Institute. Further, PP shall comply with the Ministry's OM dated 23.05.2019 and provide necessary details/studies in the EIA/EMP Report.
- vii. Project proponent shall submit the drone video & photographs of mined area, fresh lease area to be mined and existing and proposed transportation route. The height and speed of the drone shall be so maintained to give legible images/videos. Necessary titles should be included for better understanding.
 - viii. Project proponent should submit the detailed plan in tabular format to carry out (year-wise for life of mine) for concurrent afforestation and green belt development in and around the mining lease by using native species and in three tiers. The PP should submit the number of saplings to be planted, 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.
 - ix. Project proponent should submit the quantity of surface or ground water to be used for this project. The complete water balance cycle need to be submitted. In addition to this PP shall submit a detailed plan for rain water harvesting measures to be taken. The PP shall submit the year wise target for reduction in consumption of the ground/surface water by developing alternative source of water through rain water harvesting measures. The capital and recurring expenditure to be incurred needs to be submitted.
 - x. PP shall obtained permission from CGWA for use/abstraction of Ground water.
 - xi. Pond rejuvenation plan and plan for water recharge in the surrounding areas needs to be prepared and submitted. The capital and recurring expenditure to be incurred needs to be submitted.
 - xii. Project proponent should clearly bring out the details of the manpower to be engaged for this project with their roles /responsibilities/designations. In addition to this PP should mention the number and designation of person to be engaged under Environment Management Cell for implementation of environmental management plan (EMP). The capital and recurring expenditure to be incurred needs to be submitted.
 - xiii. Project proponent should clearly show the transport route of the mineral and protection and mitigative measures to be adopted while transporting of the mineral. The impact from the centre line of the Rail/road/conveyor on either side should be brought out clearly. Based on the above study the compensation to be paid in the event of damage to the crop and land on either side of the Rail/road/conveyor needs to be mentioned.
 - xiv. Detailed traffic /transportation plan shall be prepared and may be submitted during EC proposals. Project proponent to submit the plan for installation of conveyor belt/ Railway siding for transportation of coal.
 - xv. All the certificates viz. Involvement of Forest land, distance from the protected area, and list of flora & fauna should be duly authenticated by the Forest Department. The

Certificate should bear the name, designation, official seal of the person signing the certificate and dispatch number.

- xvi. Analyze biodiversity of the surrounding area and prepare wildlife management plan for the surrounding area. Ecosystem services/biodiversity study including soil microflora of the surrounding area should be submitted along with budgetary details.
- xvii. There is a wild-life corridor/Tiger corridor at 7.5 km west direction of proposed project area. Project proponent should take comments of NTCA regarding the tiger corridor in proximity of the lease area.
- xviii. A detailed Wild Life Conservation/Management plan for Schedule 1 species shall be prepared for the conservation of the species. PP shall ensure that a conservation plan shall be prepared and approved by the CWLW. PP shall obtain the authenticated list of schedule-1 species from the concerned department.
- xix. Project proponent shall submit the action plan to adhere to the Plastic Waste Management Rules 2016 and to adhere Ministry's OM dated 18/07/2022.
- xx. Project proponent shall submit design details of all Air Pollution control equipment (APCEs) to be implemented as part of the Environment Management Plan vis-à-vis reduction in concentration of emission for each APCEs.
- xxi. It should be ensured that only NABET-accredited consultants shall be engaged for the preparation of EIA/EMP Reports. PP shall ensure that the accreditation of the consultant is valid during the collection of baseline data, preparation of EIA/EMP report and the appraisal process. The PP and consultant should submit an undertaking the information and data provided in the EIA Report and submitted to the Ministry are factually correct and the PP and consultant are fully accountable for the same.
- xxii. Project proponent shall submit the photographs of monitoring stations & sampling locations. The photograph should bear the date, time, latitude & longitude of the monitoring station/sampling location. In addition to this PP should submit the original test reports and certificates of the labs which will analyze the samples.
- xxiii. A Social Impact Assessment Study shall also be carried out and an action plan on its recommendations may also be submitted with budgetary provisions.
- xxiv. Details of solar power facility proposed to be installed as energy conservation measures shall be submitted.
- xxv. Project proponent shall align its activities to one/few of the Sustainable Development Goals (SDG) and start working on the mission of net zero emission by 2050. PP shall update the same to the EAC.
- xxvi. Project proponent should provide in the EIA Report details of the statutory clearances, permissions, no objection certificates, consents etc. required for this project under various Acts, Rules and regulations and their status or estimated timeline.
- xxvii. Project proponent shall also submit an action plan pursuant to MoEFCC OM dated 29.10.2014.
- xxviii. Project proponent shall provide the details of wastewater treatment facilities to be installed within its capacity, timeline and budget. The EIA report should also include details of STP and ETP to be provided for treatment of domestic and industrial waste water.
- xxix. Project proponent shall assess the environmental impact on the nearby by schools, if

any, and explore possibility of relocation of the same. A mitigation measures shall be adopted against pollutions around the schools within the lease area in order to safeguard the interest and health of the students. A plan in this regard needs to be submitted.

- xxx. Project proponent shall explore use of porta- magazine for explosives, if required.
- xxxii. Project proponent shall carried out subsidence analysis and prepare a disaster management plan considering the risk involved in the proposed underground mining.
- xxxiii. Project proponent is advised to implement the 'Ek Ped Maa Ke Naam' Campaign which was launched on 5th June 2024 on the occasion of the World Environment Day to increase the forest cover across the Country. This plantation drive is other than Green belt development. The action in this regard shall be submitted concerned RO in six monthly report.

Agenda No. 20.5

20.5: Expansion of Makardhokra I OC Mine (Phase – I) (area 614.69 Ha having capacity 4.20 MTPA) by M/s Western Coalfields Limited, located at Villages: Katara, Khursapar, Shirpur, Dhamangaon, Kanwha; District: Nagpur, State: Maharashtra – Amendment in EC for time extension for transportation of Coal by road – reg.

[Online Proposal No. IA/MH/CMIN/501298/2024; Consultant: CMPDIL; NABET/EIA/22-25/SA0223 valid till 08/04/2025]

20.5.1: The instant proposal is for amendment in Environment Clearance granted to M/s Western Coalfields Limited accorded vide Letter no. J-11015/54/2006-IA. II(M) dated: 21.03.2022 and its subsequent amendment dated 08.02.2024, for Makardhokra I OC (Phase – I) (area 614.69 ha having capacity 4.20 MTPA), located at Villages: Katara, Khursapar, Shirpur, Dhamangaon, Kanwha; District: Nagpur, State: Maharashtra.

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

S. No.	Details of Letter No.	EC/Expansion EC/Amendment in EC/Validity extension/Transfer of EC	Capacity (MTPA)	Area (in Ha)	Date of issuance	Status of implementation
1	J-11015/54/2005.IA.II (M) dated 02-08-2006	EC	1.00	660.70	02.08.2006	Implemented
2	J-11015/54/2006-IA.II(M) dated 26.11.2015	Expansion EC	2.00	660.70	26.11.2015	Implemented
3	J-11015/54/2006-IA.II(M) dated 20.05.2021	Expansion EC	3.50	614.69	20.05.2021	Implemented
4	J-11015/54/2006-IA.II(M) dated: 20.02.2022	Amendment in EC	3.50	614.69	20.02.2022	Implemented

S. No.	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
5	J-11015/54/2006-IA.II(M) dated 21.03.2022	Expansion EC	4.20	614.69	21.03.2022	Being implemented
6	J-11015/54/2006-IA.II(M) dated: 08.02.2024	Amendment in EC	4.20	614.69	08.02.2024	Being implemented

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

20.5.3: 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 2014 onwards. CTO renewal has been obtained from the SPCB vide letter no. RED/L.S.I (R35) No:- Format1.0/CAC/UAN No.MPCBCONSENT-0000160392/CR/2307001141 dated: 18.07.2023 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
2014-15	0.07	1.0	NIL
2015-16	0.96	2.0	NIL
2016-17	1.81	2.0	NIL
2017-18	1.60	2.0	NIL
2018-19	2.00	2.0	NIL
2019-20	2.00	2.0	NIL
2020-21	2.00	2.0	NIL
2021-22	3.72	4.2	NIL
2022-23	4.2	4.2	NIL
2023-24	4.2	4.2	NIL
2024-25	2.253 (till 30/11/24)	4.2	NIL

20.5.4: Details regarding amendment sought in the EC dated 21.03.2022, followed by amendment sought vide EC letter dated 08.02.2024:

Specific/ Condition No	Details of Conditions as per EC	Amendment Sought	Justification
Specific Condition no. iv. of EC dated 21.03.2022, further amended vide Specific Condition	PP should complete the work of in-pit Belt conveyor system with CHP and Silo loading system till October,	PP shall implement the work of off-pit Belt conveyor system with CHP	PP has awarded work for Off Pit conveyor system with CHP and Silo loading system. Site preparation like removal of Overburden and supply of

Specific/ Condition No	Details of Conditions as per EC	Amendment Sought	Justification
no. 1.1 of EC amendment dated 08.02.2024.	2024 and accordingly, SPCB shall not grant CTO for road transportation after October, 2024.	and Silo loading system till 31.03.2026 i.e. F.Y. 2025-26	materials is under process. Work is expected to be completed by Oct 2025. Hence the timeline for installation of the Belt Conveyor may be amended to 31.03.2026, i.e., FY 2025-26.

20.5.5: Traffic Assessment Study Report: PP submitted the Traffic Assessment Study Report for Expansion of Makardhokra – I OC. Findings of the same are as follows:

The existing coal transportation from the existing Makardhokra – I Expansion OC is through road from the pit head to Umrer Railway siding which is entirely within the mine lease area of Makardhokra - I OC, Makardhokra - II OC & Umrer OC. Hence, no part of this transportation road passes over any private/ public property. This road comprises of (i) haul road from coal face to existing CHP for 3.40 km with a width of 30.00 m. After crushing of coal, coal is transported from the CHP to Umrer Railway Siding over a concrete road from CHP to Umrer siding for 1.70 km with a width of 7.00 m. This road is catering transportation load from the Makardhokra – I Expn. OC (3.50 MTPA) with environmental control measures already in place.

AAQ Monitoring was conducted at 5 locations, namely Heoti Village (2.4 km from core zone), Kalamana Village (1.2 km from core zone), Khursapar Village (0.4 km from core zone), Shirpur Village (0.5 km from core zone), Pit Office (30 m from road) and Substation (250 m from road). Out of these 5 locations, Heoti Village, Kalamana Village and Shirpur Village are residential areas and Pit Office and Substation are industrial areas.

The average PM₁₀ at Heoti Village, Kalamana Village, Khursapar Village, Shirpur Village, Pit Office and Substation varied between 72-84 µg/m³, 72-84 µg/m³, 72-84 µg/m³, 72-84 µg/m³, 136-165 µg/m³ and 140-165 µg/m³ respectively.

The average PM_{2.5} at Heoti Village, Kalamana Village, Khursapar Village, Shirpur Village, Pit Office and Substation varied between 22-34 µg/m³, 22-34 µg/m³, 22-34 µg/m³, 22-34 µg/m³, 42-62 µg/m³ and 48-60 µg/m³ respectively.

The average SO₂ at Heoti Village, Kalamana Village, Khursapar Village and Shirpur Village below 10 µg/m³ and at Pit Office and Substation varied between 10-13 µg/m³.

Noise level monitoring was carried out during day and night at 3 locations, namely Pit Office, Shirpur Village and Heoti Village.

Out of these 3 locations, Heoti Village and Shirpur Village are residential areas and Pit Office is industrial area.

The estimated noise levels in Heoti Village and Shirpur Village during the day time were recorded to be between 44.1-48.7 dBA and 44.4-47.5 dBA respectively and in the Pit Office was recorded to be between 63.4-67.5 dBA.

The estimated noise levels in Heoti Village and Shirpur Village during the night time were recorded to be between 42.2-44.3 dBA and 42.5-43.7 dBA respectively and in the Pit Office was recorded to be between 58.4-62.7 dBA.

As the complete road is dedicated to coal transportation only, there is no public traffic was observed. A separate access road for 2 wheelers has been provided for employees. . Therefore, on the said road only Coal tippers and LCV (for official use) only were observed. Maximum volume of PCU/Hr were observed at 04.00 to 05.00 Hrs, i.e, 216.6 PCU/Hr. As the current proposal is for amendment of existing EC granted, no additional load on the traffic has been anticipated. Therefore, the maximum PCU/hr as per the existing observed data is expected to remain the same. Present 70 nos. of dumper/tippers deployed in Makardhokra – I OC. As PP is has sought to continue road transportation upto installation of belt conveyor at existing production level, the nos. of dumpers/tippers are not expected to increase. Further 40 tonne dumpers have been deployed to reduce fleet size.

Existing Air Quality in the villages in vicinity has been found to be within permissible limits. Vehicles carrying coal are being covered with tarpaulin to prevent spillage. Vehicles hired to carry coal will meet all air pollution control norms and at regular interval checks for the implementation of pollution under control (PCU) certificates. Capital expenditure of ₹ 195.05 lakh has been done for environmental control measures (₹ 18.76 lakh for Sedimentation tank, ₹ 30.89 lakh for fixed sprinklers, ₹ 9.38 lakh for piezometers, ₹66.10 lakh for 10 fog cannons, 3.01 lakh for digital water meter and 66.91 lakh for Additional CAAQMS). In addition, 55.46 lakh spent for tyre washing system at main check post. Approximate ₹ 266 lakh has been further proposed for air quality management including procurement of additional fog Cannons, Wind barrier around coal stock yard, truck mounted road sweeping machine, fixed sprinklers and CAAQMS.

20.5.6: Justification for amendment required:

1. Justification for off-pit Belt Conveyor System:

The Project Report of Makardhokra-I OC Expn. Mine has been revised. In the revised Project Report of Makardhokra-I Expansion OC, working of Quarry has been divided in three phases. In first phase, the working has been proposed in the western quarry I (existing quarry of Makardhokra-I OC). In Phase-II, working has been proposed to extend the Western Quarry-I (existing quarry of Makardhokra-I OC) with further dip side excluding the forest land and inclusion of Rise side Eastern Quarry-I. Then in Phase-III, the barrier reserves between the Makardhokra-I OC mine & Dinesh (Makardhokra-III) OC mine, eastern quarry-II and from reserves below Forest Land in Western Quarry-I are proposed to be extracted.

The possibility of deployment of Inpit-belt conveyor in the quarry may not be feasible due to following factors:

- a) **Multi seam working:** The proposed area is having seven nos. of seams namely Seam-I, Seam-II (B), Seam-II (T), Seam-III, Seam-IV, Seam-V and seam-VI. All coal seams are considered in the project report. Considering the production from multiple seams,

possibility of deployment of Inpit-belt conveyor has been ruled out as it will involve frequent shifting of Inpit-belt conveyor to various seams floor.

- b) **Working in Small Quarries:** As mentioned above, the working in the Makardhokra – I Expansion OC has been divided in four sub quarries namely, Western Quarry-I, Western Quarry-II, Eastern Quarry-I and Eastern Quarry-II. Out of 4 Sub Quarries, Eastern Quarry-I & Eastern Quarry-II are comparatively small in size and sufficient space may not be available in these quarries for deployment of Inpit-belt conveyor
- c) **Backfilling in Western Quarry-I & Eastern Quarry-I:** Backfilling is proposed in the void of Eastern Quarry-I and Western Quarry-I. Out of which simultaneous backfilling is proposed in western Quarry-I. Deployment of Inpit-belt conveyor may hinder the movement of dumpers for backfilling. In addition, due to backfilling the space required for deployment of Inpit-belt conveyor may not be sufficient.
- d) **Phase wise working in Western Quarry-I:** Western Quarry-I is the largest Quarry, in which working is distributed in all three phases, hence the Inpit-belt conveyor has to be shifted number of times, if deployed

Considering all the points, the deployment of Inpit-belt conveyor in the Makardhokra – I Expansion OC mine may not be feasible.

2. Justification for extended timeline:

List of the activities taken up after grant of formal EC letter dated 08.02.2024:

1. LoA was issued vide letter no. नाग/वेकोलि/लिववि/कार्ादेश/2023-24/133 dated 14.02.2024 for the work of "Planning, Design, Engineering, Construction, Fabrication, Erection, Supply, Installation, Testing, Trial Run, Commissioning and Operation of CHP consisting of one set of coal receiving station of 4x120t capacity steel hoppers for receiving coal from the trucks with vibratory feeders, belt conveyors for coal transportation upto 4CU4C2 Conveyors of Dinesh OC CHP (8.0 MT) along with associated and allied facilities on Turnkey Basis at Makardhokra - I OC Expansion Project [inclusive of all Civil & Structural and Electrical & Mechanical works and allied auxiliary facilities such as Dust Suppression System, Fire Fighting System, Plant Cleaning System, construction of 5.5kV Overhead lines, Condition Monitoring System, Drinking Water Supply System, Service Road, General Development, Drainage etc. on Turnkey Basis of Makardhokda-I OC (4.00 MT), Umrer Area." The work value is Rs. 127.06 Crores issued to M/s. Black Diamond Equipments Pvt. Ltd. (BDEPL).
2. Joint inspection by WCL & M/s. BDEPL was carried out on 16.02.2024, and the site was handed over to the agency on 19.02.2024.
3. Designs/ drawings related to Civil/ Geotechnical, Mechanical, and Electrical engineering have been finalized, and approval has been obtained from CMDPIL.
4. Removal of overburden along the route of the Belt conveyor is under progress.
5. The supply of materials for the conveyor installation is under process.

3. Mass balance in coal evacuation:

At present, the system of coal evacuation is road-cum-rail. The coal from the mine benches (after crushing) is transported to railway siding by road, and thereafter, from there, coal is

dispatched to customers by rail. This system is being carried out with due consideration to control the pollution level in ambient air as detailed below:

The coal transportation from the existing Makardhokra – I Expansion OC is through the road from the pit head to Umrer Railway siding, which is entirely within the mine lease area of Makardhokra - I OC, Makardhokra - II OC & Umrer OC. In other words, no part of this transportation road passes over any private/ public property. This road comprises a haul road from the coal face to the existing CHP for 3.40 km with a width of 30 m. After the crushing of coal, coal is transported from the CHP to Umrer Railway Siding over a concrete road from CHP to Umrer siding for 1.70 km with a width of 7.00 m. This road is catering transportation load from the Makardhokra – I Expn. OC (4.20 MTPA) with environmental control measures already in place.

It is submitted that Umrer OC, with an EC capacity of 4.90 MTPA, will be exhausted by 2024-25. This will result in lesser coal transportation and less resultant pollutant load. The coal handling w.r.t. Umrer OC and Makardhokra – I OC at Umrer siding is as follows:

Year	Coal from Makardhokra – I OC	Coal from Umrer OC	Total Coal	Change in Coal handling at Umrer Siding w.r.t. Existing EC (4.20+4.90 MTPA)
2022-23	4.20 MTPA	3.80 MTPA	8.00 MTPA	(-) 1.10 MT
2023-24	4.20 MTPA	7.20 MTPA	7.20 MTPA	(-) 1.90 MT
2024-25	4.20 MTPA	5.70 MTPA	5.70 MTPA	(-) 3.50 MT
2025-26	4.20 MTPA	Exhausted	4.20 MTPA	(-) 4.90 MT

Thereafter, i.e., from 2025-26 onwards, coal from Makardhokra-I OC will be transported through the belt conveyor system to a new railway siding with CHP & Silo arrangement, located within the Dinesh OC leasehold boundary.

20.5.7: Details of Court Cases: There are no court cases pending on the project.

20.5.8: Written Submission: PP submitted the following written submissions during the meeting:

- A. As per the original application submitted through PARIVESH, PP sought extension of time for implementation of the work of off-pit Belt conveyor system with CHP and Silo loading system till 31.10.2025 i.e. F.Y. 2025-26. However, proponent requested the EAC to enhance the said time frame till 31.03.2026. Reason being, the off-pit belt conveyor with CHP and silo loading system may not be fully operational by October, 2025, due to prospective delay in work on account of upcoming monsoon. Also, taking into cognizance, the present status of work it is likely that the completion of the same may take some more time.
- B. PP informed that the belt conveyor from Makardhokra – I Expansion OC will connect to their adjacent coal mine namely Dinesh OC belt conveyor to utilize Silo with RLS. Further informed that the Belt conveyor with Silo of Dinesh OC has the capacity to cater additional coal from Makardhokra – I Expansion OC with sufficient margin.

Details of Belt Conveyor from Makardhokra – I OC:

Truck Receiving Station: 1 No. Four hoppers of 120 Tonne Capacity equipped. Size and Loading platform of 65 m X 30 m size with 30 m wide approach ramp.

Conveyor Length: Approx. 2.25 KM, there is one series of Conveyor.

- i) Belt Conveyor C1: 1200 mm wide, 1200 TPH: Length 1150.00 m, (C1) Receiving Pit to TH1 (Speed 3.20 m/sec).
- ii) Belt Conveyor C2: 1200 mm wide, 1200 TPH: Length 1100.00 m, (C2) TH2 to 3C1/3C2 of Conveyors of Dinesh OC CHP (Speed 3.20 m/sec).

Total Length of Conveyor Belt: 2.25 KM (Approx.)

Details of Dinesh OC Belt Conveyor

Details of Dinesh OC Belt Conveyor are given below as per the BOQ of the Notice Inviting Tender (NIT):

5.01	Belt Conveyor,1C1,1C2, 1400mm wide, 150kW drive, 2.3 m/sec speed, 1200tph capacity, 280m long, 6.6kV, 3Ph, 50Hz, complete with ST-1400 belting, structures & idlers etc. inclusive of Two way chutes with motorised flap gate all complete as per bid document and scope of work.	2	Sets	17333000.00	34666000.00	INR Three Crore Forty Six Lakh Sixty Six Thousand Only
5.02	Belt Conveyor,2C1,2C2, 1400mm wide,2 x 125kW drive, 2.3 m/sec speed, 1200tph capacity, 526.2m long 6.6kV,3Ph, 50Hz complete with ST-1400 belting, structures & idlers etc. inclusive of Two way chutes with motorised flap gate all complete as per bid document and scope of work.	2	Sets	30489000.00	60978000.00	INR Six Crore Nine Lakh Seventy Eight Thousand Only
5.03	Belt Conveyor,3C1,3C2, 1400mm wide, 2 x 200kW drive, 2.3 m/sec speed, 1200tph capacity, 1261.1m long 6.6kV,3Ph, 50Hz complete with ST-1400 belting, structures & idlers etc., inclusive of Two way chutes with motorised flap gate all complete as per bid document and scope of work.	2	Sets	62110500.00	124221000.00	INR Twelve Crore Forty Two Lakh Twenty One Thousand Only
5.04	Belt Conveyor, 4C1,4C2, 1400mm wide,2 x 200kW drive, 2.3 m/sec speed, 1200tph capacity, 1273.9m long, 6.6kV,3Ph, 50Hz complete with ST-1400 belting, structures & idlers etc., inclusive of Two way chutes with motorised flap gate all complete as per bid document and scope of work.	2	Sets	62546000.00	125092000.00	INR Twelve Crore Fifty Lakh Ninety Two Thousand Only
5.05	Belt Conveyor,5C1,5C2, 1400mm wide,2 x 200kW drive, 2.3 m/sec speed, 1200tph capacity, 1236.2m long, 6.6kV,3Ph, 50Hz complete with ST-1400 belting, structures & idlers etc., inclusive of Two way chutes with motorised flap gate all complete as per bid document and scope of work.	2	Sets	61215000.00	122430000.00	INR Twelve Crore Twenty Four Lakh Thirty Thousand Only
5.06	Belt Conveyor,6C1,6C2, 1400mm wide,2 x 125kW drive, 2.3 m/sec speed, 1200tph capacity, 405.2m long, 6.6kV,3Ph, 50Hz complete with ST-1400 belting, structures & idlers etc., inclusive of Chutes for Travelling Tripper all complete as per bid document and scope of work.	2	Sets	27575000.00	55150000.00	INR Five Crore Fifty One Lakh Fifty Thousand Only

As per BOQ, each belt conveyor capacity is 1200 tph and 2 sets of belt conveyor are provided.

System capacity is thus calculated:

- a) Carrying capacity of belt conveyor = 1200 TPH for each set

- b) Total nos. of set of belt conveyer = 2 Nos.
 c) No. of operational hours = 15 hrs (Avg.)
 d) No. of working days = 330 Days a year.

Installed carrying capacity of belt conveyer of Dinesh OC CHP = 2X 1200 TPH x 15 hrs. x 330 days = **11.88 MTPA**

- Installed designed capacity of belt conveyors of Dinesh OC CHP is **11.88 MTPA** (Max.)
- Coal to be fed/dispatched from Dinesh OC CHP is **4.5 MTPA**.
- Proposed Coal to be fed/dispatched from Makardhokra-I belt C2 to Dinesh OC CHP is **4.2 MTPA**. i.e. Total Coal to be fed/dispatched = **4.5 MTPA + 4.2 MTPA = 8.7 MTPA**

From the above, it can be seen that the total proposed coal dispatched through the Dinesh OC belt conveyer is 8.7 MTPA, whereas the installed capacity is 11.88 MTPA, which is 37% higher than the installed capacity of the Dinesh OC CHP.

Therefore, Belt conveyer with Silo of Dinesh OC CHP has sufficient capacity to cater additional coal fed from Makardhokra – I Expansion OC.

- C. Documentary evidence for accommodating the Overburden of Makardhokra I OC in the void of Makardhokra II OC.

Status of Compliance:

Overburden from Makardhokra – I OC has been proposed to be dumped in Makardhokra – II OC as a backfilled material. The same has been also proposed in Mine Closure Plan of Makardhokra – II OC and duly approved by competent authority. Approval of MCP is submitted.

The project report (including the Mining Plan) has been duly approved by the Competent Authority. It is pertinent to mention here that this has been duly deliberated while the grant of EC and MoEF&CC (erstwhile MoEF) has granted Environmental Clearance accordingly vide J-11015/54/2005 IA.II(M) dated 02.08.2006 (First EC) and subsequent EC letters.

S. No.	Capacity	Area	Reference	Remarks
1	1.00	660.70	J-11015/54/2005.A.II(M) dated 02.08.2006	EC
3	3.50	614.69	J-11015/54/2006-IA.II(M) dated 20.05.2021	Expansion
5	4.20	614.69	J-11015/54/2006-IA.II(M) dated 21.03.2022	Expansion u/s 7 (ii)

Observations and deliberation of the Committee:

20.5.9: The EAC noted the following:

1. MoEF&CC has granted EC to M/s Western Coalfields Limited vide Letter no. J-11015/54/2006-IA. II(M) dated: 08.02.2024, for Makardhokra I OC (Phase – I) (area 614.69 ha having capacity 4.20 MTPA), located at Villages: Katara, Khursapar, Shirpur, Dhamangaon, Kanwha; District: Nagpur, State: Maharashtra. Thereafter, vide

EC letter dated 08.02.2024, an amendment was granted for extension in timeline to complete the work of in-pit conveyor belt with CHP and Silo Loading System by October 2024. PP submitted the application for seeking amendment on 24.10.2024.

2. Now the proponent has again made the application for seeking amendment in the same condition for extension in the timeline for establishing the off-pit conveyor belt with CHP and Silo Loading System. It is observed that the amendment is also sought to establish **off-pit conveyor belt** instead of in-pit conveyor belt.
3. The project doesn't involve any forestland.
4. Committee deliberated on the request of the proponent to install off-pit conveyor belt instead of in-pit conveyor belt and observed the justification submitted by the proponent. PP submitted that as per the revised Project Report of Makardhokra-I Expansion OC, working of Quarry has been divided in three phases. In first phase, the working has been proposed in the western quarry I (existing quarry of Makardhokra-I OC). In Phase-II, working has been proposed to extend the Western Quarry-I (existing quarry of Makardhokra-I OC) further dipside excluding the forest land and inclusion of Rise side Eastern Quarry-I. Then in Phase-III, the barrier reserves between the Makardhokra-I OC mine & Dinesh (Makardhokra-III) OC mine, eastern quarry-II and from reserves below Forest Land in Western Quarry-I are proposed to be extracted. The proponent also submitted that deployment of Inpit-belt conveyor in the quarry may not be feasible due to various reasons and EAC took into consideration all reasons submitted by the proponent.
6. Committee deliberated on the delay in installation of conveyor belt along with CHP and Silo Loading System. PP submitted that right after the grant of EC amendment letter dated 08.02.2024, a LoA was issued vide letter no. नाग /वेकोलि / लिववि / कार्ादेश / 2023 -24 / 133 dated 14.02.2024 for the work of "Planning, Design, Engineering, Construction, Fabrication, Erection, Supply, installation, Testing, Trial Run, Commissioning and Operation of CHP consisting of one set of coal receiving station of 4x120t capacity steel hoppers for receiving coal from the trucks with vibratory feeders, belt conveyors for coal transportation upto 4CU4C2 Conveyors of Dinesh OC CHP (8.0 MT) along with associated and allied facilities on Turnkey Basis at Makardhokra - I OC Expansion Project inclusive of all Civil & Structural and Electrical & Mechanical works and allied auxiliary facilities such as Dust Suppression System, Fire Fighting System, Plant Cleaning System, construction of 5.5kV Overhead lines, Condition Monitoring System, Drinking Water Supply System, Service Road, General Development, Drainage etc. on Turnkey Basis of Makardhokda-I OC (4.00 MT), Umrer Area." The work value is Rs. 127.06 Crores issued to M/s. Black Diamond Equipments Pvt. Ltd. (BDEPL). Joint inspection by WCL & M/s. BDEPL was carried out on 16.02.2024, and the site was handed over to the agency on 19.02.2024. Designs/ drawings related to Civil/Geotechnical, Mechanical, and Electrical engineering have been finalized, and approval has been obtained from CMDPIL. Removal of overburden along the route of the Belt conveyor is under progress. The supply of materials for the conveyor installation is under process.

The original application was made by the proponent to seek the time extension for installation of conveyor belt along with CHP and Silo Loading System was for extension up to October 2025. However, during the deliberation it was observed that the said timeline may not suffice due to various environmental and technical reasons. Hence, the PP sought more additional time for successful implementation and commissioning of the conveyor belt along with CHP and Silo Loading System. PP submitted a revised request vide letter dated 22.01.2025, seeking the time extension till 31.03.2026.

7. Committee deliberated on the Traffic Assessment Study Report submitted by the proponent and observed that, coal transportation is being done through a dedicated coal transportation route. As per the current traffic load, the traffic on the coal transportation road remains smooth. Existing Air Quality in the villages in vicinity has been found to be within permissible limits. Committee also deliberated on the pollution control measures being undertaken by the proponent.

The Committee observed that transportation of coal is being done by the tarpaulin covered trucks and same is being ensured through security check post that no trucks are being allowed to exit the mine premises without tarpaulin covering. 10 nos of mist fog canons have been deployed at various locations, including coal stockyard and coal transportation road. No village road is used for the transportation of coal by dumpers/trucks. No sensitive locations such as school, hospitals for the transportation of coal by dumpers/ trucks. Coal transportation is being conducted through internal roads only. Tyre washing system has been installed at the check post. 1 Nos. Mobile Water Sprinkler of 28 KL capacity has been deployed. 1 No. Tractor mounted Road Sweeping machine has been deployed.

8. Committee deliberated on the design of the coal conveyor and sought the documentation of the same from the proponent. Committee observed that Makardhokra – I Expansion OC will connect to the Dinesh OC belt conveyor and utilize Silo with RLS. Committee also observed that Belt conveyor with Silo of Dinesh OC has the capacity to cater additional coal from Makardhokra – I Expansion OC with sufficient margin.
9. During the deliberation, the Committee observed that OB of Makardhokra – I OC is being dumped in the void of Makardhokra – II OC. PP submitted that the same was envisaged in the previous ECs and the Mine Closure Plan of Makardhokra – II OC duly approved by the competent authority. PP also submitted the relevant documents of the same.

10. Written submission made by the PP was deliberated by the EAC and found it satisfactory.

Recommendations of the Committee:

20.5.10: 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-11015/54/2006-IA.II(M) dated 21.03.2022, further amended vide letter no. J-11015/54/2006-IA.II(M) dated 08.02.2024, as detailed below **subject to uploading of written submissions on PARIVESH portal**. Other terms and conditions prescribed in EC dated 21.03.2022 and its subsequent amendment dated 08.02.2024 shall remain unchanged:

Reference in EC letter dated 21.03.2022 & its subsequent amendment dated 08.02.2024	Description as per approved EC & its subsequent amendment dated 08.02.2024	Amendment sought in EC	Recommendation of EAC
Specific Condition no. iv. of EC dated 21.03.2022, further amended vide Specific Condition no. 1.1 of EC amendment dated 08.02.2024.	PP should complete the work of in-pit Belt conveyor system with CHP and Silo loading system till October, 2024 and accordingly, SPCB shall not grant CTO for road transportation after October, 2024.	PP shall implement the work of off-pit Belt conveyor system with CHP and Silo loading system till 31.03.2026 i.e. F.Y. 2025-26.	<p>Agreed</p> <p>Concerning the changes in specific condition no. iv of EC dated 21.03.2022 and its subsequent amendment vide EC dated 08.02.2024, Committee recommended to amend specific condition no. iv as follows:</p> <p><i>“The PP is permitted to transport coal through dedicated coal transportation road till 31.03.2026 and shall deploy the off-pit Belt Conveyor System, along with CHP and Silo Loading System by 31.03.2026. No road transportation will be permitted beyond 31.03.2026.</i></p>

Additional Specific Conditions:

- i. Three tier plantation shall be done on both the sides of the captive road being used for coal transportation to control the pollution caused by the transportation of coal through roads. In addition to this, PP shall provide 50,000 plant saplings with 4 feet tall fruit bearing plants to farmers for plantation in barren and agriculture lands in the study area every year for 5 years with incentive to improve the green cover in and around the mine lease area.
- ii. All the recommendations made in the Traffic Assessment Study Report regarding coal transportation by road shall be strictly adhered with.
- iii. Green house emission from the mine operations shall be evaluated and corresponding carbon absorption plan shall be submitted to the concerned RO, MoEF&CC with 6 monthly compliance report
- iv. PP shall align its activities to the Sustainable Development Goals (SDG), for which Present status and an action plan shall be submitted to the concerned RO, MoEF&CC with 6 monthly compliance report.
- v. Additional air pollution control measures should be taken along roads being used for transport of coal including e-/CNG/LNG vehicles.

DAY-2: 21st JANUARY 2025 [TUESDAY]

Agenda No. 20.6

Kente Extension Integrated Opencast Coal Mine of 9 MTPA (Normative)/11 MTPA (Peak) and Pit Head Washery Project of 9MTPA capacity within mine lease area of 1760 ha by M/s Rajasthan Rajya Vidyut Utpadan Nigam Limited located at Villages: Kente, Basan, Chakeri, Parogiya Tehsil Ambikapur, District Surguja, State Chhattisgarh – Environment Clearance – reg.

[Online Proposal No. IA/CG/CMIN/507400/2024; Consultant: VARDAN ENVIRONET LLP, NABET/EIA/2326/RA 0284_Rev.01, valid up to 04.05.2026]

20.6.1: M/s. Rajasthan Rajya Vidyut Utpadan Nigam Limited (RVUNL) has made an online application vide proposal no. IA/CG/CMIN/507400/2024 dated 10.12.2024 along with copy of EIA/EMP report and Form (CAF, Part-A, B and C)) 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) & 2 (a), Under Category “A” of the schedule of the EIA Notification, 2006 and appraised at Central Level. Further, the project do not attract the General Condition of the EIA Notification, 2006.

Kente Extension Opencast Coal Mining [9 MTPA Normative and 11 MTPA Peak] & Pit Head Coal Washery Project of 9 MTPA capacity of M/s Rajasthan Rajya Vidyut Utpadan Nigam Limited (RVUNL) in lease area of 1760 ha located at Villages: Kente, Basan, Chakeri, Parogiya; District: Surguja; State: Chhattisgarh is a green field project. The project was granted ToR for the said area and capacity vide letter J-11015/48/2019-IA.II(M), dated 08.01.2020, valid up to 07.01.2025, in line with MoEF&CC, S.O 221 (E) 18.01.2021 (1 year extension as per COVID guidelines).

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

20.6.2: Environmental Site Settings:

The pit head washery of 9 MTPA capacity will be established inside the mine lease area which is covered under Survey of India Topo Sheet No. F44K13 and is bounded by the geographical coordinates ranging from Latitude 22° 47' 39.797” N & 22° 48' 38.594” N and Longitude 82° 49' 21.991” E & 82° 52' 48.833” E. The DGPS coordinate of the ML area are given in EIA Report.

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 1742.6 Ha of forest land and application for forest clearance has been submitted vide proposal no. FP/CG/MIN/QRY/479349/2024 dated 07.06.2024.

Protected Area: The project is not located within 10 KM of any ESZ/ ESA/ national park/ wildlife sanctuary/ biosphere reserve/ tiger reserve/ tiger corridor etc. Wildlife Conservation & Management Plan prepared by Enviro Greens consultants and approved by the PCCF (Wildlife) Raipur vide letter no 512/176 dated 07/12/2021 with financial provision of Rs.

1673.25 Lakhs. There are total six Schedule 1 species in the study area, i.e. Asian Elephant, Sloth bear, Indian Pangolin Scalyanteatey, Indian Peafowl, Monitor Lizard and Indian rock python.

The Lemru Elephant Reserve is located within 10 km of the Kente Extension coal block, which was officially notified by the Chhattisgarh government on October 7, 2021. The purpose of the reserve is to provide a safe habitat for elephants, reduce conflicts between humans and elephants, and improve wildlife management. Letter from Conservator of Forest (Wildlife) and field Director (Elephant Reserve), Surguja, Ambikapur (CG) dated 05th January 2022 has been received. PP submitted that the said reserve is approximately 3 km away from the ML boundary. Other than that there are no National Park, eco-sensitive Zones, within 10 km radius.

Other sensitive receptors: Chhoti Chorai Nallah is 0.9 km in SE direction from the mining lease area. The kente coal block is situated in the ridge of watershed there by all first & second order stream (nallah) are originated within block boundary. All nallahs are seasonal and flowing from north to south and out side southern boundary confluence with other nala and formed Bagbahar nallah located outside the lease area is a tributary of Hasdo River. The Dip of coal seam is also north to south in the same direction of nala water flow. These seasonal nallahs will be diverted wherever necessary from the open pit and cordoned off by bunds to prevent inrush of water into the quarry during monsoon. Accordingly mining will progress in same direction. Further, there is no presence of ASI protected archaeological site in close proximity to the ML area. The villages within the block are connected by Morrurum and non-metal roads, which will be applied for diversion after the grant of stage I FC.

Project Area/ Mine Lease: PP submitted that the said block has been allotted by MoC vide letter No. 13016/26/2004-CA-I/CA-III(Pt) (Vol. II) dated: 31.03.2015 by the Ministry of Coal, GoI. Validity of lease area is 31.03.2048.

20.6.3: Details of ToR:

Date of Application	Details	Date of Accord	ToR Validity
26.11.2019	J-11015/48/2019-IA.II(M)	08.01.2020	07.01.2025 (1 year addition as per Covid guidelines. Application for EC was submitted on 10/12/2024)

20.6.4: Method of Mining and Mine Plan: Mining Plan and Mine Closure Plan has been approved by the MoC, Govt. of India vide letter no. MPS-34011-26-2019-MPS, dated 04.06.2021. Details of the same are as follows:

1. Method of mining to be adopted will be opencast mining overburden removal by shovel-dumper & coal mining by surface miner. Coal Washery Jig washing system and Heavy media cyclone system.
2. The total geological reserves reported are 377.874 MT, out of which mineable reserves are 339.29 MT and extractable reserves are 276.11 MT. Percentage of extraction will be 73.07%.
3. There are total 8 nos. of seams out of which only 4 nos. of seams (namely Seam-VI, Seam-V, Seam-IV and Seam-IVA with thickness 0.34 to 1.85, 2.51 to 8.22, 5.35 to 8.91 and 0.35 to 1.76 respectively) are found to be workable.

4. Grade of coal will be G-13.
5. Stripping ratio will be 4.44 Cum/t
6. Life of Mine will be 33 years.

7. Top Soil Management

(i) Quantity of Top Soil to be generated: 5.98 M.Cum

(ii) Storage of Top Soil: Efforts will be made to excavate and segregate top soil separately. Top soil will be scrapped by dozer before the ground preparation for drilling and blasting. Scrapped top soil will be transported to the top soil storage area. During initial period of mining the top soil shall be directly utilized for plantation of saplings along the proposed roads and barren land. As and when the external waste dump gets stabilized the stored top soil will be spread over the area of dump to facilitate plantation.

(iii) Handling/Utilisation of Top Soil: 5.98 Mcum top soil will be generated during life of the mine. Out of which 5.31 and 0.67 will be utilized for internal and external dump respectively for progressive mine closure. During Final Closure, 1.95 M.cum top soil will be re-handled during re-handling of 97.57M.cum. Overburden for filling the void upto 30 meter below surface level.

(iv) Number of Top Soil Dumps: One

8. Waste/OB Management:

i. Dump Details:

Details	Internal Dumps		External Dumps		Remarks
	Nos.	Quantity of Waste/OB stored (m ³)	Nos.	Quantity of Waste/OB stored (m ³)	Whether external dump is outside mine lease area
Existing	-	-	-	-	-
Proposed	2	1,199,150,000	1	27,670,000	No
Total	2	1,199,150,000	1	27,670,000	No

ii. Specification of Each Dumps:

Dump No.	Area in ha	Height in m	Quantity (m ³)	Type (Internal/External)
1.	1240.730	214	1,199,150,000	Internal
2.	48.066	60	27,670,000	External

iii. Year of backfilling: Internal backfilling will start from 2nd year of project operation.

iv. Year wise waste generation and backfilling needs to be provided in tabular format for life of mine:

Year	Waste Generation (MCum)	Store in External Dumps (m ³)	External Dump Rehandling to Backfilling (m ³)	Backfilled (m ³)
	A	B	C	D
Yr - 1	7.15	7,130,000	7,130,000	0
Yr - 3	52.04	22,230,000	22,230,000	29,820,000
Yr - 5	111.99	28,330,000	28,330,000	85,560,000
Yr - 10	288.48	28,330,000	28,330,000	263,050,000
Yr - 15	466.70	28,330,000	28,330,000	442,300,000
Yr - 20	655.10	28,330,000	28,330,000	631,630,000

Year	Waste Generation (MCum)	Store in External Dumps (m ³)	External Dump Rehandling to Backfilling (m ³)	Backfilled (m ³)
	A	B	C	D
Yr - 25	844.87	28,330,000	28,330,000	821,920,000
Yr - 33	1220.84	28,330,000	28,330,000	1,199,160,000
Post Closure Period				
Yr - 36		28,330,000	28,330,000	1,199,160,000

(a) Utilization potential of wastes/ Rejects-

- (i) **Within the mines:** Overburden generated from mines is utilized as internal dumping.
- (ii) **Outside mines:** Rejects generated from beneficiation of raw coal will be disposed of as per guidelines issued by MoC
- (iii) **Efforts made by proponent:** Rejects generated from beneficiation of raw coal will be disposed of as per guidelines issued by MoC.

(b) Details of final mine void:

- (i) **Area** –406.807 ha
- (ii) **Depth** – 30 m

(c) Details of Quarry:

- (i) **Total quarry area:** 1647.537 ha
- (ii) Backfilled quarry area of 1240.730 ha shall be reclaimed with plantation.
- (iii) The final void of 406.807 ha at a depth of 30 m which is proposed to be converted into water body.
- (iv) **Green belt created** in 6.969 Ha.

8. There are total 2 internal dumps and 1 external dump within the ML area is proposed. The area of proposed two internal dumps combined is 1240.730 ha with height of 214 m, and area of one external dump is 48.066 ha with height of 60 m. No external dump is proposed outside the mine lease area. The overburden generated from mines will be utilized for internal dumping and backfilling will start from 2nd year of mine operations.

9. Salient features of coal washery

Description	Details
Capacity	9 MTPA
Working Hours	3 shifts/day with 8-hour shift
Washing Technology	Wet process comprising of Heavy Media Cyclone
Plant Process	Wet process comprising of crushing, screening, washing and material handling
Source of Water	Mine discharge Water
Power Requirement & source	Washery's Power requirement of 3 KW will be met from the nearest Substation

The washery shall produce **6.97 MTPA of washed (Clean) coal** of Calorific Value of 4200 – 4500 Kcal/kg and approximately **2.03 MTPA of reject coal** of Calorific Value 1500 – 1800 Kcal/kg will be generated during the washing process. The washed coal will be sent to the Thermal Power Plants of the RVUNL located in Rajasthan. As per the MOC guidelines for disposal of washery rejects, first priority will be given utilizing the rejects for power generation in nearby power plants. Saleable reject shall be transported by Railway as well as the road, depending on the location of the consumer.

9. Land use details:

a. Land use break up of the project

Mining Activity	Proposed Land Use Area (Ha)
Excavation Area	1647.54
Backfilled Area	-
Excavated Void	-
External Dump	48.066
Safety Zone	12.66
Road diversion	4.93
Settling pond	2.262
Road & Infrastructure area	5.241
CHP & Washery	9.318
Coal Evacuation Route & Approach Road	6.757
Rationalization area	16.26
Green Belt	6.969
Total	1760.00

b. Pre-mining land use:

S. No	Type of Land	Within ML Area (Area in Ha.)	Outside ML Area (Area in Ha)	Total (Area in Ha)
1	Agricultural	4.233	Nil	4.233
2	Forest	1742.6	Nil	1742.6
3	Waste Land	Nil	Nil	Nil
4	Grazing Land	Nil	Nil	Nil
5	Surface Water Bodies	Nil	Nil	Nil
6	Settlements	Nil	Nil	Nil
7	Others (Government Non-Forest Land)	13.167	Nil	13.167
	Total	1760.00	Nil	1760.00

c. Post mining land use:

S. No.	Type	Total Area (Ha)	Reclaimed Area (Ha)	Un-reclaimed area (Ha)
1.	Excavation Area	1,647.537		
	Backfilled Area	1,240.73	1,240.73	-
	Excavated Void	406.807	-	406.807
2.	External Dump	48.066	48.066	-
3.	Safety Zone	12.660	12.660	-
4.	Road & Infrastructure area	5.241	5.241	-
5.	Garland drains	-	-	-

S. No.	Type	Total Area (Ha)	Reclaimed Area (Ha)	Un- reclaimed area (Ha)
6.	Embankment	-	-	-
7.	Others	46.496	39.304	7.192
Total		1760	1346.001	413.999

9. Details of Transportation:

- a) **In pit:** Coal is transported from pit to CHP by conveyor
- b) **Surface to siding:** Conveyor belt
- c) **Siding to loading:** Through two Rapid Loading System (RLS)
- d) **Quantity being transported by Rail/Conveyor:** 9 MTPA (Normative)/11 MTPA (Peak) from mines by conveyor to Washery and 9 MTPA from washery by conveyor to silo followed by rail

Entire coal is proposed to be transported through dumpers till conveyor belt within the mine pit. Thereafter, transportation of coal is proposed through means of Conveyor belt from the Mine Pit to Surface and to CHP and then to Washery from where the washed coal will be transported by Railway to the end users. A belt-conveyor will be installed along one side of haul road for in-pit transportation of coal to surface. 40 m width haul road has been proposed. Out of which, 10 m will be used for installation of belt-conveyor & 30 meters for machinery. Washed Coal from the Siding to the end users will be transported by the railway.

10. Details of Reclamation: Afforestation shall be done progressively covering an area of 1,346.001 ha at the end of mining. This will include reclaimed OB dump (48.066 ha), Internal dump (1240.730 ha), Greenbelt (6.969 ha), Density of tree plantation is proposed to be 2500 nos. of plants per ha. 406.807 ha void is proposed to be converted into a water body of 30 m depth.

20.6.5: Baseline Data: The Baseline data has been generated from October 2023 to December 2023:

Period	Baseline Data
AAQ parameters at 10 Locations (min and max)	PM ₁₀ – 40.2 to 70.4 µg/m ³ PM _{2.5} – 21.5 to 50.5 µg/m ³ SO ₂ – 6.5 to 38.9 µg/m ³ NO _x – 10.3 to 48.5 µg/m ³ CO – 0.50 to 0.93 mg/m ³
Incremental GLC Level	PM ₁₀ = 13.53 µg/m ³ (Level at 0 km in - Direction) PM _{2.5} = 7.2 µg/m ³ (Level at 0 km in - Direction) SO ₂ = 0.36 µg/m ³ (Level at 0 km in - Direction) NO _x = 0.60 µg/m ³ (Level at 0 km in – Direction)
Ground water quality at 10 Locations	pH: 7.30 to 7.68, Total Hardness: 74 to 124 mg/l, Chlorides: 12.50 to 35.65 mg/l, Fluoride: 0.20 to 0.55 mg/l. Heavy Metals: Iron - 0.16 mg/l to 0.42 mg/l Zinc - 0.14 mg/l to 0.40 mg/l Copper - 0.03 mg/l to 0.26 mg/l Aluminium - *BLQ(**LOQ-0.005) mg/l Chromium - *BLQ(**LOQ-0.002) mg/l Manganese - *BLQ(**LOQ-0.01) mg/l Cadmium - *BLQ(**LOQ-0.002) mg/l Lead - *BLQ(**LOQ-0.002) mg/l Selenium - *BLQ(**LOQ-0.001) mg/l

Period	Baseline Data
	Arsenic - *BLQ(**LOQ-0.005) mg/l Mercury - *BLQ(**LOQ- -0.0005) mg/l.
Surface water quality at 10 Locations	pH: 7.26 to 7.92, DO: 4.8 to 5.9 mg/l and BOD: 9.0 to 18.0 mg/l., COD from 30.0 to 69.0 mg/l. Heavy Metals: Iron - 0.16 mg/l to 0.36 mg/l Zinc - 0.22 mg/l to 0.50 mg/l Copper - 0.12 mg/l to 0.26 mg/l Aluminium - *BLQ(**LOQ-0.005) mg/l Chromium - *BLQ(**LOQ-0.002) mg/l Manganese - *BLQ(**LOQ-0.01) mg/l Cadmium - *BLQ(**LOQ-0.002) mg/l
Noise levels Leq (Day and Night)	48.60 to 53.00 dB(A) for the day time and 39.80 to 44.20 dB(A) for the Night time.
Traffic assessment study findings	Coal transportation is planned via conveyor belt from the mine pit to the surface, then to the CHP, and subsequently to the washery. From the washery, the washed coal will be transported by rail to end use plants in Rajasthan. A private 75-km siding, operational from Surajpur Railway Station under the South East Central Railway, connects to the adjacent Parsa East and Kanta Basan (PEKB) opencast coal project for coal transportation. No road transportation is proposed.
Flora and fauna	Wildlife Conservation & Management Plan prepared by Enviro Greens Consultants and approved by the PCCF (Wildlife) Raipur vide letter no 512/176 dated 07.12.2021. Schedule – I species reported are Asian Elephant, Sloth bear, Indian Pangolin Scalyanteatey, Indian Peafowl, Monitor Lizard and Indian rock python.
Water Requirement	Source of Water: Ground water and Mine Water Ground Water Intersection: Yes Water Requirement: 4213 m ³ /day NOC (Ground Water): NoC for withdrawal of Ground water for Mining has been obtained from CGWA vide proposal no. CGWA/NOC/MIN/ORIG/2021/10080, dt. 02.01.2023, valid up to 14.01.2025. Renewal of the ground water NOC has been applied to CGWA on 14.01.2024

20.6.6: Details of water requirement: Total water requirement submitted by the proponent is 4213 KLD and source of water will be groundwater and mine water. NoC for withdrawal of Groundwater for Mining has been obtained from CGWA vide proposal no. CGWA/NOC/MIN/ORIG/2021/10080, dt. 02.01.2023, valid up to 14.01.2025. Renewal of the groundwater NOC has been applied to CGWA on 14.01.2025.

20.6.7: Details of power requirement and diversion of transmission line/ Hi-tension line: The power requirement is 12 MW which will be sourced from a nearby substation and no transmission line/ hi-tension line is proposed to be diverted.

20.6.8: 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:

S. No.	Type of Waste	Source	Quantity (TPA)	Mode of Treatment	Disposal	Remarks
1.	Used or spent oil	Mine Workshop	25.5	Authorized Vendors	Through CPCB/SPCB approved recycler	Hazardous waste
2.	Waste or residues containing oil	Mine Workshop	2.0	Authorized Vendors	Through CPCB/SPCB approved recycler	Hazardous waste

S. No.	Type of Waste	Source	Quantity (TPA)	Mode of Treatment	Disposal	Remarks
3.	Empty barrels/containers /liners contaminated with	Mine Machinery	30.0	Authorized Vendors	Through CPCB/SPCB approved recycler	Hazardous waste
4.	Plastic Waste	From site office and canteen etc.	1.0	Authorized Vendors	CPCB/SPCB guidelines for Authorized vendors	Plastic Waste
5.	Rejects	Pit head washery	2.025 MTPA	--	Will be sent to near by power plant	Solid waste

20.6.9: Public Consultation/ Hearing: The date, time and venue of the public hearing was published in Daily Newspapers on 23.06.2024 in “Times of India” & “Hari Bhoomi” by CECB, Chhattisgarh. Public hearing took place on 02.08.2024 at Govt. High school (Play Ground) [Approximately 2 km from the project site] Village Parsa, Tehsil – Udaipur, District-Surguja (CG), under the chairmanship of Shri Sunil Kumar Nayak, Additional District Magistrate. Total 1392 people attended the public hearing and total 1998 written representations were received from within and outside the district. The major issues raised during the PH were related to implementation of R&R policy and timely employment, adequate environmental protection measures, massive afforestation, healthcare facilities and solar street lighting, etc. under the CSR Policy.

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

S. No.	Proposed Activities under Public Hearing Commitment Scheme		Place of Implementation	Phasing of Allocated proposed PH Commitment Budget (Rs. In Lakh)					
				Time period (In Year)					
				1	2	3	4	5	Total
1	Rural Infrastructure Development	Construction and maintenance of Roads	In Kente, Basan villages	10	10	10	10	10	50
		Installation of Solar Street Light (200 no.)	In Kente, Basan, Chakeri, Parogiya villages	8	8	8	8	8	40
		Construction of Culverts & Drains and repair of existing drains	In Basan, Chakeri villages	10	8	8	7	8	41
2	Plantation	Avenue Plantation in buffer zone villages	In Tara, Gumga, Parsa villages	15	15	15	15	15	75
		Plantation around Govt. building / Panchayat Office /Community Center	In Salhi, Kente, Basan,ghatbhara, Tara, Gumga, shiv nagar Villages	15	15	10	15	15	70

S. No.	Proposed Activities under Public Hearing Commitment Scheme		Place of Implementation	Phasing of Allocated proposed PH Commitment Budget (Rs. In Lakh)					
				Time period (In Year)					
				1	2	3	4	5	Total
3	Employment	Skill Development Training for Operators, Fitters and Electricians	In Kente, Basan, Chakeri, Parogiya villages	25	20	20	10	10	85
		Livelihood Training centers for Ladies	In Kente, Basan, Chakeri, Parogiya villages	20	10	10	10	10	60
4	Healthcare Facilities	Providing infrastructure facilities such as beds, medical instruments in medical centers	In Kente, Basan, Chakeri, Parogiya villages	25	25	25	25	25	125
		Mobile Health Clinic, Health Camp & Medicines	In Kente, Basan, Chakeri, Parogiya villages	10	10	10	10	10	50
		Provision of 24x7 Ambulance to be made available to the Local Villages	In Kente, Basan, Chakeri, Parogiya villages	10	10	10	10	10	50
5	Water & Sanitation	Rainwater Harvesting and Ponds Rejuvenation	In Kente, Chakeri villages	5	5	5	5	4	24
		Construction of overhead Water tank	In Kente, Basan villages	10	10	10	10	10	50
		Installation of RO Water Cooler at Public Place and Schools	In Kente, Basan, Chakeri, Parogiya villages	10	10	10	10	10	50
		Construction of Community Toilets separately for Male & Female	In Kente, Basan, Chakeri, Parogiya villages	10	15	15	10	10	60
6	Educational Facilities	Providing infrastructural facilities like Computers, Bench etc. to Schools	In Kente, Basan, Chakeri, Parogiya villages	5	5	5	5	5	25
		Providing online coaching support for preparation of Engineering & Medical Entrance Examination	In Kente, Basan, Chakeri, and Parogiya villages	6	6	5	6	6	30

S. No.	Proposed Activities under Public Hearing Commitment Scheme	Place of Implementation	Phasing of Allocated proposed PH Commitment Budget (Rs. In Lakh)					
			Time period (In Year)					
			1	2	3	4	5	Total
	Providing smart class, setting up of science lab in schools	In Kente, Basan, Chakeri, Parogiya villages	5	5	5	5	5	25
	Construction of separate Toilets for Male & Female in Govt Schools in the Buffer Zone	In Salhi, Kente, Basan, ghatbhara, Tara, Gumga, shiv nagar Villages	10	10	0	10	10	40
7	Environmental Protection Measures	Different measures to control Air pollution/ Water pollution in the Core Zone like utilization of Water Sprinklers, Fixed Sprinklers, Fog Canon etc.	50	50	50	50	50	250
Total			263	246	231	230	230	1200

20.6.10: EMP Budget: The capital cost for environmental protection measures is proposed as Rs. 3668.75 lakhs. The annual recurring cost towards the environmental protection measures is proposed as Rs. 200.72 Lakhs. The employment generation from the proposed project is 916 persons.

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

Sl. No.	Particulars	Proposed EMP Cost (Rs. In Lakhs)	
		Capital Cost	Recurring Cost
1.	Air Pollution Control Measures	164	21
2.	Water Pollution Control Measures management	100	10
3.	Noise Pollution Control Measures	15	5
4.	Greenbelt Development	384	100
5.	Rain Water Harvesting	50	5
6.	OHS (Safety measures)	32.5	30
7.	Environment Monitoring	50	29.72
8.	Wildlife Conservation	1673.25	0
9.	Public Hearing Budget	1200	0
Total		3668.75	200.72

20.6.11: Plantation: Proposed greenbelt will be developed in 6.93 ha which is about 0.39% of the project area, in the safety zone of 12.66 ha. which is about 0.71% of the project area. Other than that plantation will be carried out in backfilled area of 1240.73 ha., external dump of 48.06 ha., road and infrastructure area of 5.24 ha., CHP and washery area of 9.318 ha., approach road of 6.75 ha. and rationalization area of 16.26 ha. The total area under plantation including greenbelt will be 1346 ha. out of the total project area of 1760 ha. In addition, to this plantation shall be carried out in nearby areas as CSR initiative.

20.6.12: Rehabilitation & Resettlement: PP submitted that are total 3 villages in the project area. Out of these, 3 villages will be completely resettled. PP submitted that there will be 56 PAFs. R&R will be implemented as per provisions of LAAR 2013 and CRRP 2007. The total amount of R&R has been estimated as Rs. 2,18,69,503.

20.6.13: Project Cost: Total cost of the project is proposed to be 234400 Lakhs. The budgetary provision under EMP towards Capital Cost of Environmental Management Plan is of Rs. 3,668.75 Lakhs and Recurring Cost of Rs. 200.72 Lakhs.

20.6.14: Details of pending litigations: 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.

20.6.15: Undertaking/ Affidavit: PP through an affidavit submitted that there is no construction/mining done at the site or the construction done without any deviation as per previous EC obtained, there is no litigation pending against the project in NGT or any court of law, this is an opencast mining project there is R&R involved and will be acquired after grant of Environment Clearance, there is no difference in the documents submitted i.e., Common Application Form, Form 1, Form- 2, EIA/EMP report and presentation being made to the EAC, the project activity is listed as '1(a) (3)&2(a)' in EIA Notification, 2006 and categorized as 'A' as having an area of 1760 Ha which is > 500 ha and the capacity is more than 2.5 MTPA. TOR was granted by EAC (Coal), MoEFCC, New Delhi) granted on dated 08.01.2020 F. No. - 11015/48/2019-A. (M). Now the proposal is submitted for grant of EC.

20.6.16: Written Submissions: PP vide letter dated 28.01.2025 submitted the following:

1. In our proposed project, Kente extension coal block normative capacity will be 9 MTPA and peak will be 11 MTPA. The washery will be constructed with capacity of 9 MTPA only. The mined out raw coal will be sent to ZLD based coal washery from where washed coal will be generated. Coal transportation is planned through dumper till conveyor belt from mine pit to the surface then to CHP and subsequently to the washery. From the washery the washed coal will be transferred through conveyor belt (Approx. 2.8 km) to silo which is Constructed in PEKB (adjacent mine) and then from silo it will be transported by 75 km private railway line operational from Surajpur railway station under the SECR (South East Central Railway) connects to end use thermal power plants in Rajasthan. An undertaking in this regard is submitted.
2. The 9 MTPA pit head coal washery will be implemented within the mining lease area. The coordinate of coal washery is 22°49'58.183"N-82°50'43.360"E, 22°49' 47.649"N-82°50'59.912"E, 22°49'46.325"N-82°50'59.035"E & 22°49'49.305"N - 82°50'38.157"E. A map indicating the location and boundary coordinates is submitted.

3. Plantation will be carried out within the mining lease area during mining period, avenue plantation as part of Public hearing action plan and during mine closure. A budget for the same is as follows:

S. No.	Plantation items	Budget proposed (Rs. Lakhs)
1.	Biological reclamation of mines out land & OB dump Plantation	4942.62
2.	Greenbelt Development in and around mine lease	384
3.	Avenue Plantation in buffer zone villages and Govt. building /Panchayat Office /Community Center.	145
Total		5471.62

4. For water conservation, adoption and maintenance of 4 ponds outside the mining lease area was proposed with a budget of Rs. 85 Lakhs as capital cost. The budget has been enhanced to Rs. 120 Lakhs and Rs. 30 lakhs/year as recurring cost. The updated Pond Conservation Scheme is submitted.
5. Following additional studies have been conducted as part of EIA study :
- **Ecosystem Services:** This study was carried out for assessment of ecosystem services within the project area and to analyse the impact of mining on these services. Remedial restoration options and strategies were also discussed in this report. Copy of the report is submitted and an action plan for implementation of recommendations is submitted.
 - **Carrying capacity:** This report was prepared considering presence of other active coal mines and washery projects in vicinity like Parsa and Parsa East Kanta Basan (PEKB). This study evaluated the existing environmental baseline scenario and potential environmental impacts due to simultaneous operation of all 3 projects. The major finding of the report was that out of the 16 locations where air quality monitoring was carried out, PM₁₀ and PM_{2.5} pollutants at 3 locations may marginally cross the threshold of NAAQS 2009. The report suggested few recommendations and best practices to minimize and mitigate the environmental impact. An action plan based on the suggestions and recommendations of the report has been prepared and submitted along with the EIA report. Further, a copy of this report has also been submitted to Chhattisgarh Environment Conservation Board (CECB) for their comments. Copy of the report is submitted. PP further committed to carry out a third party annual environmental audit for our project and implement the recommendations. Copy of the Audit report and action taken report will also be submitted to IRO, MoEF&CC along with the six-monthly compliance report.
 - **Wildlife Conservation Plan:** Due to presence of 6 Schedule-I species in the core and buffer area, a wildlife conservation plan has been prepared with a budget of Rs. 16.73 Crores, which has been approved by Forest Department Chhattisgarh on 07.12.2021. Copy of the approval letter and conservation plan is submitted.
 - **Hydrology study:** This study was conducted to evaluate the impact of mining on surface water. The study concluded that there will be no significant adverse impact of mining on the hydrology of the area. Copy of the report is submitted.

- **Hydrogeology Study:** This study was carried out in order to evaluate the impact of mining activity on the hydrogeology of the area, prepare a hydrogeological model and study the impact of mining on water quality and nearby water bodies. This report was also submitted to CGWA for grant of NOC. Accordingly after appraisal of this report, NOC has been granted by CGWA on 02.01.2023. Copy of the report has been submitted.

Observation and deliberation of the EAC:

20.6.17: Committee after deliberations noted the following:

1. The instant proposal is a Greenfield project for grant of EC to Kente Extension Opencast Coal Mine & Integrated Washery Project 9 MTPA (Normative)/11 MTPA (Peak) in mine lease area 1760 ha of M/s Rajasthan Rajya Vidyut Utpadan Nigam Limited located in Tehsil Ambikapur, District Surguja, and State: Chhattisgarh. The production capacity for the mine is 9 MTPA (Normative)/11 MTPA (Peak) and capacity for washery is 9 MTPA.
2. Ministry of Coal allotted the said block to the proponent vide letter No. 13016/26/2004-CA-I/CA-III(Pt) (Vol. II) dated: 31.03.2015. Mine Plan and the Mine Closure Plan for the same has been approved by Ministry of Coal vide letter dated 04.06.2021.
3. Life of mine is 33 years.
4. ToR for the project was obtained on 08.01.2020.
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. Project does not fall in the Critically Polluted Area (CPA)/ Severely Polluted Area (SPA), as per CEPI Assessment 2018.
7. It was apprised by the Member Secretary that instant proposal involves 1742.6 Ha of forest land for which requisite Stage I FC under the provisions of Van (Sanrakshan Evam Samvardhan) Adhiniyam, 1980 is yet to be obtained. Further, apprised that as per OM dated 09/09/2011, after the EAC has recommended the project for environmental clearance, it would be processed on file for obtaining decision of the Competent Authority for grant of environmental clearance. In the cases, where the Competent Authority approves the proposal for 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.
8. The project is not located within 10 KM of any notified ESZ/ ESA/ national park/ wildlife sanctuary/ biosphere reserve/ tiger reserve/ tiger corridor etc. However, the PP informed that there is a Lemru Elephant Reserve located within 10 km of the Kente Extension coal block, which was officially notified by the Chhattisgarh Government on October 7, 2021 for the purpose to provide a safe habitat for elephants, reduce conflicts between humans and elephants, and improve wildlife management. Letter from Conservator of Forest (Wildlife) and field Director (Elephant Reserve), Surguja, Ambikapur (CG) is also submitted by the proponent in this regard about its presence within 10 km of the ML boundary.
9. Committee noted that Elephant reserves are notified for the management purpose only without any legal sanctity. Hence, NBWL recommendation in this regard is not required, as Elephant reserves are not recognized under the Wildlife Protection Act.

However, the Committee suggested to seek the comments of Project Elephant Division in this regard.

10. Wildlife Conservation Plan has been approved by the PCCF (Wildlife) Raipur vide letter no 512/176 dated 07/12/2021 with financial provision of Rs. 1673.25 Lakhs. There are total six Schedule – I species found in the study area.
11. Proposal involves diversion of a public road within the ML area. Apart from this, seasonal nallahs are proposed to be diverted. Committee opined that no diversion shall take place without the permission obtained from the competent authority. No ASI protected archaeological site in close proximity to the ML area.
12. Water requirement for the proposed project is 4213 KLD and source of water will be groundwater and mine water. NoC for withdrawal of Groundwater for Mining was obtained from CGWA vide proposal no. CGWA/NOC/MIN/ORIG/2021/10080, dated 02.01.2023, which was valid up to 14.01.2025. Application for its renewal has been submitted by the proponent.
13. Total project cost is proposed to be 234400 Lakhs. The budgetary provision under EMP towards Capital Cost of Environmental Management Plan is of Rs. 3,668.75 Lakhs and Recurring Cost of Rs. 200.72 Lakhs.
14. Committee opined that measures shall be taken to rejuvenate and beautify the ponds in the nearby villages. PP submitted that for water conservation, adoption and maintenance of 4 ponds outside the mining lease area, budget has been enhanced to Rs. 120 lakhs (capital cost) and Rs. 30 lakhs/year (recurring cost). Updated plan for the same has been submitted by the PP.
15. PP collected the baseline data from October 2023 to December 2023. The Committee deliberated on the baseline data and incremental GLC due to the proposed project and observed that AAQ levels are within NAAQS.
16. Committee deliberated on the Public Hearing as well as the action plan submitted by the proponent to address the issues raised during public hearing. The budget envisaged for the same is Rs. 1200 Lakhs.
17. Committee deliberated on the action plan for plantation submitted by the proponent and observed that the total area under plantation including greenbelt will be 1346 ha, out of the total project area of 1760 ha. Committee opined that 3-tier plantation shall be done on both the sides of the roads. Accordingly the budget for plantation shall be increased and a revised action plan shall be submitted. PP submitted the same as part of written submissions.
18. Committee deliberated on the method of transportation of coal proposed by the proponent and observed that there is no road transportation involved. Entire coal is proposed to be transported through dumpers till conveyor belt within the mine pit. Thereafter, transportation of coal is proposed through means of Conveyor belt from the Mine Pit to Surface and to CHP and then to Washery from where the washed coal will be transported by Railway to the end users.
19. Committee deliberated on the carrying capacity study carried out by the proponent. The said report has considered the buffer zone of 10 km from the cluster of Parsa, Parsa East & Kanta Basan (PEKB) & Kente Extension Coal Block as the study area for the proposed carrying capacity study. Committee observed that cumulative PM₁₀ parameters are found to be beyond the prescribed limit and opined that all the recommendations of the carrying capacity report shall be complied by. PP submitted

the action plan for the same.

20. Committee deliberated on the Ecosystem Services Study carried out by the proponent and opined that PP shall submit an action plan for the recommendations of the Ecosystem Services Report, in order to compensate the loss of ecosystem due to proposed mining activities. PP submitted the same and EAC found it to be satisfactory.
21. Committee further deliberated on other additional studies carried out by the proponent. Apart from Ecosystem Services, PP has carried out the study for Carrying Capacity, Wildlife Conservation, Hydrology Study and Hydrogeology Study. Committee opined that PP shall comply by the recommendations of these study reports in a time bound manner.
22. Committee opined that no OB shall be dumped on the forestland.
23. The instant project is a ZLD based coal mine and integrated coal washery project.
24. There are no court cases pending against the proposed the project.
25. The Committee deliberated on the baseline data and incremental GLC due to the proposed project and observed that AAQ levels are within NAAQS.
26. 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.
27. The EAC also deliberated on the written submissions of the project proponent and found it satisfactory.

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

A. Specific Conditions:

1. Project proponent shall submit the Stage –I Forest Clearance (FC) for 1742.6 Ha of forest land under the provisions of Van (Sanrakshan Evam Samvardhan) Adhiniyam, 1980 prior to grant of Environment Clearance.
2. 56 Project Affected Families (PAF) of the 3 villages namely Kente, Basan, Chakeri, Parogiya of Tehsil Udaipur District Surguja, Chhattisgarh will be affected due to the proposed project. The affected families should be rehabilitated as per R & R plan to be 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.
3. Project proponent shall divert seasonal nallahs only after obtaining requisite NoC from the Water Resource Department, Government of Chhattisgarh. Embankment height shall be maintained on both side of nallah. PP shall maintain 50 mts width of embankment all along the diverted stream/nallah and shall carry out dense plantation with fruit bearing native species. The diversion of seasonal nallah shall be monitored by RO and complete report with the drone video and satellite imagery shall be

- submitted to concern Regional Office of MoEF&CC along with the six monthly compliance report.
4. The villages within the ML area are connected by Morrum and non-metal roads. Project proponent shall divert the said roads prior to the commencement of mining operations only after requisite permission from the concerned competent authority.
 5. Project proponent shall submit the following additional study reports along with the matrix containing action plan to comply with the recommendations of the study reports with physical & financial outlay to the concerned Regional Office of the MoEF&CC within 1 month from the date of grant of EC. Compliance to the action plan shall be monitored by the Regional Office.
 - i. Ecosystem Services
 - ii. Carrying capacity
 - iii. Wildlife Conservation Plan
 - iv. Hydrology study
 - v. Hydrogeology Study
 6. As committed by the proponent, entire coal shall be transported through dumpers till conveyor belt within the mine pit. Thereafter, transportation of coal shall be through Conveyor belt from the Mine Pit to Surface and to Coal Handling Plant and then to Coal Washery. 9 MTPA washed coal from washery shall be transported by belt conveyor to silo followed by rail to different end users. Road transportation of coal is not permitted except the coal transportation through dumpers till conveyor belt within the mine pit as committed. 2.025 MTPA rejects from coal washery shall be transported by road and rail.
 7. Greenbelt shall be developed in 6.93 ha which is about 0.39% of the project area, in the safety zone of 12.66 ha which is about 0.71% of the project area. Other than that plantation will be carried out in backfilled area of 1240.73 ha., external dump of 48.06 ha., road and infrastructure area of 5.24 ha., CHP and washery area of 9.318 ha., approach road of 6.75 ha and rationalization area of 16.26 ha. The total area under plantation including greenbelt will be 1346 ha out of the total project area of 1760 ha. In addition to this, Agro forestry shall be encouraged in consultation with the land owners. Further, PP shall provide 50,000 plant saplings with 4 feet tall fruit bearing plants to farmers for plantation in barren and agriculture lands in the study area every year for 5 years with incentive to improve the green cover in and around the mine lease area. Besides, project proponent shall carry out three tier plantation along the coal rejects transportation route. Compliance in this regard shall be submitted along with the six monthly compliance to the concerned Regional Office and also kept on the web portal of the company.
 8. PP shall conduct Carbon Sequestration Study including carbon emissions from coal mining. Compliance status in this regard shall be submitted along with the six monthly compliance to the concerned Regional Office and also kept on the web portal of the company.
 9. The proposed project shall be operated on closed water circuit with a concept of 'Zero Liquid Discharge' (ZLD). 100% water will be recycled and no treated & untreated wastewater shall be discharged outside the boundaries of mine lease area.

10. PP shall carry out a survey of the impact of blasting in the nearby area/villages by involving a reputed institute and take remedial measures as proposed by the respective institute. Further, provide compensation if any for any damage caused. PP must give crop compensation to the farmers in case there is decrease in the production due to the mining activities. Compliance status in this regard shall be submitted along with the six monthly compliance to the concerned Regional Office
11. Quantity of top soil and overburden generation is 5.98 Mcum and 27,670,000 m³ respectively. Management of top soil and overburden shall be as per the approved mining plan. No OB dumping should be done outside the ML area.
12. The proposed budget of Rs 12 Crores for PH action plan shall be kept in a separate account and audited annually. Project proponent shall implement the action plan to address the issues raised during public hearing within a time frame of 5 years from the date of grant of EC. PP shall submit the progress report regarding the implementation of action plan to concerned RO along with the six monthly compliance report. In addition to this, PP shall strengthen the existing Primary Health Center (PHC) & Community Health Center (CHC) in the study area for better public health. As committed by the PP, PHCs & CHCs within the core and buffer zone shall be supported with adequate budget over 5 years, 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.
13. 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. 3668.75 lakhs (Capital) and Rs 200.72 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.
14. To control the production of dust at the source, the crusher and in-pit belt conveyors shall be provided with mist-type sprinklers. PP shall install fixed fog cannon (mist spayer) and fixed sprinkler all along the haul road/ CHP, and OB dump till Railway siding is completed. The sufficient number of fog cannons (not less than 10 nos.) with 40 mts jet length shall be installed within 6 months from the date of commencement of mining operations. It should be ensured that air pollution level confirm to the standards prescribed by the MOEFCC/CPCB. Also PP shall install Mist Cannon Dust Suppression Systems (80-100 mtrs.) at Coal Stock Yard to suppress the dust particles.
15. Raw coal, washed coal and rejects shall be stored in covered storage facility. Fixed-type high pressure sprinkler shall be installed in this storage yards.
16. Check dams shall be constructed at required locations within drains to arrest eroded materials and settling ponds shall be constructed to treat mine discharge water inside the mine block.
17. PP shall carry out water conservation, adoption and maintenance of 4 ponds outside the mining lease area as proposed with a budget of Rs. 120 Lakhs as capital cost and Rs. 30 lakhs/year as recurring cost.
18. PP shall make use of advanced computer simulation techniques for design and execution of blasting operation in the mine. PP shall make use of Electronic Delay

Detonators for optimal blasting in coal and OB rock to minimize the environmental impacts of blasting such as ground vibration, fly rocks and excessive dust generation.

19. PP shall create a “Public Grievance Redressal and Monitoring System” for resolving any issues related to the pollution of mines and complaint has to resolve as soon as possible not beyond 30 days. In this regard, adequate awareness to be spread among the public to address their grievance to company with simple and easy manner and for which company needs to devise the mechanism. The same shall be reported to IRO within 3 months. A logbook to be maintained by PP on “Public Grievance Redressal and Monitoring System.
20. The project proponent shall take all precautionary measures during mining operations for the conservation and protection of endangered fauna, if any, spotted in the study area. Wildlife conservation plan as approved by the competent authority shall be implemented. PP shall deposit the approved amount as proposed for wildlife conservation plan to the Govt. of Chhattisgarh, Forest & Environment Dept. and further consult with State Biodiversity Authority for its CSR activity.
21. 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.
22. The status of mine closure activities must be included in every six months compliance report submitted to the state pollution control board and RO of MoEF&CC.
23. Hon’ble Supreme Court in an Writ Petition(s) Civil No. 114/2014, Common Cause vs Union of India &Ors vide its judgement dated 8th January, 2020 has directed the Union of India to impose a condition in the mining lease and a similar condition in the environmental clearance and the mining plan to the effect that the mining lease holders shall, after ceasing mining operations, undertake re-grassing the mining area and any other area which may have been disturbed due to their mining activities and restore the land to a condition which is fit for growth of fodder, flora, fauna etc. Compliance of this condition after the mining activity is over at the cost of the mining lease holders/Project Proponent”. The implementation report of the above said condition shall be sent to the Regional Office of the MoEF&CC.
24. 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.
25. PP shall ensure that all types of plastic waste generated from the plant shall be stored separately in isolated area and disposed of strictly adhering to the Plastic Waste Management Rules 2016 (as amended). In pursuant to the Ministry’s OM dated 18/07/2022. PP shall also create awareness among the people working in the project area as well as in its surrounding area on the ban on Single Use Plastic (SUP) in order to ensure compliance of Ministry’s Notification published by the Ministry on 12/08/2021. A report along with photograph on the measures taken shall also be included in the six monthly compliance report being submitted by PP.
26. Four numbers of Continuous Ambient Air Quality monitoring system shall be set up to monitor common/criteria pollutants such as PM₁₀, PM_{2.5}, SO₂, NO_x within the lease

area in consultation with concerned SPCB. The monitoring of other locations (at least three locations outside the lease area covering upwind and downwind directions at an angle of 120° each) shall be carried out manually.

27. Total water requirement for the proposed project is 4213 KLD day and the same shall be met from groundwater and mine water. PP shall obtain requisite NoC for withdrawal of Groundwater from CGWA prior to the commencement of mining operations.
28. Project proponent is advised to implement the 'Ek Ped Maa Ke Naam' Campaign which was launched on 5th June 2024 on the occasion of the World Environment Day to increase the forest cover across the Country. This plantation drive is other than Green belt development. The action in this regard shall be submitted concerned RO in six monthly report.

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. The project proponent shall obtain clearance from the National Board for Wildlife, if applicable.
- iii. 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.
- iv. The maximum production or peak production at any given time shall not exceed the limit as prescribed in the EC.
- v. Validity of EC is as per life of the mine mentioned in EC letter or 30 years as per EIA Notification, 2006 and its amendments therein.

2. Air Quality Monitoring and Mitigation Measures

- i. Project proponent shall obtain requisite consent from State Pollution Control Board for 9 MTPA (peak capacity 11 MTPA) coal mining and proposed 9 MTPA pit head coal washery.
- ii. Adequate ambient air quality monitoring stations shall be established in the core zone as well as in the buffer zone for monitoring of pollutants, namely particulates, SO₂ and NO_x. 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.
- iii. The Ambient Air Quality monitoring in the core zone shall be carried out to ensure the Coal Industry Standards notified vide GSR 742 (E) dated 25th September, 2000 and as amended from time to time by the Central Pollution Control Board. Data on ambient air quality and heavy metals such as Hg, As, Ni, Cd, Cr and other monitoring data shall be regularly reported to the Ministry/Regional Office and to the CPCB/SPCB.
- iv. Effective control measures such as regular water sprinkling/rain gun/ Fog cannon /mist sprinkling etc., shall be carried out in critical areas prone to air pollution with higher level of particulate matter all through the coal transport roads, loading/unloading and transfer points. Fugitive dust emissions from all sources shall be controlled regularly.

- It shall be ensured that the ambient air quality parameters conform to the norms prescribed by the Central/State Pollution Control Board.
- v. Major approach roads shall be black topped and properly maintained.
 - vi. Vehicular emissions shall be kept under control and regularly monitored. All the vehicles engaged in mining and allied activities shall operate only after obtaining 'PUC' certificate from the authorized pollution testing centres.
 - vii. PP should Install Wind breaker/shield arrangement along the railway siding for reducing the dust propagation in upwind direction.
 - viii. The raw coal, washed coal and coal wastes (rejects) shall be stacked properly at earmarked site (s) within stockyards fitted with wind breakers/shields. Adequate measures shall be taken to ensure that the stored mineral does not catch fire
 - ix. PP shall submit an action plan for using and developing Renewable Energy for its consumption in its utilities/machinery/equipment instead of using electricity from Grid/generated from Thermal Power Plants. PP shall Install additional solar power generation units

3. Water Quality Monitoring and Mitigation Measures

- i. The effluent discharge (mine waste water, workshop effluent) shall be monitored in terms of the parameters notified under the Water Act, 1974 Coal Industry Standards vide GSR 742 (E) dated 25th September, 2000 and as amended from time to time by the Central Pollution Control Board.
- ii. The monitoring data shall be uploaded on the company's website and displayed at the project site at a suitable location. The circular No.J-20012/1/2006-1A.11 (M) dated 27th May, 2009 issued by Ministry of Environment, Forest and Climate Change shall also be referred in this regard for its compliance.
- iii. The project proponent shall not alter major water channels around the site. Appropriate embankment shall be provided along the side of the river/nallah flowing near or adjacent to the 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.
- iv. Garland drains (of suitable size, gradient and length) around the critical areas i.e. mine shaft and low lying areas, 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
- v. The water pumped out from the mine, after siltation, shall be utilized for industrial purpose viz. watering the mine area, roads, green belt development etc. The drains shall be regularly desilted particularly after monsoon and maintained properly
- vi. Industrial wastewater from coal handling plant and mine water shall be properly collected and treated so as to conform to the standards prescribed under the Environment (Protection) Act, 1986 and the Rules made thereunder, and as amended from time to time. Oil and grease trap shall be installed before discharge of workshop effluent. Sewage treatment plant (STP) of adequate capacity shall be installed for treatment of domestic wastewater.

- vii. An integrated surface drainage plan including surface water conservation plan for the area of influence affected by the said mining operations and coal washery shall be prepared, considering the presence of any river/rivulet/pond/lake etc., with impact of mining activities on it, and implemented by the project proponent. The surface drainage plan and/or any diversion of natural water courses shall be as per the provisions of the approved Mining Plan/ EIA-EMP submitted to this Ministry and the same should be done with due approval of the concerned State/GoI Authority. The construction of embankment to prevent any danger against inrush of surface water into the mine should be as per the approved mining plan and as per the permission of DGMS.
- viii. 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.
- ix. Construction of Sewage Treatment Plant (STP)/Effluent treatment Plant (ETP) with latest technology should be completed within 2 years and treated water shall be reused for plantation.

4. Noise and Vibration Monitoring and Prevention

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

5. Mining Plan

- i. Project proponent shall obtain star rating as per the guidelines of Ministry of Coal.
- ii. Mining shall be carried out under strict adherence to provisions of the Mines Act 1952 and subordinate legislations made there-under as applicable.
- iii. No change in mining method, calendar programme and scope of work shall be made without obtaining prior approval of the Ministry of Environment, Forest and Climate Change (MoEF&CC).
- iv. 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 circulars issued by Directorate General Mines Safety (DGMS).
- v. Environmental conditions of mining place shall be rendered ergonomic and air breathable with adequate illumination in conformance with DGMS standards.
- vi. No mining shall be carried out in forest land without obtaining Forestry Clearance as per Forest (Conservation) Act, 1980 and also adhering to the Scheduled Tribes and Other Traditional Forest Dwellers (Recognition of Forest Rights) Act, 2006 read with provisions of Indian Forest Act, 1927.

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) from time to time shall be submitted to MOEFCC/Regional Office (RO).
- ii. Post-mining land be rendered usable for agricultural/forestry purposes and shall be handed over to the respective State Government, as specified in the Guidelines for Preparation of Mine Closure Plan, issued by the Ministry of Coal dated 27th August, 2009 and subsequent amendments.
- iii. The final mine void depth should preferably be as per the approved Mine Closure Plan, and in case it exceeds 40 m, adequate engineering interventions shall be provided for sustenance of aquatic life therein. The remaining area shall be backfilled and covered with thick and alive top soil. Post-mining land be rendered usable for agricultural/forestry purposes and shall be diverted. Further action will be treated as specified in the guidelines for Preparation of Mine Closure Plan issued by the Ministry of Coal dated 27th August, 2009 and subsequent amendments.
- iv. The entire excavated area, backfilling, external OB dumping (including top soil) and afforestation plan shall be in conformity with the “during mining”/“post mining” land-use pattern, which is an integral part of the approved Mining Plan and the EIA/EMP submitted to this Ministry. Progressive compliance status vis-a-vis the post mining land use pattern shall be submitted to the MOEFCC/RO.
- v. Further, it may be ensured that as per the time schedule specified in mine closure plan it should remain live till the point of utilization. The topsoil shall temporarily be stored at earmarked site(s) only and shall not be kept unutilized. 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.
- vi. 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.

7. Public Hearing and Human Health Issues:

- i. Adequate illumination shall be ensured in all mine locations & coal washery (as per DGMS standards) and monitored.
- ii. The project proponent shall undertake occupational health survey for initial and periodical medical examination of the personnel engaged in the project and maintain records accordingly as per the provisions of the Mines Rules, 1955 and DGMS circulars. Besides regular periodic health check-up, 20% of the personnel identified from workforce engaged in active mining operations shall be subjected to health check-

- up for occupational diseases and hearing impairment, if any, as amended time to time
- iii. 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.
 - iv. 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.
 - v. Effective arrangement shall be made to provide and maintain at suitable points conveniently situated, a sufficient supply of drinking water for all the persons employed.
 - vi. The project proponent shall follow the mitigation measures provided in this Ministry's OM No.Z11013/5712014-IA.II (M) dated 29th October, 2014, titled 'Impact of mining activities on habitations-issues related to the mining projects wherein habitations and villages are the part of mine lease areas or habitations and villages are surrounded by the mine lease area'.
 - vii. PP should conduct epidemiology study for analysis of the distribution, patterns and determinants of health and disease conditions in defined populations.

8. Corporate Environment Responsibility:

- 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 and/or shareholders/stake holders
- ii. A separate Environmental Cell both at the project and company head quarter level, with qualified personnel shall be set up under the control of senior Executive, who will directly 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.
- iv. Self-environmental audit shall be conducted annually. Every three years third party environmental audit shall be carried out.

9. Miscellaneous:

- i. The project proponent shall make public the environmental clearance granted for their project along with the environmental conditions and safeguards at their cost by prominently advertising it at least in two local newspapers of the District or State, of which one shall be in the vernacular language within seven days and in addition this shall also be displayed in the project proponent's 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 environment clearance portal.
 - v. 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.
 - vi. The project authorities shall inform to the Regional Office of the MOEFCC regarding commencement of mining operations.
 - vii. The project authorities must strictly adhere to the stipulations made by the State Pollution Control Board and the State Government.
 - viii. 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.
 - ix. No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment, Forests and Climate Change (MoEF&CC).
 - x. 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.
 - xi. The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.
 - xii. The Ministry reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.
 - xiii. 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
 - xiv. 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 No. 20.7

20.7: Expansion of Suliyari Coal Mine (in existing area of 1298 Ha having expansion in capacity from 5.0 MTPA to 6.0 MTPA in Phase-I of 20% expansion) by M/s AP Mineral Development Corporation, located at Villages: Belwar, Bijauri, Dhirali, Dongri, Jhalri, Majholipath, Mohanban, Phatpaani; District: Singrauli; State: Madhya Pradesh – Environment Clearance for 20 % expansion as per the provisions of Ministry’s OM dated 11/04/2022 based on ADS reply -reg.

[Online Proposal No. IA/MP/CMIN/496827/2024; Consultant: VARDAN ENVIRONET, NABET/EIA/2326/RA 0284, valid up to 04.05.2026]

20.7.1: M/s. Andhra Pradesh Mineral Development Corporation Limited (APMDC) has made an online application vide proposal no. IA/MP/CMIN/496827/2024 dated 08.11.2024 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 capacity enhancement from 5.0 MTPA to 6.0 MTPA for first phase of 20% as per the MoEF&CC O.M. dated 11/04/2022. The proposed project activity is listed at schedule no. 1(a)(i)-Mining of Minerals with Coal Under Category “A” of the schedule of the EIA Notification, 2006 and being appraised at Central Level.

The project of M/s. Andhra Pradesh Mineral Development Corporation Limited (APMDC) is a brownfield project or expansion in production capacity from 5 MTPA to 6 MTPA (20% expansion) as per the provisions of Ministry’s OM dated 11/04/2022, in the existing ML area of 1298 Ha. The project is located at Villages: Belwar, Bijauri, Dhirali, Dongri, Jhalri, Majholipath, Mohanban, Phatpaani; District: Singrauli; State: Madhya Pradesh. The project was earlier appraised in the 18th EAC meeting held on 27th November 2024, wherein the project was deferred for additional information. PP submitted the additional information sought on 17.12.2024. Now the project is placed in the 20th EAC meeting held during 20-23rd January 2025 for consideration.

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

20.7.2: Details of Previous Approvals in chronological orders:

Sl. No	Details of Letter No.	EC/Expansion EC/Amendment in EC/Validity extension/Transfer of EC	Capacity	Area (Ha.)	Status of implementation
1.	J-11015/35/2018-IA. II(M) dated 12.04.2021	Environmental Clearance	5.0	1298	Implemented

20.7.3: Production details of the existing EC: W.r.t the previous approval, PP submitted the actual production details of the concerned mine and submitted that the mine became operational from September 2021 and coal production was started in March 2022 onwards. CTO renewal has been obtained from the SPCB vide consent no. AW-61494 dated 04.01.2025 which is valid up to 31.12.2025.

Details of the coal production are as follows:

Year	Actual Production in MTPA	Planned Coal production in MTPA as per Environmental Clearance	Excess Production
2021-22	0.02	5.0	-
2022-23	1.94	5.0	-
2023-24	5.00	5.0	-

20.7.4: Certified Compliance Report: PP submitted that the status of compliance of earlier EC was obtained from Regional Office, Bhopal vide letter no. 3-3/2021(Env) Dated 04.07.2024 in the name of M/s. Andhra Pradesh Mineral Development Corporation Limited (APMDC). The Action taken report regarding the partially condition was submitted to Regional officer, Bhopal MoEF&CC, vide letter no. APMDC/SCM/ENV/2024-25/444 dated 09.09.2024. Regional officer, MoEF&CC (RO), Bhopal evaluated the same and has issued letter File No. 3-3/2021(Env) dated 28.10.2024.

As per the CCR dated 04.07.2024, it is observed that, out of 106 conditions, 54 conditions were observed to be complied, 5 conditions were not applicable to the proponent, 29 conditions were partly complied, 1 condition was noted, 1 condition is complied subject to needful amendment in EC and 16 conditions were agreed to comply. Apart from this there were 12 general observations in the same CCR. RO Bhopal vide letter File No. 3-3/2021(Env) dated 28.10.2024, further issued a Report on the Action Taken Report submitted by the PP on 09.09.2024 vide letter no. APMDC/SCM/ENV/2024-25/444.

As such there are no non-compliances/partial compliances reported by the RO. A Revised Action Taken Report as per the current site status on the recommendation of the EAC meeting held on 27.12.2024, has been submitted to IRO, Bhopal vide letter no. APMDC/SUL/EC/2024-25/629 dated 05.12.2024. IRO, Bhopal submitted the revised report on 17.12.2024. Details of the same are as follows:

S. No.	Details of the EC and the condition	Condition as per EC	Certified compliance reported by MoEF &CC RO, Bhopal vide letter dated 28.10.2024	Updated information/Current status by the Project Proponent as on Date 05.12.2024	Remarks/Recommendations of RO, MoEF&CC on ATR
1	EC dated 12.04.2021; Specific Condition no.	Mitigating measures shall be undertaken to control dust, another fugitive emission	17 nos. Sprinklers are installed in the mineral handling and stack	Complied With A Mechanized sweeping machine has been deployed for sweeping Sufficient numbers (24 nos., of water tankers of multiple capacities-5 KL (11 nos.), 12 KL (3 nos.), 15 kl. (3 nos.), 18 kl. (4 nos.), 20 kL (1 no.), 22 kl. (1 no.) & 25 kL (1 no.)) of high- pressure water tanker are deployed for water sprinkling/mist spraying on haul reads and loading sites. Long range misting/fogging arrangement, wind barrier	Being Complied Tankers are deputed for dust suppression on roads, haul roads and loading sites.

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	viii	all along the roads by providing sufficient fixed type water sprinklers. Adequate connective measures shall be undertaken to control dust emissions, which would include mechanized sweeping, water sprinkling/mist spraying on haul roads and loading sites, long range misting/fogging arrangement, wind barrier wall and vertical greenery system, green belt, dust suppression arrangement	yard area for dust suppression Complied	wall, green belt development and dust suppression arrangement at loading and unloading points have been taken for prevention of dust emission and fugitive emission. Additional 7 nos. (total 17 nos.) of sprinklers are installed in the coal stockyard area, covering stockyard area of 10 ha to suppress the dust. Each jet sprinkler covers an avg. radius of 16 meters for water sprinkling. 360 degrees around its sprinkling area. Thus, covering a handling area of about 137 ha around coal stockyard of 10 ha which was earmarked as per the mining plan Photographs are submitted.	Mobile misting/fogging vehicles are deployed for dust suppression in mineral stack yard, OB dump tipping area and other material handling areas Wind barriers are provided around mineral stackyard. Part of the greenbelt was developed around the mine boundary. On western boundary, greenbelt is being developed. As per the In view of site observations, details provided by PP, the status of the condition is considered as being complied.

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		nt at loading and unloading points, etc			
2	EC dated 12.04.2021; Specific Condition no. xv	Active OB Dump should not be kept barren/open and should be covered by temporary grass to avoid air borne of particles	Grass is evident on the OB dump situated at south western side. Further, the active dump located at Northern side, is being rehandled to dump in mined out area as per the approved mine plan. Complied	Complied with Mine development has been started in the year 2022 and OB dump of approx. 24.48 MCum in an area of 89.73 ha, with the height of 72 meters and angle of repose 37 degrees lies in the ML area. Dump is consolidated during the process of tipping and dumping Then, grass seedings were spread over the face of the dumps. However, this dump is temporary in nature and its being rehandled for backfilling in the mined-out pit area situated in the Southern part of the ML. Area. The OB dump, which is static in nature, is fully covered with grass. The geo-tagged photographs are The entire OB material is expected to be backfilled in 2 years.	Complied Grass is visible on the slopes of Over Burden Dumps located South-western side of the mine lease and the temporary dump at Northern side of the mines, is proposed to be rehandled for backfilling in the mined-out pit within a period of two years. Considering the volume of handling during dump rehandling, dust suppression measures further strengthened on the leading internal roads connecting to mined out pit. Further, it is recommended so expedite backfilling the mine out pit So that, the

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					reclamation of the area can be initiated in the next mining plan/scheme period.
3	EC dated 12.04.2021; Specific Condition no. xvi	Project proponent to plant 150,000 nos. of native trees with broad leaves along the transportation route in three years to prevent the effect of air pollution. After completion of tree plantation, the number of trees shall be duly endorsed from District Forest Officer.	PP has been consulted with DFO for plantation along the coal transportation corridor outside lease area. Proposal from the DFO is yet to be received. Further, along the periphery of the lease area, specifically western border plantation is being	<p>Being Complied</p> <p>Transport route (PMGSY Road) within ML area is laid on coal-bearing zone. Therefore, it is decided to detour the road within this Mine Plan's period. The tender has been floated by MPRRDA (documentary evidence submitted)</p> <p>Plantation is planned in complete stretch of this new road with a total number crossing 1,50,000. It will be carried out in two phases: in Phase 1 till September 2025, more than 50,000 saplings will be planted and in Phase 2 till March 2026, the marked plantation target shall be achieved.</p> <p>Presently 1,00,200 number of trees are planted in and around the Mine Lease area that play a significant role in preventing the effects of air pollution.</p> <p>It is to be noted that the transportation route covering from outside the lease area up to the Gajra Bahra railway siding with approx 15 km lead length is also being planned to be afforested on both sides with gapped plantation in consultation with DFO (Singrauli, M.P.) for which an updated proposal has been sought for such gap-plantation along the coal transportation route vide letter no. APMDC/SUL/ENV/2024- 25/608 by APMDC Ltd. dt. 29.11.2024 (documentary evidence submitted)</p> <p>Mine Surface plan submitted.</p>	<p>Compliance is in progress</p> <p>As per the details furnished by PP, plantation along the transportation route after detouring the PMOSY road within the lease area and road connected to railway siding for which consultation of Divisional Forest Officer is yet to be received. However, award of tender for construction of new road within the area along periphery, shows the advanced stage. However, it is recommended to complete the plantation, at least a row, on</p>

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			<p>carried out in area of 4.35 ha. The existing PMGS Y road within the lease area needs to be shifted/detoured in the next scheme period (within a year).</p> <p>Being Complied</p>		<p>the both sides of the proposed new road route, i.e, need not to be waited till the completion of road construction.</p>
4	EC dated 12.04.2021; Specific Condition no. xvii	Commitment made during public consultation process shall be adhered to. The proposed amount earmarked for CER activities shall be considered as part of the Environme	Complied	<p>Complied with</p> <p>Commitments made during public consultation shall be adhered to and are in the continuous process of implementation.</p> <p>- APMDC has deposited 100% of the amount for acquiring private lands to District Administration which is being continuously disbursed (deposition proof attached as Annexure-5).</p> <p>- 202 nos. people have been directly employed till date based on eligibility. It is a continuous process, and more employment will be generated in due course of time. Apart from this, indirect employment is also done to facilitate various requirements of the project that gives extensive exposure for on- ground works to the recruited persons.</p>	<p>Being Complied</p> <p>The details furnished by PP, component wise activities in Environmental Management Plan (EMP), shows the status of compliance of the conditions.</p>

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		nt Management Plan, which shall be accomplished within a period of 5 years.		<p>-Plantation is under progress. Target plantation of 17.6 lakh trees shall be done in a suitable manner. An Action Plan for the same has been given to IRO dt. 24.07.2024 (copy submitted)</p> <p>-Grass seeding has been done on OB dump and temporary grass has also been grown on a portion of it.</p> <p>- RO plant has been installed in R&R colony as per the community's requirement (proof submitted).</p> <p>- Wildlife Conservation Plan is prepared with an estimated cost Rs 35.45 crores Approved by Chief Wildlife Warden, cum PCCF (WL), MP vide letter No. क्रमांक/व.प्र/माचि/ 6538 dated 16.09.2019. The amount for implementation of Wildlife Conservation Plan has been deposited in MP CAMPA account (dated 12.01.2021) (proof submitted).</p> <p>A letter to DFO has been sent dt. 24.07.2024 regarding the funds accounting and status of afforestation (copy submitted). Status from Forest department are to be received.</p> <p>- Total amount incurred in CER amounts to 35.06 crores instead of 11.54 crores as proposed in approved EIA/EMP report that incorporates Hospital Building, Water Treatment Plant, Roads, etc. A complete description has been provided.</p>	
5	EC dated 12.04.2021; Specific Condition no. xxi	Proponent shall appoint an Occupational Health Specialist for Regular and Periodical medical examination of the workers engaged in the Project and	Being Complied	<p>Being Complied</p> <p>An Occupational Health Specialist for Regular and Periodical medical examination of the workers has already been engaged in the Project. Moreover, CIMFR is conducting the related study for ensuring good occupational environment for mine workers, and the report will be shared after subsequent completion of the same. Documentary evidence submitted. Report will be received within 2-3 Months from CIMFR.</p>	<p>Being Complied</p> <p>CIMFR has been engaged to conduct study related to occupational health vide Service Order dated 07.10.2024. As per the records, occupational health</p>

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		maintain records, accordingly, also, Occupational health check-ups for workers having some ailments like BP, diabetes, habitual smoking, etc. shall be undertaken once in six months and necessary remedial/preventive measures taken accordingly. The recommendations of National Institute for ensuring good occupational environment for workers shall be implemented. The prevention			specialist has been appointed.

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		measure for bums, malaria and provision of anti-snake venom including all other paramedical safeguards may be ensured before initiating the mining activities			
6	EC dated 12.04.2021; Specific Condition no. xxii	Project Proponent shall follow the mitigation measures provided Memorandum Office No. 11013/57/2014-IA.II (M), dated 29th October, 2014, titled "Impact of mining activities on Habitations Issues related to the mining Projects wherein	The mine developer, M/s ADANI Natural Resources Ltd, acquired adjoining mines. Coal Handling Plant (CHP) which includes conveyor and handling facility for	Complied With Coal transportation is being done through tarpaulin covered trucks. Further, APMDC has also requested Ministry of Coal to facilitate in developing rail connectivity in co-ordination with Ministry of Railways & Coal block allottees (Captive/Commercial) as proposed in their Integrated Coal Logistic Plan. Construction of CHP was delayed due to land acquisition issues, which have been now resolved. It can also be noted that there are other coal blocks (viz. Dongri-Tal 11, Dhirauli, etc.) in the vicinity of Suliyari coal mine, which were allotted to different companies, which may also require railway connectivity. Therefore, once the process of allocation of Dongri-II coal block is completed and project development commences, APMDC would undertake the work of railway siding.	Being Complied It reported that the construction of CHP will be completed within a year. Due to which the impacts of mining activity/transportation on habitations will be minimal.

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		Habitations and villages are the part of mine lease areas or Habitations and villages are surrounded by the mine lease area".	Suliyari Mines of APMD C, is proposed Coal transportation through CHP will minimize air and noise pollution. Being Complied		
7	EC dated 12.04.2021; Specific Condition no. xxiv	The project proponent shall take all precautionary measures during mining operation for conservation and protection of endangered fauna, if any spotted in the study area. Action plan for conservati	PP submitted a wildlife conservation plan and deposited the amount in MP CAMP A and the same was informed to DFO. The plan is	Complied With Wildlife Conservation Plan is prepared with an estimated cost Rs 35.45 crores Approved by Chief Wildlife Warden, cum PCCF (WL), MP vide letter No. क्रमांक/व.प्रा./माचि/ 6538 dated 16.09.2019. The amount for implementation of Wildlife Conservation Plan has been deposited in MP CAMPA account (dated 12.01.2021) (proof submitted). To procure the information about the funds deposited to the Forest Department, a letter to DFO is sent on 24.07.2024 regarding the funds accounting and status of afforestation (copy attached as Annexure-9) and as soon as the PP receives the same, it'll be shared to Regional Office of MoEF&CC. A copy of Wildlife Conservation Plan is submitted	Complied As per the records, the wildlife conservation plan has been prepared and funds for the implementation of the same has been deposited in MP CAMPA account Approved Wildlife Conservation plan has been submitted to this office, RO Bhopal. State Forest

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		<p>on of flora and fauna shall be implemented in consultation with the State Forest and Wildlife Department. A copy of action plan shall be submitted to the Ministry of Environment, Forest and Climate Change and its Regional Office.</p>	<p>being implemented by MP State Forest Department.</p> <p>Complied</p>		<p>Department is implementing the plan</p>
8	<p>EC dated 12.04.2021; Specific Condition no. xxvi</p>	<p>The Project Proponent shall undertake the plantation in peripheral zone as given in the EIA/EMP report with at least 90% survival rate and complete the entire</p>	<p>Mining Operations were started in the year 2021 and production was started in August 2021.</p> <p>Complied</p>	<p>Being Complied</p> <p>More than 1300 trees have been planted in the peripheral zone. Fencing is essential for safety of planted saplings, which is in continuous progress in a phase-wise manner. Land possession is in process with help of District Administration for hindrance-free fencing and subsequent plantation of the same. Peripheral Zone plantation is planned to be carried out in 2 phases: In the first phase (FY 2024-25), approx. 8.10 km of the zone shall be planted along the eastern boundary of the ML Area & in the next phase (FY 2025-26), approx. 6.11 km of the zone shall be planted along the western boundary of the ML Area, with native trees to ensure the overall coverage of the peripheral zone. Moreover, an Action Plan for safety-zone plantation had been sent over to IRO, MoEF&CC dt. 24.07.2024 (copy submitted)</p>	<p>Compliance is in progress</p> <p>Mining operations were started on 23.08.2021 after appointment of MDO. Some part of the area on the periphery of the Western boundary is yet to be in process of acquisition. As per the mining plan, the plantation</p>

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		plantation within 3 years from the date of start of mining operations.			programme is in compliance for the 5 year plan period. The entire plantation all along the periphery, has not been completed within the stipulated time period of 3 years.																					
9	EC dated 12.04.2021; Specific Condition no. xxxi	PP shall plant 200 ha of Sal trees (only) and create a nursery of 5 ha to distribute the species freely in the region for redevelopment of Sal forest in the region.	Photo of nursery is enclosed as attachment. Complied	Complied With More than 20,400 Sal trees have been planted. Action Plan for plantation has been sent over to IRO, MoEF&CC dt. 24.07.2024 (copy attached as Annexure-6, 6A & 6B) The Nursery is set-up currently in an area of 2.5 ha. It's extension has been started and will be conducted phase-wise with 20% enhancement in each phase (photograph enclosed in Annexure - 12). Sal plantation will be done over 200 ha due course of mining area enhancement and subsequent backfilling. Stage wise cumulative plantation plan as per approved Mine plan given below in table: <table border="1"> <thead> <tr> <th>Year</th> <th>Greenbelt</th> <th>External Dump</th> <th>Quarry Benches</th> <th>Back filled Area</th> <th>Others (Undisturbed area etc.)</th> <th>Total</th> </tr> </thead> <tbody> <tr> <td>1st year</td> <td>2.90</td> <td>-</td> <td>-</td> <td>-</td> <td>3.450</td> <td>3.450</td> </tr> <tr> <td>2nd to 5th year</td> <td>-</td> <td>-</td> <td>-</td> <td>69.00</td> <td>28.664</td> <td>97.664</td> </tr> </tbody> </table>	Year	Greenbelt	External Dump	Quarry Benches	Back filled Area	Others (Undisturbed area etc.)	Total	1 st year	2.90	-	-	-	3.450	3.450	2 nd to 5 th year	-	-	-	69.00	28.664	97.664	Being Complied Sal plantation has been taken up and the action plan for the same is submitted to this office. Nursery has been developed. Stage wise afforestation plan was given. It is recommended to plant 500,000 Saal trees at the end reclamation and afforestation.
Year	Greenbelt	External Dump	Quarry Benches	Back filled Area	Others (Undisturbed area etc.)	Total																				
1 st year	2.90	-	-	-	3.450	3.450																				
2 nd to 5 th year	-	-	-	69.00	28.664	97.664																				

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				r						
				6 th to 10 th year	-	-	-	127.654	20.529	148.143
				11 th to 15 th year	-	-	-	127.654	-	127.654
				16 th to 20 th year	-	-	3.500	127.654	-	131.154
				21 st to 22 nd year (End of mine life)	-	-	6.850	127.654	-	134.504
				Post mining	-	-	3.428	58.593	-	62.021

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				To	2.90	0.00	13.778	638.209	52.643	704.630	
10	EC dated 12.04.2021; Specific Condition no. xxxii	Prior green belt of at least 10-20 m width shall be developed in more than 40% of the total project area, mainly along the plant/mine periphery, in downward wind direction, and along road sides, etc. Selection of plant species shall be as per the CPCB guidelines in consultation with the State Forest Department.	Complied It is reported that total mine lease is 1298 ha. Out of which approx. 50 ha is non-mineral bearing area. Therefore, scheme/phase wise mining along with progressive mine closure and corresponding back	Complied With Greenbelt consisting of total plantation of 1,00,200 has been set up at present. Plantation detail of 1,00,200 nos., and an action Plan for plantation along the mine periphery, etc. has also been sent over to IRO, MoEF&CC dt. 24.07.2024 (copy submitted).						Compliance is in progress Plantation in 40% of the total project area is not feasible., as the mineral bearing area is approx. 1100 ha, based on which the Mining Plan was prepared and the same was approved by MoC along with progressive mine closure plan. About, 10.6 ha area is earmarked for safety zone plantation as part of green belt development, as per approved mining plan. Accordingly, the plantation programme is planned till	

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			filling of mined out area and afforestation is being carried out. Accordingly, 704 ha area will be afforested at the end of the mining period. PP submitted phase wise plantation programme.		<p>2028. Based on which the EC dated 2021 was granted.</p> <p>Now, upon the observation/ recommendation of RO Bhopal, plantation programme in the safety zone has been revised and it is proposed to complete in the 2026 in the same, 10.6 ha, i.e., in the mining plan period of 5 years.</p> <p>However, the cumulative plantation area which is to be covered in an area of 106.98 ha in the mining plan period including backfilled area, safety zone and other proposed areas. Now, considering the revised safety zone plantation area (till 2026), plantation area is increased to 112.27 ha.</p>

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					Accordingly, plantation programme may be expedited. On the Eastern boundary, plantation is being continued. Pending acquisition of land in the western boundary, the plantation is yet to be started.
11	EC dated 12.04.2021; Specific Condition no. xxxiii	In addition, the project proponent shall develop greenbelt outside the plant premises such as avenue plantation, plantation in vacant areas, social forestry, etc.	Complied	Complied With Nearly 1000-2000 saplings are being distributed per month for plantation in R&R Colony to enhance its greenbelt area. Since R&R area is in continuous stage of construction and development, the plantation is expected to be complete in a time period, coterminous with the R&R colony development.	Being Complied Greenbelt/afforestation has been carried out in R&R colony. However, it is recommended to explore the possibility of plantation in the fringe areas of the project, degraded forest areas, plantation along the village roads etc.,
12	EC dated 12.04.2021; Specific	Peripheral Green development inside R&R	Complied	Complied With Nearly 1000-2000 saplings are being distributed per month for plantation in R&R Colony to enhance its greenbelt area. Since R&R area is in continuous stage	Complied

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	Condition no. xxxvi	colony and Project Township shall be developed Only 60t dumper for coal transportation to reduce number trucks and 100t/150t dumper for OB handling shall be used till the development of railway siding (5years).		of construction and development, the plantation is expected to be complete in a time period, coterminous with the R&R colony development.	
13	EC dated 12.04.2021; Specific Condition no. xxxvii	Ultra-Sonic Flow Meter shall be installed for measuring of quantity of effluent in ETP and STP. Continuous online monitoring system (24x7) shall be installed for measuring effluent quality and	Complied	Complied With Ultra-Sonic Flow Meter has been installed at ETP. Photographs and Documentary evidence on the same is submitted.	Complied

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		same shall be connected to SPCB website.			
14	EC dated 12.04.2021; Standard EC conditions- (a) Statutory Compliance (iii)	The project proponent shall prepare a Site Specific Conservation Plan/Wildlife Management Plan and approved by the Chief Wildlife Warden. The recommendations of the approved Site-Specific Conservation Plan/Wildlife Management Plan shall be implemented in consultation with the Department. State Forest The implementation	Wildlife Conservation Plan is in place and funds were deposited in MP CAMP A. The State Government is implementing it in accordance with the plan. Complied	Complied With Wildlife Conservation Plan is prepared with an estimated cost Rs 35.45 crores Approved by Chief Wildlife Warden, cum PCCF (WL), MP vide letter No. क्रमांक/व.प्रा./माचि/ 6538 dated 16.09.2019. The amount for implementation of Wildlife Conservation Plan has been deposited in MP CAMPA account (dated 12.01.2021) (proof attached as Annexures -8.1 & 8.2). To procure the information about the funds deposited to the Forest Department, a letter to DFO is sent on 24.07.2024 regarding the funds accounting and status of afforestation (copy attached as Annexure-9) and as soon as the PP receives the same, it'll be shared to Regional Office of MoEF&CC A copy of Wildlife Conservation Plan is submitted	Complied Wildlife Conservation Plan is in place. Funds have been deposited in the MP CAMPA account. Wildlife Conservation is being implemented.

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		report shall be furnished along with the six-monthly compliance report (in case of the presence of schedule- I species in the study area).			
15	EC dated 12.04.2021; Standard EC conditions- (b) Air Quality Monitoring and Preservation (i)	Continuous ambient air quality monitoring stations as prescribed in the statute be established in the core zone as well as in the buffer zone for monitoring of pollutants, namely PM10, PM2.5, SO2 and NOx. Location of the stations shall be decided based on the meteorological data,	Complied	<p>Complied With</p> <p>Continuous ambient air quality monitoring stations as prescribed in the statute is established in the core zone as well as in the buffer zone for monitoring of pollutants and location established as per approved EIA/EMP monitoring schedule on the basis of wind rose diagram.</p> <p>Heavy metals monitoring reports, a summary of the same for August 2024 month is given in a copy of the report attached as Annexure 14. The same will continue to be shared in six-monthly compliance reports. Additional CAAQMS has been ordered for installment</p> <p>Documentary evidence for CAAQMS is submitted</p>	Complied

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		<p>topographical features and environmentally and ecologically sensitive targets in consultation with the State Pollution Control Board. Online ambient air quality monitoring stations may also be installed in addition to the regular monitoring stations as per the requirement and/or in consultation with the SPCB. Monitoring of heavy metals such as Hg, As, Ni, Cd, Cr, etc. to be carried out at least once in six months.</p>			
16	EC dated 12.04.	The Ambient Air Quality	Complied	<p>Complied With The Ambient Air Quality monitoring in the core zone</p>	Complied

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	2021; Standard EC conditions- (b) Air Quality Monitoring and Preservation (ii)	monitoring in the core zone shall be carried out to ensure the Coal Industry Standards notified vide GSR 742 (E) dated 25th September, 2000 and as amended from time to time by the Central Pollution Control Board Data on ambient air quality and heavy metals such as Hg, As, Ni, Cd, Cr, and other monitoring data shall be regularly reported to the Ministry/Regional Office and to the CPCB/SPCB.		shall be carried out to ensure the Coal Industry Standards notified vide GSR 742 (E) dated 25th September, 2000 and as amended Heavy metals monitoring reports, a summary of the same for August 2024 month is given in a copy of the report is submitted. The same will continue to be shared in six-monthly compliance reports.	
17	EC dated	The transportati	Complied	Complied With	Being Complied

S. No.	Details of the EC and the condition	Condition as per EC	Certified compliance reported by MoEF &CC RO, Bhopal vide letter dated 28.10.2024	Updated information/Current status by the Project Proponent as on Date 05.12.2024	Remarks/Recommendations of RO, MoEF&CC on ATR
	12.04. 2021; Standard conditions- (b) Air Quality Monitoring and Preservation (iv)	on of coal shall be carried out as per the provisions and route envisaged in the approved Mining Plan or environment monitoring plan. Transportation of the coal through the existing road passing through any village shall be avoided. In case, it is proposed to construct a 'bypass' road, it should be so constructed so that the impact of sound, dust and accidents could be appropriately mitigated.		Coal transportation is being done through tarpaulin covered trucks. Further, APMDC has also requested Ministry of Coal to facilitate in developing rail connectivity in co-ordination with Ministry of Railways & Coal block allottees (Captive/Commercial) as proposed in their Integrated Coal Logistic Plan. Construction of CHP was delayed due to land acquisition issues, which have been now resolved. It can also be noted that there are other coal blocks (viz. Dongri-Tal II, Dhirauli etc.) in the vicinity of Suliyari coal mine, which were allotted to different companies, which may also require railway connectivity. Therefore, once the process of allocation of Dongri-II coal block is completed and project development commences, APMDC would undertake the work of railway siding.	Coal transportation is being carried out by roads. Dust suppression on the roads is being carried out by deploying water sprinklers Further, Integrated Coal Logistic Plan is in advanced stage including railway siding.
1	EC	The	Compli	Complied With	Complied

S. No.	Details of the EC and the condition	Condition as per EC	Certified compliance reported by MoEF &CC RO, Bhopal vide letter dated 28.10.2024	Updated information/Current status by the Project Proponent as on Date 05.12.2024	Remarks/Recommendations of RO, MoEF&CC on ATR
8	dated 12.04.2021; Standard EC conditions- (c) Water Quality Monitoring and Preservation (x)	surface drainage plan including surface water conservation plan for the area of influence affected by the said mining operations, considering the presence of river/rivulet/pond/lake etc. shall be prepared and implemented by the project proponent. The surface drainage plan and/or any diversion of natural water courses shall be as per the approved Mining Plan/EIA/EMP report and with due approval of	ed	The surface drainage plan including surface water conservation plan for the area of influence affected by the said mining operations, considering the presence of river/rivulet/pond/lake etc. have been prepared and implemented as mine lease area. Moreover, Surface Drainage Plan & Flood Protection Plan has been prepared by NABET Approved Agency. Documentary Evidence is submitted.	Surface drainage plan is in place and being implemented.

S. No.	Details of the EC and the condition	Condition as per EC	Certified compliance reported by MoEF &CC RO, Bhopal vide letter dated 28.10.2024	Updated information/Current status by the Project Proponent as on Date 05.12.2024	Remarks/Recommendations of RO, MoEF&CC on ATR
		the concerned State/Gol Authority. The construction of embankment to prevent any danger against inrush of surface water into the mine should be as per the approved Mining Plan and as per the permission of DGMS or any other authority as prescribed by the law.			
19	EC dated 12.04.2021; Standard EC conditions- (c) Water Quality Monitoring	The project proponent shall take all precautionary measures to ensure riverine/riparian ecosystem in and around the coal mine up to a	Complied	<p>Complied With</p> <p>During the Hurdul nala diversion all the precautionary measures to ensure riverine/riparian ecosystem in and around the coal mine up to a distance of 5 km will be taken care and aquatic Ecosystem conservation plan will be prepared from reputed organization and submitted to MoEF&CC</p> <p>Moreover, Surface Drainage Plan & Flood Protection Plan has been prepared by NABET Approved Agency.</p> <p>Documentary Evidence is submitted.</p>	<p>Compliance is in progress</p> <p>Hardul diversion is proposed by Project Proponent. It is reported that after approval of nala diversion by amendment of Environmental Clearance, the</p>

S. No.	Details of the EC and the condition	Condition as per EC	Certified compliance reported by MoEF &CC RO, Bhopal vide letter dated 28.10.2024	Updated information/Current status by the Project Proponent as on Date 05.12.2024	Remarks/Recommendations of RO, MoEF&CC on ATR
	and Preservation (xi)	distance of 5 km. A ecosystem riverine/riparian conservation and management plan should be prepared and implemented in consultation irrigation/water resource department in the state government			ecosystem conservation plan will be prepared. The application for diversion of Hardul Nala is in consideration with MoEFCC.
20	EC dated 12.04.2021; Standard EC conditions-(f) land reclamation (v)	Further, it may be ensured that as per the time schedule specified in mine closure plan it should remain live till the point of utilization. The top soil shall temporarily be stored at earmarked site(s) only	Complied	Complied With Active OB dump area grass seeding has been done on OB dump and temporary grass has also been grown on a portion of it. Stabilized dump area biologically reclaimed with Native Species in consultation of forest department. Pictorial Evidence is submitted.	Being Complied The status of dump stabilization is submitted to RO Bhopal as part of half-yearly compliance report. During site visit, it is observed that top soil staked separately. Active dump is stabilized with grass species. Backfilling is proposed during 2025-

S. No.	Details of the EC and the condition	Condition as per EC	Certified compliance reported by MoEF &CC RO, Bhopal vide letter dated 28.10.2024	Updated information/Current status by the Project Proponent as on Date 05.12.2024	Remarks/Recommendations of RO, MoEF&CC on ATR
		<p>and shall not be kept unutilized. 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</p>			<p>26 as per the progressive mine closure plan.</p> <p>It is recommended that PP should furnish the dump sections, progress of backfilling and reclamation, afforestation status on stabilized dumps along with half-yearly progress report. Further, during rehandling of dumps additional mitigation measures should be taken for dust suppression on the roads connected to dumps and backfilling area.</p>

S. No.	Details of the EC and the condition	Condition as per EC	Certified compliance reported by MoEF &CC RO, Bhopal vide letter dated 28.10.2024	Updated information/Current status by the Project Proponent as on Date 05.12.2024	Remarks/Recommendations of RO, MoEF&CC on ATR
		management of rehabilitated areas shall continue until the vegetation becomes self-sustaining. Compliance status shall be submitted to the Ministry of Environment, Forest, and Change/Regional Office.			
21	EC dated 12.04.2021; Standard EC conditions-(g) Green Belt (i)	The project proponent shall take all precautionary measures during mining operation for conservation and protection of endangered/endemic flora/fauna, if any, spotted/reported in the study area.	Deemed Complied	<p>Complied With</p> <p>Wildlife Conservation Plan is prepared with an estimated cost Rs 35.45 crores Approved by Chief Wildlife Warden, cum PCCF (WL), MP vide letter No. क्रमांक/व.प्रा/माचि/ 6538 dated 16.09.2019. The amount for implementation of Wildlife Conservation Plan has been deposited in MP CAMPA account (dated 12.01.2021) (proof submitted).</p> <p>To procure the information about the funds deposited to the Forest Department, a letter to DFO is sent on 24.07.2024 regarding the funds accounting and status of afforestation (copy attached as Annexure-9) and as soon as the PP receives the same, it'll be shared to Regional Office of MoEF&CC</p> <p>A copy of Wildlife Conservation Plan is submitted.</p>	Complied

S. No.	Details of the EC and the condition	Condition as per EC	Certified compliance reported by MoEF &CC RO, Bhopal vide letter dated 28.10.2024	Updated information/Current status by the Project Proponent as on Date 05.12.2024	Remarks/Recommendations of RO, MoEF&CC on ATR
		The Action plan in this regard, if any, shall be prepared and implemented in consultation with the State Forest and Wildlife Department.			
22	EC dated 12.04.2021; Standard EC conditions- (g) Green Belt (ii)	Greenbelt consisting of 3- tier plantation of width not less than 7.5 m shall be developed all along the mine lease area as soon as possible. The green belt comprising a mix of native species (endemic species should be given priority) shall be developed all along the major	Complied	<p>Being Complied</p> <p>More than 1300 trees have been planted in the peripheral zone. Fencing is essential for safety of planted saplings, which is in continuous progress in a phase-wise manner. The PP is undergoing the process of land possession which is accompanied by the District Administration for hindrance-free fencing and subsequent plantation of the same.</p> <p>Peripheral Zone plantation is planned to be carried out in 2 phases: In the first phase (FY 2024-25), approx. 8.10 km of the zone shall be planted along the eastern boundary of the ML Area & in the next phase (FY 2025-26), approx. 6.11 km of the zone shall be planted along the western boundary of the ML Area, with native trees to ensure the overall coverage of the peripheral zone.</p> <p>Moreover, an Action Plan for safety-zone plantation had been sent over to IRO. MoEF&CC dt. 24.07.2024 (copy of the same is submitted)</p>	Compliance is in progress

S. No.	Details of the EC and the condition	Condition as per EC	Certified compliance reported by MoEF &CC RO, Bhopal vide letter dated 28.10.2024	Updated information/Current status by the Project Proponent as on Date 05.12.2024	Remarks/Recommendations of RO, MoEF&CC on ATR
		approach/coal transportation roads.			
23	EC dated 12.04.2021; Standard EC conditions-(h) Public Hearing and Human Health Issues (i)	Adequate illumination shall be ensured in all mine locations (as per DGMS standards) and monitored weekly. The report on the same shall be submitted to this ministry & it's RO on six monthly basis.	Complied	Complied With Illumination study is conducted in the mine as per DGMS standards on regular basis, the report of which will be sent in along with the next six monthly compliance report to the IRO, MOEF&CC. (Copy of report of June 2024 is attached as Annexure-17).	Complied
24	EC dated 12.04.2021; Standard EC conditions-(h) Public Hearing and Human Health	Implementation of the action plan on the issues raised during the public hearing shall be ensured. The project proponent shall undertake all the tasks/measures as per	Complied	Complied With Commitments made during public consultation shall be adhered to and are in continuous process of implementation. APMDC has deposited 100% of the amount for acquiring private lands to District Administration which is being continuously disbursed (deposition proof submitted) - 202 nos. people have been directly employed till date based on eligibility It is a continuous process, and more employment will be generated in due course of time. Apart from this, indirect employment is also done to facilitate various requirements of the project that gives extensive exposure for on- ground works to the recruited persons.	Complied

S. No.	Details of the EC and the condition	Condition as per EC	Certified compliance reported by MoEF &CC RO, Bhopal vide letter dated 28.10.2024	Updated information/Current status by the Project Proponent as on Date 05.12.2024	Remarks/Recommendations of RO, MoEF&CC on ATR
	h Issues (ii)	the action plan submitted with budgetary provisions during the public hearing. Land outsees shall be compensated as per the norms laid down in the R&R policy of the company/State Government/Central Government, as applicable.		<p>-Plantation is under progress. Target plantation of 17.6 lakh trees shall be done in a suitable manner. An Action Plan for the same has been given to IRO dt. 24.07.2024 (copy submitted)</p> <p>-Grass seeding has been done on OB dump and temporary grass has also been grown on a portion of it.</p> <p>-RO plant has been installed in R&R colony as per the community's requirement (proof submitted).</p> <p>-Wildlife Conservation Plan is prepared with an estimated cost Rs 35.45 crores Approved by Chief Wildlife Warden, cum PCCF (WL), MP vide letter No. क्रमांक/व.प्रा/माचि. / 6538 dated 16.09.2019. The amount for implementation of Wildlife Conservation Plan has been deposited in MP CAMPA account (dated 12.01.2021) (proof submitted).</p> <p>To procure the information about the funds deposited to the Forest Department, a letter to DFO is sent on 24.07.2024 regarding the funds accounting and status of afforestation (copy attached as Annexure-9) and as soon as the PP receives the same, it'll be shared to Regional Office of MoEF&CC.</p> <p>A copy of Wildlife Conservation Plan is submitted</p> <p>-Total amount incurred in CER amounts to 35.06 crores that incorporates Hospital Building, Water Treatment Plant, Roads, etc. A complete description has been provided.</p>	
25	EC dated 12.04.2021; Standard EC conditions-(h) Public	The project proponent shall follow the mitigation measures provided in this Ministry's OM No. Z 11013/571 2014-	Complied	<p>Complied With</p> <p>-Fixed water sprinklers have been enhanced. Now, total of 17 nos fixed-type water sprinklers are deployed at site.</p> <p>-Coal transportation is being done through tarpaulin covered trucks. Further, APMC has also requested Ministry of Coal to facilitate in developing rail connectivity in co-ordination with Ministry of Railways & Coal block allottees (Captive/Commercial) as proposed in their Integrated</p>	Being Complied

S. No.	Details of the EC and the condition	Condition as per EC	Certified compliance reported by MoEF &CC RO, Bhopal vide letter dated 28.10.2024	Updated information/Current status by the Project Proponent as on Date 05.12.2024	Remarks/Recommendations of RO, MoEF&CC on ATR
	Hearing and Human Health Issues (v)	1A.11 (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.		Coal Logistic Plan. Construction of CHP was delayed due to 10 land acquisition issues, which have been now resolved. It can also be noted that there are other coal blocks (viz. Dongri-Tal II, Dhirauli, etc.) in the vicinity of Suliyari coal mine, which were allotted to different companies, which may also require railway connectivity. Therefore, once the process of allocation of Dongri-I coal block is completed and project development commences, APMDC would undertake the work of railway siding. - R&R package for remaining villages shall be completed after complete handover of land and other issues raised by the R&R beneficiaries, which is already taking place with constant Administration.	

20.7.5: Instant proposal is for capacity enhancement from 5.0 MTPA to 6.0 MTPA in phase- I of 20% as per the MoEF&CC O.M. dated 11/04/2022 under para 7(ii)a of EIA Notification, 2006. PP submitted the following compliance to the Ministry's OM dated 11.04.2022:

S. No.	Provision under para 7(ii)	Compliance
1.	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 categories of projects which have been exempted as per para 7 III (i) of EIA Notification 2006 and its amendments.	The public hearing was conducted on 30.08.2019 at playground of Govt. High School, Majhailipath, Jhalari village in Sarai tehsil, Singrauli district, for the existing EC capacity of 5.0 MTPA on which expansion is being sought to 7.0 MTPA (40% enhancement)
2.	There should not be change in Category of the project from 'B2' to 'B1' of 'A' due to proposed modernization or expansion.	The mine at present is in Category 'A' and shall remain in the same category after proposed expansion.
3.	There is no additional land acquisition or forest land diversion involved for the proposed	There is no change in the mine lease area i.e. 1298 Ha. The EC was granted for 5.0 MTPA in

S. No.	Provision under para 7(ii)	Compliance
	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.	1298 Ha area and the proposed expansion will be done within 1298 Ha mine lease area.
4.	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 proposed expansion is for 40%, to be carried out in two phases of 20% each as per the guidelines of MoEF&CC dated 11.04.2022. The pre-feasibility report has been prepared for 40% submission.
5.	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.	Predicted environmental quality parameters arising out of proposed expansion shall be within the prescribed norms and the same shall be maintained as per prescribed norms.
6.	The proposed expansion should not result in reduction in the greenbelt area as stipulated in the earlier EC, or if the existing ratio of greenbelt is more than 33%, after expansion it should not reduce below 33%.	The proposed expansion does not include any addition/ surrender of land and the lease area remains same as 1298 Ha. The greenbelt development and other plantation will be as per EC dated 12.04.2021
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 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 compliance to EC conditions is being carried out and the latest certified compliance report from the RO is given in above paragraph.
8.	Public Consultation shall be undertaken [if applicable] by obtaining response in writing, as per para 7 III (ii) (b) of EIA Notification 2006, except those categories of projects which have been exempted as per para 7 III(i) of EIA Notification 2006 and its amendments.	The proposed expansion is for 40%, to be carried out in two phases of 20% each as per the guidelines of MoEF&CC dated 11.04.2022, for which public consultation is not required.
9.	Effluent monitoring including air quality monitoring systems as specified in the existing EC, if stipulated, should have been installed.	The regular monitoring of air and water is being carried out at site as per conditions.

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

20.7.6: Environmental Site Settings:

The project is covered under Survey of India Topo Sheet No. 64 I/5 and is bounded by the geographical coordinates ranging from Latitude 23° 55' 29.919" N to 23° 58' 16.950" N and Longitude 82° 18' 45.141" E to 82° 20' 51.126" E. Project does not fall in the Critically Polluted Area (CPA)/ Severely polluted area, as per CEPI Assessment 2018.

Forest Area: The project involves total 259.239 Ha of forestland. Details of the approval pertaining to it are as follows:

Sl. No.	Obtained vide letter No.	Area (ha)	Stage I/II
1.	F No. 8-02/2020-FC dated: 15.12.2020	259.239	Stage I
2.	F No. 8-02/2020-FC dated: 15.06.2022	259.239	Stage II
Total		259.239	

PP submitted that there is no violation of Van (Sanrakshan Evam Samvardhan) Adhiniyam, 1980.

Project Area: The project is not located within 10 KM of any ESA/ National park/ Wildlife sanctuary/ Biosphere reserve/ Tiger reserve/ Elephant reserve/Tiger corridor/Elephant corridor etc. However, ESZ of Sanjay Gandhi Tiger Reserve is located at the distance of 7.50 km from the project area the same has been verified through a letter of PCCF dated 20.01.2025. There is no violation of WLP Act. However, Schedule – I species [such as, *Melursus ursinus* (Sloth Bear), *Elephas maximus indicus* (Elephant), *Manis crassicaudata* (Pangolin), *Canis lupus callipes* (Indian Wolf), *Mellivora capensis* (Honey Badger), *Panthera pardus* (Leopard), *Tetracerus quadricornis* (Four-horned antelope), *Gazella bennettii* (Chinkara), *Tragulus meminna* (Mouse Deer), *Crocodylus palustris* (Mugger, Crocodile), *Varanus bengalensis* (Bengal Monitor Lizard), *Python molurus* (Python), *Pavo cristatus* (Indian Peafow), *Aquila rapax* (Tawny Eagle), *Gyps bengalensis* (White Rumped Vulture), *Nisaetus cirrhatus* (Crested Hawk Eagle), *Anthracoceros coronatus* (Pied Hornbill), *Ciconia episcopus* (White stork), *Neophron percnopterus* (White Scavenger Vulture) and *Sarcogyps calvus* (King Vulture)] were observed in the study area and accordingly, Wildlife conservation Plan has been prepared. A Site Specific Wildlife Conservation Plan (SSWCP) w.r.t. Suliyari Coal Block has been approved by Chief Wildlife Warden (CWLW) cum PCCF (WL), Madhya Pradesh vide letter no dated 16.09.2019.

Other sensitive receptors: Hurdul Nallah falls within the mine lease area flowing from east to west. The same is proposed to be diverted and permission for the same has been accorded by the PP as per the earlier EC granted on 12/04/2021. Further, there is no presence of ASI protected archaeological site in close proximity to the ML area.

Mine Lease details: PP submitted the following Allotment Order and Mine Lease details:

Sl. No.	Govt. Order/Notifications as the case may be	Area (ha)
1.	F. No. 103/10/2016/NA dated 29.09.2016	1298
Total		1298

Date of Block allotment/ lease with its expiry date: The Suliyari Coal Mine was allocated by Ministry of Coal (MoC), GoI, to APMDC for sale of coal vide order no. F. No. 103/10/2016/NA dated 29.09.2016 over an area of 1298 ha. Validity of lease: 28.09.2042.

20.7.7: Details of ToR: ToR has not been accorded for the instant proposal under consideration. However, the proponent has submitted the EIA/EMP report for capacity enhancement from 5.0 to 7.0 MTPA as per standard ToR of coal mining sector available on Parivesh in accordance with the MoEF&CC O.M. dated 30/05/2022.

20.7.8: Mine Plan & Mine Closure Plan and Method of Mining:

- i. The Mine Plan and Mine Closure Plan of Suliyari Coal Block has been approved by MoC vide letter no. F.No.34011-14-2017-CPAM dated 08.07.2019 for 5.0 MTPA. For expansion up to 150% no specific approval is required as per MoC circular dated 29.5.2020, in view of which APMDC board has given an approval for Mine Plan and Mine Closure Plan for expansion from 5.0 to 7.0 MTPA on dated 05.02.2024.

- ii. Total geographical reserves are reported to be 142.36. Out of which mineable reserves are 113.08 MT and extractable reserves are 107.43 MT. Percentage of extraction is 86.71%.
- iii. There are total 15 major coal seams. With thickness of seams to be worked on will be between 0.5m to 5.82m.
- iv. Coal to be extracted will be of G7 grade.
- v. Stripping ratio is 7.29:1.
- vi. Balance life of mine as on 01.04.2024 is 18 years.
- vii. Opencast method of mining is proposed.
- viii. Land use details:

a. Pre-mining Land use details:

S. No.	Land Use	Within ML Area (ha)
1.	Agricultural Land	251.860
2.	Forest land	259.239
3.	Barren Land	688.851
4.	Township	51.990
5.	Surface Water Bodies	46.060
Total		1298

b. Post Mining Land use details:

Sl. No.	Type	Total Area	Reclaimed Area	Un-reclaimed area
1.	Excavation/Quarry Area:			
	(a) Backfilled areas	998.048	890.069	107.979
	(b) Excavated Void	173.848	13.778	160.070
2.	External Dump	-	-	-
3.	Safety Zone	78.864	52.643	26.221
4.	Road and Infrastructure	19.327	-	19.327
5.	Road Diversion	4.439	-	4.439
6.	Diversion/Below River/Nala/Canal	23.474	-	23.474
Total		1298	956.49	341.51

ix. **Transportation of Coal:** In pit: Dumpers/Trucks

- a) Pit to CHP: Dumpers/Trucks
- b) CHP to RLS: Road/ Conveyor
- c) RLS to end Consumer: Road and Rail
- d) Quantity to be transported by Road/Rail/Conveyor: 6.0 MTPA

PP submitted that there are no changes proposed in the means of transportation of coal.

- x. Details of reclamation: The Mine Plan and Mine Closure Plan of Suliyari Coal Block has been approved by MoC vide letter no. F.No.34011-14-2017-CPAM dated 08.07.2019 and there is no deviation proposed in the same. As per the approved Mine Closure Plan, the total excavated area is 200.107 Ha, 80.23 Ha and total reclaimed

area is 10.51 Ha, as of now. The afforestation plan shall be done progressively covering an area of 704.63 ha at the end of mining. This will include plantation over backfilled area of internal OB dump of 638.209 Ha, total plantation in greenbelt post mine closure will be 704.63 Ha. Density of tree plantation will be 2500 tree/ Ha. 160.070 Ha of void area is proposed to be converted into water body of 30 m depth. 23.474 Ha will be water body (Nala diversion), 49.987 Ha (Safety Zone/Rationalization area-26.221 ha, Road diversion-4.439 ha & Road & infrastructure area-19.327 ha) will be left for Public/Company use and 251.86 Ha of land will be used for agriculture and horticulture.

20.7.9: Baseline Data: Baseline Data was generated from December 2023 to February 2024 (Winter Season):

Period	December 2023 to February 2024 (Winter Season)																														
AAQ parameters for 10 Locations (min and max)	PM ₁₀ – 63.20 to 89.10 µg/m ³ PM _{2.5} – 31.20 to 77.30 µg/m ³ SO ₂ – 12.40 to 23.05 µg/m ³ NO _x – 15.80 to 35.80 µg/m ³ CO – 0.34 to 0.82 mg/m ³																														
Incremental GLC Level	PM ₁₀ – 8.1378 µg/m ³ PM _{2.5} – 5.19135 µg/m ³ SO ₂ – 0.29406 µg/m ³ NO _x – 0.42303 µg/m ³ CO – 0.0000067 mg/m ³																														
Ground water quality for 10 Locations	pH – 7.25 to 7.42 Total Hardness – 180.20 to 214.14 mg/l Chlorides – 41.80 to 76.00 mg/l Fluoride – 0.65 to 0.77 mg/l Heavy Metals (Pb, Se, As, Hg) BLQ																														
Surface water quality for 10 Locations	pH – 7.35 to 7.90 DO – 6.40 to 6.90 mg/l BOD – 5.10 to 6.40 mg/l COD – 20.0 to 28.0 mg/l																														
Noise levels Leq (Day and Night)	41.85 to 62.60 dBA for the day time and 36.52 to 55.20 dBA for the Night time.																														
Traffic assessment study findings	<p>Traffic study has been conducted at Bhalyatola to Jhaleri (Near Dhirauli – Road - 1) & Belwar to Majhalipath (Near to Belwar – Road -2) which is approximately approx. 1.5 km from the mine site respectively.</p> <p>Existing PCU for Road-1 are 595 PCU/hr and for Road-2 are 727 PCU/hr respectively and existing level of service (LOS) for both road are “A”.</p> <table border="1" style="margin-left: auto; margin-right: auto;"> <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>Road - 1</td> <td>595</td> <td>15000</td> <td>0.04</td> <td>A</td> </tr> <tr> <td>Road - 2</td> <td>727</td> <td>15000</td> <td>0.05</td> <td>A</td> </tr> </tbody> </table> <p>PCU load after proposed project will be 745 PCU/hr for Road-1 and 877 PCU/hr for Road-2 and level of service (LOS) will be remain “A” for the both roads.</p> <table border="1" style="margin-left: auto; margin-right: auto;"> <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>Road - 1</td> <td>745</td> <td>15000</td> <td>0.05</td> <td>A</td> </tr> <tr> <td>Road - 2</td> <td>877</td> <td>15000</td> <td>0.06</td> <td>A</td> </tr> </tbody> </table>	Road	V (Volume in PCU/hr.)	C (Capacity in PCU/hr.)	Existing V/C Ratio	LOS	Road - 1	595	15000	0.04	A	Road - 2	727	15000	0.05	A	Road	V (Volume in PCU/hr.)	C (Capacity in PCU/hr.)	Proposed V/C Ratio	LOS	Road - 1	745	15000	0.05	A	Road - 2	877	15000	0.06	A
Road	V (Volume in PCU/hr.)	C (Capacity in PCU/hr.)	Existing V/C Ratio	LOS																											
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Period	December 2023 to February 2024 (Winter Season)
	<p>Note: Capacity as per IRC 64-1990 Standards Guideline for capacity for roads. Conclusion: Due to the mine expansion project (increase of production by 40%) the traffic density will increase marginally as the entire mineral will be transported through the PWD Road, however the value of LOS will remain same as “Excellent”.</p>
Flora and fauna	<p>Presence of Schedule I fauna and endangered Flora if any: Schedule – I species were observed in the study area and accordingly, Wildlife conservation Plan has been prepared. A Site Specific Wildlife Conservation Plan (SSWCP) w.r.t. Suliyari Coal Block has been approved by Chief Wildlife Warden (CWLW) cum PCCF (WL), Madhya Pradesh vide letter no. dated 16.09.2019.</p>
Water Requirement	<p>Source of Water: Borewell and Mine water Ground Water Intersection: Yes Water Requirement: Existing: 1510 KLD Proposed: (20% Expansion from 5.0 to 6.0 MTPA): 1717 KLD NOC (Ground Water): Ground water withdrawal permission has been obtained from Central Ground Water Authority (CGWA) vide NOC no. CGWA/NOC/MIN/REN/1/2022/7166 which is valid from 13.03.2022 to 12.03.2024. Further, a fresh renewal application has been submitted vide application no. 21-4/843/MP/MIN/2019 dt. 07.03.2024, in accordance with the CGWA notification dt. 14th Sept. 2020. As per the Gazette notification “if the application for renewal is submitted in time and the CGWA/the respective state/UT authority is unable to process the application in time, NOC shall be deemed to be extended till the date of renewal of NOC”.</p>

20.7.10: Details of Water Requirement:

Source of Water	Borewell and Mine Water
Ground Water Intersection	Yes
NOCs (Surface Water/Ground Water)	<p>Ground water withdrawal permission has been obtained from Central Ground Water Authority (CGWA) vide NOC no. CGWA/NOC/MIN/REN/1/2022/7166 which was valid from 13.03.2022 to 12.03.2024. Further, a fresh renewal application has been submitted vide application no. 21-4/843/MP/MIN/2019 dt. 07.03.2024, in accordance with the CGWA notification dt. 14th Sept. 2020.</p>
Water Requirement	<p>Existing: 1510 KLD Proposed: Phas (20% Expansion from 5.0 to 6.0 MTPA): 1717 KLD</p>
Diversion of River/ Nallah	<p>Hurdul Nala will be diverted along the southern side of the block area as per the plan and will join the Sarbahera Nala. This diversion, approved by MP Ganga Kachhar Reewa, and NoC for diversion has been obtained from Water Resource Department, Singrauli, Madhya Pradesh vide letter no. 3827 dt 16.12.2019..</p>

20.7.11: 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:

S. No	Type of Waste	Source	Quantity (TPA)	Mode of Treatment	Disposal
1	Municipal Solid waste	Domestic waste from site office, Canteen etc.	148	Authorized Vendors	Disposed off as per the solid waste management rule, 2016
2	Plastic Waste	Site office, Canteen etc.	1.0	CPCB/SPCB Authorized recycling Vendors	As per the Plastic Waste Management Rules, 2016
3	Electronic Waste	Computers, switches, cables etc.	0.05	Authorized Vendors	As per E- Waste (Management) Rules, 2022
4	Used Batteries	Vehicles at sites	1.0	Authorized Vendors	As per Batteries Management rules 2022, sold to authorize vendors for recycling/refurbishment.
5	Biomedical Waste	Primary Health Center	0.01	As per BMWR, 2016	Yellow & Red
6	Used Oils, Waste Oil, Empty Oil barrels	DG Set, Workshop	1.26	Authorized Vendors	Handed over to CPCB/SPCB authorized vendor

20.7.12: Details of Public Hearing: There is no fresh Public Hearing conducted, as the proposal has been submitted under clause 7(ii) of EIA Notification 2006. However, details of the Public Hearing held for EC dated 12.04.2021 are as follows:

Advertisement for the Public Hearing was given in Hindustan Times (English daily newspaper), New Delhi edition dated 30.07.2019, Dainik Bhaskar (Hindi daily newspaper), Singrauli edition dated 30.07.2019, Navbharat (Hindi daily newspaper), Singrauli edition dated 30.07.2019, Patrika (Hindi daily newspaper), Satna edition dated 30.07.2019. Public Consultation was held on 30.08.2019 at playground of Govt. High School, Majhailipath, Jhalari village in Sarai tehsil, Singrauli district, Madhya Pradesh under the chairmanship of Shri Rituraj (IAS), ADM Singrauli. 1400 people attended the PH and total 102 representations were received from and outside the district, out of which 2 representations were received before the PH and 100 written representations were received during the PH. Major issues raised during the PH were Land Acquisition and R&R, Employment to locals, Plantation, Conservation of biodiversity, Pollution Control, Drinking water supply etc.

Compliance status of the PH action plan is as follows:

Compliance status of the implementation of the Action Plan on the issue raised during PH					
Sr. No.	Issue/demand raised by the Public	Commitment given by Project Proponent	Brief description & Time frame	Fund allocation (Rs.)	Current Status
1.	Land Acquisition	Rehabilitation and Rehabilitation-	1. Land Acquisition: It is under advance stage and 30% of the land is in	Total funds required for acquisition of private lands are 716.89 crores, out of	1. Land acquisition for 742.20 ha. has been

Compliance status of the implementation of the Action Plan on the issue raised during PH					
Sr. No.	Issue/demand raised by the Public	Commitment given by Project Proponent	Brief description & Time frame	Fund allocation (Rs.)	Current Status
	and R&R	<p>2018 has been prepared by Sub Divisional Officer Land Acquisition Officer Devsar and approved by Commissioner Rewa Division Rewa, in line with the guidelines laid down by the State Government (Rehabilitation Policy of Madhya Pradesh Government-2002 'A') and Government of India (Rehabilitation Policy of Government of India- 2007) for rehabilitation of displaced people from time to time.</p> <p>Special provisions have been made for the protection of the displaced / affected people in the R&R policy. According to the policy, all rehabilitation benefits will be given to the</p>	<p>procession and balance land acquisition is likely to complete by 31.12.2019.</p> <p>2. Providing amenities in R&R colony as per approved R&R Plan by 30.06.2020.</p> <p>3. Payments of R&R benefits including the construction of houses etc. will be completed by 30.06.2020.</p>	<p>which APMDC has already deposited Rs 695.55 crores to the district administration. Remaining amount will be deposited during the course of taking possession of land in stages and will be completed by scheduled time. Note: Additionally, the required Govt. land falling within project area will be acquired by APMDC by paying the suitable compensation as estimated towards the same by the State Govt. Developing R&R colony has been entrusted to M/s AEL (MDO of the coal Block) and amount of Rs 20 crores will be released in stages. Amount will be disbursed to the PDF's at the time of taking possession of land and house.</p>	<p>completed.</p> <p>2. Land Compensation has been awarded for Rs 716.89 Cr. and deposited in the Govt. Account.</p> <p>3. Compensation of Rs 695.55 Cr. has been disbursed by LAO to the concerned landowners and balance is in process.</p> <p>Remaining amount Rs. 21.34 will be disbursed from district administration during allocation of land.</p> <p>4. Basic amenities i.e.- School, Anganwadi, Hospital building, Water treatment plant of capacity 2x800 KLD, Water supply, Roads, Culverts, Drains, Substation with electricity supply and Haat Bazar (Shops) etc. has been developed in the R&R colony at village Khanua, Tehsil Sarai Distt Singrauli.</p> <p>5. Payments of R&R benefits including the construction of houses etc. have been provided as per R&R Plan.</p>

Compliance status of the implementation of the Action Plan on the issue raised during PH					
Sr. No.	Issue/demand raised by the Public	Commitment given by Project Proponent	Brief description & Time frame	Fund allocation (Rs.)	Current Status
		displaced and affected families of the project.			
2.	Employment to locals	Under the provisions of R&R Policy-2018 approved by Commissioner Rewa, Division Rewa, the displaced will be given job / employment in the company according to their ability.	There are 1100 PDF's in the age group of 18-55 years for whom suitable employment shall be given @ one from displaced house within the three years of taking possession of the land. Employment will be provided as per the requirement of the project or else Rs 5 Lakhs per eligible for employment for one time settlement.	Rs 50 Cr has been allocated for the purpose.	187 Numbers of displaced persons have been given employment by the Project proponent and more than Rs. 30 Cr have been disbursed to PDF.
3.	Plantation, Green belt Development.	About 17.60 lakh trees will be planted in the mine area in a time bound manner. Plantation of trees of local species will be done only after deliberations of forest department and Gram Panchayat.	Will be taken up as per the green belt development plan/progressive plantation scheme given in EMP and conditions stipulated by MoEF&CC/ MPPCB.	Included in cost for EMP (capital and recurring). (Refer Table 6.7 of the approved EIA/EMP report). 10 lakhs (capital cost).	Plantation is being carried out in phase wise manner; Initial phase plantation is being carried out near admin building and nursery will be developed for sapling. Native Species such as Amaltas, Sal, Arjun, Ashoka are planted near admin building and safety zone. Year wise plan for plantation has been submitted to RO, MoEF&CC, Bhopal. The nursery has been developed in 1.5 ha and approx. 1.70 lacs sapling are ready for plantation. A total of 56.79 lakh amount has been spent till date for greenbelt plantation and preparation of nursery.
4.	Compensatory Afforestation	A total of 15,940 trees are proposed to be cut/felled from	CA scheme has been prepared and submitted to DFO.	The required amount (99351319/-) will be deposited soon after getting stage-I FC / after issue of	CA scheme approved by the DFO and the required amount for CA (99351319/-) & the supervision charges

Compliance status of the implementation of the Action Plan on the issue raised during PH					
Sr. No.	Issue/demand raised by the Public	Commitment given by Project Proponent	Brief description & Time frame	Fund allocation (Rs.)	Current Status
		the forest land within the coal block. In lieu of the same, 259.239 ha of non-forest revenue land has been identified as Compensatory Afforestation (CA) land in Koraval circle of Chitrangi tehsil in Singrauli district. About 4.14 lakh trees will be planted under CA scheme.		demand by Forest department.	(35,70,422/-) had been deposited in CAMPA account on 12.01.2021. Further, APMDC vide letter dated 24.07.2024 requested DFO, Singrauli to provide the status of implementation of the CA cost.
5.	Conservation of biodiversity	Plantation will be done after discussion with forest department and Gram Panchayat to ensure planting of local species of trees.	Local species will be planted as per the directions given by forest department and gram panchayat from time to time till post mining phase.	Included in cost for EMP (capital and recurring). 10 lakh (capital cost) as per approved EIA/EMP report	Plantation is being carried out in phase wise manner; Initial phase plantation is being carried out near admin building. Native Species such as Amaltas, Sal, Arjun, Ashoka are planted near admin building and safety zone. The nursery has also been developed in 2.5 ha and approx. 1.70 lacs sapling are ready for plantation. A total of 56.79 lakh amount has been spent till date for greenbelt plantation and preparation of nursery.
6.	Wildlife conservation	There are no notified elephant corridors within a 10 km radius of the study area. But elephants move from their habitat from one forest area to another forest	As per approved wild life management plan, action will be taken for conservation of wild life as indicated in the plan.	Rs. 35.45 crores is allocated for implementation of wild life management plan.	Wildlife conservation in this regard already prepared with an estimated cost Rs 35.45 Crores Approved by Chief Wildlife Warden, cum PCCF (WL), MP vide letter No. क्रमांक/व.प्रा./माचि./6538 date 16.09.2019.

Compliance status of the implementation of the Action Plan on the issue raised during PH					
Sr. No.	Issue/demand raised by the Public	Commitment given by Project Proponent	Brief description & Time frame	Fund allocation (Rs.)	Current Status
		area. Also there are several Schedule-I species viz. Peacock, Python, Bengal monitor lizard, Wolf, Leopard, Pangolin, Sloth bear etc. are found in the study area. Thus, "Site-specific Wildlife Conservation Plan" has been prepared, and submitted to the state government's forest department for certification.			The amount (35.45 Cr.) for wildlife conservation plan and the supervision charges (35,70,422/-) had been deposited in CAMPA account on 12.01.2021. APMDC vide letter dated 24.07.2024 requested DFO, Singrauli to provide the status of implementation of the wildlife conservation plan and the spent amount.
7.	Air Pollution Control	The following measures will be taken to control air pollution arising from mining operations: 1. The haul roads will be compacted, and water sprinkling will be done. 2. Air pollution control through phase wise plantation and green belts development. 3. Dumps will be strengthened by planting grass/trees. 4. Spraying of	Air Pollution control measures will be taken up as suggested in the EMP and conditions stipulated by MoEF&CC/MPPCB.	Included in cost for EMP (Capital and recurring). 50 lakh (capital cost) and 30 lakh (Recurring cost) as per approved EIA/EMP report.	Fixed type of water sprinklers (17 nos. in approx. 500 m stretch approach road) are installed at site. Each jet sprinkler covers an avg. radius of 16 meters for water sprinkling, 360 degrees around its sprinkling area. Thus, covering a handling area of about 1.37 ha around coal stockyard of 10 ha, which was earmarked as per the mining plan. Currently, tankers with water sprinkling arrangements (13 nos.) and mist/fogging machines (1 nos.), dust sweeping machines (1 nos.) are also deployed at site for dust mitigation. 1 no. CAAQMS has already

Compliance status of the implementation of the Action Plan on the issue raised during PH					
Sr. No.	Issue/demand raised by the Public	Commitment given by Project Proponent	Brief description & Time frame	Fund allocation (Rs.)	Current Status
		water during drilling. 5. Coal Excavation by Surface Miner. Provision of covered conveyor belts and housed unloading/ transfer points.			been installed on site and the same is connected with MPPCB and CPCB. Additional CAAQMS with a value of INR 50 lakhs has been ordered for installment. Documentary evidence for CAAQMS is provided to RO, MoEF&CC, Bhopal.
8.	Water Pollution	Industrial water demand during initial years (construction phase) will be met from Hurdul Nala. Thereafter, industrial water demand will be met from treated mine discharge water. Surplus treated mine water will be discharged into Hurdul nala only after ensuring permissible water quality standards.	Water Pollution control measures will be taken up as suggested in the EMP and conditions stipulated by MoEF&CC/MPPCB. Treated water will be discharged into Hurdul nala only after ensuring permissible water quality standards.	Included in cost for EMP (capital and recurring). 50 Lakh as capital cost, as per approved EIA/EMP report.	Industrial Water Demand being met from treated mine water. ETP is also provided, and the treated wastewater is used for horticulture and road sprinkling. (Amount Rs. 30 Lakhs has been already spent.) Regular water monitoring is being done by a NABL/MoEF&CC accredited lab and the report submitted to RO, MoEF&CC and MPPCB with half yearly compliance.
9.	Drinking Water supply through pipeline	RO plant will be provided in the nearby villages under CSR activities. By APMDC	There are 4 nearby villages for which treated and filtered drinking water will be supplied.	Requirement of funds will be met from the Revenue Expenditure of CSR budget (@2% of average net profits made in the preceding three years) by APMDC	Drinking water supply through pipeline has been provided for R&R Colony of Khanua-Khas. (A total of 1.09 Cr. has been spent on establishing of the R.O plant).
10.	Stabilization of external dump	One temporary external OB dump is proposed for the project for initial	Stabilization of temporary OB dump shall be done till complete re-handling of the dump into de-coaled voids/ backfilled surface.	Cost included in Progressive Mine Closure cost.	Grass seeding has been done on OB dump and temporary grass has also been grown on a portion of it. OB is being backfilled

Compliance status of the implementation of the Action Plan on the issue raised during PH					
Sr. No.	Issue/demand raised by the Public	Commitment given by Project Proponent	Brief description & Time frame	Fund allocation (Rs.)	Current Status
		3 years. Grass turfing will be done to stabilise the dump slopes. After 3 years of mining operation, the waste from the external dump shall be re-handled to the backfilled areas. Phase-wise plantation shall be done in the backfilled areas to ensure stabilization of the backfilled surface.			progressively. Additionally, Garland Drains have been constructed to improve slope stability of OB in case of water seepage. Standardized and safe methods have been adopted for creation of bench profiles. Phase wise topsoil is being matted over the backfilled area.
11.	Carrying capacity study for Singrauli region	On receiving the outcome of the carrying capacity (to be carried out by MoEF&CC for Singrauli region), whatever suggestions and orders will be mentioned, those will be duly followed in the Suliyari project.	As stipulated by the Competent authority	As applicable	In Suliyari Coal Mine, no such condition related to carrying capacity is reflected. However, carrying capacity study has already been carried out for adjacent block considering the worst-case scenario of all operational mines.

20.7.13: EMP Cost: Existing capital cost of project was Rs. 1873.75 Crores. The capital cost of the proposed project is Rs 386.20 Crores (total cost 2259.95 Crores) and the capital cost for environmental protection measures is proposed as Rs 791 Lakhs. The annual recurring cost towards the environmental protection measures is proposed as Rs 395 Lakhs. The employment generation from the proposed expansion for Phase-I is 1620 persons and for Phase-II is 1800 persons.

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

Sl. No.	Description of Item	Existing (In Lakh)		Proposed (In Lakh)	
		Capital Cost	Recurring Cost	Capital Cost	Recurring Cost
1.	Pollution Control Equipment's	50	30	500	100
2.	Effluent treatment /Oil & Grease traps	50	-	-	10
3.	Sewage treatment Plant (50 KLD)	50	-	80	10
4.	Pollution monitoring	Nil	07	0	55
5.	Occupational safety	10	03	100	20
6.	Green belt development / Progressive afforestation	10	16	111	100
7.	Socio-economic welfare measures in nearby villages	-	50	-	50
8.	Any other misc. cost for complying EC conditions	-	05	-	50
Total		170	111	791	395

20.7.14: Power Requirement and details of Hi-Tension/ Transmission Line: Power requirement for the project after expansion is submitted to be 4.4 MW, which will be sourced from 132/33 KV substation located in Dongri Tal-II Coal Block. PP also submitted that a 132 KV High Tension Line passes through the mine area. It will be diverted along the safety zone within the mine. In this regard, APMDC has already deposited an amount of 1.965 lacs to MPPTCL (Madhya Pradesh Power Transmission Co. Ltd.) towards modification/shifting of 132 KV Dongratal-Rajmilan line vide letter no. APMDC/COAL/SUL/L.A./2019-20/297 dated 19.10.2019.

20.7.15: Plantation: Existing green belt has been developed in 40.08 ha area which is about 3.0847 % of the total project area of 1298 with total sapling of 100200 nos. of Trees. The proposed greenbelt will be developed in 694.12 ha, which is about 53.47 % of the total project area. A 7.5 m wide greenbelt, consisting of at least 3 tiers around boundary of mine lease area and vacant places will be developed as greenbelt and green cover as per CPCB/ MoEF&CC. Local and native species are being planted with a density of 2500 trees per hectare. Total no. of 1761562 saplings will be planted and nurtured in 694.12 ha area in life of mine.

Year wise Plantation Details									
Mine Life Part (yrs.)	Year	Cumulative Plantation Area (Current) (ha)	Total Plantation Area (ha)	Backfilled Area & others' Proposed Plantation (ha)	Safety Zone Proposed Plantation (ha)	Total Plants Proposed to be Planted (nos.)	Cumulative Plants Proposed to be Planted (nos.)	Sal Plantation Proposed (ha)	Cumulative Sal Plantation Area (ha)
1	2021-2022	0	0	0	0	0	0	0	0
2	2022-2023	0.66	0.66	9.97	0.53	1646	1646	0.20	0.20

Year wise Plantation Details									
Mine Life Part (yrs.)	Year	Cumulative Plantation Area (Current) (ha)	Total Plantation Area (ha)	Backfilled Area & others' Proposed Plantation (ha)	Safety Zone Proposed Plantation (ha)	Total Plants Proposed to be Planted (nos.)	Cumulative Plants Proposed to be Planted (nos.)	Sal Plantation Proposed (ha)	Cumulative Sal Plantation Area (ha)
3	2023-2024	10.51	9.85			24616	26262		
4	2024-2025	53.83	43.32	40.89	2.43	108300	134562	17.90	18.10
5	2025-2026	106.98	53.15	50.74	2.41	132875	267437	8.68	26.78
6	2026-2027	142.47	35.49	33.01	2.48	88725	356162	11.04	37.82
7	2027-2028	180.32	37.85	35.10	2.75	94625	450787	11.14	48.96
8	2028-2029	215.39	35.07	35.07		87675	538462	11.17	60.13
9	2029-2030	250.43	35.04	35.04		87600	626062	10.51	70.64
10	2030-2031	285.49	35.06	35.06		87650	713712	10.52	81.16
11	2031-2032	320.49	35.00	35.00		87500	801212	10.50	91.66
12	2032-2033	360.60	40.11	40.11		100275	901487	12.03	103.69
13	2033-2034	400.39	39.79	39.79		99475	1000962	11.94	115.63
14	2034-2035	440.65	40.26	40.26		100650	1101612	12.08	127.71
15	2035-2036	479.37	38.72	38.72		96800	1198412	11.91	139.62
16	2036-2037	527.69	48.32	48.32		120800	1319212	15.00	154.62
17	2037-2038	557.01	29.32	29.32		73300	1392512	9.02	163.64
18	2038-2039	586.29	29.28	29.28		73200	1465712	9.01	172.65
19	2039-2040	615.47	29.18	29.18		72950	1538662	8.85	181.50
20	2040-2041	644.74	29.27	29.27		73175	1611837	7.00	188.50
21	2041-2042	673.95	29.21	29.21		73025	1684862	5.00	193.50
22	2042-2043	703.17	29.22	29.22		73050	1757912	4.00	197.50
23	2043-2044	704.63	1.46	1.46		3650	1761562	2.50	200.00

20.7.16: Project Cost: Capital Cost of Project is Rs. 2259.95 Crores (Existing Cost: Rs 1873.75 Crores & Proposed Expansion Cost: Rs. 386.20 Crores).

20.7.17: R&R Issues: The project involves expansion with increase in production capacity within the existing mine lease area and no land acquisition is involved for expansion. However, the project involves 1386 Project Affected Families and the R&R package is proposed to be 292.60 Crores.

20.7.18: Undertaking/ Affidavit: That construction is done within the mining lease area and there is not any deviation as per the previous EC obtained. That, there is no litigation pending

against the Project in NGT or any court of law. The Suliyari Coal Mine has been allocated to M/sAndhra Pradesh Mineral Development Corporation Limited (APMDC) by Government of India, Ministry of Coal, New Delhi vide order no. F. No. 103/10/2016/NA dated 29.09.2016 through auction. The land acquisition is under process and R&R is being carried out as per the Acts, rules and prevailing guidelines. That, there is no difference in the documents submitted i.e., Common Application Form, Form- 1, EIA/EMP Report with all annexures and presentation being made to the EAC. 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 Sr. No. '1(a)' (Mining of Minerals). Thus, Suliyari Coal Mine project having an area of 1298 Ha which is >500 ha. Hence, it falls under Category 'A'. Therefore, we are submitting the project to MoEF&CC. The company further undertake that the contents of this declaration are true and correct to best of my knowledge and belief, that nothing has been concealed.

Further, through an undertaking, PP submitted that this is to certify that the information provided in CAF, Form-2 in pdf Win PARIVESH, to the Ministry/EAC members and PPT presentation during the EAC meeting to be held on 20th to 23rd January 2025 have no deviation in respect of the Proposal no. IA/MP/CMIN/496827/2024 for Environmental Clearance (EC) of "Suliyari Coal Mine Project of Opencast mining with 7.0 MTPA (Expansion from 5.0 MTPA to 7.0 MTPA in Two Phases of 20% Each) production capacity over ML area 1298 ha located at villages Aamdand, Amraikhoh, Bajaudi, Belwar, Dhirauli, Dongrai, Jhalari, Majhaulipath and Sirswah, Tehsil-Sarai, District-Singrauli, Madhya Pradesh." 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 Environmental Clearance (EC).

20.7.19: 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) Adhinyam 1980, Wildlife Protection Act, MMDR Act, Factories Act. Further, there is no court case on the project.

20.7.20: ADS Information: The proponent submitted the ADS replies vide letter no. APMDC/SCM/ENV/2024-25/658 dated 17.12.2024 uploaded on PARIVESH on 17.12.2024. Point-wise replies of ADS are given as below:

S. No.	ADS POINTS	REPLY
1.	Action Taken Report on the observations reported by the Regional Office in its monitoring report dated 24/07/2024 shall again be submitted by the proponent by explicitly stating the compliance status for all the prescribed EC conditions to the concerned RO, MoEF&CC to obtain their views/comments and the same shall be further submitted to the EAC for consideration in place of the report dated 28/10/2024.	Revised Action Taken Report as per the current site status has been submitted to IRO, Bhopal on 05.12.2024. IRO Bhopal submitted the revised CCR report on dated 17.12.2024 which is uploaded over PARIVESH portal as the ADS reply letter dt. 17.12.2024.

S. No.	ADS POINTS	REPLY
2.	A fresh report for groundwater and surface water quality analysis shall be submitted by the PP covering all the parameters.	An updated monitoring report for groundwater and surface water quality analysis is enclosed as Annexure-2 of the ADS reply letter dt. 17.12.2024.
3.	As per specific condition no. xxvii of EC dated 12.04.2021, study if any, conducted for diversion of Hurdul nallah, shall be submitted with requisite documents. Along with that PP shall submit the NoC obtained from the State Water Resources Department if any for diversion of Hurdul Nallah.	A detailed study report on Hurdul Nallah diversion was prepared by NABET accredited consultant MECON Limited and the same has been approved by the Water Resource Department, Singrauli on 16.12.2019 for Hurdul Nallah diversion. Study Report and Approval letter is enclosed as Annexure-3A and 3B, respectively of the ADS reply letter dt. 17.12.2024.
4.	PP shall submit the NoC from MP Rural Road Development Authority (MPRDA) if any for diversion of a public village road as proposed by the PP.	Public road (PMGSY road 06 km length) falls in coal bearing zone and has to be diverted along the western boundary of the ML area. Tender has been floated by MPRRDA dt. 25.07.2024. Payment deposit evidence to MPRDA and latest communication for development of road is enclosed as Annexure-4 of the ADS reply letter dt. 17.12.2024.
5.	Clarification and permission obtained from NBWL regarding the distance of Tiger reserve ESZ boundary, Wildlife Sanctuary and Tiger Reserve shall be submitted.	A site inspection report of MoEF&CC dated 07.08.2020 is attached as Annexure 5 and a certified map from PCCF (Wildlife) which indicates that there is no national park, Tiger Reserve, etc. in the 10 km area. As per MoEF&CC site inspection report, eco sensitive zone of Sanjay Tiger Reserve is located at a distance of 8.01 Km for which NBWL clearance is not applicable.
6.	PP shall submit the third-party monitoring report (by NEERI/CIMFR/ IIT) for air quality carried out at identified locations both ambient and process area, along with the results and recommendations to assess the efficacy and adequacy of pollution control measures	An Environmental Audit report including ambient air quality was carried out by IIT-BHU. The same is enclosed as Annexure-06 of the ADS reply letter dt. 17.12.2024.
7.	Carrying capacity study report of the Singrauli area carried out during 2023 inter-alia includes the above-mentioned coal mine of M/s. APMDC. In this regard, copy of the carrying capacity study report along with timebound action plan to comply with the recommendations and conclusion (section 5.2) of the said report shall be submitted.	Copy of the carrying capacity study report is submitted along with the ADS reply. The timebound action plan to comply with the recommendations and conclusion (section 5.2) has been submitted.

20.7.21: Written Submissions: Proponent submitted the following details vide letter dated 27.01.2025:

With reference to the discussions held in the EAC meeting, PP submitted the following written submissions:

1. The current proposal is for phase 1 expansion of the mining capacity from 5.0 to 6.0 MTPA
2. The coal handling plant (CHP) will be completed in one year period. An undertaking in this regard is submitted.

3. Plantation in the safety zone on the periphery of mining lease area (approx. 8 km) will be completed by coming monsoon i.e. before September 2025. An undertaking in this regard is submitted.
4. As per existing EC condition transportation of coal is being carried out through covered trucks by road till the time a railway siding is commissioned which is likely to take place in another 3 years. PP will explore the possibility for use of E-vehicles; LNG/CNG based vehicles for transportation of coal. An undertaking in this regard is submitted.
5. The distance of Eco-sensitive Zone (ESZ) of Sanjay Dubri Tiger reserve from the boundary of our coal mine is 7.5 KM. The Copy of the Letter dated 20.01.2025 along with Map is submitted. Henceforth wildlife clearance is not required.
6. A detailed study report on Hurdul Nallah diversion was prepared by NABET accredited consultant MECON Limited and the same has been approved by the Water Resource Department, Singrauli on 16.12.2019 for Hurdul Nallah diversion. The Study Report and Approval letter is submitted. The Hurdul nala diversion was discussed in its 56th EAC meeting held on 30th June 2020 and the nallah will be diverted as per the permission given by the WRD. The same was mentioned in the Environment Clearance letter dated 12th April 2021.

Deliberations and Observation of the Committee:

20.7.22: The Committee noted the following:

- i. Suliyari Mines originally accorded EC vide J-11015/35/2018-IA. II(M) dated 12.04.2021, for production capacity of 5 MTPA over an area of 1298 Ha. The project has been implemented and the mine is under operation.
- ii. The instant proposal is for grant of Environment Clearance to Suliyari Coal Mine by M/s. Andhra Pradesh Mineral Development Corporation Limited (APMDC) located at Villages: Belwar, Bijauri, Dhirali, Dongri, Jhalri, Majholipath, Mohanban, Phatpaani; District: Singrauli; State: Madhya Pradesh for expansion of production capacity from 5 MTPA to 6 MTPA and has applied under 7(ii)(a) of EIA Notification 2006 (as amended) keeping the land area same as 1298 Ha.
- iii. The above EC has been implemented and the proponent has achieved the production capacity of 5 MTPA in the FY 2023-24.
- iv. 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.
- v. The project does not fall in the Critically Polluted Area (CPA) and Severely Polluted Area (SPA) as per CEPI Assessment 2018.
- vi. 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. and there is no violation of WLP Act. A Site Specific Wildlife Conservation Plan (SSWCP) w.r.t. Suliyari Coal Block has been approved by Chief Wildlife Warden (CWLW) cum PCCF (WL), Madhya Pradesh vide letter dated

16.09.2019.

- vii. PP submitted a letter from PCCF dated 20.01.2025, confirming the distance of project site from ESZ of Sanjay Tiger Reserve to be 7.5 km.
- viii. The project involves total 259.239 Ha of forestland. PP obtained Stage – I FC on the same vide F No. 8-02/2020-FC dated 15.12.2020 and obtained Stage – II FC on the same vide F No. 8-02/2020-FC dated 15.06.2022. Committee observed that there is no violation of Van (Sanrakshan Evam Samvardhan) Adhiniyam, 1980.
- ix. Committee deliberated on the Mine Plan & Mine Closure Plan submitted by the PP. PP submitted that the earlier Mine Plan and Mine Closure Plan of Suliyari Coal Block has been approved by MoC vide letter no. F.No.34011-14-2017-CPAM dated 08.07.2019 for 5.0 MTPA. For expansion up to 150% no specific approval is required as per MoC circular dated 29.5.2020, in view of which APMDC board has given an approval for expansion from 5.0 to 7.0 MTPA on dated 05.02.2024. Hence, the PP has submitted the Mine Plan and Mine Closure Plan for proposed expansion in capacity, approved by the APMDC Board.
- x. Life of Mine is 18 years as on 01.04.2024.
- xi. Proposal involves diversion of Hurdul Nallah, which will be diverted along the southern side of the block as per the plan and will join the Sarbahera Nala. Diversion of the same has been approved and NoC from WRD, Singrauli, Madhya Pradesh has been accorded vide letter dated 16.12.2019. Committee observed that the said diversion was already envisaged in the existing EC dated 01.01.2021 and in the present proposal there is no additional diversion proposed. There is no ASI protected archaeological site present in close proximity to the ML area.
- xii. Committee opined that water shed/Natural drainage shall get carefully managed so that flow of water should go down side in the main streams/nalla.
- xiii. Committee observed that Ground water withdrawal permission has been obtained from Central Ground Water Authority (CGWA) vide NOC no. CGWA/NOC/MIN/REN/1/2022/7166 which was valid from 13.03.2022 to 12.03.2024. Further, a fresh renewal application has been submitted vide application no. 21-4/843/MP/MIN/2019 dt. 07.03.2024, in accordance with the CGWA notification dt. 14.09.2020.
- xiv. Committee deliberated on the baseline data submitted by the proponent and observed that the levels of PM₁₀ are on the higher side and control measures for the same are required to be undertaken.
- xv. Committee deliberated on the plantation activities undertaken by the proponent and observed that the existing green belt has been developed in 40.08 ha area which is about 3.0847 % of the total project area of 1298 with total sapling of 100200 nos. of Trees. The proposed greenbelt will be developed in 694.12 ha, which is about 53.47 % of the total project area. A 7.5 m wide greenbelt, consisting of at least 3 tiers around boundary of mine lease area and vacant places will be developed as greenbelt and green cover as

per CPCB/ MoEF&CC. Local and native species are being planted with a density of 2500 trees per hectare. Total no. of 1761562 saplings will be planted and nurtured in 694.12 ha area in life of mine.

- xvi. Committee opined that PP shall carry out the plantation in the safety zones and on the periphery of the mine lease and the same shall be completed before the monsoon of 2025. PP submitted an undertaking in this regard.
- xvii. Committee also opined that PP should distribute saplings of fruit bearing species in the nearby villages and R&R colonies and incentivize the villagers for its survival.
- xviii. Total geographical reserves are reported to be 142.36. Out of which mineable reserves are 113.08 MT and extractable reserves are 107.43 MT. Percentage of extraction is 86.71%.
- xix. There are total 15 major coal seams. With thickness of seams to be worked on will be between 0.5m to 5.82m. Coal to be extracted will be of G7 grade.
- xx. Committee deliberated on the mode of transportation and observed that CHP and conveyor belt is under construction and accordingly the road transportation of coal will be significantly reduce. Committee opined that the construction work shall be completed within next 1 year. Committee also observed that railway siding is likely to be commissioned in next 3 years and accordingly the PP should take control measures to mitigate the pollution being done due to road transportation of coal. PP submitted and undertaking for the same.
- xxi. PP also submitted that a dedicated coal transportation road is under construction which is away from habitation. Committee opined that 3 tier plantation shall be developed on both the sides of the CTR.
- xxii. Committee deliberated that Occupational Health study shall be conducted by the Central Institute of Mining and Fuel Research (CIMFR) to aware the employees, preventing injury, and reducing the health issues in the workplace. All the recommendations of the study shall be complied by the proponent and project for next phase of expansion shall be submitted only after the compliance of the same.
- xxiii. There are no court cases pending against the proposed the project.
- xxiv. The EAC also deliberated on the additional information as well as written submission of the project proponent and found it satisfactory.

20.7.23: Recommendations of the Committee:

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

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

A. Specific Conditions:

- i. 1386 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.
- ii. Project proponent shall divert Hurdul Nallah only after obtaining NoC from the Water Resource Department, Government of Madhya Pradesh. The diversion of Nallah/Canal shall be monitored by RO and complete report with the drone video and satellite imagery shall be submitted to concern Regional Office of MoEF&CC along with the six monthly compliance report. PP shall maintain 50 mts width of embankment all along the diverted nallah/canal and shall carry out dense plantation with fruit bearing native species.
- iii. Total water requirement for the proposed project is 1717KLD and the same shall be met from groundwater and mine water. PP shall obtain requisite NoC for withdrawal of Groundwater from CGWA prior to the commencement of expansion mining operations.
- iv. Plantation shall be carried out in the safety zone, both sides of the coal transportation road and on the periphery of the mine lease before the onset of monsoon in the current year 2025.
- v. The construction of Coal handling plant (CHP) shall be completed within a year from the date of grant of EC, as committed.
- vi. PP shall carry out coal transportation by road through covered trucks till the railway siding is commissioned. Railway siding shall be commissioned within three years from the date of grant of EC.
- vii. PP shall develop greenbelt in 694.12 ha, which is about 53.47 % of the total project area. A 7.5 m wide greenbelt, consisting of at least 3 tiers around boundary of mine lease area and vacant places shall be developed as greenbelt and green cover as per CPCB/MoEF&CC. Local and native species shall be planted with a density of 2500 trees per hectare. Total no. of 1761562 saplings shall be planted and nurtured in 694.12 ha area in life of mine. In addition to this, PP shall provide 50,000 plant saplings with 4 feet tall fruit bearing plants to farmers for plantation in barren and agriculture lands in the study area every year for 5 years with incentive to improve the green cover in and around the mine lease area. Besides, project proponent shall carry out three tier plantation along the coal transportation route. Compliance in this regard shall be submitted along with the six monthly compliance to the concerned Regional Office and also kept on the web portal of the company.
- viii. PP shall strengthen the existing Primary Health Center (PHC) & Community Health Center (CHC) in the study area for better public health. As committed by the PP, PHCs & CHCs within the core and buffer zone shall be supported with adequate budget over 5 years, 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.

- ix. 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 791 lakhs (Capital) and Rs 391 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.
- x. Hon'ble Supreme Court in an Writ Petition(s) Civil No. 114/2014, Common Cause vs Union of India &Ors vide its judgement dated 8th January, 2020 has directed the Union of India to impose a condition in the mining lease and a similar condition in the environmental clearance and the mining plan to the effect that the mining lease holders shall, after ceasing mining operations, undertake re-grassing the mining area and any other area which may have been disturbed due to their mining activities and restore the land to a condition which is fit for growth of fodder, flora, fauna etc. Compliance of this condition after the mining activity is over at the cost of the mining lease holders/Project Proponent". The implementation report of the above said condition shall be sent to the Regional Office of the MoEF&CC.
- xi. 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.
- xii. PP shall ensure that all types of plastic waste generated from the plant shall be stored separately in isolated area and disposed of strictly adhering to the Plastic Waste Management Rules 2016 (as amended). In pursuant to the Ministry's OM dated 18/07/2022. PP shall also create awareness among the people working in the project area as well as in its surrounding area on the ban on Single Use Plastic (SUP) in order to ensure compliance of Ministry's Notification published by the Ministry on 12/08/2021. A report along with photograph on the measures taken shall also be included in the six monthly compliance report being submitted by PP.
- xiii. Water shed/Natural drainage shall be carefully managed so that flow of water should go down side in the main streams/nallah.
- xiv. PP shall carry out Occupational Health study by the Central Institute of Mining and Fuel Research (CIMFR) to aware the employees, preventing injury, and reducing the health issues in the workplace. All the recommendations of the study shall be complied by the proponent and project for next phase of expansion shall be submitted only after the compliance of the same.
- xv. Project proponent is advised to implement the 'Ek Ped Maa Ke Naam' Campaign which was launched on 5th June 2024 on the occasion of the World Environment Day to increase the forest cover across the Country. This plantation drive is other than Green belt development. The action in this regard shall be submitted concerned RO in six monthly report.

- xvi. 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.

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. The project proponent shall obtain clearance from the National Board for Wildlife, if applicable.
- iii. 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.
- iv. The maximum production or peak production at any given time shall not exceed the limit as prescribed in the EC.
- v. Validity of EC is as per life of the mine mentioned in EC letter or 30 years as per EIA Notification, 2006 and its amendments therein.

2. Air Quality Monitoring and Mitigation Measures

- i. Project proponent shall obtain requisite consent from State Pollution Control Board for 6 MTPA coal mining.
- ii. Adequate ambient air quality monitoring stations shall be established in the core zone as well as in the buffer zone for monitoring of pollutants, namely particulates, SO₂ and NO_x. 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.
- iii. The Ambient Air Quality monitoring in the core zone shall be carried out to ensure the Coal Industry Standards notified vide GSR 742 (E) dated 25th September 2000 and as amended from time to time by the Central Pollution Control Board. Data on ambient air quality and heavy metals such as Hg, As, Ni, Cd, Cr and other monitoring data shall be regularly reported to the Ministry/Regional Office and to the CPCB/SPCB.
- iv. Effective control measures such as regular water sprinkling/rain gun/ Fog cannon /mist sprinkling etc., shall be carried out in critical areas prone to air pollution with higher level of particulate matter all through the coal transport roads, loading/unloading and transfer points. Fugitive dust emissions from all sources shall be controlled regularly. It shall be ensured that the ambient air quality parameters conform to the norms prescribed by the Central/State Pollution Control Board.
- v. Major approach roads shall be black topped and properly maintained.
- vi. Vehicular emissions shall be kept under control and regularly monitored. All the vehicles engaged in mining and allied activities shall operate only after obtaining 'PUC' certificate from the authorized pollution testing centres.
- vii. PP should Install Wind breaker/shield arrangement along the railway siding for reducing the dust propagation in upwind direction.

3. Water Quality Monitoring and Mitigation Measures

- i. PP shall take approval from the CGWA/ Competent Authority prior to commencement of mining operations.
- ii. The effluent discharge (mine waste water, workshop effluent) shall be monitored in terms of the parameters notified under the Water Act, 1974 Coal Industry Standards vide GSR 742 (E) dated 25th September 2000 and as amended from time to time by the Central Pollution Control Board.
- iii. The monitoring data shall be uploaded on the company's website and displayed at the project site at a suitable location. The circular No.J-20012/1/2006-1A.11 (M) dated 27th May 2009 issued by Ministry of Environment, Forest and Climate Change shall also be referred in this regard for its compliance.
- iv. Garland drains (of suitable size, gradient and length) around the critical areas i.e. mine shaft and low lying areas, 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
- v. The water pumped out from the mine, after siltation, shall be utilized for industrial purpose viz. watering the mine area, roads, green belt development etc. The drains shall be regularly desilted particularly after monsoon and maintained properly
- vi. Industrial wastewater from coal handling plant and mine water shall be properly collected and treated so as to conform to the standards prescribed under the Environment (Protection) Act, 1986 and the Rules made thereunder, and as amended from time to time. Oil and grease trap shall be installed before discharge of workshop effluent. Sewage treatment plant of adequate capacity shall be installed for treatment of domestic wastewater.
- vii. The surface drainage plan including surface water conservation plan for the area of influence affected by the said mining operations shall be prepared, considering the presence of any river/rivulet/pond/lake etc., with impact of mining activities on it, and implemented by the project proponent. The surface drainage plan and/or any diversion of natural water courses shall be as per the provisions of the approved Mining Plan/ EIA-EMP submitted to this Ministry and the same should be done with due approval of the concerned State/GoI Authority. The construction of embankment to prevent any danger against inrush of surface water into the mine should be as per the approved mining plan and as per the permission of DGMS.
- viii. 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 revarian /riparian ecosystem conservation and management plan should be prepared and implemented in consultation with the irrigation / water resource department in the state government.
- ix. Industrial effluent and domestic wastewater shall be treated in the Effluent treatment Plant (ETP) and Sewage Treatment Plant (STP). After treatment, treated water shall be reused for plantation.

4. Noise and Vibration Monitoring and Prevention

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

5. Mining Plan

- i. Project proponent shall obtain star rating as per the guidelines of Ministry of Coal.
- ii. Mining shall be carried out under strict adherence to provisions of the Mines Act 1952 and subordinate legislations made there-under as applicable.
- iii. No change in mining method, calendar programme and scope of work shall be made without obtaining prior approval of the Ministry of Environment, Forests and Climate Change (MoEFCC).
- iv. 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 circulars issued by Directorate General Mines Safety (DGMS).
- v. Efforts should be made to reduce energy and fuel consumption by conservation, efficiency improvements and use of renewable energy.

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) from time to time shall be submitted to the Regional Office of MoEF&CC.
- ii. The final mine void depth should preferably be as per the approved Mine Closure Plan, and in case it exceeds 40 m, adequate engineering interventions shall be provided for sustenance of aquatic life therein. The remaining area shall be backfilled and covered with thick and alive top soil. Post-mining land be rendered usable for agricultural/forestry purposes and shall be diverted. Further action will be treated as specified in the guidelines for Preparation of Mine Closure Plan issued by the Ministry of Coal dated 27th August, 2009 and subsequent amendments.
- iii. The entire excavated area, backfilling, external OB dumping (including top soil) and afforestation plan shall be in conformity with the “during mining”/“post mining” land-use pattern, which is an integral part of the approved Mining Plan and the EIA/EMP submitted to this Ministry. Progressive compliance status vis-a-vis the post mining land use pattern shall be submitted to the MOEFCC/RO.

- iv. Further, it may be ensured that as per the time schedule specified in mine closure plan it should remain live till the point of utilization. The topsoil shall temporarily be stored at earmarked site(s) only and shall not be kept unutilized. 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.
- v. 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.

7. Public Hearing and Human Health Issues:

- i. Adequate illumination shall be ensured in all mine locations (as per DGMS standards) and monitored.
- ii. The project proponent shall undertake occupational health survey for initial and periodical medical examination of the personnel engaged in the project and maintain records accordingly as per the provisions of the Mines Rules, 1955 and DGMS circulars. Besides regular periodic health check-up, 20% of the personnel identified from workforce engaged in active mining operations shall be subjected to health check-up for occupational diseases and hearing impairment, if any, as amended time to time
- iii. 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.
- iv. 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.
- v. Effective arrangement shall be made to provide and maintain at suitable points conveniently situated, a sufficient supply of drinking water for all the persons employed.
- vi. 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. Corporate Environment Responsibility:

- i. The company shall have a well laid down environmental policy duly approve by the Board of Directors. The environmental policy should prescribe for standard operating procedures to have proper checks and balances and to bring into focus any infringements/deviation/violation of the environmental/forest/wildlife norms/conditions. The company shall have defined system of reporting infringements/deviation/violation of the environmental/forest/wildlife

norms/conditions and/or shareholders/stake holders

- ii. A separate Environmental Cell both at the project and company head quarter level, with qualified personnel shall be set up under the control of senior Executive, who will directly to the head of the organization.

9. Miscellaneous:

- i. The project proponent shall make public the environmental clearance granted for their project along with the environmental conditions and safeguards at their cost by prominently advertising it at least in two local newspapers of the District or State, of which one shall be in the vernacular language within seven days and in addition this shall also be displayed in the project proponent's 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 environment clearance portal.
- v. 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.
- vi. The project authorities shall inform to the Regional Office of the MOEFCC regarding commencement of mining operations.
- vii. The project authorities must strictly adhere to the stipulations made by the State Pollution Control Board and the State Government.
- viii. 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.
- ix. No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment, Forests and Climate Change (MoEF&CC).
- x. 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.
- xi. The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.
- xii. The Ministry reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.
- xiii. 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

- xiv. 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 No. 20.8

20.8: Jamkhani Coal Mine (area 847 Ha having capacity 2.6 MTPA) by M/s Vedanta Limited, located at Villages: Amgaon, Girisuan, Jamukani, Jharpalanka, Mendara, Nagramunda & Tangarghat; District: Raigarh & Sundargarh; State: Chhattisgarh & Odisha – Regarding amendment in EC for time extension for transportation of coal by road and installation of inpit conveyor system and RLS with conveyor belt system & extension in timeline for miyawaki plantation along the periphery of mine boundary.

[Online Proposal No. IA/OR/CMIN/507230/2024; Consultant: VARDAN ENVIRONET, NABET/EIA/2326/RA 0284, valid up to 04.05.2026]

20.8.1: The instant proposal is for amendment in Environment Clearance granted to M/s. Vedanta Limited accorded vide Letter no. J-11015/322/2007-IA.II(M) dated 17th March, 2022, for Jamkhani Coal Mine(area 847 Ha having capacity 2.6 MTPA) located at Villages: Amgaon, Girisuan, Jamukani, Jharpalanka, Mendara, Nagramunda & Tangarghat; District: Raigarh & Sundargarh; State: Chhattisgarh & Odisha.

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

S. No.	Details of letter no.	EC/Expansion EC/Amendment in EC/validity Transfer/Transfer of EC	Capacity (MTPA)	Area (ha)	Date of issuance	Status of implementation
1.	J-11015/322/2007-IA.II(M)	Environment Clearance (EC)	2.6 MTPA	999.55	24.09.2008	Implemented
2.	J-11015/322/2007-IA.II(M)	Transfer of EC	2.6 MTPA	847.00	17.03.2022	Implemented

The Ministry of Environment, Forest and Climate Change (MoEFCC) vide its letter no. J-11015/322/2007-IA.II(M) dated 24th September, 2008 had granted Environment Clearance to proposed Jhamkhani Coal Mine Project (2.6 MTPA) to M/s Bhushan Power & Steel Limited.

Hon'ble Supreme Court of India vide judgment dated 25th August, 2014 read with the order dated 24th September, 2014 has cancelled the allocation of 204 coal blocks and issued directions with regard to such coal blocks wherein the Central Government in pursuance of the said directions has to take immediate action to implement the said order. Subsequently, Ministry of Coal, O/o of Nominated Authority vide Allotment order No. NA- 104/2/2019-NA

dated 10th February, 2020 under clause (b) of sub-rule (2) of rule 7 and sub-rule (1) of rule 13 has allotted "Jamkhani Coal Mine" in favour of M/s Vedanta Limited.

MoEF&CC vide Gazette Notification S.O. 811(E) Notification dated 23.03.2015, has made amendments to paragraph 11 in the Gazette Notification S.O.1533 (E) dated 14th September, 2006. Vide the said amendment; where an allocation of coal block is cancelled in any legal proceeding; or by the Government in accordance with law, the environmental clearance granted in respect of such coal block may be transferred, subject to the same validity period as was initially granted, to any legal person to whom such block is subsequently allocated, and in such case, obtaining of "no objection" from either the holder of environment clearance or from the regulatory authority concerned shall not be necessary and no reference shall be made to the Expert Appraisal Committee or the State Level Expert Appraisal Committee concerned.

Based on Ministry of Coal Allotment/ vesting Order no. NA-104/2/2019-NA dated 10th February, 2020 and MoEFCC Gazette Notification dated 23rd March, 2015 and recommendation of EAC, the EC granted vide its letter no. J-11015/322/2007-IA.II(M) dated 24th September, 2008 was transferred with amendment by reducing the area from 999.55 to 847 ha from M/s Bhushan Power & Steel Ltd to M/s Vedanta Limited for Jamkhani Coal Mine Project with production capacity of 2.6 MTPA in an Mine lease area of 847 Ha.

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

20.8.3: Present status of implementation of EC for which amendment is sought: W.r.t the previous approvals, PP submitted the actual production details of the concerned mine and submitted that the mine became operational from Nov 2022 onwards. CTO renewal has been obtained from the SPCB and is valid up to 31.03.2025. Details of the same are as follows:

Year	Actual Coal Production in MTPA	Planned coal production in MTPA as per Environmental Clearance	Excess Production
2022-2023	0.693	2.6	NIL
2023-2024	2.12	2.6	NIL
2024-2025 (Till December 2024)	1.275	2.6	NIL

20.8.4: Details regarding amendment sought in the EC dated 17.03.2022:

Specific/ General Conditions	Details of Conditions	Amendment Sought	Justification
Special Condition (ix)	<i>PP shall install inpit conveyor system and commence Rapid loading system with conveyor belt system by March 2025 and no road transportation shall be carried out after March 2025 and no CTO of road transfer shall be granted by</i>	Extension of Time period for further 5 years i.e. till FY 2030	The mine has been operationalized in Nov 2022. The mine is yet to achieve its full capacity and is being progressively developed to win all the coal seams. Inpit conveyor system and Rapid loading system with conveyor belt system depends on the extension of Govt. railway line (SECR) from Sardega to Bhalumunda. This project is expected to be completed by the Govt, by the fiscal year 2028-29. Therefore, the installation of In- pit conveyor system and RLS shall be completed

Specific/ General Conditions	Details of Conditions	Amendment Sought	Justification
	<i>SPCB afterward.</i>		parallelly by FY 2030 and 100% coal transportation will be through Rail thereafter.
Special Condition (xiv)	<i>PP shall plant 50 mtrs width with Miyawaki tree plantation system all along the periphery of the Mine boundary within 2 years.</i>	Extension of Time period for further 4 years i.e. till FY 2028	The project has faced severe resistance from local population to start the mine and thereafter to operate the mine in last 2 years. The project is now getting stabilized with various initiatives of the company for the local population. Vedanta Limited is committed for sustainable development and shall be completing Miyawaki plantation by FY 28.

20.8.5: Traffic Impact Assessment Report: Findings of the traffic impact assessment report submitted by the PP are as follows:

1. Coal transportation route

At present, the coal is mined out from pit using surface miners and transported to the stockyard using dumpers via haul roads. From the stockyard, the coal is loaded into trucks and transported to Vedanta Limited Captive Power Plant- 1X600 MW at Jharsuguda, Odisha. Three transportation routes are being used:

Route 1: From mine to PISK siding covering a road distance of 50.6 km. At present 38% coal is being dispatched through this mode.

Route 2: From mine to Kanika siding covering a road distance of 50.0 km. At present 32% coal is being dispatched through this mode.

Route 3: From mine to power plant via road covering a road distance of 101.66 km. At present 30% coal is being dispatched through this mode.

2. Traffic Survey:

The traffic density was monitored at the seven locations namely, Mettaled Road Near Bhograkachhar Village, Sundargarh-Raigarh Road Near Bangursia Village, Near Tilaga Village, Sundargarh-Raigarh Road Near Gopalpur Village, Sundargarh-Raigarh Road Near Bandhapali Village, SH-10 Near Jharianair Village and Kanika Road Near Hemgir. The monitoring was done for a period of 24 hours continuously.

Existing Traffic Scenario

Location	Existing Volume	Capacity in PCU/day
Mettaled Road Near Bhograkachhar Village	1248	15000
Sundargarh-Raigarh Road Near Bangursia Village	4494	15000
Near Tilaga Village	5031	15000

Location	Existing Volume	Capacity in PCU/day
Sundargarh-Raigarh Road Near Gopalpur Village	5304	15000
Sundargarh-Raigarh Road Near Bandhapali Village	5495	15000
SH-10 Near Jharianair Village	5683	15000
Kanika Road Near Hemgir	5406	15000

Currently, coal-loaded trucks from the Jamkhani Coal Mine, along with additional trucks from other mines, are also being transported via road to the railway siding. Traffic study was conducted at seven locations to assess the traffic load on existing roads. The Level of Service (LOS) analysis indicates that the traffic scenario at location Mettaled Road Near Bhograkachhar Village is rated as “Excellent” while the remaining six locations are rated as “Very Good” reflecting a free flow of vehicles during the study period.

Traffic Management: PUC certified vehicles are used for the transportation of coal. Regular maintenance of roads and widening of critical sections to ensure smooth traffic flow. GPS tracking vehicles is being used for the coal transport. Traffic awareness programme for workers, villagers and other persons in related routes shall be conducted. Restrict coal transportation during peak hours to reduce congestion. Construction of wheel washing arrangements is under process at mine exit point. The drivers shall be sensitized to their specific work to minimize accidents and pollution.

3. Ambient Air Quality:

Seven (07) numbers of monitoring stations were set up to assess the existing air quality of transportation road. The monitoring was done for a period of 24 hours continuously.

Name of Location	Road Leading To	PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)	NO ₂ (µg/m ³)	SO ₂ (µg/m ³)	CO (mg/m ³)
Burapahar	Mine to Mundelkhet at Sundargarh Raigarh Road	76.3	45.5	28.6	20.6	0.72
Bangurasia	Sundargarh (Odisha) to Raigarh (CG)	81.5	50.1	32.8	23.5	0.77
Tilga	Gowerdhanpur to Patrapali (PISK Siding)	78.3	48.2	30.2	21.2	0.75
Gopalpur	Sundargarh (Odisha) to Raigarh (CG)	88.1	54.3	33.8	21.5	0.86
Bandhapali	Sundargarh (Odisha) to Raigarh (CG)	70.3	38.5	21.8	16.5	0.61
Jhariyanair	Sundargarh to Sambalpur (SH10)	86.3	52.1	35.2	22.5	0.82
Hemgir	Duduka to Kanika (Kanika)	68.2	37.5	20.5	14.3	0.57

Name of Location	Road Leading To	PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)	NO ₂ (µg/m ³)	SO ₂ (µg/m ³)	CO (mg/m ³)
	Siding)					

The results of the monitored data indicate that the ambient air quality of the region in general is in conformity with the National Ambient Air Quality Standards with present level of activities. Ambient Air Quality Monitoring reveals that the maximum value for PM₁₀ and PM_{2.5} is observed at Gopalpur station, as 88.1 µg/m³ and 54.3 µg/m³, respectively, and the minimum values for PM₁₀ and PM_{2.5} are observed at Hemgir Village as 68.2 µg/m³ and 37.5 µg/m³, respectively. The maximum value concentration of SO₂ is observed at Bangurasia station, as 23.5 µg/m³, and the minimum value observed at Hemgir as 14.3 µg/m³. The maximum value concentration of NO₂ is observed at Jhariyanair station, as 35.2 µg/m³, and the minimum value observed at Hemgir as 20.5 µg/m³. The concentrations of CO for all the 7 AAQM stations were found between 0.86 to 0.56 mg/m³, higher value is observed at the Gopalpur location. The higher value of CO may be due to use of unconventional source of fuel like wood for household activities.

Air Quality Control Measures: Ensure vehicles transporting coal are covered with tarpaulins to prevent spillage and dust emissions. Use of low-emission vehicles and adherence to PUC (Pollution under Control) certification requirements. Water sprinkling is being done on haul road. Regular maintenance of Dumper / Tippers to keep emissions under control. Ensure all vehicles comply with emission standards (use of BS-VI compliant trucks or equivalent). All transportation will be undertaken along pre-designated routes. Limiting the travel speeds (40-60 km/hr) based on road conditions and surrounding sensitivities like community area, forest area, hospital, school etc. Trucks to be fitted with satellite tracking devices (wherever possible) for compliance of speed and pre-designated route by drivers.

3. Noise Levels:

The study was undertaken to assess the extent of noise levels along the coal transportation road. Noise levels were measured at seven (7) locations within the study area namely Burapahar, Bangurasia, Tilga, Gopalpur, Bandhapali, Jhariyanair and Hemgir.

Noise Level Data

Locations	Lmax		Lmin		Leq	
	Day	Night	Day	Night	Day	Night
Burapahar	74.30	64.10	41.10	33.30	52.36	43.15
Bangurasia	71.40	62.50	37.20	31.50	48.36	42.84
Tilga	68.50	63.40	40.10	31.30	50.28	41.64
Gopalpur	69.10	66.40	39.20	34.50	54.22	42.75
Bandhapali	73.10	65.50	43.50	32.20	53.68	42.16
Jhariyanair	70.20	64.30	39.80	31.70	50.11	40.28
Hemgir	72.30	66.70	39.50	31.20	50.62	41.28

The day equivalent values in the study area are varying from 48.36 to 54.22 dB(A) and the night equivalent values varying from 40.28 to 43.15 dB(A), both day and night equivalents were found within the limits of ambient noise as per Noise Regulation (Pollution & Control) Rules, 2000.

Noise Mitigation Measures: Minimize the use of horns and enforce speed limits in sensitive areas. Use vehicles equipped with noise-dampening technology. Regular maintenance of vehicle components like engines and brakes to reduce noise emissions Prohibit the use of horns

in residential and sensitive areas. Regularly measure noise levels (dB) at key locations along transportation routes. Monitoring and Continuous Improvement.

20.8.6: Details of Court Cases: 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 1980, Wildlife Protection Act, MMDR Act, Factories Act.

20.8.7: Written Submission/undertaking: PP vide letter dated 22.01.2025, has submitted an undertaking that they will try to install the inpit conveyor system and commence RLS with conveyor belt system in the coming two year period subject to further development/ completion of the upcoming government railway line from Sardega to Bhalmuda.

Observations and deliberation of the Committee:

20.8.8: The EAC noted the following:

1. Environment Clearance was earlier granted vide letter no. J-11015/322/2007-IA.I(M), dated 24.09.2008 in favor of M/s Bhushan Power & Steel Ltd. Hon'ble Supreme Court of India vide judgment dated 25th August, 2014 read with the order dated 24th September, 2014 has cancelled the allocation of 204 coal blocks and issued directions with regard to such coal blocks wherein the Central Government in pursuance of the said directions has to take immediate action to implement the said order. Subsequently, Ministry of Coal, O/o of Nominated Authority vide Allotment order No. NA-104/2/2019-NA dated 10.02.2020 under clause (b) of sub-rule (2) of rule 7 and sub-rule (1) of rule 13 has allotted "Jamkhani Coal Mine" in favour of M/s Vedanta Limited.
2. The MoEF&CC transferred the EC from M/s Bhushan Power & Steel Ltd to M/s Vedanta Limited vide letter no. J-11015/322/2007-IA.II(M), dated 17.03.2022. Committee observed that the EC was transferred along with amendment by reducing the ML area and subject to certain conditions. In the instant proposal, PP has sought amendment in two of the conditions stipulated in the EC dated 17.03.2022.
3. PP sought amendment in the specific condition no. ix, of EC dated 17.03.2022. As per the EC letter, the said condition states “PP shall install inpit conveyor system and commence Rapid loading system with conveyor belt system by March 2025 and no road transportation shall be carried out after March 2025 and no CTO of road transfer shall be granted by SPCB afterward”. PP sought extension in timeline for installation of the inpit conveyor system and commence the Rapid Loading System with conveyor belt till FY 2030, i.e., for further 5 years.

Committee deliberated on the progress made so far in installation of the inpit belt conveyor and RLS. Committee observed that the mine became operational in November 2022 and is yet to achieve its full capacity. PP submitted that as of now, feasibility study for inpit belt conveyor and RLS is being carried out by M/s Assytem India Ltd. Proposed layout is designed considering long term planning, full strike length, mine expansion and upcoming railway infrastructure. The Proposed layout of Inpit conveyor system aligned with the mine plan is falling in center of the lease. There are two villages falling in the vicinity which are being focused upon for Rehabilitation. The inpit conveyor system is further aligned with development of RLS with conveying system,

railway track & upcoming Govt. railway line (SECR) from Sardega to Bhalumunda. This project is expected to be completed by the Govt, by the fiscal year 2028-29.

Committee advised the proponent to revisit the timeline for installation of inpit belt conveyor and commissioning of RLS with belt conveyor. PP vide letter dated 22.01.2025 has submitted an undertaking that they will try to install the inpit conveyor system and commence RLS with conveyor belt system in the coming two year period subject to further development/ completion of the upcoming government railway line from Sardega to Bhalumunda.

4. Another amendment sought by the proponent is in the specific condition no. xiv. of EC dated 17.03.2022. As per the EC letter, the said condition stated, “PP shall plant 50 mtrs width with Miyawaki tree plantation system all along the periphery of the Mine boundary within 2 years”. According to the condition quoted in the EC, the said condition was supposed to be implemented by 17.03.2024. PP submitted that due to severe resistance faced from the local population, project is yet to be achieve its full capacity as the project could not be operationalized on time. The project is now getting stabilized with various initiatives of the company for the local population. PP has sought Extension of Time period for further 4 years i.e. till FY 2028.

Committee deliberated on the plantation done by the PP till now and observed that plantation has been done in more than 18 ha area (safety zone, gap plantation, etc) with 28,901 nos of plants. PP has also initiated trial for miyawaki plantation with approximately 8000 nos of plants and same is being monitored. PP also submitted the plan and layout for proposed miyawaki plantation and hence sought extension in timeline for the same till FY 2028.

Committee opined that Miyawaki tree plantation system all along the periphery of the Mine boundary should be completed by March, 2026.

5. Committee deliberated on the Traffic Impact Assessment Report submitted by the proponent and observed that currently, coal-loaded trucks from the Jamkhani Coal Mine, along with additional trucks from other mines, are being transporting coal via road to the railway siding. Traffic study was conducted at seven locations to assess the traffic load on existing roads. The Level of Service (LOS) analysis indicates that the traffic scenario at one location is rated as “Excellent” while the remaining six locations are rated as “Very Good” reflecting a free flow of vehicles during the study period. Committee observed that PUC certified vehicles are used for the transportation of coal, regular maintenance of roads and widening of critical sections to ensure smooth traffic flow, GPS tracking vehicles is being used for the coal transport, traffic awareness programme for workers, villagers and other persons in related routes is being conducted, coal transportation is restricted during peak hours to reduce congestion, construction of wheel washing system is under process at mine exit point and drivers are sensitized to their specific work to minimize accidents and pollution.

Committee also took into consideration the AAQ monitoring report of the coal transportation road and observed that the maximum value for PM₁₀ and PM_{2.5} is

observed at Gopalpur station, as 88.1 µg/m³ and 54.3 µg/m³, respectively and the minimum values for PM₁₀ and PM_{2.5} are observed at Hemgir Village as 68.2 µg/m³ and 37.5 µg/m³, respectively.

The maximum value concentration of SO₂ is observed at Bangurasia station, as 23.5 µg/m³, and the minimum value observed at Hemgir as 14.3 µg/m³. The maximum value concentration of NO₂ is observed at Jhariyanair station, as 35.2 µg/m³, and the minimum value observed at Hemgir as 20.5 µg/m³. The concentrations of CO for all the 7 AAQM stations were found between 0.86 to 0.56 mg/m³, higher value is observed at the Gopalpur location. The higher value of CO is reported due to use of unconventional source of fuel like wood for household activities. PP also submitted the air quality control measures being undertaken such as, ensuring vehicles transporting coal are covered with tarpaulins to prevent spillage and dust emissions, use of low-emission vehicles and adherence to PUC (Pollution under Control) certification requirements, water sprinkling is being carried out on haul road regularly, regular maintenance of Dumper / Tippers to keep emissions under control, etc.

Committee also considered the noise levels monitored by the proponent along the coal transportation route and observed that The day equivalent values in the study area are varying from 48.36 to 54.22 dB(A) and the night equivalent values varying from 40.28 to 43.15 dB(A), both day and night equivalents were found within the limits. Mitigation measures being undertaken for the same are also submitted by the proponent, such as minimum the use of horns and enforced speed limits in sensitive areas, use of vehicles equipped with noise-dampening technology, regular maintenance of vehicle components like engines and brakes to reduce noise emissions, etc.

Recommendations of the Committee:

20.8.9: In view of the foregoing and after the detailed deliberations, the Committee *partially recommended* the instant proposal for grant of amendment in the EC granted vide letter no. J-11015/322/2007-IA.II(M) dated 17.03.2022 as detailed below **subject to uploading of written submissions/undertaking on PARIVESH portal**. Other terms and conditions prescribed in EC letter dated 17.03.2022 shall remain unchanged:

Reference in EC letter dated 17.03.2022	Description as per approved EC letter dated 17.03.2022	Amendment sought in EC	Recommendation of EAC
Special Condition (ix)	PP shall install inpit conveyor system and commence Rapid loading system with conveyor belt system by March 2025 and no road transportation shall be carried out after March 2025 and no CTO of road transfer shall be granted by SPCB afterward.	Extension of Time period for further 5 years i.e. till FY 2030	Partially Agreed Concerning to the changes in specific condition no. ix of EC dated 17.03.2022, Committee recommended to amend the specific condition no. ix as follows: “PP shall install inpit conveyor system and commence Rapid loading system (RLS) with conveyor belt system by March 2027 and no road transportation shall be carried

Reference in EC letter dated 17.03.2022	Description as per approved EC letter dated 17.03.2022	Amendment sought in EC	Recommendation of EAC
			<i>out after March 2027 and no CTO of road transportation of coal shall be granted by SPCB afterward.”</i>
Special Condition (xiv)	PP shall plant 50 mtrs width with Miyawaki tree plantation system all along the periphery of the Mine boundary within 2 years.	Extension of Time period for further 4 years i.e. till FY 2028	Agreed Concerning to the changes in specific condition no. xiv of EC dated 17.03.2022, Committee recommended to amend the specific condition no. xiv as follows: <i>“PP shall plant 50 mtrs width with Miyawaki tree plantation system all along the periphery of the Mine boundary by March 2028”</i>

Additional Specific Conditions

- i. Ambient Air Quality (AAQ) and Noise quality data along the entire coal transportation route shall be monitored and the data shall be submitted along with the six monthly compliance to the concerned Regional Office and also kept on the web portal of the company.
- ii. All the recommendations made in the Traffic Assessment Study Report regarding coal transportation by road shall be strictly adhered with. PP shall install one CAAQMS along the coal transportation road in consultation with the OSPCB. Compliance in this regard shall be submitted along with the six monthly compliance to the concerned Regional Office and also kept on the web portal of the company.
- iii. Additional air pollution control measures should be taken along roads being used for transport of coal including e-/CNG/LNG vehicles.
- iv. PP shall adopt wildlife protection measures including creating awareness among the drivers, sensitizing the drivers about prevention of road kills and handling of wildlife encounters while driving through forest areas and speed governors must be installed in the coal transporting trucks/dumpers.
- v. Project proponent shall carry out three tier plantation along the coal transportation route. Compliance in this regard shall be submitted along with the six monthly compliance to the concerned Regional Office and also kept on the web portal of the company.

Agenda No. 20.9

20.9.1: Balabhadra OCP (area 514.48 Ha having capacity 10 MTPA) by M/s Mahanadi Coalfields Limited, located at Villages: Kumunda, Chitalapur, Banabasapur, Parabeda and Maradhariharpur; District: Angul; State: Odisha – Prescribing of Terms of Reference (ToR) – regarding.

[Online Proposal No. IA/OR/CMIN/477810/2024; Consultant: VARDAN ENVIRONET, NABET/EIA/2326/RA 0284, valid up to 04.05.2026]

20.9.1: M/s Mahanadi Coalfields Limited (MCL) has made an application online vide proposal no IA/OR/CMIN/477810/2024 dated 22.10.2024 along with the application in prescribed format (Form-I, CAF, Part-A & B), copy of pre-feasibility report and proposed ToR for undertaking detailed EIA 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 schedule (all schedules pertaining to the project) of the EIA Notification, 2006 and do not attract general condition, being appraised at Central Level.

The present proposal is for grant of Terms of Conditions (ToR) of Balabhadra OCP (area 514.48 Ha having capacity 10 MTPA) by M/s Mahanadi Coalfields Limited, located at Villages: Kumunda, Chitalapur, Banabasapur, Parabeda and Maradhariharpur; District: Anugul; State: Odisha.

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

20.9.2: Environmental Site Settings: The Mine area is situated between Latitude 20°58’10.77” N to 20°59’21.14” N and Longitude 85°0’27.52” E to 85°2’39.13” E and is covered under Survey of India toposheet No. F45N4 & F45T1.

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

Forest Area: The project involved total 96.127 Ha of forest land. Application for diversion of forest land 96.127 Ha has been submitted vide proposal no. FP/OR/MIN/QRY/503729/2024 dt. 22.11.2024. There is no broken forest land and no violation of Van (Sanrakshan Evam Samvardhan) Adhiniyam, 1980.

Protected Area: The project is not located within 10 KM of any ESZ/ ESA/ national park/ wildlife sanctuary/ biosphere reserve/ tiger reserve/ elephant reserve/tiger corridor/elephant corridor etc. There is no violation on WLP Act, 1972. Site Specific Wildlife Conservation Plan will be prepared for Schedule – I species.

Mining Lease:

S. No.	Govt. Order/Notifications as the case may be	Area (ha)
1.	Ministry of Coal Notification S.O. 1149(E) dated 7 th March, 2024	514.48
	Details of LOI (for area outside lease area)	-
Grand Total		514.48

20.9.3: Mining Plan and Mine Closure Plan: Mining Plan and Mine Closure Plan has been approved by the Mahanadi Coalfields Limited (MCL) Board vide letter no. MCL/SBP/CS/BD-273/Exct/2024/14384 on 09.10.2024, for an area of 514.48 Ha for the production capacity of 10 MTPA.

- (i) Method of Mining to be adopted shall be opencast. The Capacity of the mine applied for rated capacity as per the mining plan is 10.0 MTPA.

- (ii) Excavation of Coal is through Mechanized Open Cast method deploying Shovel-dumper combination. The waste/OB handling is with conventional excavator and transported using dumper.
- (iii) Net geological reserve reported in the mine lease area is 269.393 MT with 236.93 MT mineable reserve. Out of which total extractable reserve of 236.93 MT, 229.93 MT are available for extraction. Percent of extraction is 85.35 %.
- (iv) Total 7 nos of seams with average thickness of 61.04 meters are workable. Grade of coal is G-13, stripping ratio 0.61 MM3/t (in-situ) while average seam gradient is 3 degree.
- (v) Life of mine is 27 Years (including 2 year of construction period).
- (vi) The project has 1temporary external OB dumps in an area of 28.92 ha (within the excavated area) till the 10th year and will be rehandled and accommodated in the internal dump by the end of 20th year.
- (vii) Total quarry area is 403.09 ha out of which backfilling will be done in 271.12 ha while final mine void will be created in an area of 70.973 ha with a depth of 30m. Backfilled quarry area of 271.12ha shall be reclaimed with plantation. Out of the total final mine void area, 70.973ha will be converted into water body and 60.997ha area will be converted into plantation.
- (viii) Details of Land usage:

a) Pre-mining

S. No.	Land Use	Within ML Area(ha)	Outside ML Area(ha)	Total
1	Agricultural Land	198.941	Nil	198.941
2	Forestland	96.127	Nil	96.127
3	Barren Land	135.637	Nil	135.637
4	Grazing Land	21.675	Nil	21.675
5	Surface Water Bodies	31.833	Nil	31.833
6	Settlements	16.083	Nil	16.083
7	Other(Roads / Other infrastructure)	11.486	Nil	11.486
8	Other(Community/Other Use)	2.698	Nil	2.698
Total		514.48	Nil	514.48

b) Post-Mining

S. No.	Type	Total Area	Reclaimed Area	Un-reclaimed area
1.	Excavation/Quarry Area:			
	(a) Backfilled areas	271.120	271.120	
	(b) Excavated Void	131.970	60.997	70.973
2.	External Dump			
3.	Safety Zone	7.75	7.75	
4.	Road and Infrastructure	62.87	51.57	11.30
5.	Garland Drains	1.72		1.72
6.	Embankment	11.06	11.06	

S. No.	Type	Total Area	Reclaimed Area	Un-reclaimed area
7.	Others (Greenbelt)	3.99	3.99	
8.	Others (Diversion/ below river/nala/ canal Settling pond)	24.00	12.51	11.49
	Total	514.48	418.997	95.483

(ix) Details of transportation of Coal:

- a. **In Pit:** Dumpers/In Pit-Conveyor
- b. **Surface to siding:** Belt Conveyor & Pipe conveyor
- c. **Siding to loading:** Railway wagons through rapid loading system with 1000t Surge Hopper
- d. **Quantity being transported by Road/Rail/conveyer:**10.0 MTPA

(x) **Reclamation:** The reclamation plan includes i) Afforestation shall be done progressively covering an area of 418.977 ha at the end of mining. This will include:

- a. Reclaimed external OB dump (in ha): 0
- b. Internal dump (in ha): 271.120 (Backfilled Area)
- c. Green belt (in ha): 3.99
- d. Density of tree plantation (in no of plants): 2500 Plants/ha
- e. Void (in ha) at a depth of (in m) which is proposed to be converted into water body: 70.973 ha, 30 m
- 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.): 7.75 ha. is for safety zone, 62.87 ha. is for road & infrastructure area and 11.060 ha. is for Embankment.

20.9.4: Baseline Data: Baseline data collection is under process and yet to be predicted based on results.

20.9.5: Details of Water Requirement:

Source of Water	Ground water and Mine Water
Ground Water Intersection	Yes
NOCs (Surface Water/Ground Water)	Application for obtaining the approval of the Central Ground Water Authority for NOC for water withdrawal will be submitted after the approval of ToR.
Water Requirement	2280 KLD
Diversion of River/ Nallah	The Singhada Jhor Nallah, which needs to be diverted. The diversion of the Nallah will be done 20 th year onwards.

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

The lease area has been finalized for liquidation of coal in the eastern part of the block separated by 500KV DC power line to avoid diversion of the power line. The western part of the power line will be liquidated annexing with Balabhadra West Extension block. The power requirement

for the said project is 20 MW, out of which 33 kV power supply will be from 120 MVA and 132/33 kV from central substation of MCL at Nandira.

20.9.7: Details of Solid and Hazardous Waste Generation:

Sl. No	Type of Waste	Source	Quantity (TPA)	Mode of Treatment	Disposal
1.	Municipal Solid waste	Manpower employed for mining and allied operations	380	Authorized Vendors	Disposed off as per the solid waste management rule, 2016.
2.	Plastic Waste	Site office, Canteen etc.	2	CPCB/SPCB Authorized recycling Vendors	As per the Plastic Waste Management Rules, 2016
3.	Electrical and Electronics waste from mine office	Computers, switches, cables etc.	0.2	Will be sent to CPCB certified E waste Dealer/Recyclers	As per E- Waste (Management) Rules, 2022
4.	Used Batteries	Vehicles at sites	10	Used batteries will be stored safely for auction to the authorized re-processors.	As per Batteries Management rules 2022, sold to authorize vendors for recycling/refurbishment.
5.	Biomedical Waste	Dispensary, First aid kits etc.	0.03	As per BMWR, 2016	Yellow & Red
6.	Used Oils, Waste Oil, Empty Oil barrels	DG Set, Workshop	180	Used oil will be stored in drums safely in store for disposal through the authorized vendors	Handed over to CPCB/SPCB authorized vendor

20.9.8: Plantation: As per the Pre-feasibility report, out of the total lease area, plantation will be done in 322.87 ha of mine lease area with 2500 saplings/ ha.

20.9.9: R&R Plan: R&R plan will be prepared by the user agency which will be submitted to District Administration, for its approval. Total 5 villages (Kumunda, Chitalpur, Maradahariharpur, Parabeda and Banabaspur). Approximately 1256 families of these villages may be displaced due to mining and other associated activities of this project. However the actual number of PAFs will be known after conducting proper survey before starting of the project. The land outsees will be given rehabilitation and resettlement benefits according to the Govt. of Odisha R & R Policies and prevailing practices as per other mines of MCL.

20.9.10: Project Cost: Total cost of the proposed project as submitted by the proponent is Rs. 2253.34 Crores.

20.9.11: 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.

20.9.12: Written Submissions: PP submitted an undertaking vide letter dated 24.01.2025, wherein it has confirmed that diversion of Singhara Jhor Nala, located along the southern and eastern boundaries of the block, will not be undertaken during the initial 15 years of mining operations. The diversion will only be carried out following details hydrological studies from a reputed institute and implementation of all necessary precautionary measures to ensure environmental safeguards. Also, NoC from the State Water Resource Department shall be obtained before any diversion is carried out.

Deliberations and Observation of the Committee:

20.9.13: The Committee noted the following:

1. The instant proposal is a Greenfield opencast mining project for grant of Terms of references (ToR) over an area of 514.48 Ha having 10 MTPA capacity by M/s Mahanadi Coalfields Limited, located at Villages: Kumunda, Chitalapur, Banabasapur, Parabeda and Maradhariharpur; District: Anugul; State: Odisha.
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. Project does not fall in the Critically Polluted Area (CPA)/ Severely Polluted Area (SPA), as per CEPI Assessment 2018.
3. The project involved total 96.127 Ha of forest land (Revenue Forest) and application for its diversion has been submitted vide proposal no. FP/OR/MIN/QRY/503729/2024 dated 22.11.2024.
4. The project is not located within 10 KM of any ESZ/ ESA/ national park/ wildlife sanctuary/ biosphere reserve/ tiger reserve/ elephant reserve/tiger corridor/elephant corridor etc. There is no violation on WLP Act, 1972. The PP further submitted that WL management plan will be prepared and will be part of the EIA EMP report.
5. Balabhadra OCP has been allotted to MCL vide Ministry of Coal Notification S.O. 1149(E) dated 7th March, 2024 as per Section 9 (1) of CBA (A&D) Act-1957.
6. Mining Plan and Mine Closure Plan has been approved by the M/s. Mahanadi Coalfields Limited (MCL) Board vide letter no. MCL/SBP/CS/BD- 273/Exct/2024/14384 dated 09.10.2024, for an area of 514.48 Ha for the production capacity of 10 MTPA.
7. Net geological reserve reported in the mine lease area is 269.393 MT with 236.93 MT mineable reserve. Out of which total extractable reserve of 236.93 MT, 229.93 MT are available for extraction. Percent of extraction is 85.35 %.
8. Total 7 no.s of seams with average thickness of 61.04 meters are workable. Grade of coal is G-13, stripping ratio 0.61 MM³/t (in-situ) while average seam gradient is 3 degree.
9. Life of mine is 27 Years (including 2 year of construction period).
10. Total quarry area is 403.09 ha out of which backfilling will be done in 271.12 ha while final mine void will be created in an area of 70.973 ha with a depth of 30m. Backfilled quarry area of 271.12ha shall be reclaimed with plantation. Out of the total final mine void area, 70.973ha will be converted into water body and 60.997ha area will be converted into plantation.

11. PP submitted that the water requirement for the said project is 2280 KLD and NoC from CGWA will be accorded for the same after grant of ToR. PP also submitted that the Singhara Jhor Nala, located along the southern and eastern boundaries of the block is proposed to be diverted during 20th year onwards. Committee deliberated on the same and opined that the said nallah shall not be diverted unless relevant studies are conducted from some reputed government institute and permission from State Water Resource Department shall also be accorded before any such diversion is carried out.

The PP, vide letter dated 24.01.2025, submitted an undertaking wherein it has confirmed that diversion of Singhara Jhor Nala, located along the southern and eastern boundaries of the block, will not be undertaken during the initial 15 years of mining operations. The diversion will only be carried out following details hydrological studies from a reputed institute and implementation of all necessary precautionary measures to ensure environmental safeguards. Also, NoC from the State Water Resource Department shall be obtained before any diversion is carried out.

Committee also opined that the PP should take measures to rejuvenate the ponds present within the core zone and buffer zone of the ML area.

12. The power requirement for the said project is 20 MW, out of which 33 kV power supply will be from 120 MVA and 132/33 kV from central substation of MCL at Nandira. There is no Transmission line/ hi- tension line proposed to be diverted. The Committee is of the view that PP shall also explore the possibility of using renewable energy and accordingly a plan in this regard may be submitted. Further, PP shall align the project towards achieving SDGs.
13. The expected project cost submitted by the proponent is Rs.2253.34 crores.
14. Committee deliberated on the transportation mode of coal and observed that for the initial 2 years the coal will be transported through a dedicated coal transportation road. Thereafter, pipe conveyor will be used, connecting it to the railways.
15. Committee deliberated on the pre-mining and post-mining land use pattern submitted by the proponent and observed that out of the total land area, 198.941 ha is the agricultural land. Committee opined that the provisions should be made to develop agricultural land subsequent to post-mining as well.
16. Committee deliberated on the habitation present in the said ML area and observed that the core zone of the project covers 5 villages namely Kumunda, Chitalpur, Maradahariharpur, Parabeda and Banabaspur. Approximately 1256 families of these villages may be displaced due to mining and other associated activities of this project. However, the actual number of PAFs will be known after conducting proper survey before starting of the project. This project affected families will be resettled and rehabilitated socially, culturally and economically along with other displaced such as major married sons, unmarried daughters of 30 years of age, etc., as per latest R&R policy of Govt. of Odisha.
17. The Committee opined that all the studies to be conducted for the said project shall be done through reputed government institute, before submitting the proposal for grant of Environment Clearance.

Recommendations of the Committee:

20.9.14: In view of the foregoing and after the detailed deliberation, the Committee **recommended** the instant proposal for grant of Terms of Reference, as applicable to the project, with Public Consultation (Public Hearing and Written submission) and following Specific ToR to **M/s Mahanadi Coalfields Limited** in addition to generic ToR given at Annexure-II for opencast mines for preparation of EIA/EMP report for Balabhadra OCP (area 514.48 Ha having capacity 10 MTPA) located at Villages: Kumunda, Chitalapur, Banabasapur, Parabada and Maradhariharpur; District: Anugul; State: Odisha

Specific ToRs:

- i. Public consultation (Public Hearing and Written submission) shall be conducted in Anugul district of Odisha as per the provisions of EIA Notification, 2006 and as amended. Project proponent shall submit an action plan with year-wise budgetary provisions (Capital and recurring) as per the provisions contained under MoEF&CC OM dated 30/09/2020 to address the concerns raised during public consultation including the public hearing.
- ii. Project proponent shall submit the EIA/EMP report after the plagiarism check using authenticated plagiarism software.
- iii. A Cumulative Environmental Impact Assessment study of all the existing and proposed projects in the 10-km radius of the proposed project shall be conducted and the same shall be included in the EIA/EMP report. Details of industrial units present in 10 Km radius of the ML area shall be earmarked in map and submitted.
- iv. Project proponent shall commission a study on Hydrology and Hydrogeology of the project site as well as the study area of the project site through a reputed institute/Government organization. The study report along with the action plan for implementing the recommendations of the report shall be submitted along with the EIA/EMP report.
- v. Project proponent has to prepare the Nallah diversion study along with its aquatic biodiversity study. Project proponent should not immediately divert the Nallah and consider the diversion of the same at later stage.
- vi. Project proponent shall submit the applications for obtaining NOC for the diversion of Road/River/Nallah/Electric lines, if any passing through the project/block area to the concerned authority and details shall be provided in EIA Report.
- vii. PP shall submit rejuvenation plan for seasonal water courses/ seasonal water bodies/ streams/ ponds within the core zone and buffer zone of the ML area and financial commitments with budgetary outlays need to be submitted for their protection. PP shall carry out regular monitoring of Ground water level and quality and measures to be taken.
- viii. Permission for ground water withdrawal shall be obtained from Central Ground Water Authority (CGWA) only for mining activity.
- ix. PP should submit the quantity of surface or groundwater 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 rainwater harvesting measures to be taken. The capital and recurring expenditures to be incurred need to be submitted.

- x. In case of ground water abstraction/intersection, 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.
- xi. PP shall provide plan to implement the inpit belt conveyor system to stop the road transportation.
- xii. PP should clearly show the transport route of the mineral and protection and mitigative measure to be adopted while transportation of the mineral. The impact from the center line of the road on either side should be clearly brought out supported with the line source modelling and isopleth. Further, frequency of testing of Poly Aromatic Hydrocarbon needs to be submitted along with budget. Based on the above study the compensation to be paid in the event of damage to the crop and land on the either side of the road needs to be mentioned. The PP should provide the source of equations used and complete calculations for computing the emission rate from the various sources. The Ground level concentration of various pollutants in worst case and control case scenario needs to be submitted. The cumulative impact of other activities needs to be considered in EIA/EMP Report.
- xiii. To support the transportation by road, PP shall carry out the traffic study along with the mitigation measures to control air pollution.
- xiv. Wind rose pattern in the area should be reviewed and accordingly location of CAAQMS shall be planned by the collection of air quality data. 12 nos of Monitoring location for collecting baseline data should cover overall the 10 km buffer zone i.e. dispersed in 10 km buffer area. PP shall submit the action plan for installation of CAAQMS in the ML area and in the study area in consultation with the concerned State Pollution Control Board.
- xv. Heavy metals including other parameters in surface/ground water quality shall be analyzed and provided in EIA Report.
- xvi. Plot the wind rose diagram using the typical meteorological year (TMY) data for the period considered for the study. The monitoring units shall be deployed in the field based on the coverage area ratio and direction of the wind. A mathematical model shall be developed for the local site rather than using the standard model available in software for both air & water quality modelling.
- xvii. PP shall not plan any non-essential infrastructure of mining operation on non-coal bearing forest area. PP shall optimise the requirement of forest land as far as possible and avoid its use for ancillary activities. PP is required to submit on a surface plan the coal seam vis-à-vis forest area. Further, the details of reserves under the forest land needs to be provided.
- xviii. PP shall submit the details of Stage-I forest clearance along with requisite supporting documents as per Ministry's OM dated 09.09.2011 and its subsequent amendment for diversion of 96.127 Ha of forest land.
- xix. Biodiversity analysis of the study area to be done through any reputed Government institutions. The study report along with the action plan for implementing the recommendations of the report shall be submitted along with the EIA/EMP report.
- xx. A detailed Wild Life Conservation/Management plan for Schedule 1 species shall be prepared for the conservation of the species. PP shall ensure that a conservation plan shall be prepared and approved by the CWLW. PP shall obtain the authenticated list of schedule-1 species from the concerned department.

- xxi. 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.
- xxii. Details of toe-wall and garland drain to be constructed along the OB dump.
- xxiii. Project proponent shall submit a plan to reduce the overburden (OB) generated during opencast mining of coal and its deposition outside mining lease (ML) area.
- xxiv. PP shall submit the plan for installation of wind barrier sheet & fixed sprinkler all along the railway siding and deployment of mobile water tanker for dust suppression.
- xxv. 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.
- xxvi. PP to submit the status of any pending court cases or disposed of cases related to Civil court, High court, Supreme court and in any tribunal.
- xxvii. PP shall submit the action plan for all types of waste to be generated during mining operations including e-waste, battery waste, hazardous waste etc. Further, the action plan for compliance with the Ministry's OM dated 18/07/2022 needs to be submitted.
- xxviii. PP shall submit the action plan to adhere the Plastic Waste Management Rules 2016 and to adhere Ministry's OM dated 18/07/2022.
- xxix. PP should provide in the EIA Report details of the statutory clearances, permissions, no objection certificates, consents etc. required for this project under various Acts, Rules and regulations.
- xxx. PP shall submit all mandatory permissions from the concerned department of Railway, National & State Highway /PWD, Water Resources Department and concerned Electricity Department.
- xxxi. PP should clearly bring out that what is the specific diesel consumption (Liters/Tonne of total excavation & mineral) and steps to be taken for reduction of the same. Year-wise target for reduction in the specific diesel consumption needs to be submitted.
- xxxii. Details of solar power facility proposed to be installed as energy conservation measures shall be submitted.
- xxxiii. PP should submit the real-time aerial footage & video of the mining lease area including transportation route, streams passing through ML area, and plantation status.

- xxxiv. The PP should ensure that only NABET accredited consultant shall be engaged for the preparation of EIA/EMP Reports. PP shall ensure that accreditation of consultant shall be valid during the collection of baseline data, preparation of EIA/EMP report and during the appraisal process. The PP and consultant should submit an undertaking the information and data provided in the EIA Report and submitted to the Ministry are factually correct and PP and consultant are fully accountable for the same.
- xxxv. PP shall align its activities to one/few of the Sustainable Development Goals (SDG) and start working on the mission of net zero by 2050. PPs shall update the same to the EAC.
- xxxvi. Project proponent shall provide the details of wastewater treatment facilities to be installed within its capacity, timeline and budget. The EIA report should also include details of STP and ETP to be provided for treatment of domestic and industrial waste water.

Agenda No. 20.10

20.10: Parsa East and kanta Basan Pit Head Coal Washery (area 2682.856 Ha having capacity 18 MTPA) by M/s Rajasthan Rajya Vidhyut Utpadan Nigam Ltd, located at Villages: Salhi, Hariharpur, Parsa, Kente, Ghatbarra, Parogiya and Basan; District: Surguja; State: Chhattisgarh – Regarding grant of amendment in EC for seeking exemption in condition pertaining to transportation of 90% of coal rejects through railway.

[Online Proposal No. IA/CG/CMIN/507240/2024; Consultant: VARDAN ENVIRONET, NABET/EIA/2326/RA 0284, valid up to 04.05.2026]

20.10.1: The instant proposal is for amendment in Environment Clearance granted to M/s Rajasthan Rajya Vidhyut Utpadan Nigam Ltd vide letter No. J-11 015/03/2008-IA-II(M) dated 12th July 2023 for Parsa East and kanta Basan Pit Head Coal Washery (area 2682.856 Ha having capacity 18 MTPA) located at Villages: Salhi, Hariharpur, Parsa, Kente, Ghatbarra, Parogiya and Basan; District: Surguja; State: Chhattisgarh.

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

S. no.	Details of letter no.	EC/Expansion EC/Amendment in EC/validity Transfer/Transfer of EC	Capacity (MTPA)	Area (ha)	Date of issuance	Status of implementation
1	J-11015/03/2008-IA-II (M)	Environment Clearance (EC) for 10 MTPA of Mine & Washery	10 MTPA	2711.034	21.12.2011	Implemented
2	J-11015/03/2008-IA.II (M)	EC Corrigendum	10 MTPA	2711.034	02.06.2012	Implemented
3	J- 11015/03/2008-IA. II (M)	EC Amendment reg. permission to set up interim Washery of 2 MTPA	10 MTPA	2711.034	04.03.2013	Implemented
4	J-11015/03/2008-IA.II (M)	EC Revalidation	10 MTPA	2711.034	25.06.2015	Implemented
5	J-11015/03/2008-IA.II (M)	EC Amendment reg. timeline for transportation by	10 MTPA	2711.034	29.12.2015	Implemented

S. no.	Details of letter no.	EC/Expansion EC/Amendment in EC/validity Transfer/Transfer of EC	Capacity (MTPA)	Area (ha)	Date of issuance	Status of implementation
		rail & FBC power plan				
6	J-11015/03/2008-IA-11 (M)	EC for expansion of Mine & Washery from 10 to 15 MTPA. (This EC has superseded all the earlier EC/revalidated/amendment granted as per condition no. 12)	15 MTPA	2682.856	10.08.2018	Implemented
7	J-11015/03/2008-IA.II (M)	EC Amendment (Road transportation)	15 MTPA	2682.856	24.07.2019	Implemented
8	J-11015/03/2008-IA.II (M)	EC Amendment (Road transportation)	15 MTPA	2682.856	23.12.2021	Implemented
9	J-11 015/03/2008-IA-II(M)	EC for expansion of PEKB Mine from 15 MTPA to 18 MTPA	18 MTPA	2682.856	14.02.2022	Implemented
10	J-11 015/03/2008-IA-II(M)	EC for expansion of PEKB Washery from 15 MTPA to 18 MTPA	18 MTPA	2682.856	12.07.2023	Being implemented
11	J-11 015/03/2008-IA-II(M)	EC Amendment (Amendment for Specific Condition no. xii – Coal Storage)	18 MTPA	2682.856	21.10.2024	Being implemented

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

20.10.3: Past production details: W.r.t. the previous approvals, PP submitted the actual production details of the concerned mine and submitted that the mine become operation from 2015 onwards. CTO renewal has been obtained from the SPCB vide consent no. 7700/TS/CECB/2024 dated 30.11.2024 and is valid up to five months. Details of the same are as follows:

Year	Actual Coal Production in MTPA	Planned coal production in MTPA as per Environmental Clearance	Excess Production
2012-13	0.29	10	Nil
2013-14	1.2	10	Nil

Year	Actual Coal Production in MTPA	Planned coal production in MTPA as per Environmental Clearance	Excess Production
2014-15	3.44	10	Nil
2015-16	6.21	10	Nil
2016-17	8.27	10	Nil
2017-18	8.33	10	Nil
2018-19	15	15	Nil
2019-20	15	15	Nil
2020-21	15	15	Nil
2021-22	15	15	Nil
2022-23	11.80	15	Nil
2023-24	6.70	18	Nil
2024-25 (up to December 2024)	10.58	18	Nil

20.10.4: Details regarding amendment sought in the EC dated 12.07.2023:

Specific/General Condition no.	Details of Conditions as per EC 12.07.2023	Amendment Sought	Justification
EC Condition No 4(ii)	<p><i>PP to obtain the CTO for Coal washery capacity of 18 MTPA after grant of EC. As committed by PP, CTO shall also be granted to transport 90% of coal reject through railway siding after complying condition stipulated in amended EC dated 23.12.2021.</i></p> <p><u>Condition stipulated in EC dated 23.12.2021:</u></p> <p><i>EC Condition no. 3 (i): "PP shall obtain CTO from the respective SPCB before commencement of the transportation of 40% washery reject (1.2 MTPA peak) via road and 60% of the washery reject by rail only for period of 3 years. State Pollution Control Board shall ensure adequate fleet size/ transportation of reject (35-40 tons) through dedicated route of National Highway without following district/village road, not more than 275 kms from plant site."</i></p>	<p>To exempt the time period of three years for road transportation as stipulated in the EC amendment letter vide file no: J 11015/03/2008- IA. II (M) dated 23.12.2021.</p> <p>To relax limitation of road transportation from 40% to 50% and distance limit from 275 Kms to 350 Kms, which will help us cater more plants around Raipur and thereby ensure uninterrupted disposal of rejects in timely and environment friendly manner.</p>	<p>If 90% of coal reject are required to be transferred by rail, PP is unable to ensure seamless disposal of rejects to any nearby small power plant/industries because of the limited useability of rejects and higher transportation cost due to longer railway route this will result in accumulation of rejects at pit head washery of the mine and lead to environmental issue if stock is not liquidated in time.</p>

20.10.5: Details of Traffic Impact Assessment Report:

1. Traffic Survey:

The traffic survey was conducted as per IRC: 64-1990. The sites for traffic survey monitoring were fixed away from the villages and the roads were divided into sections. The traffic density was monitored at the up and down sides of the locations namely:

Location No: T1- National Highway 130 Near village Udaipur.

Location No. T2- National Highway 130 Near village Katghora

Location No. T3- State Highway 4 Near village Kudmura

Location No. T4- National Highway 43 Near village Surajpur

Location No. T5- National Highway 43 Near village Bhatauli

Location No. T6- State Highway 2 Near Wadraf nagar.

The monitoring was done for a period of 24 hours continuously. The observed traffic density has been processed for an interval of 1 hour. The total no. of vehicles was calculated on hourly basis as well as for 24 hours. The monitoring plan included the following vehicles namely Car, Buses, trucks, Tractors, Two wheelers, Three wheelers.

Existing traffic scenario

Roads and Highways in the Study Area

Name of State Highway/District Road	Direction		Dispatched Ratio in Percentage
	Up	Down	
National Highway 130 Near village Udaipur	Ambikapur	Raipur	100*
State Highway 4 Near village Kudmura	Dindori	Raurkela	25
National Highway 43 Near village Surajpur	Gulganj	Chaibasa	50
State Highway -2	Pipari	Bhawanipattanam	25

**100% mineral will transfer through NH130 Out of which 25% will distribute on SH-4 and 50% will be on NH43 and 25% on SH-2.*

Existing Traffic Scenario

Road	Existing Volume	Capacity in PCU/day
NH – 130	5316	15000
SH – 4	2911	15000
NH – 43	5203	15000
SH – 2	2640	15000

Traffic Scenario after the addition of vehicles

Road	Increased PCU's State/National Highway	Existing Volume	Capacity in PCU/day
NH – 130	600 x 100% = 600	5316+600=5916	15000
SH – 4	600 x 25% = 150	2911+150=3061	15000
NH – 43	600x 50% = 300	5203+300=5503	15000
SH – 2	600x 25%=150	2640+150=2790	15000

Due to the transportation Coal reject through road the traffic density will increase slightly as the reject will be transported through the NH-130, NH-43, SH-4 and SH-2, however the LOS value of all four highway will remain same i.e 'Very good' for NH-130 and NH-43, similarly the LOS value of SH-4 and SH-2 will remain same as i.e. 'Excellent'.

20.10.6: Justification/ reasons & need for transport of coal reject through road: PP submitted the following justification for the amendment sought:

A coal washery with a raw coal input capacity of 15 MTPA and yield of 77.5% expected to produce approximately 11.625 MTPA of clean coal and approximately 3.375 MTPA of coal rejects.

Environmental Clearance issued by MoEF&CC vide File No. J 11015/03/2008- IA. II (M) granted on date 12th July 2023 for integrated project of Parsa East and Kanta Basan (PEKB) Opencast Coal Mine (Capacity 18 MTPA) with expansion in Pit Head Coal Washery from 15 MTPA to 18 MTPA in total mine lease area of 2682.856 ha of M/s Rajasthan Rajya Vidyut Utpadan Nigam Ltd, which reads as:

"PP to obtain the CTO for Coal washery capacity of 18 MTPA after grant of EC. As committed by PP, CTO shall also be granted to transport 90% of coal reject through railway siding after complying condition stipulated in amended EC dated 23.12.2021 regarding coal rejects transportation."

This condition provides reference to the EC amendment letter vide file no: J 11015/03/2008-IA. II (M) dated 23.12.2021 which states *"(i) PP shall obtain CTO from the respective SPCB before commencement of the transportation of 40 % washery reject (1.2 MTPA peak) via road and 60 % of the washery reject by rail only for period of 3 years. State Pollution Control Board shall ensure adequate fleets size /transportation of reject (35-40 tons) through dedicated route of National Highway without following district/village road, not more than 275 kms from plant site."*

Amendment in above condition of the Environmental Clearance letter is required for permission to transport reject coal through road. Justification/reasons for the same is elaborated below-

- i. Rail Transportation of reject will restrict the disposal of rejects to 2/3 thermal power plants only which are connected to Indian Railway network. But the offtake of rejects by said power plants is very limited, because due to low Calorific value (CV) and high

Ash content of rejects, it can be used in a limited percentage by power plants after proper blending with high GCV coal received through CIL linkage or other sources. As such usage of rejects is merely to supplement their fuel requirement to extent required GCV can be maintained.

- ii. Here, it is pertinent to mention that considering the limited useability of rejects and higher transportation cost due to longer railway route, the timely disposal of approved quantity of rejects is not feasible unless rejects are dispatched and utilized in more number of plants after appropriate blending with high GCV coal. But dispatch of rejects to any other prospective user plant is possible only by road transportation.
- iii. Consequent to above, RVUNL will be unable to ensure seamless disposal of rejects to any nearby power plant which can use rejects through blending and there is no feasibility of rail transport from PEKB mine. Needless to mention that it might result in accumulation of rejects at pit head washery of the mine and lead to environmental issue if stock is not liquidated in time.
- iv. Washery Rejects generated from Parsa East Kanta Basan Coal Block are used by nearby Power plants with inadequate coal linkage to supplement the coal requirement, after proper blending with high GCV coal PEKB mine is located in the Surguja District of Chhattisgarh, which has no such industry to consume the washery rejects. Therefore, rejects are primarily sold to plants located in Bilaspur, Raipur, and Raigarh Districts of Chhattisgarh. Direct Railway connectivity to these power plants from PEKB mine is not available. Railway connectivity to these power plants from PEKB mine washery is via Anuppur on SECR rail section, which takes longer route as compared to road connectivity.
- v. In view of limited usability and techno- economic viability rejects are sold to various power plants mostly of small capacity, located within a distance of 200 to 300 kilometers from Pit-head of PEKB mine/washery and are transported by the buyers to their respective plants by road only.
- vi. Besides significantly longer distances of plants by railway, transportation through Railway will require bridging the gap between respective railway sidings and the plants by road transportation. It will eventually enhance the cost of handling of cargo at both ends and thereby make the entire process complex and economically unviable for the customers of rejects.
- vii. Further, it may kindly be noted that by railway route, total distances of some of plants enlisted in above table exceeds the maximum allowable limit of 500 Kms, stipulated in the Gazette Notification of MoEF. Therefore, major customers including Jindal Power Ltd (single largest buyer) will not be able to take off rejects from PEKB Mine by railway.
- viii. Transportation of rejects by road are being carried out by covered trucks with effective dust control measures e.g. regular water spraying on roads and any other condition imposed by State Pollution Control Board.
- ix. It is worth highlighting that since washery rejects fall under category low priority cargo, supply of empty rakes by Railway for washery rejects is scarce and therefore it is another challenge to ensure regular dispatch through Railway As a matter of fact rail dispatch of rejects are invariably affected due to non-supply of rakes by Indian railway. It is going to become even a bigger issue in coming year as we achieve the envisaged increase in rejects generation to the tune of +4 MT against 18MT production of ROM.

In view of facts illustrated herein above, it is to submit that road transportation of rejects is unavoidable for evacuation of coal from PEKB washery.

20.10.7: Details of Court Cases: Details of the pending cases submitted by the proponent are as follows:

S. No.	Cause Title	Forum	Status
1.	Dinesh Kumar Soni Vs UoI & Ors(JV matter) I.A No. 53863 of 2019 IN CIVIL APPEAL NO. 371 of 2019	Supreme Court of India (Justice Suryakant & Justice Ujjal Bhuyan)	Matter taken up on 07.01.2025 however no proceedings done in this matter. Next date: 18.03.2025 <u>Background:</u> Writ Petition filed challenging the allocation of PEKB, Parsa and KECB blocks to RVUNL
2.	Sudiep Shrivastava Vs UoI & Ors (Phase-2 Permissions) Writ Petition (Civil) No. 510 of 2023	Supreme Court of India (Justice Suryakant & Justice Ujjal Bhuyan)	Notice issued. On 07.01.2025 court directed for completion of pleadings. Next Date is 18.03.2025 <u>Background:</u> Writ petition filed by Sudiep Shrivastava under Article 32 challenging the phase -2 permissions (Phase I: 760 Ha Forest land and Phase II: 1130 Ha Forest land) granted by MoEF& CC and State of Chhattisgarh while the main matter i.e. PEKB-FC matter was pending when faced with legal challenge as to maintainability of IA in PEKB-FC matter.
3.	Forest Rights committee, Ghatbarra vs MoEF & Ors (PEKB-Forest Rights matter) WP No. 1346/2016	High Court Chhattisgarh J. Deepak Kumar Tiwari	On 05.12.2024 Court directed petitioner to file paper book in the matter. On 12.12.24 paper books filed. Matter ripe for final hearing Next date awaited. <u>Background:</u> The District Level Committee (DLC) without considering the F.C granted to PEKB in 2012 wrongfully granted Community Forest rights to Gram Sabha Ghatbarra. RVUNL brought this anomaly to the knowledge of Collector seeking cancellation of the Community Forest Rights as void in law as at the time of granting FRC the forest was already diverted for non-forestry purpose in favour of RVUNL. The DLC revoked the grant of community forest rights to gram sabha, Ghatbarra. The said order of revocation was challenged in W.P.

S. No.	Cause Title	Forum	Status
4.	Suo Moto - PEKB Phase-2 (Three Original Applications) OA No. 59/2024 OA No. 128/2024 OA No. 133/2024	National Green Tribunal, Principal Bench – J. Prakash Shrivastava, J. Sudhir Agarwal & Dr. A. Senthil Vel	On 15.10.24 – Arguments heard at length on behalf of RVUNL, explaining tree felling being done under all permissions and approvals from MOEF and State. The bench adjourned awaiting outcome in Chhattisgarh HC. Pleadings completed. Next date: 05.02.2025 <u>Background:</u> Three suo moto notices were issued by NGT Principal Bench, New Delhi based on the news reports published in different news portals on the tree felling done in phase-2 of PEKB Coal Block. The matters were listed on 21.01.24, 08.02.24 and 13.02.24 which have now been tagged together at the request of the counsel for State. The Bench has observed that the intervenors are only to assist and do not seek any relief in the matters.
5.	Anita and another Vs. State of Chhattisgarh & Ors. Original Application No. 1080/2024	National Green Tribunal, Principal Bench – J. Sudhir Agarwal / J. Arun Kumar Tyagi & Dr. Afroz Ahmed	On 23.12.2024 MoEF has filed report of the joint committee 20.12.2024. RVUNL has been made a party and is granted time to file its response. The matter has been transferred to Bhopal Bench. Next date: 05.03.2025. <u>Background:</u> Citizens Action Group of India has sent a letter petition dated 19.01.2024 complaining about illegal cutting of more than 15,000 trees in Hasdev forest which comes within district Korba and Sarguja of State of Chhattisgarh for carrying out proposed coal mining project of Parsa East, District Kele Bason.

Observations and deliberation of the Committee:

20.10.8: The EAC noted the following:

1. MoEF&CC granted EC to M/s Rajasthan Rajya Vidhyut Utpadan Nigam Ltd vide letter J-11 015/03/2008-IA-II(M) dated 12.07.2023, for expansion of Parsa East and kanta Basan Pit Head Coal Washery (area 2682.856 Ha having capacity 18 MTPA) located at Villages: Salhi, Hariharpur, Parsa, Kente, Ghatbarra, Parogiya and Basan; District: Surguja; State: Chhattisgarh.
2. Project involves 1871.118 ha of forest land. PP accorded Stage – II vide letter dated 02.02.2022.

3. The instant proposal is now placed before EAC for amendment in condition seeking permission to increase the quantity of coal rejects which shall be allowed to be transported by road. Also, seeking permission to increase the distance of road for which coal rejects shall be transported.
4. As per the EC letter dated 12.07.2023, specific condition no. 4 (ii) stated that, “*PP to obtain the CTO for Coal washery capacity of 18 MTPA after grant of EC. As committed by PP, CTO shall also be granted to transport 90% of coal reject through railway siding after complying condition stipulated in amended EC dated 23.12.2021.*”

As per the condition stipulated in the EC dated 23.12.2021, “PP shall obtain CTO from the respective SPCB before commencement of the transportation of 40% washery reject (1.2 MTPA peak) via road and 60% of the washery reject by rail only for period of 3 years. State Pollution Control Board shall ensure adequate fleet size/transportation of reject (35-40 tons) through dedicated route of National Highway without following district/village road, not more than 275 km from plant site.”

5. Committee deliberated on the reasons submitted by the proponent for seeking the permission to increase in quantity of rejects which shall be permitted to be transported through roads and observed that there are very few power plants in the linkage of the project which are connected with railway network and off take of rejects of these power plants is very too less due to low high ash content and low GCV.

However, these rejects are commercially suitable to industries located within 200-300 km to washery.

6. Direct railway connectivity to these industries is not available. PP submitted the comparison between distance by road and rail, if transportation is done through rail to these industries. It is observed that, in that case the distance will be more than double if transported through the combination of rail and road. Committee opined that transportation of rejects through road to these industries is a feasible option both environmentally and economically.
7. Committee deliberated on the Traffic Assessment Report submitted by the proponent and observed that due to the transportation of Coal reject through road the traffic density will increase slightly as the reject will be transported through the NH-130, NH-43, SH-4 and SH-2. However, the level of service value of all four highway will remain very good for NH-130 and NH-43, similarly the level of service value of SH-4 and SH-2 will remain same as i.e. Excellent. Committee also observed that the incremental GLCs for air pollutants are found to be within the National Ambient Air Quality Standards 2009. Committee opined that all recommendations of Traffic Assessment Study Report shall be complied by.
8. Committee opined that PP should increase the fleet size of the trucks and should explore the feasibility to introduce e – vehicles.
9. Committee opined that if there is presence of habitation on the near the road from which rejects are proposed to be transported, in that case only transportation shall take place only at night.
10. Committee opined that regular monitoring of Air and Noise quality of the roads through which coal transportation will be carried out shall be done.

11. There are 5 court cases pending on the project and PP informed that the said cases are related to Forestry related issues and not related to environmental concerns.

Recommendations of the Committee:

20.10.9: 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-11 015/03/2008-IA-II(M) dated 12.07.2023 as detailed below **subject to stipulation of following additional specific conditions.** Other terms and conditions prescribed in EC dated 12.07.2023 shall remain unchanged:

Reference in EC letter dated 12.07.2023	Description as per approved EC letter dated 12.07.2023	Amendment sought in EC	Recommendation of EAC
EC Condition No. 4 (ii)	<i>PP to obtain the CTO for Coal washery capacity of 18 MTPA after grant of EC. As committed by PP, CTO shall also be granted to transport 90% of coal reject through railway siding after complying condition stipulated in amended EC dated 23.12.2021.</i>	To exempt the time period of three years for road transportation as stipulated in the EC amendment letter vide file no: J 11015/03/2008- IA. II (M) dated 23.12.2021. To relax limitation of road transportation from 40% to 50% and distance limit from 275 Kms to 350 Kms, which will help us cater more plants around Raipur and thereby ensure uninterrupted disposal of rejects in timely and environment friendly manner.	Agreed Concerning the changes in specific condition no. 4 (ii) of EC dated 12.07.2023, Committee recommended to amend the specific condition no. 4 (ii) as follows: <i>“PP to obtain CTO for coal washery of 18 MTPA. CTO shall be granted to transport 60% of coal rejects through railway siding. Remaining 40% coal rejects are permitted to transport through road to other industries falling within a distance of 350 km. Road transportation shall be done by undertaking mitigative measures to control air pollution.”</i>

Additional Specific Conditions

- i. The project proponent shall abide by all orders and judicial pronouncements, made from time to time by the Hon’ble Supreme Court in Civil Appeal No. 371 of 2019 and Writ Petition (Civil) No. 510 of 2023; Hon’ble High Court Chhattisgarh in WP No. 1346/2016 and Hon’ble National Green Tribunal in OA No. 59/2024; OA No. 128/2024; OA No. 133/2024 and Original Application No. 1080/2024.
- ii. All the recommendations made in the Traffic Assessment Study Report regarding coal rejects transportation by road shall be strictly adhered with inter-alia including the following:
 - a. Vehicles used for transportation of rejects shall be covered with tarpaulin.
 - b. Wheel washing arrangements shall be made at washery exit point.
 - c. All the Vehicles shall have valid PUC certificates.
 - d. Periodic maintenance of the vehicles shall be ensured.
 - e. GPS tracking and speed monitors shall be installed in the Vehicles.

- f. Drivers shall be sensitized to their specific work to minimize accidents and pollution.
- iii. Additional air pollution control measures should be taken along roads being used for transport of coal rejects including e-vehicle/CNG/LNG vehicles.
- iv. PP shall provide 50,000 plant saplings with 4 feet tall fruit bearing plants to farmers for plantation in barren and agriculture lands in the study area every year for 5 years with incentive to improve the green cover in and around the mine lease area.
- v. PP shall adopt wildlife protection measures including creating awareness among the drivers, sensitizing the drivers about prevention of road kills and handling of wildlife encounters while driving through forest areas and speed governors must be installed in the coal rejects transporting trucks/dumpers.

Agenda No. 20.11

Jagannathpur Opencast Coal Mine Project (area 662.151 ha having increase in production capacity from 3.5 MTPA to 4.2 MTPA) by M/s South Eastern Coalfields Limited, located at Villages: Chaura, Jagannathpur, Kudri & Panchidana; District: Balrampur & Surajpur; State: Chhattisgarh – Environmental Clearance for 20% expansion as the provisions of Ministry’s OM dated 11/04/2022 – reg.

[Online Proposal No. IA/CG/CMIN/515665/2024; Consultant: CMPDIL; NABET/EIA/22-25/SA0223 valid till 08/04/2025]

20.11.1: M/s South Eastern Coalfields Limited made an online application vide proposal no: IA/CG/CMIN/515665/2024 dated 22.12.2024 for expansion of Jagannath Opencast Coal Mine Project [under clause 7(ii) expansion up to 20%] 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 3.5 MTPA to 4.2 MTPA, for the first phase of 20% expansion as per Ministry’s OM dated 11/04/2022, within the existing project 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:

20.11.2: Details of Previous Approvals in chronological orders:

S.No.	EC no.	Date	Capacity	Area (Ha)
1	J-11015/60/2016-IA.II (M)	16/02/2018	3.0 MTPA (Normative) & 3.5 MTPA (Peak)	686.151

20.11.3: 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 30.11.2025. Details of the same are as follows:

Year	EC sanctioned capacity (MTPA)	Actual Production (MT)	Excess Production(MT)
2019-20	3.5	0.089	NIL
2020-21	3.5	1.000	NIL
2021-22	3.5	1.777	NIL
2022-23	3.5	2.260	NIL
2023-24	3.5	2.830	NIL

20.11.4: 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/171 dated 13th December, 2024 in the name of M/s. Jagannathpur OCP, SECL Bhatgaon Area. The Action taken report of CCR submitted to IRO MOEF&CC, Naya Raipur on dated 17.12.2024 vide letter no. SCL/GM/BHAT/SAM/JSA/2024-25/2164. MoEF&CC (RO) by email.

S. No.	Details of the EC and the condition	Condition as per EC	Observations of RO (abridged)	Response of PP as per ATR dated 17.12.2024															
1	EC dated 16.02.2018, General Condition no. 4.1(a).(iv)	No mining shall be carried out in forest land without obtaining Forestry Clearance as per Forest (Conservation) Act, 1980 and also adhering to The Scheduled Tribes and Other Traditional Forest Dwellers (Recognition of Forest Rights) Act, 2006 read with provisions of Indian Forest Act, 1927	PA reported that Mining is being carried out only after obtaining Forestry Clearance. However, though the original proposal for diversion of FC land was 126.432 Ha, MoEF&CC vide letter No.8-35/2017-FC dated 13/4/2018 accorded approval for Stage-II forestry clearance for 119.051 Ha. only. Inconsistency has been observed in the total area of the forest land diverted and the total area of the forest land involved in the EC. Accordingly, total Mine lease area also vary from the area already mentioned (686.151 Ha). PA ought to have amended the same in the EC. No documents are made available regarding amendment undertaken in this regard.	<p>Application for Forest Land clearance was submitted based on gazette notification S.O. 1935 dtd 04.08.2010 (letter submitted) under section 9(1) of CBA Act 1957, for 126.431 Ha and Stage-I FC was issued on 10.11.2017.</p> <p>Later on, the memorandum no. 4687 dtd 05.10.2017 (letter submitted) issued by the Upper Collector Surajpur stating that 7.38 Ha of forest land was converted to tenancy land. Considering the memorandum, Stage-II FC for 119.051 Ha (126.431-7.38) was issued by MoEF&CC on 13.04.2018 however, the EC was issued on 16.02.2018 wherein the FC Stage -I data i.e. 126.431 Ha Forest Land is mentioned. However, the total land area of the project remained unchanged.</p> <p>Therefore, the land use mentioned in EC has been revised as tabled below.</p> <table border="1"> <thead> <tr> <th>S. No.</th> <th>TYPE OF LAND</th> <th>LAND (Ha)</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Forest Land</td> <td>119.051</td> </tr> <tr> <td>2</td> <td>Tenancy/Agriculture land</td> <td>529.039</td> </tr> <tr> <td>3</td> <td>Govt Land</td> <td>38.061</td> </tr> <tr> <td></td> <td>Total</td> <td>686.151</td> </tr> </tbody> </table>	S. No.	TYPE OF LAND	LAND (Ha)	1	Forest Land	119.051	2	Tenancy/Agriculture land	529.039	3	Govt Land	38.061		Total	686.151
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				The project is scheduled for expansion under clause 7(ii) as per OM F.No.IA3-22/10/2022-IA.III [E 177258] dtd 11.04.2022 and the matter will be taken up with the EAC so that the area of diverted Forest land remain consistent with EC and FC letters – condition No.4.1(a).(iv).
2	EC dated 16.02.2018, Specific Condition No.4.1(g).(i).	Implementation of the action plan on the issues raised during the public hearing shall be ensured. The project proponent shall undertake all the tasks/measures as per the action plan submitted with budgetary provisions during the public hearing. Land oustees shall be compensated as per the norms laid down in the R&R policy of the company/State Government/Central Government, as applicable.	Partly complied Details regarding the commitments made during the public hearing consultations held on 17/3/2017 & 10/2/2017 and its implementation status made available by the PA during the visit is enclosed as Annexure-1. According to the EC, Project involves R&R comprising of 1500 land oustees and 390 PAFs. As per EC R&R cost is Rs.9270.36 Lakhs. However, PA informed that total No. of PAPs are 581. Inconsistency has been observed in the R&R details mentioned in the EC and the statement made by the PA. R&R activities are partly implemented. The details of R&R implementation status made available by the PA is enclosed as Annexure-2. PA has not made available any authenticated documents / Notifications/ awards passed by the Authority concerned in support of implementation of R&R and it appears that many litigations are also still pending before Court.	The no. of PAPs i.e. as given in the EC based on PR of Jagannathpur OCP is tentative/estimated number, which is 582 (at present), as per Statement-V (letter submitted) received from State Revenue Department. The no. of PAFs i.e. 390 in the EC based on PR of Jagannathpur OCP is tentative/estimated number, which is 1006 (approx. at present), within the acquired mine boundary of Jagannathpur OCP.
3	EC dated 16.02.2018, Condition No.4.(iii)	Assessment of the pollution load bearing capacity of the area as it is a Greenfield project of 3.5 MTPA with high stripping ratio adjoining with other opencast mines and sugar factory in operation.	During the visit Project Authority made available a copy of an unsigned report titled “to carryout study of pollution load bearing capacity of the area around Jagannathpur OCP of Bhatgaon Area” The said report does not bear any signature of the principal consultant (Professor, Department of Mining Engineering, IIT(BHU), Varanasi), who prepared and submitted to the M/s SECL. Further, the said report does not mention about the study period and date of issue. PA should submit duly signed report and	As per work order no. SECL/GM/BHAT/LB Cap(JOCP)/403 dtd 30.09.2020, the study for pollution load bearing capacity of the area around Jagannathpur OCP of Bhatgaon Area has been carried out by IIT-BHU during the year 2021 & 2022. The signed copy of the report under cover letter no. MIN/AJ/2024-25/109 dtd 06.12.2024 is attached (letter submitted). The compliance of the recommendations of the study report is enclosed (letter submitted).

S. No.	Details of the EC and the condition	Condition as per EC	Observations of RO (abridged)	Response of PP as per ATR dated 17.12.2024																												
			shall effectively comply with the recommendations referred therein.																													
4	EC dated 16.02.2018, 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.	<p>Partly complied PA claims that Greenbelt has been developed along the safety zone around the periphery of the mine. The year wise plantation details made available by the PA is furnished below</p> <table border="1"> <thead> <tr> <th>Year</th> <th>OB Dump</th> <th>Non OB Dump</th> <th>Remarks</th> </tr> </thead> <tbody> <tr> <td>2019-20</td> <td>0</td> <td>1350</td> <td></td> </tr> <tr> <td>2020-21</td> <td>0</td> <td>5000</td> <td>JOCP Safety Zone Plantation</td> </tr> <tr> <td>2021-22</td> <td>12500</td> <td>9000</td> <td>* 9000 Bamboo Plantation JOCP</td> </tr> <tr> <td>2022-23</td> <td>0</td> <td>0</td> <td></td> </tr> <tr> <td>2023-24</td> <td>32850</td> <td>20000</td> <td>* 20000 Bamboo Plantation JOCP</td> </tr> <tr> <td>2024-25</td> <td>18700</td> <td>3000</td> <td></td> </tr> </tbody> </table> <p>Though the Project Authority claims that greenbelt is being developed. Based on the site visit, it has been observed that 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, plantation on the O.B. dump should be strengthened comprising of native species.</p>	Year	OB Dump	Non OB Dump	Remarks	2019-20	0	1350		2020-21	0	5000	JOCP Safety Zone Plantation	2021-22	12500	9000	* 9000 Bamboo Plantation JOCP	2022-23	0	0		2023-24	32850	20000	* 20000 Bamboo Plantation JOCP	2024-25	18700	3000		<p>Since inception of the project i.e. from year 2018 a total of 102400 nos plantation has been done in the mine area details of which are mentioned in the letter submitted</p> <p>15000 nos & 18700 nos Grass beds has been grown in the year 2023-24 & 2024-25 at external OB dump respectively.</p> <p>The plantation programme for the year 2025-26 is to be taken up in the upcoming rainy season consisting of 85350 nos of plants and 28070 nos of grass beds through CGRVVN details of which are mentioned in letter no. 2151 dtd 16.12.2024 along with plan (letter submitted).</p> <p>The tentative plantation for the next 05 years is submitted.</p>
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5	EC dated 16.02.2018, 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	<p>Partly complied PA maintaining the records regarding the top soil generated, used for spreading and balance stock available. The top soil is being used for land reclamation and plantation purpose. PA shall ensure the compliance of active OB dump stabilized with native grass species to prevent erosion and surface runoff. PA</p>	<p>Since inception of the project i.e. from year 2018 a total of 102400 nos plantation has been done in the mine area details of which are mentioned in the letter submitted.</p> <p>15000 nos & 18700 nos Grass beds has been grown in the year 2023-24 & 2024-25 at external OB dump respectively.</p>																												

S. No.	Details of the EC and the condition	Condition as per EC	Observations of RO (abridged)	Response of PP as per ATR dated 17.12.2024
		<p>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.</p>	<p>assured that the excavated area will be backfilled and afforested in line with the approved Mine Closure Plan and ensured monitoring of rehabilitated areas till the vegetation becomes self-sustaining</p>	<p>The plantation programme for the year 2025-26 is to be taken up in the upcoming rainy season consisting of 85350 nos of plants and 28070 nos of grass beds through CGRVVN details of which are mentioned in letter no. 2151 dtd 16.12.2024 along with plan (letter submitted). The tentative plantation for the next 05 years is submitted.</p>
6	<p>EC dated 16.02.2018, Condition No.4.1(c)(ii).</p>	<p>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 a mix of native Species shall be developed all along the major approach / coal transportation roads Though the Greenbelt development along the safety zone around the periphery of the mine is in progress, it has been observed that a three-tier avenue plantation should be developed along vacant areas, storage yards, loading transfer</p>	<p>Though the Greenbelt development along the safety zone around the periphery of the mine is in progress, it has been observed that 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, plantation on the O.B. dump should be strengthened comprising of native species.</p>	<p>Since inception of the project i.e. from year 2018 a total of 102400 nos plantation has been done in the mine area details of which are mentioned in the letter submitted. 15000 nos & 18700 nos Grass beds has been grown in the year 2023-24 & 2024-25 at external OB dump respectively. The plantation programme for the year 2025-26 is to be taken up in the upcoming rainy season consisting of 85350 nos of plants and 28070 nos of grass beds through CGRVVN details of which are mentioned in letter no. 2151 dtd 16.12.2024 along with plan (letter submitted). The tentative plantation for the next 05 years is attached as letter submitted.</p>

S. No.	Details of the EC and the condition	Condition as per EC	Observations of RO (abridged)	Response of PP as per ATR dated 17.12.2024
		points, and also along internal roads/main approach roads. Further, plantation on the O.B. dump should be strengthened comprising of native species.		
7	EC dated 16.02.2018, Condition No.4.1(b),(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 shall be submitted to Ministry of Environment, Forest and Climate Change/Regional Office (RO).	Complied with Digital Survey of entire lease hold area/core zone using Satellite Remote Sensing survey has been carried out through CMPDI based on the satellite data of the year 2022. PA submitted a copy of the report to this Office., which does not bear signature of the organization who has issued the said report	The duly signed copy of the latest Digital Survey of entire lease hold area/core zone using Satellite Remote Sensing survey carried out by CMPDI, Ranchi based on Satellite Data for the Year 2023” under cover of letter no. GEOM/R.S.C./24: 115 dtd 14.03.2024 is enclosed (letter submitted).
8	EC dated 16.02.2018, 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.	Partly complied Coal stock yard has been provided with water sprinkling system arrangement. No Belt- conveyor system exists in the mine. Drills are wet operated	The belt conveyor will be installed as an integral part of the upcoming CHP whose details are mentioned in the next point below. The project is scheduled for expansion under clause 7(ii) as per OM F.No.IA3-22/10/2022-IA.III [E 177258] dtd 11.04.2022 and the matter will be taken up with EAC for condition No.4.1(c).(v)
9	EC dated 16.02.2018, 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,	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, PA shall amend the EC condition.	The copy of the mining plan of JOCP Expansion (5.25 MTPA) page no. 5 & 6 is being submitted showing construction of railway siding for JOCP group of mines around 5 km away from JOCP. The crushed coal will be transported by trucks from JOCP to the earmarked railway siding.

S. No.	Details of the EC and the condition	Condition as per EC	Observations of RO (abridged)	Response of PP as per ATR dated 17.12.2024
		conveyor system, transfer points, etc.		<p>The above earmarked railway siding is situated at the railway line from Bhatgaon railway siding to Madannagar OCP for which work order no. SECL/BSP/SDG/2023/845 dtd 24.03.2023 (letter submitted) has been issued to M/s RITES. The copy of concept plan of feasibility project report (letter submitted) is also being submitted showing Bhatgaon Railway siding, Madannagar OCP and JOCP.</p> <p>The project is scheduled for expansion under clause 7(ii) as per OM F.No.IA3-22/10/2022-IA.III [E 177258] dtd 11.04.2022_ and the matter will be taken up with EAC committee for condition No.4.1(c) (vi)</p>
10	EC dated 16.02.2018, 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.	Partly complied Settling tank has been provided for treatment of mine discharge water. Oil and grease trap has been provided at workshop. Presently, no separate residential colony has been established for this project. Presently, the employees of this Mine are reportedly residing in the residential colony located at Jarhi. PA either shall comply with the condition or necessary amendment in the EC condition should be obtained from the Competent Authority	Employees of all the mines of Bhatgaon Area are residing at common colonies situated at Jarhi (Urja Nagar colony and Shakti Nagar colony) & Bhatgaon wherein total 04 nos of STP (2 nos x 0.5 MLD+ 2 nos x 0.35 MLD) has been constructed & operative.
11	EC dated 16.02.2018, Condition No.4.1(c).(viii).	Catch/garland drains and siltation ponds of appropriate size shall be constructed around the mine working, coal heaps & OB dumps to prevent run off water	Partly complied Garland/catch drains having the total length of about 7890m have been constructed, which inter-alia include 2370 m around the external OB dumps and 3500 m around the quarry area. The drains are regularly de-silted particularly before onset of monsoon	The construction of 470M (L) x 3M (Ht) x 1.0 - 1.5 M (Thickness) retaining wall at the toe of the External OB dump will be awarded soon and the work is expected to be completed in April 2025. Timeline: April 2025 Budget: 1.70 Crore

S. No.	Details of the EC and the condition	Condition as per EC	Observations of RO (abridged)	Response of PP as per ATR dated 17.12.2024
		<p>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</p>	<p>and maintained properly. PA shall construct retaining wall at the toe of the OB dumps.</p>	
12	<p>EC dated 16.02.2018, Condition No.4.1(j).(i).</p>	<p>Adequate ambient air quality monitoring stations shall be established in the core zone as well as in the buffer zone for monitoring of</p>	<p>Partly complied Ambient Air Quality is being monitored fortnightly through third party laboratory (CMPDI) in 8 locations comprising of both core zone and buffer zone for the parameters of SPM, PM10, PM2.5, SO2 and NOx.</p>	<p>Work awarded for CAAQMS vide Contract No: GEMC-511687709929811 dt 25.09.2024 (letter submitted). All the equipments of the system has been delivered to the Regional Store, Bhatgaon Area. The foundation work</p>

S. No.	Details of the EC and the condition	Condition as per EC	Observations of RO (abridged)	Response of PP as per ATR dated 17.12.2024
		<p>pollutants, namely PM₁₀, PM_{2.5}, SO₂ and NO_x. Location of the stations shall be decided based on the meteorological data, topographical features and environmentally and ecologically sensitive targets in consultation with the State Pollution Control Board. Online ambient air quality monitoring stations may also be installed in addition to the regular monitoring stations as per the requirement and/or in consultation with the SPCB. Monitoring of heavy metals such as Hg, As, Ni, Cd, Cr, etc to be carried out at least once in six months.</p>	<p>Monitoring of heavy metals such as Hg, As, Ni, Cd, Cr etc. is being carried out once in six months and the records are being maintained. Monitored data show that the values are within the limit. So far PA has not installed online continuous ambient air quality monitoring stations (CAAQMs) as stipulated. In this regard, PA informed that work order has been awarded</p>	<p>has been started and installation work will be completed by January 2025.</p>
13	<p>EC dated 16.02.2018, Condition No.4.1(k).(viii)</p>	<p>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.</p>	<p>Partly complied Project Authority has obtained "Consent to Establishment" from the Chhattisgarh Environment Conservation Board (CECB) vide Order No.321/TS/CECB/2018 Naya Raipur dated 06/4/2018 for the Coal production of 3.0 Million Tonnes / Annum (Normative) and 3.5 Million Tonnes / Annum (Peak) in the mining lease area of 686.151 Ha under Air and Water Act. Renewal of "Consent to Operate" has been obtained (for 3.00 MTPA (Normative) and 3.5 MTPA (Peak) Coal production) from the Chhattisgarh Environment Conservation Board (CECB) vide Order No.6597 /TS/CECB/2023 Nava Raipur Atal Nagar dated 23/11/2023 under the "Scheme of Auto-Renewal of Consent", which is valid till 30/11/2025. Authorization under the Hazardous and Other Wastes (Management & Transboundary Movement) Rules, 2016 have been</p>	<p>As per Notification S.O.227(E) dated 24/3/1992 <i>"In exercise of the powers conferred by clause (d) of Section 2 of the Public Liability Insurance Act, 1991 (6 of 1991), the Central Government hereby specifies the quantities shown in column 3 of the Table below for which or exceeding which every owner handling the hazardous substance mentioned in the corresponding entry in column 2 thereof shall take out insurance policy as per the provisions of the said Act."</i></p> <p>It is pertinent to mention that no hazardous substance as specified in the Notification S.O.227(E) dated 24/3/1992 is stored in JOCP. The details of explosive used in the mine is shown in the letter submitted which shows that the quantity is below the specified limit. Hence the provision of Public Liability Insurance is not applicable for JOCP.</p>

S. No.	Details of the EC and the condition	Condition as per EC	Observations of RO (abridged)	Response of PP as per ATR dated 17.12.2024
			obtained from the Chhattisgarh Environment Conservation Board (CECB) vide Order No. 3724/HSMD/HO/CECB/2020 Raipur dated 07/8/2020, which is valid till 23/7/2025. PA has not obtained Public Liability Insurance under Public Liability Insurance Act, 1991. PA in their self-environmental audit report expressly agreed upon for the compliance of the condition. However, now PA claims that the condition is not applicable for the Project on account of the Notification S.O.227(E) dated 24/3/1992. In the absence of amendment in the said EC condition, PA 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	The project is scheduled for expansion under clause 7(ii) as per OM F.No.IA3-22/10/2022-IA.III [E 177258] dtd 11.04.2022 and the matter will be taken up with EAC.

20.11.5: Compliance of Ministry's OM dated 11/04/2022: Instant proposal is for capacity enhancement from 3.5 MTPA to 4.2 MTPA, i.e., for first 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 'B2' to 'B1' or 'A' 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-à-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-à-vis last public hearing.

S. No.	Criteria	Status
4	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 proposed expansion is within 50% of production capacity for which last public hearing was held. This proposal is for first 20% expansion i.e. 3.5 MTPA to 4.2 MTPA (Phase I 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 ₁₀ , PM _{2.5} , SO ₂ and NO _x 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. EC-745/RON/2018-NGP/171 dated 13.12.2024 is satisfactory and ATR with suitable budgetary provisions for Partially complied conditions is attached as Annexure IV. The commitments made during the earlier public hearing are addressed duly and ATR with suitable budgetary provisions for the same is 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 1st 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.

20.11.6: Environmental Site Settings:

The project 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 involved 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 30.11.2024 is 40 ha. Further, PP submitted that there is no violation of Van (Sanrakshan Evam Samvardhan) Adhiniyam, 1980.

Protected Area: The project is not located within 10 KM of any ESZ/ ESA/ national park/ wildlife sanctuary/ biosphere reserve/ tiger reserve/ elephant reserve/tiger corridor/elephant corridor etc. Further, there is no violation of the WLP Act. PP submitted that there is presence of Schedule - I species [namely *Urva Edwardsii* (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: There is a Gohangar nallah adjacent to the ML boundary. There is Harnur nadi and Mahan river within 3 km of the ML area. Apart from this, there are several other nallahs within 10 km from the ML area. Further, there is no presence of ASI protected archaeological site in close proximity to the ML area.

20.11.7: 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 are 47.934 MT. 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 10 years (as on 01.04.2024).
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

Land Category	Area in Ha
Waste land	0
Grazing land	0
Surface water bodies	29.76
Road & Infrastructure	8.301
Others	0
Total	662.151

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	Ext 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
	TOTAL	524.291	129.66	8.2	662.151

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

- a. **In pit:** By trucks/ tippers
- b. **Surface to siding:** By trucks/ tippers
- c. **Siding to loading:** Initially by tippers/ trucks. The proposed nearest railway siding for Jagannathpur group of mines is around 5 km away from Jagannath 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 0.77 MT coal is transported by road to local consumers.
- 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 4.46 MT coal will be transported by rail and 0.79 MT coal will be transported by road to local consumers.

9. **Reclamation:** Afforestation will be progressively done in ha at the end of the mining. This will include 40 ha of reclaimed external OB dump, 391.39 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 32.2 ha will be used in infrastructure, embankment area and in township located outside the lease.

20.11.8: **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
AAQ parameters at 09 Locations (min and	Core Zone PM ₁₀ = 125.3 to 229.1 µg/m ³ ,

Period	Baseline data collected for the period March 2024 to May 2024
max)	<p>PM_{2.5} = 77.6 to 135.1 µg/m³, SO₂ = 25.6 to 37.3 µg/m³, NO_x = 30.6 to 42.8 µg/m³</p> <p>Buffer Zone PM₁₀ = 50.2 to 75.4 µg/m³, PM_{2.5} = 28.0 to 47.1 µg/m³, SO₂ = 14.5 to 29.6 µg/m³, NO_x = 20.3 to 35.7 µg/m³</p>
Incremental concentration (Baseline + GLC Level)	<p>Total GLC</p> <p>Core Zone PM₁₀ = 217.04 µg/m³ PM_{2.5} = 123.64 µg/m³ SO₂ = 37.31 µg/m³ NO_x = 54.77 µg/m³</p> <p>Buffer Zone PM₁₀ = 80.57 µg/m³ PM_{2.5} = 48.62 µg/m³ SO₂ = 29.30 µg/m³ NO_x = 39.63 µg/m³</p>
Ground water quality at 08 Locations	<p>Core Zone 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>Buffer Zone 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>
Surface water quality at 08 Locations	<p>The results ranges from</p> <p>Core Zone 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>Buffer Zone 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,</p>

Period	Baseline data collected for the period March 2024 to May 2024				
	COD: 5 to 10 mg/l, Heavy metals Arsenic: BQL(QL=0.005) to BQL(QL=0.005) mg/l,				
Noise levels Leq (Day and Night)	Core Zone 65.7 to 68 dB(A) for the day time and 55.0 to 57.3 dB(A) for the Night time. Buffer Zone 50.2 to 55.0 dB(A) for the day time and 39.5 to 44.3 dB(A) for the Night time.				
Traffic assessment study findings	Existing				
	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)	4576.01	28800	0.16	A (Represents a condition of free flow)
	Proposed				
Road	V (Volume in PCU/hr.)	C (Capacity In PCU/hr.)	Proposed V/C Ratio	LOS	
Existing Road	5885.81	28800	0.20	B (Represents a zone of stable flow)	
Flora and fauna	There is presence of Schedule - I species [namely <i>Urva Edwardsii</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 & 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.				
Water Requirement	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 03.12.2024. For validity extension request has been made along with advance abstraction charges for an amount Rs 20.80 lakhs on 22.11.2024. NOC extension awaited NOC (For surface water): No surface water is being utilised in the mining operation.				

20.11.9: Water Requirement: PP submitted that the existing water requirement for the said project is 2138 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 for Ground Water was valid till 03.12.2024. A validity extension request has been made along with advance abstraction charges for an amount Rs 20.80 lakhs on 22.11.2024. NOC extension is awaited.

20.11.10: 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.

20.11.11: 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 authorised 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

20.11.12: 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-Ramanujanj (C.G.)
Presiding Officer	CEO, Jila Panchayat-Surajpur	Upper Collector, & Addition District Magistrate, Balrampur
Number of Person Attended Hearing	400	350
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.	

Compliance of PH action Plan:

S. No.	Objections raised by villagers/Project affected persons	Comments of SECL	Action Taken																				
1	Regarding acquiring land in Schedule-V area under PESA Act	When any land is acquired under CBA Act, this act supersedes PESA Act. Therefore, acquisition of land in Scheduled-V area is not illegal. However, it shall be ensured to maintain the civilization and culture of tribal society while rehabilitation and resettlement of tribals.	<p>When any land is acquired under the CBA Act, this act supersedes PESA Act. Therefore, acquisition of land in Schedule-V is not illegal. However, it is ensured to maintain the civilization and culture of tribal society while rehabilitation and resettlement of tribals. Till date only 159 tribals PAF (66 of Balrampur- Ramanujganj District and 93 of Surajpur district) are rehabilitated and resettled and all have opted for in lieu of house compensation and subsistence allowance.</p> <p>In case of Jagannathpur OCP all PAFs opted monetary compensation in lieu of house plots, therefore R&R site is not required.</p> <p>The total R&R compensation required is approx. R 38.61 Cr out of which 13.78 Cr has been sanction. The compensation paid to the displaced family is Rs 6.14 Cr.</p>																				
2	Employment of villagers in lieu of tenancy land		<p>There exist 4 villages within the acquired area for JOCP. Management sanctioned total 619 no. of employment in respect of total 660.032 Ha. acquired land.</p> <table border="1"> <thead> <tr> <th>Village/ District</th> <th>Employment Sanctioned</th> <th>Emp. Provided</th> <th>MC provided</th> </tr> </thead> <tbody> <tr> <td>Jagannathpur Dist: Surajpur</td> <td>295</td> <td>102</td> <td>8</td> </tr> <tr> <td>Pampapur Dist: Surajpur</td> <td>9</td> <td>6</td> <td>0</td> </tr> <tr> <td>Chaura Dist: Balrampur-Ramanujaganj</td> <td>298</td> <td>195</td> <td>16</td> </tr> <tr> <td>Paraswarkala Dist: Balrampur-</td> <td>17</td> <td>12</td> <td>0</td> </tr> </tbody> </table>	Village/ District	Employment Sanctioned	Emp. Provided	MC provided	Jagannathpur Dist: Surajpur	295	102	8	Pampapur Dist: Surajpur	9	6	0	Chaura Dist: Balrampur-Ramanujaganj	298	195	16	Paraswarkala Dist: Balrampur-	17	12	0
Village/ District	Employment Sanctioned	Emp. Provided	MC provided																				
Jagannathpur Dist: Surajpur	295	102	8																				
Pampapur Dist: Surajpur	9	6	0																				
Chaura Dist: Balrampur-Ramanujaganj	298	195	16																				
Paraswarkala Dist: Balrampur-	17	12	0																				

S. No.	Objections raised by villagers/Project affected persons	Comments of SECL	Action Taken			
		SECL/Coal India offers employment due to need of manpower for its mines. There exist four villages within the acquired area of Jagannathpur OCP, out of which Public Hearing of two villages under district Surajpur is being conducted. Management assures to provide employments as per the prevailing laws / guidelines.	Ramanujganj			
				619	315	24
			<p>As on 28.01.2025 total 373 no. application for employment has been received, out of which total 315 employment and 24 (monetary compensation) in lieu of employment have been provided i.e. total 339 have been given. Balance 246 employment will be process for sanction subject to the submission of proposal by the landowner, in prescribed format with required documents. SECL management organized camp with the help of state revenue department, On dated 03.05.2023 at SAM office, on dated 04.09.2023 at SAM office, on dated 02.01.2024 panchayat bhawan Kerta, On dated 10.02.2024 at Panchayat Bhawan -Jagannathpur on dated 20.06.2024 at Panchayat bhawan Jagannathpur ,on dated 20.12.2024 at Anaganbadi kendra, Jagannathpur to motivate the landowner, so that employment proposal may enhance. (Copy of the minutes is submitted).</p> <p>The total capital expenditure for monetary compensation in lieu of employment approved is Rs 32.21 Cr out of which Rs 2.46 Cr has been paid.</p> <p>Tentative timeline for sanction of balance employment depends on the subject to the submission of employment proposals with required all mandatory documents: Dec 2026</p>			
3	In respect of employment and compensation of Mahan II OCM	Affected villagers of Mahan II OCP, Bhatgaon Area, who were not, awarded employment and/or compensation due to any reason, of management commits that they will be considered as per prevailing laws at the earliest	<p>Total 158 employments have been awarded and rest PAP who were not eligible for employment as per MP L&R policy, there monetary compensation has been approved by Headquarter, Bilaspur. Fifty-two of them applied for their monetary compensation, has been provided.</p> <p>The total sanctioned monetary compensation for in lieu of employment 87 PAP is Rs 62.37 Lakh out of which 51 PAP received Rs 45.51 Lakh monetary compensation in lieu of employment and balance monetary compensation of 36 PAP is Tentative timeline for Monetary compensation of Rs 16.86</p>			

S. No.	Objections raised by villagers/Project affected persons	Comments of SECL	Action Taken
		convenience	Lakh in lieu of employment to the rest PAPs will be provided subject to their application with all mandatory documents in the prescribed format by Dec 2025
4	Regarding basic amenities like road, electricity, drinking water etc.	Funds available under CSR head will be used for the development and welfare of most of the affected villagers	<p>Since past seven year for both Surajpur and Balrampur-Ramanujganj district total expenditure of Rs 868.51 Lakh incurred under CSR activities (Details submitted).</p> <p>SECL, Bhatgaon Area may expend fund of Rs 2 per ton of production or 2% of total profit, whichever is maximum, over CSR activities. As Jagannathpur has target of 3.5 MT per annum for the next coming years hence, mine may expend Rs 70 lakh in a year. In-spite of that if any proposal has merit (public interest), but more than sanctioned limit, than the proposal may also be forwarded for approval from higher authority.</p> <p>As per MoEF & CC O.M. dated 30/09/2020 for CER, the activities will be undertaken for addressing the PH issues. The Action Plan is submitted.</p>
5	In respect of apprehension of receding of water table in mining area	This is becoming a generalized opinion that the water table descends below the normal level wherever mining activity commences in any area. To explore the actual reason National Environmental Engineering and Research Institute (NEERI), Nagpur, a Government of India recognized Institution, has been engaged to study and suggest remedial measures in this regard wherein Rs. 40 Lakh	<p>The sump will act as a measure for groundwater recharge. In addition, roof top rainwater harvesting systems has been installed in the administrative buildings within the mine lease area. Water requirement of nearby village(s) will be met in case the village wells go dry as well as in the nearby areas.</p> <p>Furthermore, formation of Ponds & desiltation work in nearby villages will be done through CSR activities for water conservation.</p> <p>Timeline: Dec 2026</p>

S. No.	Objections raised by villagers/Project affected persons	Comments of SECL	Action Taken
		is expected to be incurred for the study. This is being assured from the part of SECL management that the recommendations and remedies of NEERI based upon the- study will be fulfilled religiously.	
6	Regarding development of nearby villages	Fund equivalent to 2% of total profit is earmarked for CSR activities. The entire fund generated shall be used for development of villages.	Since past seven year for both Surajpur and Balrampur-Ramanujganj district total expenditure of Rs 868.51 Lakh incurred under CSR activities (details submitted). In future company is desperate to do whichever project in public interest handover to the SECL, Bhatgaon Area by the administration. As per MoEF & CC O.M. dated 30/09/2020 for CER, the activities will be undertaken for addressing the PH issues. The Action Plan is submitted.
7	Regarding court case of Mahan II OCM against villagers	There has been some situation in Mahan II OCM under which a case has been registered in the court of law, though the company did not have any such motive. We do not hold responsible to any villagers but we apprehend that the case ought to have been solved by mediating bilateral talks. The case is now sub-judice so the solution of the case will be based upon the verdict of the court.	The cases registered in the court of law against villagers of Mahan II OCM has been finalized by the court without any punishment to the villagers.

S. No.	Objections raised by villagers/Project affected persons	Comments of SECL	Action Taken
8	Regarding dust suppression and coal transportation by road	Water spraying shall be done for dust suppression on coal transportation roads. Loaded-tippers shall be covered by tarpaulin while transportation of coal to minimize coal spillage & dust formation. In addition, plantation / green belt shall be developed along the safety zone of the mine.	Water sprinkling is being done on haul roads & other fugitive emissions points using 03 no. of 28 KL mobile water sprinkler, along with 03 no. 16 KL, 01 no. of 20 KL, 01 No. of 08 KL mobile water sprinkler of contractor. 10 No. of Fixed water sprinkler system arrangement is being along coal stock yards and transfer point within mine lease area. Mobile fog cannon machine is being used whenever required at loading points, haul road, and coal transportation route. Transportation of coal is being carried out by trucks covered with tarpaulin. 2.5 Km safety zone plantation has been done. Total 65400 plantation have been done over dump area and 37000 plantations have been done in safety zone area also 33700 grass bed have been done. The tentative plantation program for the next 5 year is also attached submitted. Total cost of Rs 338.43 lakh incurred for plantation.
9	Regarding blasting in mine	Controlled blasting shall be ensured as per the guidelines of DGMS and applicable regulations of CMR 1957 to minimize the impact of blasting.	Controlled blasting techniques are practiced as per DGMS guidelines.

Public Hearing Action Plan for next 10 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
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

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	
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
	TOTAL	0	95	129	54.5	90	15	15	30	15	10	453.50

20.11.13: EMP Budget: Existing capital cost of project was 45949 Lakhs. The capital cost of the proposed project is Rs. 46307 Lakhs and the capital cost for environmental protection measures is proposed as 14242.06 Lakhs as per the existing EIA/EMP report. The annual recurring cost towards the environmental protection measures is proposed as Rs.1246.349 Lakhs/year. The employment generation from the proposed project / expansion is 232. The details of cost for environmental protection measures is as follows:

S. No.	Description of Item	Existing (In Lakh)		Proposed (In Lakh)	
		Capital Cost	Recurring Cost	Capital Cost	Recurring Cost
(i)	Air Pollution Control/ Noise Management	647.33	0	638.82	0
(ii)	Water pollution control	744.65	0	707.19	0
(iii)	Environmental monitoring and Management	0	225	0	559
(iv)	Green belt and Plantation development	91	30.23	79.63	30.23
(v)	Other heads as proposed in EIA/committed during the EAC	9725.74	277.674	12816.42	657.119
	TOTAL	11208.72	532.904	14242.06	1246.349

Note: The above provision is including of R&R

20.11.14: Plantation: Existing green belt has been developed in 34.315 ha area which is about 5% of the total project area of 686.151 ha with total sapling of 37000 Trees. Proposed greenbelt will be developed in 58.606 ha which is about 8.5% of the total project area. Thus total 83515 trees in an area of 92.921 ha area (13.54 % of total project area) 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&CC, New Delhi guidelines. Local and native

species will be planted with a density of 2500 trees per hectare. Total no. of 1078425 saplings will be planted and nurtured in 431.37 hectares in external and internal dump.

20.11.15: 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				Total
		TL – 241.880 ha GL – 23.210 ha FL – 56.030 ha	TL – 7.740 ha GL – 0.300 ha FL – 6.930 ha	TL – 239.573 ha GL – 13.953 ha FL – 50.612 ha	TL – 14.325 ha GL – 0.0 ha FL – 5.479 ha	Total TL – 503.518 ha GL – 37.463 ha FL – 119.051 ha
1	No. of villages	1 Jagannathpur	1 Pampapur	1 Chaura	1 Paraswarkala	4
2	Total no of house project area holds	358 (approx.)	4	162	0	524
3	No. of houses as on date	180	0	12	0	192
4	Total no. of PAFs (approx.)	700	6	300	0	1006
5	PAFs as on date	575	0	172	0	747
6	Total employment to be given (in nos)	298	9	295	17	619
7	Total no of employment given as on 01.09.2024	102	6	207	12	327
8	Total land compensation given in crores	50.234 Cr	1.599 Cr	49.653 Cr	2.831 Cr	104.317 Cr
9	Total land compensation given in crores as on 01.09.2024	50.234 Cr	1.599 Cr	49.242 Cr	2.831 Cr	103.906 Cr
10	Status of balance employment	196	3	88	5	292
11	Status of balance compensation	0	00	0.411 Cr	0	0.411 Cr
12	Status of R&R site	All the PAFs have opted for monetary compensation in lieu of house plots, therefore R&R site is not required.				

20.11.16: Project Cost: Total capital cost of the project is 46307 lakhs. EMP annual recurring cost is proposed as 1246.349 lakh/year and the capital cost for environmental protection measures is proposed as Rs. 14242.06 lakh.

20.11.17: 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) Adhinyam, Wildlife Protection Act, MMDR Act, Factories Act.

20.11.18: Undertaking/ Affidavit: PP vide an undertaking dated 04/01/2025 submitted that – 1. 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 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 16/02/2018) for 3.5 MTPA

for Jagannathpur Opencast Project. 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 "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 Choura & 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-Ramanujgani. 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 Project of M/s South Eastern Coalfields Limited, is an existing operating Opencast Coal Mine having Environmental Clearance for 3.0 MTPA (Normative) and 3.50 MTPA (Peak) capacity, in an area of 686.151 Ha, vide MoEF&CC's Letter No. EC. No. J-11015/60/2016- IA. I (M) dated 16/02/2018. Public Hearing has been conducted on dtd 17.03.2017 & 10.02.2017 for total area of 686.151 Ha. 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 50% 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. 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 22nd January 2025 have no deviation in respect of the proposal no IA/CG/CMIN/515665/2024 for EC for coal mining having 662.151 ha of ML area and capacity of 4.2 MTPA for Coal Mine Project located at village Jagannathpur, Tehsil: Pratappur & Rajpur of District-Surajpur & Balrampur, State Chhattisgarh by M/s. Jagannathpur Opencast Coal Mine Project, of SECL, Bhatgaon Area.

2. 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.

3. 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.

20.11.19: Written Submission: PP after the meeting submitted the following:

S. No.	Particulars	Reply
1	NOC obtained for the Nallah which is already diverted shall be submitted	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. Letter of the same is submitted.
2	Pollution load bearing capacity report carried out by IIT/ BHU includes the data of 2015-2020. Updated report to be submitted	IIT-BHU has been consulted for updated study report vide letter no. SECL/BHAT/AGM/LBC JOCP/926 dated 28.01.2025. The reply from IIT-BHU is awaited.
3	Undertaking sought for construction of retaining wall to be completed by April 2025	Undertaking for construction of retaining wall is submitted.
4	Reverified AAQ data to be submitted	Reverified AAQ data is submitted.
5	Compliance status of PH action plan (done till date) to be submitted.	Compliance Status of PH action plan till 28.01.2025 is submitted
6	Ground water quality data verified through the nearby CGWA monitoring station	The ground water quality data verified through the nearby CGWA monitoring station is submitted.

Observation and deliberation of the EAC:

20.11.20: 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.
2. The above EC is under implementation and the PP has achieved the production of 2.830 MTPA in the FY 2023-24.
3. 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.
4. Instant proposal under consideration is expansion of Jagannathpur Opencast Coal Mine Project from 3.5 MTPA to 4.2 MTPA (Phase – I), within the reduced project 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.

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. Project does not fall in the Critically Polluted Area (CPA)/ Severely Polluted Area (SPA), as per CEPI Assessment, 2018.
7. The project is not located within 10 KM of any ESZ/ ESA/ national park/ wildlife sanctuary/ biosphere reserve/ tiger reserve/ elephant reserve/tiger corridor/elephant corridor etc. 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.
8. 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 30.11.2024 is 40 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 dtd 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. In spite of all the above facts, the total ML, area of the project remained unchanged as 662.151 Ha.

The total mine lease area acquired as per above mentioned S.O. 1935 dtd 04.08.2010 is 662.151 Ha. The provision of 24 Ha outside the ML area was made in the PR for colony & RR site, in addition of 662.151 Ha ML area which could not be acquired. Thus, the area for the proposal is 662.151 Ha.

Therefore, the land use has been revised in the mining plan of JOCP (3.5 MTPA to 5.25 MTPA) as tabled below:

S. No.	Type of Land	Land (ha)
1	Forest land	119.051
2	Tenancy/ Agricultural Land	505.039
3	Govt. Land	38.061
	Total	662.151

9. 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 10 years (as on 01.04.2024).

10. 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.
11. 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).
12. Committee deliberated on the baseline data submitted by the proponent and opined that the same shall be verified with the nearest CGWA monitoring stations. PP submitted that the quality parameter values of CGWB station are found in the range reported in baseline water quality data. PP also submitted the water quality reports of CGWA monitoring stations.
13. Committee observed that NOC renewal for abstraction of groundwater of 3435 KLD is yet to be obtained. PP has already paid the abstraction charges of Rs. 20.80 lakhs.
14. Committee deliberated on the plantation activities carried out by the proponent and observed that greenbelt has been developed in 34.315 ha area with about 37000 trees. Further, greenbelt will be developed in 58.606 ha. Thus, total nos of 183515 trees in an area of 92.921 ha area (13.54 % of total project area) 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&CC, New Delhi guidelines. Local and native species will be planted with a density of 2500 trees per hectare. Total no. of 1078425 saplings will be planted and nurtured in 431.37 hectares in external and internal dump. Committee opined that the gap plantation shall be carried out and plantation shall also be done along the periphery of STP. Further, the Plantation already done shall be strengthened. PP submitted the 5 year plantation plan.
15. 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. Currently 2.73 MT is being transported through rail and 0.77 MT is being transported through trucks to local consumers. A railway siding is proposed for Jagannathpur group of mines at a distance of approximately 5 km. Post commissioning of this railway siding, transportation of coal through rail will be 4.46 MT and by road will be 0.79 MT.
16. 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.
17. Committee deliberated on the Certified Compliance Report and the Action Taken Report thereon. Committee observed that there are a few partially complied and non-complied conditions on part of the proponent. Committee deliberated on each of it.
18. Committee deliberated on the inconsistency Rehabilitation and Resettlement details as stated in the Certified Compliance report of the RO. PP submitted that the no. of PAFs i.e. 390 in the EC based on PR of Jagannathpur OCP is tentative/estimated number, which is 1006 (approx. at present), within the acquired mine boundary of Jagannathpur OCP.
19. Committee deliberated on the Pollution Load Bearing Capacity Report of IIT (BHU) and observed that the data taken into cognizance in that report is of the year 2015-2020.

Committee opined that the latest report shall be submitted to the Ministry's RO within the next 6 months from the date of grant of EC.

20. Committee deliberated on the construction of the retaining wall on the toe of the OB dump and sought an undertaking from the proponent in this regard. PP submitted the undertaking that the said retaining wall will be constructed by April 2025.
21. Committee observed that the CAAQMS is yet to be installed and opined that the CAAQMS should be installed by January 2025 as committed by the proponent.
22. The project does not involve any legal issue/violation w.r.t i) Environment (Protection) Act, ii) Air(P&CP) Act, Water (P&CP), Act, Van (Sanrakshan Evam Samvardhan) Adhinyam, Wildlife Protection Act, MMDR Act, Factories Act.
23. The EAC also deliberated on written submission of the project proponent and found it satisfactory.

Recommendations of the Committee:

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

A. Specific conditions

- i. 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.
- ii. Proponent shall not divert any water body or road without obtaining the necessary permission from the competent authority.
- iii. Proponent shall submit the updated Pollution Load Bearing Capacity Report carried out by IIT (BHU) within 6 months from the date of grant of EC to the Ministry's Regional Office, Raipur.
- iv. The retaining wall on the toe of the OB dumps shall be constructed by April 2025, as committed.
- v. 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.
- vi. 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 employment as per the Public hearing action plan, to the remaining PAPs shall be completed by December 2025, as committed.
- vii. **Formation of rain water harvesting ponds and the desiltation work for water conservation shall be completed by December 2026, as committed.**

- viii. A 7.5 m wide greenbelt, consisting of at least 3 tiers around mine boundary and STP area shall be developed as greenbelt and green cover 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 1078425 saplings shall be planted and nurtured in 431.37 hectares in external and internal dump. Gap plantation shall be carried out and plantation shall also be done along the periphery of STP. Further, the Plantation already done shall be strengthened. PP shall strictly comply with the plantation plan submitted for the next 5 years. In addition to this, PP shall provide 50,000 plant saplings with 4 feet tall fruit bearing plants to farmers for plantation in barren and agriculture lands in the study area every year for 5 years with incentive to improve the green cover in and around the mine lease area. Besides, project proponent shall carry out three tier plantation along the coal transportation route. Compliance in this regard shall be submitted along with the six monthly compliance to the concerned Regional Office and also kept on the web portal of the company.
- ix. In order to mitigate air pollution in and around mine premises, the proposed railway siding shall be commissioned by December 2026. Thereafter, only 10% of the coal transportation will be allowed by trucks after December 2026 only for small scale industries.
- x. The budget proposed for PH (for next 10 years) is Rs 453.50 Lakhs. The budget proposed shall be kept in a separate account. Project proponent shall implement the action plan to address the issues raised during public hearing within the stipulated time frame. PP shall submit the progress report regarding the implementation of action plan to concerned RO along with the six monthly compliance report. In addition to this, PP shall strengthen the existing Primary Health Center (PHC) & Community Health Center (CHC) in the study area for better public health. As committed by the PP, PHCs & CHCs within the core and buffer zone shall be supported with adequate budget over 5 years, 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.
- xi. 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.
- xii. Hon'ble Supreme Court in an Writ Petition(s) Civil No. 114/2014, Common Cause vs Union of India & Ors vide its judgement dated 8th January, 2020 has directed the Union of India to impose a condition in the mining lease and a similar condition in the environmental clearance and the mining plan to the effect that the mining lease holders shall, after ceasing mining operations, undertake re-grassing the mining area and any other area which may have been disturbed due to their mining activities and restore the land to a condition which is fit for growth of fodder, flora, fauna etc. Compliance of this condition after the mining activity is over at the cost of the mining lease holders/Project Proponent". The implementation report of the above said condition shall be sent to the Regional Office of the MoEF&CC.
- xiii. 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.

- xiv. PP shall ensure that all types of plastic waste generated from the plant shall be stored separately in isolated area and disposed of strictly adhering to the Plastic Waste Management Rules 2016 (as amended). In pursuant to the Ministry's OM dated 18/07/2022. PP shall also create awareness among the people working in the project area as well as in its surrounding area on the ban on Single Use Plastic (SUP) in order to ensure compliance of Ministry's Notification published by the Ministry on 12/08/2021. A report along with photograph on the measures taken shall also be included in the six monthly compliance report being submitted by PP.
- xv. 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. The action in this regard shall be submitted concerned RO in six monthly report.
- xvi. 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.
- xvii. The PP should do intensive plantation around the STP area as committed.

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. The project proponent shall obtain clearance from the National Board for Wildlife, if applicable.
- iii. 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.
- iv. The maximum production or peak production at any given time shall not exceed the limit as prescribed in the EC.
- v. Validity of EC is as per life of the mine mentioned in EC letter or 30 years as per EIA Notification, 2006 and its amendments therein.

2. Air Quality Monitoring and Mitigation Measures

- i. Project proponent shall obtain requisite consent from State Pollution Control Board for 4.2 MTPA mining.
- ii. Adequate ambient air quality monitoring stations shall be established in the core zone as well as in the buffer zone for monitoring of pollutants, namely particulates, SO₂ and NO_x. 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.
- iii. The Ambient Air Quality monitoring in the core zone shall be carried out to ensure the Coal Industry Standards notified vide GSR 742 (E) dated 25th September, 2000 and as amended from time to time by the Central Pollution Control Board. Data on ambient air quality and heavy metals such as Hg, As, Ni, Cd, Cr and other monitoring data shall

be regularly reported to the Ministry/Regional Office and to the CPCB/SPCB.

- iv. Effective control measures such as regular water sprinkling/rain gun/ Fog cannon /mist sprinkling etc., shall be carried out in critical areas prone to air pollution with higher level of particulate matter all through the coal transport roads, loading/unloading and transfer points. Fugitive dust emissions from all sources shall be controlled regularly. It shall be ensured that the ambient air quality parameters conform to the norms prescribed by the Central/State Pollution Control Board.
- v. Major approach roads shall be black topped and properly maintained.
- vi. Vehicular emissions shall be kept under control and regularly monitored. All the vehicles engaged in mining and allied activities shall operate only after obtaining 'PUC' certificate from the authorized pollution testing centres.
- vii. PP should Install Wind breaker/shield arrangement along the railway siding for reducing the dust propagation in upwind direction.

3. Water Quality Monitoring and Mitigation Measures

- i. PP shall take approval from the CGWA/ Competent Authority prior to commencement of mining operations.
- ii. The effluent discharge (mine waste water, workshop effluent) shall be monitored in terms of the parameters notified under the Water Act, 1974 Coal Industry Standards vide GSR 742 (E) dated 25th September, 2000 and as amended from time to time by the Central Pollution Control Board.
- iii. The monitoring data shall be uploaded on the company's website and displayed at the project site at a suitable location. The circular No.J-20012/1/2006-1A.11 (M) dated 27th May, 2009 issued by Ministry of Environment, Forest and Climate Change shall also be referred in this regard for its compliance.
- iv. Garland drains (of suitable size, gradient and length) around the critical areas i.e. mine shaft and low lying areas, 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
- v. The water pumped out from the mine, after siltation, shall be utilized for industrial purpose viz. watering the mine area, roads, green belt development etc. The drains shall be regularly desilted particularly after monsoon and maintained properly
- vi. Industrial wastewater from coal handling plant and mine water shall be properly collected and treated so as to conform to the standards prescribed under the Environment (Protection) Act, 1986 and the Rules made thereunder, and as amended from time to time. Oil and grease trap shall be installed before discharge of workshop effluent. Sewage treatment plant of adequate capacity shall be installed for treatment of domestic wastewater.
- vii. The surface drainage plan including surface water conservation plan for the area of influence affected by the said mining operations shall be prepared, considering the presence of any river/rivulet/pond/lake etc., with impact of mining activities on it, and implemented by the project proponent. The surface drainage plan and/or any diversion of natural water courses shall be as per the provisions of the approved Mining Plan/

EIA-EMP submitted to this Ministry and the same should be done with due approval of the concerned State/GoI Authority. The construction of embankment to prevent any danger against inrush of surface water into the mine should be as per the approved mining plan and as per the permission of DGMS.

- viii. 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.
- ix. Industrial effluent and domestic wastewater shall be treated in the Effluent treatment Plant (ETP) and Sewage Treatment Plant (STP). After treatment, treated water shall be reused for plantation.

4. Noise and Vibration Monitoring and Prevention

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

5. Mining Plan

- i. Project proponent shall obtain star rating as per the guidelines of Ministry of Coal.
- ii. Mining shall be carried out under strict adherence to provisions of the Mines Act 1952 and subordinate legislations made there-under as applicable.
- iii. No change in mining method, calendar programme and scope of work shall be made without obtaining prior approval of the Ministry of Environment, Forests and Climate Change (MoEFCC).
- iv. 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 circulars issued by Directorate General Mines Safety (DGMS).
- v. Efforts should be made to reduce energy and fuel consumption by conservation, efficiency improvements and use of renewable energy.

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) from time to time shall be submitted to the Regional Office of MoEF&CC.

- (ii) The final mine void depth should preferably be as per the approved Mine Closure Plan, and in case it exceeds 40 m, adequate engineering interventions shall be provided for sustenance of aquatic life therein. The remaining area shall be backfilled and covered with thick and alive top soil. Post-mining land be rendered usable for agricultural/forestry purposes and shall be diverted. Further action will be treated as specified in the guidelines for Preparation of Mine Closure Plan issued by the Ministry of Coal dated 27th August, 2009 and subsequent amendments.
- (iii) The entire excavated area, backfilling, external OB dumping (including top soil) and afforestation plan shall be in conformity with the “during mining”/“post mining” land-use pattern, which is an integral part of the approved Mining Plan and the EIA/EMP submitted to this Ministry. Progressive compliance status vis-a-vis the post mining land use pattern shall be submitted to the MOEFCC/RO.
- (iv) Further, it may be ensured that as per the time schedule specified in mine closure plan it should remain live till the point of utilization. The topsoil shall temporarily be stored at earmarked site(s) only and shall not be kept unutilized. 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.
- (v) 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.

7. Public Hearing and Human Health Issues:

- i. Adequate illumination shall be ensured in all mine locations (as per DGMS standards) and monitored.
- ii. The project proponent shall undertake occupational health survey for initial and periodical medical examination of the personnel engaged in the project and maintain records accordingly as per the provisions of the Mines Rules, 1955 and DGMS circulars. Besides regular periodic health check-up, 20% of the personnel identified from workforce engaged in active mining operations shall be subjected to health check-up for occupational diseases and hearing impairment, if any, as amended time to time
- iii. 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.
- iv. 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.
- v. Effective arrangement shall be made to provide and maintain at suitable points conveniently situated, a sufficient supply of drinking water for all the persons employed.

- vi. 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. Corporate Environment Responsibility:

- 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 and/or shareholders/stake holders
- ii. A separate Environmental Cell both at the project and company head quarter level, with qualified personnel shall be set up under the control of senior Executive, who will directly report to the head of the organization.

9. Miscellaneous:

- i. The project proponent shall make public the environmental clearance granted for their project along with the environmental conditions and safeguards at their cost by prominently advertising it at least in two local newspapers of the District or State, of which one shall be in the vernacular language within seven days and in addition this shall also be displayed in the project proponent's 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 environmental 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 environment clearance portal.
- v. 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.
- vi. The project authorities shall inform to the Regional Office of the MOEFCC regarding commencement of mining operations.
- vii. The project authorities must strictly adhere to the stipulations made by the State Pollution Control Board and the State Government.
- viii. 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.
- ix. No further expansion or modifications in the plant shall be carried out without prior

- approval of the Ministry of Environment, Forests and Climate Change (MoEF&CC).
- x. 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.
 - xi. The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.
 - xii. The Ministry reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.
 - xiii. 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
 - xiv. 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 No. 20.12

20.12: Baranj Opencast Mining Project (area 1457.2 Ha having capacity 3.75 MTPA) by M/s Karnataka Power Corporation Ltd., located at Village: Bonthala, Somnala, Chek Baranj, Kadholi, Kesurli, Chinchordi, Barang Mokasa; District: Chandrapur; State: Maharashtra – Regarding withdrawal of proposal.

[Online Proposal No. IA/MH/CMIN/468727/2024; Consultant: Srushti Seva Private Limited NABET/EIA/21-24/SA 0229 Valid till 12/05/2025]

20.12.1: M/s Karnataka Power Corporation Ltd made an online application vide proposal no. IA/MH/CMIN/468727/2024 dated 18.05.2024 for seeking amendment in Environment Clearance issued vide letter no. J-11015/400/2005-IA-II(M) dated 11.09.2023. PP further raised a request for the withdrawal of the proposal on 16.12.2024 and accepted to comply with all the conditions in which amendment was sought.

20.12.2: Chronology of the Events:

1. The proposal was placed in the 12th EAC Meeting held on 5th – 7th June 2024 and following are the details of the amendment sought and observations of the EAC on the same:

Details of the EC and the Condition	EC Conditions	Amendment sought	Observation of EAC held on 5th – 7th June 2024
Specific Condition no. 4 (ii)	PP shall construct permanent boundary wall all along the boundary wall of Ordinance factory within 1 year. SPCB	PP shall construct barbed wire fencing all along the boundary wall of Ordinance factory within	PP shall discuss the matter with the Ordinance Factory first and obtain the necessary

Details of the EC and the Condition	EC Conditions	Amendment sought	Observation of EAC held on 5th – 7th June 2024
	shall grant the CTO accordingly.	1 year. SPCB shall grant the CTO accordingly.	permission/comments as the case may be before seeking amendment in this condition.
Specific Condition no. 4 (iii)	PP shall revise the mining plan as per latest guidelines of Ministry of Coal (issued in 2019 or 2020) including the incorporation of latest mining method and safety norms and excluding 200 ha of mine lease area declared as non-mining zone locating near to Ordinance factory. Accordingly, SPCB shall issue the CTO.	PP shall revise the mining plan as per latest guidelines of Ministry of Coal (issued in 2019 or 2020) including the incorporation of latest mining method and safety norms and including 200 ha of mine lease area located near to Ordinance factory.	The Committee is of the view that as mentioned in Para 86 Common Cause vs UoI that “..This is regardless of the quantum of extraction permissible in the mining plan or the mining lease and regardless of the duration of the mining lease.... Thus, the EC takes precedence over the mining lease or to put it conversely, the mining operations under a mining lease are dependent on and ‘subordinate’ to the EC.
Specific Condition no. 4 (v)	The Mine Plan shall restrict mining and dumping of OB with in the 200 ha of mine lease area declared as non mining zone lies along the boundaries of Ordinance Factory.	Mining shall be shall be strictly carried out without blasting in this 200 Ha area.No Objection Certificate from Archaeological Survey of India may kindly be waived.	Further, PP while getting the mining plan approved mentioned in para 1.3 that PP shall comply with EC conditions. However, these restrictions were imposed in pursuant to recommendations of the High Power Committee for the protection of Ordinance Factory as per which there is a restriction of 3 KM from the boundary of Ordinance Factory for mining operations and also it was mentioned for development of green belt between the factory premises, colony and mine site. For this it is clear that mine plan should be in line with recommendations of the aforementioned committee.
Specific	PP shall obtain No Objection	No Objection Certificate	The Committee asked the

Details of the EC and the Condition	EC Conditions	Amendment sought	Observation of EAC held on 5th – 7th June 2024
Condition no. 4 (vi)	Certificate from Archeological Survey of India for blasting for its impact on Bhadravati Fort and Vijasan Ancient Caves. Further install the vibration monitoring facilities at these locations. DGMS shall ensure that vibration values are within the stipulated guidelines of Archeological Survey of India (if any).	from Archeological Survey of India may kindly be waived.	PP whether they have ever approached ASI for their comments. PP informed that they have not yet approached the ASI. The Committee was thus of the view that without taking any effort, PP is coming for amendment in EC condition. As the ASI may have some restriction for the development in nearby area and also for mining which not only have blasting but may also have air pollution related issues. Therefore, the Committee is of the view that PP first approach ASI.
Specific Condition no. 4 (xi)	PP shall deploy at least 20% of overall fleet of dumpers/trucks as electrical or CNG/LNG based dumpers/trucks for transportation of coal/OB etc and deploy e-vehicles for workers/staff in/out of the mine.	Kindly make this condition optional and not mandatory for coal/OB transportation.	The Committee is of the view that PP shall approach the Manufacturers for the same and explore the possibility. In addition to this PP should also be using LMVs which can be easily shift from diesel to EV or on other cleaner fuels.
Specific Condition no. 4 (xii)	PP shall deploy the truck size of upto 40 tonnes (payload) for transportation of coal by road in covered trucks. PP shall deposit requisite amount for maintenance of road used for coal transportation till Majri Railway siding (7 km). No other siding shall be used if in case it is beyond 7 km distance.	This condition may be modified till the expansion of Majri Rly siding is implemented.	The Committee is of the view PP shall first identify the railway siding to which coal is to be transported from mine. Transportation route needs to be shown, traffic study on the same needs to be done, impact needs to be assessed then only any decision of the same can be taken.
Specific Condition no. 4 (xvii)	No coal transportation shall be done through sensitive locations such as villages, hospitals, school etc.	Adequate Mitigative measures for safety and control of pollution near the sensitive locations on existing transport road should be implemented.	The Committee is of the view that PP shall provide the details of the transportation route with location and type sensitive locations. Further assess the impact and propose the mitigative measure,

Details of the EC and the Condition	EC Conditions	Amendment sought	Observation of EAC held on 5th – 7th June 2024
			compensation etc. to deliberate on this issue.

Committee further observed that from the CCR there are some partially/non-complied conditions. PP not has even constituted an Environment Management Cell. The Committee is of the view that PP shall comply with the EC conditions and submit and action taken report to concerned RO. The Committee also advised the consultant and PP to ensure that meeting shall only be attended by the PP and NABET Accredited consultant and online link provided by NIC to PP should not be shared with anyone else. The Committee with above observation deferred the proposal for want of above information.

2. The proposal was pending with the proponent since then for the reply of the information sought during the 12th EAC Meeting held on 5th – 7th June 2024. However, PP raised a request for the withdrawal of the proposal on 16.12.2024 and accepted to abide by all the conditions as stated in the EC letter dated 11/09/2023 in a time bound manner.

Recommendations of the Committee:

20.12.3: In view of the foregoing deliberation, the Committee *recommended* for the withdrawal of the above mentioned proposal.

Agenda No. 20.13

20.13: Amrapali Opencast Coal Mining Project (area 619.87 Ha having capacity 24.19 MTPA) by M/s Central Coalfields Limited, located at Villages: Binglal, Honhi, Kumarang Kalan, Kumarang Khurd and Ursu; District: Chatra; State: Jharkhand – Regarding grant of amendment in EC for time extension for transportation of coal by road and installation of conveyor belt.

[Online Proposal No. IA/JH/CMIN/513496/2024; Consultant: CMPDIL; NABET/EIA/22-25/SA0223 valid till 08/04/2025]

20.13.1: The instant proposal is for amendment in Environment Clearance granted to M/s Central Coalfields Limited vide Letter No. J-11015/109/2003-IA.II(M) dated 05.02.2024, for Amrapali Opencast Coal Mining Project (area 619.87 Ha having capacity 24.19 MTPA), located at Villages: Binglal, Honhi, Kumarang Kalan, Kumarang Khurd and Ursu; District: Chatra; State: Jharkhand.

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

S. No	Details of Letter No.	EC/ Expansion EC/ Amendment in EC/ Validity extension/ Transfer of EC	Capacity (MTPA)	Area (Ha)	Date of issuance	Status of implementation

1	J-11015/109/2003-IA.II(M)	EC	12 MTPA	1426.08 Ha.	03.01.2006	Implemented
2	J-11015/109/2003-IA (M)	EC Revalidation	12 MTPA	619.87 Ha.	28.02.2020	Implemented
3	J-11015/109/2003-IA.II(M)	Expansion under clause 7(ii)	14.40 MTPA	619.87 Ha	20.03.2020	Implemented
4	J-11015/109/2003-IA (M)	Expansion	20.16 MTPA	619.87 Ha.	10.05.2021	Implemented
5	J-11015/109/2003-IA.II(M)	EC Amendment (Timeline extension for Pit head CHP/railway siding upto Jan 2025)	20.16 MTPA	619.87 Ha.	12.05.2023	Implemented
6	J-11015/109/2003-IA.II(M)	Expansion under clause 7(ii)	24.19 MTPA	619.87 Ha.	05.02.2024	Being implemented

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

20.13.3: Past 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 FY 2013-14 onwards. CTO renewal has been obtained from the SPCB and is valid up to 28.02.2025. Details of the same are as follows:

Year	Actual Coal Production in MTPA	Planned Coal production in MTPA as per Environmental Clearance	Excess Production
2013-14	-	12.00	Nil
2014-15	2.55	12.00	Nil
2015-16	4.79	12.00	Nil
2016-17	6.23	12.00	Nil
2017-18	6.49	12.00	Nil
2018-19	10.20	12.00	Nil
2019-20	12.79	14.40	Nil
2020-21	14.39	14.40	Nil
2021-22	16.58	20.16	Nil
2022-23	18.00	20.16	Nil
2023-24	22.58	24.19	Nil
2024-25 (till 31.12.24)	16.73	24.19	Nil

20.13.4: Details regarding amendment sought in the dated 05.02.2024:

Condition Number of EC dated 05.02.2024	Condition as per Approved Amendment in EC	Proposed Condition	Justification
Specific Condition No. 1.2	PP should complete the coal transportation from Amrapali railway siding through belt conveyor before January 2025 and SPCB shall issue CTO accordingly.	PP should complete the coal transportation from Amrapali railway siding through belt conveyor by March 2027. Till the time, PP is permitted to transport coal through dedicated coal transportation road to Shivpur Siding and to local consumers (including NTPC Tandwa) by adopting all mitigative measure to control dust pollution.	The work of construction of Amrapali Railway Siding has been awarded to M/s RITES Ltd. The total route length for Railway Line is 22 KM. Work has been completed on the Non-Forest Land (~23%). Balance work is due on Forest Land for which Stage-II FC is expected by March-2025. Work-Order for construction of CHP has been awarded M/s S.K. Samanta & Co. Pvt. Ltd on 07.02.2024. The work of CHP & Conveyor falls within the Forest Land of Amrapali OCP (431.59 Ha). Stage-I FC of Amrapali OCP (431.59 Ha) is available and its Stage-II is expected by March-2025. In view of the above, the CHP-Silo-Siding construction is expected to be completed by March-2027.

20.13.5: Traffic Assessment Study Report: The total length of coal transportation route from the stock yard of mine to Shivpur railway siding is 7 km, of which 3 km falls within the Mine lease area of Amrapali OCP and 4 km stretch falls outside the mine lease area. The ambient air quality in areas near the coal transportation route is regularly monitored to evaluate any potential impact from road transportation. The air quality is monitored at 3 locations, namely, Honhe Village, Shivpur Village and Koed Village at the distance of 250 m, 300 m and 1700 m respectively, from the coal transportation route.

The average PM₁₀ at Honhe Village, Shivpur Village and Koed Village varied between 64-86 µg/m³, 64-81µg/m³ and 63-75 µg/m³ respectively. Similarly, the average PM_{2.5} at Honhe Village, Shivpur Village and Koed Village varied between 32-48 µg/m³, 31-56 µg/m³, and 31-46 µg/m³ respectively.

The average SO₂ at Honhe Village, Shivpur Village and Koed Village varied between 18.9-28.4 µg/m³, 17.6-29.5 µg/m³ and 12.4-21.9 µg/m³ respectively. Similarly, Nox at Honhe Village, Shivpur Village and Koed Village varied between 13.2-25.9 µg/m³, 11.7-21.5 µg/m³ and 13.2-24.2 µg/m³ respectively.

Based on the air quality monitoring data from March to May 2024 across three locations Honhe Village, Shivpur Village, and Koel Village—there is a noticeable trend of compliance with the applicable GSR standards for SO₂ and NO_x concentrations. In Honhe, Shivpur, and Koel Villages demonstrate SO₂ and NO_x concentrations well within the GSR 826(E) standard of 80 µg/m³.

Based on the monitoring results, it can be concluded that road transportation has no significant impact on nearby habitations. This is attributed to the following reasons:

- The transportation routes are located away from existing habitations, with natural vegetation serving as a barrier between the roads and villages.
- Effective pollution control measures are in place, such as sprinklers, wind barriers, avenue plantations, wheel washing systems, and road sweeping machines.

Noise level monitoring was carried out during day and night at 4 locations, namely Amrapali Project Office, Amrapali Pit Office, Honhe Village and Primary School at Honhe Village. Out of these 4 locations, Amrapali Project Office and Amrapali Pit Office are industrial areas, Honhe Village is residential area and Primary school at Honhe village is silent zone.

The estimated noise levels in Amrapali Project Office and Amrapali Pit Office, during the day time were recorded to be between 61.8-64.1 dBA and 59.3-63.6 dBA respectively and during the night time were recorded to be between 55.8-58.1 dBA and 54.8-57.5 dBA respectively.

The estimated noise levels in Honhe village and Primary school at Honhe village, during the day time were recorded to be between 45.1-48.5 dBA and 39.6-43.1 dBA respectively and during the night time same was recorded to be between 38.2-40.6 dBA and 32.2-34.2 dBA respectively.

To assess the existing traffic patterns in the existing coal transportation road due to proposed project, classified volume count (CVC) at selected nodes/junctions is collected. The survey was conducted for 24 hours' duration and traffic (in both ways) count of each type of vehicle was recorded on hourly basis. Category-wise vehicle counting has been done continuously and recorded in the traffic volume count on hourly basis under respective categories. As the road is a dedicated coal transportation route, only coal trucks have been observed, no private passenger vehicles have been found. Maximum volume of PCU were observed as 614 PCU.

The traffic load observed during the environmental monitoring and traffic study period (March to May 2024) has been considered as the baseline traffic, with any increase treated as additional traffic for impact assessment and further analysis.

- The average monthly coal dispatch to Shivpur Siding during the pre-monsoon season of 2024 was 1.22 MT.
- The Environmental Clearance (EC) capacity of Amrapali OCP is 24.19 MTPA, with a proposed dispatch of 20.16 MTPA to Shivpur Siding for the next financial year, equivalent to 1.68 MT per month.
- Additionally, 2.80 MTPA is planned to be dispatched from Chandragupt OCP to Shivpur Siding, which translates to 0.24 MT per month.
- The baseline peak traffic density was derived as 614 PCU/hr for dispatching 1.23 MT/Month.
- The additional coal dispatch is estimated as 0.69 MT/ month, which translates to 23000 tonnes/day.
- The carrying capacity of vehicles deployed for transportation of coal is 42 tonnes/truck.
- The expected maximum traffic volume is 794 PCU/ hr. Level of service is expected to fall under the Category "Good".

Observation and conclusion:

1. The maximum incremental concentration of PM₁₀ and PM_{2.5} have been estimated for two scenarios namely, considering existing pollution control measures and proposed control measures.
2. This project has already envisaged suitable control measures viz. PQC road, fixed and mobile sprinkling system, dust extraction system, wind breakers etc. that can help in preventing the generation of dust at source and control the transport of dust to nearby receptors.
3. In addition to the existing pollution control measures, following additional measures along with the timelines are proposed as given below for further controlling the impact of road transportation on ambient air quality.

Proposed additional pollution control measures on CTR

S. No.	Proposed Activity	Capital Cost (Rs. Lakhs)	Recurring Cost / Year (Rs. Lakhs)	Timeline
1	Avenue Gap Plantation on CT Road (10,000 Saplings with tree guards)	100	50	June 2025
2	02 nos. road sweeping machines	0	132	March 2025
3	Extension of Windscreens on CT Road	600	0	June 2025
4	Automatic Wheel Washing System (02 nos.)	130	20	February 2025
5	Extension of Fixed sprinkling System on CT Road (1500 m)	250	40	June 2025
6	01 no. of truck mounted fog canon	0	60	June 2025
7	Extension of Fixed Sprinkling system on Shivpur Siding (1500m)	200	40	June 2025
8	Extension of Windscreen on Shivpur Siding (1500 m)	500	0	June 2025
9	04 nos. additional fixed fog canons on CTR	34	20	May 2025
10	01 Construction of CAAQMS at GM Office	60	3	June 2025
Total Cost in Rs. Lakhs		1874	365	

20.13.6: Justification for delay in construction of the Conveyor Belt: The reasons for delay in the construction of Amrapali siding and CHP along with conveyor arrangement are as follows:

- The work of construction of Amrapali Railway Siding was awarded to M/s RITES Ltd on 22.05.2017. The total land required for Railway Siding & Railway Line is 160.10 Ha, of which 120.61 Ha land is forest land (~75%). Stage-I Forest Clearance (FC) for this Forest Land was issued on 17.01.2024.
- Similarly, for the construction of CHP, the first work-order was awarded to M/s Larsen & Toubro Limited on 31.12.2020. The proposed land for construction of CHP falls within the Forest Land of 431.59 Ha. Due to delays in the obtaining Forest Clearance, the contract had to be cancelled.
- Stage-I FC of 431.59 Ha was granted on 21.12.2023, and a fresh Work-Order for construction of CHP has been awarded M/s S.K. Samanta & Co. Pvt. Ltd on 07.02.2024.
- However, since Stage-II FC for both Railway Siding and CHP is still under progress, construction work could only proceed over non-forest and railway land.
- As of now, the physical progress against the on-going contract of Railway Siding is 22% and it is accordingly it is expected to be completed by March-2027.

Actual progress of Railway Siding

The said work has been allotted to RITES Ltd., the details of work order is given below:

S. No.	Particulars	Details
1	Date of Award of Work	22.05.2017
2	Original Completion Date	May' 2019
3	Estimated Cost	378.64 Crs.
4	Total Length	22 Rkm/30 Tkm
5	Total Area	160.61 Ha
6	Total Forest Land	120.61 Ha
7	Physical Progress	22.61%
8	Financial Progress	35.32% (Rails + Sleepers)
9	Likely Date of Completion	31.03.2027

- Total land required is 160.10 Ha., out of which 120.61 Ha. is in forest land. In Principle approval of Stage-I forest clearance accorded on 17.01.2024. Work permit is required from Forest dept./ CCL.
- Out of 16.6Km route length outside Railway area, work in 0.7 Km stretch in private land (in Honhe Village) is in progress. In this stretch, several GMK land &

compensation related issue of land oustees still persist. Due to this, 4 bridges out of 8 bridges has been taken up for construction & Completed and construction in 01 bridge is completed except R/wall. Work in 2 bridges are in progress.

- At other private land location (Naudiha, Soparam, & sarendag village etc), work could not be taken up due to Job & compensation related issues from villagers with CCL.

In light of the delay being caused for construction of railway siding and CHP, it is proposed to continue road transportation of coal from shivpur siding through the dedicated coal transportation until March 2027.

20.13.7: Details of Court Cases: PP submitted that there are two court cases pending on the project. Details of the same are as follows:

Court Name	Bench	Case Category	Case Details	Present Status
NGT	Eastern Bench	Appeal 06/EZ/2020	Appellant filed case against exemption of PH in expansion of Amrapali expansion (12 to 14.4 MTPA) relying on OM dtd 15.09.2017, stating that OM cannot circumvent EIA2006. IRO MoEF, Ranchi has submitted Counter Affidavit dated 07.10.2021, clarifying that Ministry's OM dated 15.09.2017 does not, in any way, circumvent or override the provisions of EIA 2006 para 7(ii).	Next hearing is scheduled on 11.02.2025
High Court	High Court of Jharkhand	WP(C)1785 of 2021, WP(C)1965 of 2021, WP(C)1987 of 2021	Writ petition was regarding tender for coal transportation published by CCL 1. Transportation capacity of 25.50 MTPA mentioned in NIT against the EC of 20.16 MTPA. 2. NIT condition that about 1.70 km of the proposed transport road is not built on CCL acquired land 3. The reason for EAC to consider enhancement of production was the commitment of CCL to switch to conveyor transport within a period of 2 years. CCL has come out with tender for 4 years, violating the EAC terms. In reply PP has submitted that, Amrapali has never exceeded the EC capacity. Also, MoEF in its Counter Affidavit submitted that as long as physical activities are within the limits prescribed in the EC, NIT per se does not imply violation. Furthermore, Issue relates to execution of the contract, hence is not related to environment related matter.	Next Date is not given

Observations and deliberation of the Committee:

20.13.8: The EAC noted the following:

1. The instant proposal is for grant of amendment in EC granted to M/s Central Coalfields Limited vide letter no. J-11015/109/2003-IA.II(M), dated 05.02.2024 for Amrapali Opencast Coal Mining Project (area 619.87 Ha having capacity 24.19 MTPA), located at Villages: Binglal, Honhi, Kumarang Kalan, Kumarang Khurd and Ursu; District: Chatra; State: Jharkhand.
2. The project involves 531.64 ha of forestland, on which PP has accorded Stage – II forest clearance vide letter dated 12.10.2010.
3. The instant proposal is now placed before the EAC to seek amendment in the Specific Condition No. 1.2, of EC dated 05.02.2024. The said condition stated, “PP should complete the coal transportation from Amrapali railway siding through belt conveyor before January 2025 and SPCB shall issue CTO accordingly.”

PP sought amendment in the said condition, seeking extension in timeline for construction of the said railway siding and belt conveyor, till March 2027.

4. Committee deliberated on the reasons for delay in implementation of the said condition and observed that, the total route length of railway line is 22 km. Some part of it falls within the forestland (which is outside the ML area), on which Stage – I forest clearance has been accorded vide letter dated 17.01.2024, while Stage – II forest clearance is under process and the same is expected to be obtained by March 2025. PP submitted the geo-tagged photographs of the construction done till date.
5. Committee deliberated on the progress done till date for the said railway siding and belt conveyor and observed that the construction work on non-forest land has been completed. Out of the total land involved for the same, only 23% of the land is non-forest land and rest is forestland, on which Stage – II forest clearance is yet to be accorded (expected to be obtained by March 2025).

Committee observed that work order for construction of Amrapali Railway Siding has been awarded to M/s RITES Ltd on 22.05.2017 and Work-Order for construction of CHP has been awarded M/s S.K. Samanta & Co. Pvt. Ltd on 07.02.2024. Accordingly PP sought the timeline extension for construction of railway siding and conveyor belt up to March 2027.

6. Committee deliberated on the Traffic Assessment Study Report submitted by the proponent and observed that the existing CTR is a dedicated coal transportation route and does not pass through any of the villages/ habitations. Total length of this road is 7 km out of which 3 km is within the ML boundary. No habitation lies within 200 m from the road. The AAQ and noise monitoring parameters are found to be within limits, however in some cases on the higher side. Committee deliberated on the control measures being currently undertaken by the proponent and proposed further by the proponent. Committee opined that vehicles to be used for coal transportation shall not be older than 5 years and all the additional control measures proposed shall be complied with.
7. Committee deliberated on the plantation activities done by the proponent and observed that good plantation has been developed by the PP over the OB dump of the Amrapali

OCP and proponent has awarded work order to IFP-ICFRE on 28.08.2024 for carrying out miyawaki plantation at Amrapali OCP for a period of 4 years. Plantation has also been developed on the periphery of the coal transportation road, however, this plantation is mostly of Eucalyptus species. Committee opined plantation on the road side shall be improved and native species shall be planted by March 2025 itself. Committee also opined that, school premises in the nearby villages shall also be planted and provision to supply water for these plants shall also be done by the proponent.

8. During the deliberation, the Committee observed that, as per the EC letter dated 05.02.2024, life of mine is mentioned as 2 years only. Accordingly, the EC is valid up to 04.02.2026. PP submitted that an application for environment clearance will be submitted this year itself for expansion of this project.

Committee took this aspect into cognizance and opined that the amendment shall be given only till the validity of the existing EC and will be further taken into cognizance at the time of EC expansion project, which is supposed to be submitted by the proponent.

Recommendations of the Committee:

20.13.9: 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-11015/109/2003-IA.II(M) dated 05.02.2024 as detailed below **subject to stipulation of following additional specific conditions**. Other terms and conditions prescribed in EC dated 05.02.2024 shall remain unchanged:

Reference in EC letter dated 05.02.2024	Description as per approved EC letter dated 05.02.2024	Amendment sought in EC	Recommendation of EAC
Specific Condition No. 1.2	PP should complete the coal transportation from Amrapali railway siding through belt conveyor before January 2025 and SPCB shall issue CTO accordingly.	PP should complete the coal transportation from Amrapali railway siding through belt conveyor by March 2027. Till the time, PP is permitted to transport coal through dedicated coal transportation road to Shivpur Siding and to local consumers (including NTPC Tandwa) by adopting all mitigative measure to control dust pollution.	Recommended Concerning the changes in specific condition no. 1.2 of EC dated 05.02.2024, Committee recommended to amend specific condition no. 1.2 as follows: <i>“PP shall complete the construction of Amrapali railway siding, belt conveyor and CHP before February 2026. Till the time, PP is permitted to transport coal through dedicated coal transportation road to Shivpur siding and local consumers by adopting all the mitigative measures to control pollution.”</i>

Additional Specific Condition:

- i. Green house emission from the mine operations shall be evaluated and corresponding carbon absorption plan shall be submitted to the concerned RO, MoEF&CC by March, 2025.
- ii. Ambient Air Quality (AAQ) and Noise quality data along the entire coal transportation route shall be monitored and the data shall be submitted along with the six monthly compliance to the concerned Regional Office and also kept on the web portal of the company.
- iii. All the recommendations made in the Traffic Assessment Study Report regarding coal transportation by road shall be strictly adhered with.
- iv. Additional air pollution control measures should be taken along roads being used for transport of coal including e-/CNG/LNG vehicles.
- v. PP shall adopt wildlife protection measures including creating awareness among the drivers, sensitizing the drivers about prevention of road kills and handling of wildlife encounters while driving through forest areas and speed governors must be installed in the coal transporting trucks/dumpers.
- vi. Project proponent shall carry out three tier plantation along the coal transportation route by March 2025. Compliance in this regard shall be submitted along with the six monthly compliance to the concerned Regional Office and also kept on the web portal of the company. In addition to this, PP shall provide 50,000 plant saplings with 4 feet tall fruit bearing plants to farmers for plantation in barren and agriculture lands in the study area every year for 5 years with incentive to improve the green cover in and around the mine lease area.
- vii. Proponent shall align its activities to the Sustainable Development Goals (SDG), for which Present status inter-alia distribution of solar lights to near by villages and an action plan shall be submitted to the concerned RO, MoEF&CC by February, 2025.

Agenda No. 20.14

20.14: Gauthamkhani Opencast Mine (area 902 Ha having capacity 4 MTPA) by M/s Singreni Collieries Co Ltd, located at Village: Penagadapa, District: BhadradiKothagudem; State: Telangana –Amendment in EC w.r.t. implementation of RP&NCRAP and release of Bank Guarantee – regarding.

[Online Proposal No. IA/TG/CMIN/505873/2024; Consultant: Environment Protection & Training Research Institute – NABET/EIA/24-27/RA0337 valid up to 21.01.2027]

20.14.1: The instant proposal is for amendment in Environment Clearance granted to M/s Singareni Collieries Company Limited (SCCL) accorded vide letter no 23-254/2018-IA.III(V) dated 20.05.2021 for Expansion of Gauthamkhani Opencast Coal Mining Project (area 902 Ha having capacity 4 MTPA) located at Village: Penagadapa, District: BhadradiKothagudem; State: Telangana.

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

S. No.	Details of Letter No.	EC/Expansion EC/Amendment in EC/Validity extension/ Transfer Of EC	Capacity (MTPA)	Area (Ha)	Date of issuance of EC	Status of implementation
1	File No.J-11015/46/89 - JA-11(M),	EC (Initial)	2.00	1113.00	13.01.1993	Implemented
2	File No. J-11015/46/89-JA-11(M).	Additional Environmental Conditions for EC dated 13.01.1993.	2.00	1113.00	09.05.2001	Implemented
3	File No. 23-254/2018-IA.III(V)	Expansion EC under violation category	4.00	902.00	20.05.2021	Implemented

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

20.14.3: PP submitted that the concerned mines became operational from FY 1993-94 onwards. Details of the same are as follows:

Year	Actual Coal production in MTPA	Planned Coal production in MTPA as per Environmental Clearance in MTPA	Excess Production
1993-94	0.12	2.0	Nil
1994-95	0.37	2.0	Nil
1995-96	0.72	2.0	Nil
1996-97	0.77	2.0	Nil
1997-98	0.71	2.0	Nil
1998-99	1.10	2.0	Nil
1999-00	1.40	2.0	Nil
2000-01	1.60	2.0	Nil
2001-02	2.35	2.0	0.35
2002-03	2.61	2.0	0.61
2003-04	2.64	2.0	0.64
2004-05	2.93	2.0	0.93
2005-06	2.95	2.0	0.95
2006-07	2.90	2.0	0.90
2007-08	2.79	2.0	0.79
2008-09	3.35	2.0	1.35
2009-10	3.59	2.0	1.59
2010-11	3.32	2.0	1.32
2011-12	3.22	2.0	1.22
2012-13	3.20	2.0	1.20
2013-14	2.85	2.0	0.85
2014-15	2.41	2.0	0.41
2015-16	2.73	2.0	0.73
2016-17	3.24	2.0	1.24
2017-18	3.42	2.0	1.42
2018-19	3.93	2.0	1.93
2019-20	3.99	2.0	1.99
2020-21	2.53	2.0	0.53
2021-22	3.314	4.0	Nil
2022-23	0.656	4.0	Nil
2023-24	0.127	4.0	Nil

W.r.t the previous approvals, the actual production detail of the concerned mine and submit that the mine became operational from 1993 onwards. CTO renewal has been obtained from the SPCB and is valid up to 30.09.2026 (Mine ceased its operation with effect from 14/08/2024).

20.14.4: Details regarding amendment sought in the EC dated 20.05.2021

I. Brief of EC dated 20.05.2021

MoEF&CC has accorded EC for expansion of Gauthamkhani Opencast Coal Mining Project vide letter no 23-254/2018-IA.III(V) dated 20.05.2021 for an area of 902 Ha having capacity 4 MTPA, under the violation category as per the provisions contained under S.O. 804(E), dated 14.03.2017. As per the EC accorded, the proponent has to comply with the following conditions with respect to Remediation Plan (RP) & Natural and Community Resource Augmentation Plan (NCRAP).

i. An amount of Rs. 540.0 lakhs towards Remediation plan and Natural and Community Resource Augmentation plan to be spent within a span of three years. The details of Remediation plan, Natural resource Augmentation plan and Community Resource Augmentation plan with budgetary provision are mention below:

Remediation plan with the budgetary provisions:

S. No.	Component Remediation	Remediation Proposed	Description	Locations	Unit Rate in Rs.	Total Qty	Total Cost	Year I	Year II
1a	Air & Noise Environment	Dust Suppression	Providing wind barrier and vertical greenery outside ML area towards the direction of head CHP.	Outside ML boundary area	30,00,000/ 100 mtrs	500 m	150.00	70.0	80.0
1b	Noise Environment and Ecology	Avenue Plantation	Plantation of total 3000 Nos native plants at Rs. 1000 per sapling, including maintenance for 3 years in nearby villages.	1. Rudrampur 2. Kothagudem 3. Periphery of the outside the lease area	1000	3000	30.0	15.0	15.0
Sub Total - A							180.00	85.0	95.0

Natural Resource Augmentation Plan with the budgetary provision

S. No	Component Remediation	Remediation Proposed	Description	Locations	Unit Rate in Rs.	Total Qty	Total Cost	Yr I	Yr II
							In Lakhs		
2a	Natural resource augmentation plan	Construction and annual maintenance of 20 nos rain water harvesting in nearby villages	Construction of RWH – 20 Nos @ 2,00,000/ per RWH (including raw material, labour, construction and maintenance for 1 year)	Penagadapa Sitampet	2,00,000	20	40.0	20.0	20.0
2b		Energy Conservation by adapting Green Energy technology	Providing 1 KW solar street lighting (including panels, inverters, wiring, structure, connectors. Junction boxes, etc.) in nearby villages @ Rs. 50,000 per unit.	Penagadapa Kothagudem Rudrampur	50,000	100	50.0	25.0	25.0
Sub-total - B							90.0	45.0	45.0

Community Resource Augmentation Plan with the budgetary provision

S. No	Component Remediation	Remediation Proposed	Description	Locations	Unit Rate in Rs.	Total Qty	Total Cost	Yr I	Yr II
							In Lakhs		
3a	Community Resource Augmentation Plan	Improving health status of people during the pandemic (Covid 19)	Providing materials related to Covid-19 prevention to the nearby villagers. (@Rs.2,00,000/village). 1. Placement of 4 Nos in each village Viral disease air & surface transmission prevention equipment for active containment of the pathogens (Including Corona	1. Penagadapa 2. Rudrampur 3. Ramavaram 4. Gouthampur 5. Chunchupalli 6. Gareebpeta 7. 3 Incline	2,00,000	10	20.0	20.0	0

S. No.	Component Remediation	Remediation Proposed	Description	Locations	Unit Rate in Rs.	Total Qty	Total Cost	Year I	Year II
			family of viruses) - Rs.25,000/unit. 2.Masks Rs.50,000(Distribution of 2000 masks@ Rs.25/mask) 3. Sanitisors- Rs.50,000 (Distribution of 1000 sanitizers @ Rs.50/sanitizer).	8. Vanamanager 9. Rampur 10. Dhanbad					
		Development of infrastructure for recreation for improving the health conditions	Development of ECO Park near by GK OC dumps by developing Lawns, Gardens, theme plantation, Cacti garden, birds watching arrangements, cycling track, walking track and adventurous sports, arrangements like trekking etc.	GK OCP	LS	1	250	125	125
Sub Total – C							270	145	125

Summary of RP&NCRAP

S. No.	Description	Estimated Cost (Rs. in lakhs)
1	Remediation Plan	180
2	Natural Resource Augmentation Plan	90
3	Community Resources Augmentation Plan	270
Total		540

- ii. Total budgetary provision with respect to Remediation plan and Natural & Community Resource Augmentation plan is Rs 540.0 lakhs. Therefore, project proponent shall be required to submit a bank guarantee of an amount of Rs. 540.0 lakhs towards Remediation plan and Natural and Community Resource Augmentation plan with the SPCB prior to the grant of EC.
- iii. Remediation plan shall be completed in 2 years whereas bank guarantee shall be for 5 years. The bank guarantee will be released after successful implementation of the remediation plan and Natural and Community Resource Augmentation Plan, and after the recommendation by regional office of the Ministry, Expert Appraisal Committee and approval of the Regulatory Authority.

II. Provisions contained under S.O. 804 (E) dated 14/03/2017

The bank guarantee will be released after successful implementation of the Remediation Plan (RP) & Natural and Community Resource Augmentation Plan (NCRAP) and after the recommendation by regional office of the Ministry, Expert Appraisal Committee and approval of the Regulatory Authority.

III. Status of implementation of RP & NCRAP along with the recommendation of Regional Office

Remediation Plan with the budgetary provision:

Head	Activities as per existing EC in RP		Status of activities undertaken by SCCL		Recommendation s of Regional Office as per the report
	Activities	Allocated Fund (Rs. In Lakhs)	Expenditure incurred (Rs. In Lakhs)	Status of compliance by SCCL/ Fund Utilized or to be utilized by SCCL)	
Air and Noise Environment	Dust Suppression - Providing wind barrier and vertical greenery outside ML area towards the direction of head CHP for a length of 500m, outside ML boundary Area.	150,00,000	146,23,227.64	The construction of a wind barrier and vertical greenery outside the ML area for 500 m in the direction of CHP has been completed.	Complied
Noise Environment And Ecology	Avenue Plantation - Plantation of total 3000 Nos native plants at Rs.1000 per sapling, including maintenance for 3 years in nearby villages (Rudrapur, Kothagudem , periphery of the outside the mine boundary).	30,00,000	30,03,103.64	Plantation of more than 3000 native species in Rudrapur, Kothagudem, and periphery of the outside the mine boundary completed. PP has planted Ficusbengalensis, Ficusreligiosa, Spathodiumcompanulatum, Millingtoniahortensis, Petlophorumpterocarpum, Delonixregia, Terminaliaarjuna, Dalbergialatifolia, Azadirachtaindica, Bauhuniablackiana, Anthocephatuscadamba etc.	Complied
TOTAL		180,00,000	176,26,331.28		

Natural & Community Resource augmentation plan along with a budget:

Head	Activities as per existing EC in RP		Status of activities undertaken by SCCL		Recommendations of Regional Office as per the report
	Activities	Allocated Fund (Rs. In Lakhs)	Expenditure incurred (Rs. In Lakhs)	Status of compliance by SCCL/ Fund Utilized or to be utilized by SCCL)	
Natural Resource augmentation plan	Construction and annual maintenance of 20 No's. Rain Water Harvesting in nearby village.	40,00,000	41,72,513.32	Construction of Rain 20 No's Water Harvesting was completed in the nearby villages.	Complied
	Energy Conservation by adapting green energy technology - Providing 1 KW Solar Street Lighting (including panels, inverters, wiring, structure, connectors, junction boxes, etc.) in nearby villages @ Rs.50,000 per unit in Penagadapa, Kothagudem, Rudrampur villages.	50,00,000	73,60,743.67	The installation of 100 units of solar lighting was completed in all the villages.	Complied
Community Resource Augmentation Plan	Improving Health Status of people during the Pandemic (Covid – 19) Providing materials related to Covid-19 prevention to the nearby 10 villagers. (@Rs.2,00,000/village) 1. Placement of 4 No's in each village Viral disease air & surface transmission prevention equipment for active containment of the pathogens (Including Corona family of viruses) - Rs.25, 000/unit. 2. Masks- Rs.50,000(Distribution of 2000 masks@ Rs.25/mask) 3. Sanitisors-Rs.50,000 (Distribution of 1000 sanitizers @ Rs.50/sanitizer).	20,00,000	20,09,124.88	40 No's of Pathogens (Viral diseases air & surface transmission prevention equipment for active containment of the pathogens (Including Corona viruses) installed. 71250 Masks were distributed in 10 villages. 28500 Sanitizers were distributed in 10 villages.	Complied

Head	Activities as per existing EC in RP		Status of activities undertaken by SCCL		Recommendations of Regional Office as per the report
	Activities	Allocated Fund (Rs. In Lakhs)	Expenditure incurred (Rs. In Lakhs)	Status of compliance by SCCL/ Fund Utilized or to be utilized by SCCL)	
	Development of infrastructure for recreation for improving the health conditions – Development of ECO park near by GK OC dumps by developing Lawns, Gardens, theme plantation, cacti garden, birds watching arrangements, cycling track, walking track and adventurous sports arrangements like trekking etc	250,00,000	347,85,162.12	ECO park development at the GK OC Dumps by developing lawns, gardens, theme plantation, bird watching tower, walking tract etc.	Complied
TOTAL		360,00,000	367,94,287		

Summary

S. No.	Description	Allotted Estimated Cost (Rs. in Lakhs)	Actual Amount spent by SCCL (Rs. in Lakhs)
1	Remediation Plan	180,00,000	176,26,331.28
2	Natural Resource Augmentation Plan	90,00,000	115,33,256.99
3	Community Resources Augmentation Plan	270,00,000	367,94,287
	TOTAL	540,00,000	659,53,875.27

IV. Amendment sought in the EC dated 20.05.2021

Conditions as per EC dated 20.05.2021	Description as per approved EC dated 20.05.2021	Details of amendment sought
Specific Condition No 4(i)	An amount of Rs. 540.0 lakhs towards Remediation plan and Natural and Community Resource Augmentation plan to be spent within a span of three years. The details of Remediation plan, Natural resource Augmentation plan and Community Resource Augmentation plan with budgetary provision	Activities envisaged under Remediation Plan (RP) and Natural and Community Resource Augmentation Plan (NCRAP) has been completed with a financial out lay of Rs. 659.53 lakhs and the same has been mentioned in Certified Compliance Report (CCR) dated 24.10.2024 of RO, MoEF&CC, Hyderabad.
Specific Condition No 4(ii)	Total budgetary provision with respect to Remediation plan and Natural & Community Resource Augmentation plan is Rs 540.0 lakhs. Therefore, project proponent shall be required to submit a bank guarantee of an amount of Rs. 540.0 lakhs towards Remediation plan and Natural and	Total budgetary provision with respect to Remediation plan and Natural & Community Resource Augmentation plan is Rs. 659.53 lakhs.

Conditions as per EC dated 20.05.2021	Description as per approved EC dated 20.05.2021	Details of amendment sought
	Community Resource Augmentation plan with the SPCB prior to the grant of EC.	
Specific Condition No 4(iii)	Remediation plan shall be completed in 2 years whereas bank guarantee shall be for 5 years. The bank guarantee will be released after successful implementation of the remediation plan and Natural and Community Resource Augmentation Plan, and after the recommendation by regional office of the Ministry, Expert Appraisal Committee and approval of the Regulatory Authority.	Bank guarantee shall be released by TSPCB as the activities envisaged under Remediation Plan (RP) and Natural and Community Resource Augmentation Plan (NCRAP) has been completed with a financial out lay of Rs. 659.53 lakhs and the same has been mentioned in Certified Compliance Report (CCR) dated 24.10.2024 of RO, MoEF&CC, Hyderabad.

20.14.5: Details of Court Cases: There are no court cases pending on the project.

20.14.6: ADS Reply: The above proposal was considered by the EAC in its meeting held on 11-12th December, 2024 and deferred for want of additional information. PP submitted the additional information sought by the EAC vide letter dated 31.12.2024. The additional information sought and the reply provided by the proponent are summarized as below:

S. No.	ADS Point	Reply																																														
1.	The rain water harvesting structures constructed by the proponent as part of NCRAP shall be modified as per the CGWA rain water harvesting manual.	The Rainwater Harvesting Structures have been suitably modified as per CGWA rainwater harvesting manual and the structures are also certified by the District Ground Water Authority. A copy of the letter of certification issued by the District Ground Water Authority is submitted.																																														
2.	Gap Plantation shall be carried out in the backfilled mine void area and vertical barrier plantation shall be completed.	Gap plantation was carried out in the backfilled mine void area and plantation was also done to form a vertical green barrier. The photographs of the gap plantation taken up in the backfilled area are submitted.																																														
3.	Geo-tagged photographs of backfilled area shall be submitted.	Geo-tagged photographs of backfilled area are submitted.																																														
4.	Details of plantation done in last 6 years for the Gauthamkhani Opencast Mine shall be submitted.	<p>Plantation has been carried out in Gauthamkhani Opencast Mine covering an area of 538.00 ha and the details are furnished hereunder:</p> <table border="1"> <thead> <tr> <th>S. No.</th> <th>Description</th> <th>Area (ha)</th> </tr> </thead> <tbody> <tr> <td>1.</td> <td>External Dump Yard</td> <td>361.34</td> </tr> <tr> <td>2.</td> <td>Internal Dump Yard</td> <td>109.50</td> </tr> <tr> <td>3.</td> <td>Infrastructure, Safety zone & other area</td> <td>67.16</td> </tr> <tr> <td colspan="2">Total</td> <td>538.00</td> </tr> </tbody> </table> <p>Details of year-wise plantation carried out from the year 2018 are furnished hereunder:</p> <table border="1"> <thead> <tr> <th>S. No.</th> <th>Year</th> <th>Plantation in ha</th> <th>Remarks</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>2018</td> <td>50</td> <td>Internal dump</td> </tr> <tr> <td>2</td> <td>2019</td> <td>-</td> <td>-</td> </tr> <tr> <td>3</td> <td>2020</td> <td>-</td> <td>-</td> </tr> <tr> <td>4</td> <td>2021</td> <td>-</td> <td>-</td> </tr> <tr> <td>5</td> <td>2022</td> <td>-</td> <td>-</td> </tr> <tr> <td>6</td> <td>2023</td> <td>6</td> <td rowspan="2">Gap Plantation</td> </tr> <tr> <td>7</td> <td>2024</td> <td>20</td> </tr> </tbody> </table>	S. No.	Description	Area (ha)	1.	External Dump Yard	361.34	2.	Internal Dump Yard	109.50	3.	Infrastructure, Safety zone & other area	67.16	Total		538.00	S. No.	Year	Plantation in ha	Remarks	1	2018	50	Internal dump	2	2019	-	-	3	2020	-	-	4	2021	-	-	5	2022	-	-	6	2023	6	Gap Plantation	7	2024	20
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3	2020	-	-																																													
4	2021	-	-																																													
5	2022	-	-																																													
6	2023	6	Gap Plantation																																													
7	2024	20																																														

S. No.	ADS Point	Reply
		<p>It is proposed to utilize the voids and backfilled area of GK OCP for dumping of OB from the proposed VK Coal Mine. Hence, plantation was not taken up during 2019, 2020, 2021 & 2022. However, after backfilling of OB in the existing mine void of GK OC, plantation will be taken up.</p> <p>MP&MCP of the proposed VK Coal mine was approved by MoC, Gol vide 38011/12/2017-PCA, dated 27.01.2020 and a cordingly ToR was also issued by MoEF&CC vide IA 23- 78/2018-IA(III) dt. 27.10.2021.</p>
5.	Stage – II Forest Clearance accorded by the proponent shall be submitted for 540.27 ha of forestland forming part of the ML area.	<p>Stage-II FC is available for the entire forest land of 540.27 Ha which was diverted in three phases as detailed hereunder:</p> <ol style="list-style-type: none"> 1. 261.31 ha diverted vide F.No. 8- 117/2002-FC dated 01.02.2010 valid up to 31.01.2030. 2. 154.96 ha diverted vide F.No.8- 62/2005-FC, dated 15.07.2008 and renewed on 30.09.2024 valid up to 31.03.2030 3. 124.00 ha diverted vide F.No. 8. 17/1998-FC, dated 08.02.1999 and renewed on 24.09.2024 valid up 31.03.2030 <p>The copies of Stage II Forest Clearances are submitted.</p>

Observations and deliberation of the Committee:

20.14.7: The EAC noted the following:

- i. MoEF&CC has initially granted EC to M/s Singareni Collieries Company Limited (SCCL), vide letter no File No.J-11015/46/ 89 - JA-11(M), dated 13.01.1993, for the capacity of 2 MTPA within an area of 1113 Ha, further issued another EC for the same capacity and area with additional specific conditions on the existing EC vide letter dated 09.05.2001 for Gauthamkhani Opencast Coal Mining Project located at Village: Penagadapa, District: BhadradriKothagudem; State: Telangana.
- ii. The Committee observed that the Ministry issued another EC to M/s Singareni Collieries Company Limited (SCCL), vide letter no File No. 23-254/2018-IA.III(V), dated 20.05.2021 for Gauthamkhani Opencast Coal Mining Project, under violation category as per MoEF&CC notification S.O. 804 (E), dated 14.03.2017.
- iii. The project involves 540.27 Ha of forestland and PP accorded Stage – I FC for the area of 261.31 Ha, 154.96 Ha and 124 Ha vide letter dated 01.02.2010, 30.09.2024 and 24.09.2024 respectively. Stage – II FC has been accorded by the proponent vide letter dated 01.02.2010, 24.09.2024 and 30.09.2024.
- iv. The project is implemented and the mine operations are closed since FY 2021-22.
- v. The instant proposal is now placed before the EAC for seeking amendment in conditions pertaining to release of bank guarantee deposited for implementation of Damage Remediation Plan (DRP) and Natural and Community Resource Augmentation Plan (NCRAP) and release of bank guarantee.
- vi. It is observed that as per the specific condition no. 4(iii), of Environment Clearance dated 20.05.2021, “Remediation plan shall be completed in 2 years whereas bank

guarantee shall be for 5 years. The bank guarantee will be released after successful implementation of the Remediation plan and Natural and Community Resource Augmentation Plan, and after the recommendation by regional office of the Ministry, EAC and approval of the Regulatory Authority.” Now the PP has submitted this proposal for release of bank guarantee deposited in this regard as the RP&NCRAP has been implemented as per the condition stipulated. The fund allocated by the Ministry and the fund actually spent by the PP in each head is different. However, the total amount spent by the PP is more than that allocated by the Ministry.

Committee observed that the amount actually spent by the proponent is Rs. 11,953,875.27/- more than that allotted by the Ministry. The Committee is of the opinion that, regular maintenance of the developments done by the proponent as part of DRP and NCRAP shall be carried out.

- vii. Committee deliberated on the geo-tagged photos submitted by the proponent of the plantation done and the backfilled area and observed it to be satisfactory. Committee opined that the proponent should make provision of water tank on the plantation done on the OB dump.

Recommendations of the Committee:

20.14.8: 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. 23-254/2018-IA.III(V), dated 20.05.2021 as detailed below:

Conditions as per EC dated 20.05.2021	Description as per approved EC dated 20.05.2021	Recommendation of EAC
Specific Condition No 4(i)	An amount of Rs. 540.0 lakhs towards Remediation plan and Natural and Community Resource Augmentation plan to be spent within a span of three years. The details of Remediation plan, Natural resource Augmentation plan and Community Resource Augmentation plan with budgetary provision	Activities envisaged under Remediation Plan (RP) and Natural and Community Resource Augmentation Plan (NCRAP) has been completed with a financial out lay of Rs. 659,53,875.27 and the same has been mentioned in Certified Compliance Report (CCR) dated 24.10.2024 of RO, MoEF&CC, Hyderabad.
Specific Condition No 4(ii)	Total budgetary provision with respect to Remediation plan and Natural & Community Resource Augmentation plan is Rs 540.0 lakhs. Therefore, project proponent shall be required to submit a bank guarantee of an amount of Rs. 540.0 lakhs towards Remediation plan and Natural and Community Resource Augmentation plan with the SPCB prior to the grant of EC.	Total budgetary provision with respect to Remediation plan and Natural & Community Resource Augmentation plan is Rs. 659,53,875.27. Therefore, project proponent shall be required to submit a bank guarantee of an amount of Rs 540,00,000/- towards Remediation plan and Natural and Community Resource Augmentation plan with the SPCB. The same has been submitted by Member Secretary, TSPCB vide its letter no. 8/TSPCB/EC/BG/2020-1012 dated 24.03.2021
Specific Condition No 4(iii)	Remediation plan shall be completed in 2 years whereas bank guarantee shall be for 5 years. The bank guarantee will be released after successful implementation of the remediation plan and Natural and Community Resource Augmentation Plan, and after the recommendation by	Bank guarantee shall be released by TSPCB as the activities envisaged under Remediation Plan (RP) and Natural and Community Resource Augmentation Plan (NCRAP) has been completed with a financial out lay of Rs. 659,53,875.27/- and the same has been mentioned in Certified Compliance Report

Conditions as per EC dated 20.05.2021	Description as per approved EC dated 20.05.2021	Recommendation of EAC
	regional office of the Ministry, Expert Appraisal Committee and approval of the Regulatory Authority.	(CCR) dated 24.10.2024 of RO, MoEF&CC, Hyderabad.

Agenda No. 20.15

20.15: Jawahar Khani-5 Opencast Expansion Project (area 490.14 Ha having capacity 3.5 MTPA) by M/s Singareni Collieries Company Limited, located at Usirikayalapalli & Yellandu; District: Khammam & Bhadradi Kothagudem; State: Telangana – Amendment in EC w.r.t. implementation of RP&NCRAP and release of Bank Guarantee – regarding.

[Online Proposal No. IA/TG/CMIN/506009/2024; Consultant: Environment Protection & Training Research Institute – NABET/EIA/24-27/RA0337 valid up to 21.01.2027]

20.15.1: The instant proposal is for amendment in Environment Clearance granted to M/s Singareni Collieries Company Limited (SCCL) accorded vide letter no 23-257/2018-IA.III, dated 09.06.2022 for Jawahar Khani-5 Opencast Expansion Project (area 490.14 Ha having capacity 3.5 MTPA) by M/s Singareni Collieries Company Limited, located at Usirikayalapalli & Yellandu; District: Khammam & Bhadradi Kothagudem; State: Telangana.

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

S. No.	Details of Letter No.	EC/Expansion EC/Amendment in EC/Validity/extension/ Transfer of EC	Capacity (MTPA)	Area (Ha)	Date of issuance	Status of implementation
1	Jawahar Khani- 5 Opencast Coal Mine Project-J-11015/358/2006-IA.II(M).	EC (Initial)	2.00	514.95	18.05.2009	Implemented
2	Expansion of Jawahar Khani- 5 Opencast Coal Mine Project-J-11015/31/2013-IA.II(M).	Expansion	2.50	514.95	03.03.2016	Implemented
3	Expansion of Jawahar Khani- 5 Opencast Coal Mine Project- F.No. 23-257/2018-IA (III)	Expansion (under violation category)	3.50	490.14	09.06.2022	Being implemented

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

20.15.3: W.r.t the previous approvals, the actual production detail of the concerned mine and submitted that the mine became operational from 2012-13 onwards. CTO renewal has been obtained from the SPCB and is valid up to 30.04.2025. Details of the same are as follows:

S. No	Year	As per EC	Actual Production	Excess production beyond the EC sanctioned capacity
1	2012-13	2.00	1.47	Nil
2	2013-14	2.00	2.00	Nil
3	2014-15	2.00	1.39	Nil
4	2015-16	2.50	2.51	0.01
5	2016-17	2.50	2.69	0.19
6	2017-18	2.50	2.96	0.46
7	2018-19	2.50	3.30	0.80
8	2019-20	2.50	3.35	0.85
9	2020-21	2.50	2.50	Nil
10	2021-22	2.50	2.49	Nil
11	2022-23	3.50	1.88	Nil
12	2023-24	3.50	1.37	Nil
13	2024-25 (Up to 31.12.2024)	3.50	0.636	Nil

20.15.4: Certified Compliance Report and Action Taken Report thereon: The Regional Office, Hyderabad vide letter no. 1-26/2023/IRO-HYD, dated 24.09.2024, issued a monitoring report on the status of compliance of conditions stipulated in the EC letter dated 03.03.2016 and 09.06.2022, granted by MoEF&CC. As per the said report there are no non-compliance/partial compliance observed by the RO. In the said report, Regional Office also reported the compliance status to the activities related to the Remediation plan, Natural resource Augmentation plan and Community Resource Augmentation plan.

20.15.5: Details regarding amendment sought in the EC dated 09.06.2022:

I. Brief of EC dated 09.06.2022

MoEF&CC has accorded EC for expansion of project from 2.50 MTPA to 3.50 MTPA under violation category vide EC Identification No.EC22A042TG126745 and F.No. 23-257/2018-IA (III), dated 09th June, 2022, under the violation category as per the provisions contained under S.O. 804(E), dated 14.03.2017. As per the EC accorded, the proponent has to comply with the following conditions with respect to Remediation Plan (RP) & Natural and Community Resource Augmentation Plan (NCRAP).

- i. EAC recommended for an amount of Rs 464.5 lakhs towards Remediation plan and Natural and Community Resource Augmentation plan to be spent within a span of three years. The

details of Remediation plan, Natural resource Augmentation plan and Community Resource Augmentation plan with budgetary provision are mention below:

Remediation Plan with budgetary provisions:

S. No.	Component Remediation	Remediation Proposed	Description	Unit Rate (Rs. Lakhs)	Locations	Total Cost	Year - I	Year - II
1a	Air & Noise Environment	Dust Suppression	Construction of the CC roads for a length of 1 km.	Rs. 12.51 lakhs per 0.25 km	1.Vijayalaxmi Nagar 2.Subash Nagar 3. Strut Pit Basthi 4. Bhagyanagar thanda.	50.0	50.0	--
1b	Noise Environment and Ecology	Avenue Plantation	Plantation of total 128 Nos. of native plants at Rs. 1000 per sapling, including maintenance for 3 years in nearby village and periphery of the project	Rs. 1000/ one plan	JK Colony	12.8	7.8	5.0
1c	Water Environment	Rain water harvesting structure	Construction of RWH (including raw material, labour, construction and maintenance for one year)	Rs. 2.5 Lakhs per one unit – total 4 units	1.Rompedu 2.Bojjaigudem 3.Motlagudem 4.Karepalli	10.0	5.0	5.0
		Supply of potable water in surrounding villages	RO plants in nearby villages 250 liter/ hour capacity with installation of 10 year maintenance and shed	Rs. 7.5 lakhs per unit – Total 5 units	1.Rompedu 2. JK R&R Colony 3. Usirikaypalli 4. Bhagyanager thanda 5. Rajanagar	37.5	22.5	15.0
Sub-Total – A (1a+1b+1c)						110.3	85.3	25.0

Natural Resource Augmentation Plan with the budgetary provision:

S. No.	Component Remediation	Description	Unit Rate Rs. Lakhs	Locations	Total Cost	Year-I	Year-II
2a	Natural Resources Augmentation Plan	30W pole mounted solar LED lights (complete set) in nearby villages @Rs.28000 per unit with 3 years maintenance.	Rs. 0.28 lakhs per unit – Total 196 units.	1. Usirikayapalli 2. Bhagyanagar thanda 3. Sitarampur 4. Tekulgudem 5. Rompedu 6. Nizampet 7. Vijayalaxmi Nagar 8. 21 Pit Area 9. 23 rd Ward 10. Strut pit Basthi	55.0	28.0	27.0
2b		Construction of check dams (Materials, manpower, construction).	Rs. 5.00 lakhs per unit – Total 9 units.	1. Usirikayapalli-2 2. Sitarampur-2 3. Karepalli-2 4. Tekulagudem-3	45.0	25.0	20.0
Sub-Total-B (2a+2b)					100.0	53.0	47.0

Community Resource Augmentation Plan with the budgetary provision:

Sl. No.	Proposed Activity	Description	Unit Rate Rs. Lakhs	Locations	Total Cost	Year-I	Year-II
3a	Development of Infrastructure	Construction of Community halls	Rs. 24.00 lakhs per unit – Total 2 units	1. Rompedu 2. Karepalli	48.0	24.0	24.0
3b		Godown for storage of the agriculture products in the nearby villages	Rs. 15.00 lakhs per unit – Total 3 units	1. Usirikayapalli 2. Sitarampur 3. Rompedu	45.0	30.0	15.0
3c		Development of Parks	Rs. 10.00 lakhs per unit – Total 3 units	1. JK Colony 2. JK5 OC R&R colony vacated area. (16 th Ward) 3. Struti Pit Basthi	30.0	15.0	15.0
Sub-Total - C (3a+3b+3c)					123.0	69.0	54.0
Grand Total (A+B + C) (107.8+100+123)					333.3	207.3	126.0

1% contribution to capital cost against community welfare activities:

Sl. No.	Description of Activities	Location	Rate (Rs. In Lakhs)	Total Cost	Year-I	Year-II
					Rs. in Lakhs	
1	Laying of CC Roads	1. Usirikayalapally 2. Polampally 3. 20 th Ward of YLD 4. CSP Basthi 5. 16 th Ward of YLD	50 lakhs per 1 km	50.0	30.0	20.0
2	School Building & Community hall	1. Tilak Nagar 2. CSP Basthi	25 lakhs per unit	50.0	25.0	25.0
3	Park & Open Gym	3. 16 th Ward of YLD	Rs. 15.6 lakhs per each unit	31.2	15.6	15.6
Total				131.2	70.6	60.6

Summary:

S. No.	Description	Revised Estimated cost (Rs. in Lakhs)
1	Remediation Plan	110.3
2	Natural Resources Augmentation Plan	100.0
3	Community Resources Augmentation Plan	123.0
4	1% contribution on PH	131.2
Total		464.5 Lakhs

- ii. PP to implement the works under aforesaid total budgetary provision with respect to Remediation plan and Natural & Community Resource Augmentation plan for an amount of Rs. 464.5 lakhs for which bank guarantee has been submitted to SPCB.
- iii. Remediation plan shall be completed within one year from date of issue of EC only. The bank guarantee will be released after successful implementation of the remediation plan and Natural and Community Resource Augmentation Plan, and after the recommendation by regional office of the Ministry. Expert Appraisal Committee and approval of the Regulatory Authority.

II. Provisions contained under S.O. 804 (E) dated 14/03/2017

The bank guarantee will be released after successful implementation of the Remediation Plan (RP) & Natural and Community Resource Augmentation Plan (NCRAP) and after the recommendation by regional office of the Ministry, Expert Appraisal Committee and approval of the Regulatory Authority.

III. Status of implementation of RP, NCRAP and Community Welfare Activities along with the recommendation of Regional Office

Remediation Plan with the budgetary provision:

Head	Activities as per existing EC in RP		Status of activities undertaken by SCCL		Recommendations of Regional Office as per the report
	Activities	Allocated Fund (Rs. In Lakhs)	Expenditure incurred (Rs. In Lakhs)	Status of compliance by SCCL/ Fund Utilized or to be utilized by SCCL)	
Air & Noise Environment	Dust Suppression Construction of the CC roads for a length of 1 km.	50,00,000.00	53,46,919.00	Laying of CC Roads for a length of 1km in nearby villages.	Complied. PP has completed the construction of the 1 km road and also spent the allotted amount of more than Rs. 50.00 lakhs.
Noise Environment and Ecology	Avenue Plantation Plantation of total 128 Nos. of native plants at Rs. 1000 per sapling, including maintenance for 3 years in nearby village and periphery of the project	12,80,000.00	13,24,809.00	Avenue plantation of total 1280 Nos. of native plants in nearby village and periphery of the project.	Complied. PP has completed the plantation of 1280 samplings and also spent the allotted amount of more than Rs. 12.8 lakhs.
Water Environment	Rain water harvesting structure Construction of RWH (including raw material, labour, construction and maintenance for one year)	10,00,000	8,67,977.00	Construction of 4 no.s of RWHS in nearby villages.	Partially Complied. PP has completed the construction of the 4 RWH structures and only Rs. 8.68 lakhs.
	Supply of potable water in surrounding villages RO plants in nearby villages 250 litre/ hour capacity with installation of 10 year maintenance and shed	37,50,000	35,59,472.00	Provision of 5 no.s of RO plants in nearby villages.	Partially Complied. PP has completed the construction of the 5 RO plants and only Rs. 35.6 lakhs.
		1,10,30,000.00	1,10,99,177.00		

Natural & Community Resource augmentation plan along with a budget:

Head	Activities as per existing EC in RP		Status of activities undertaken by SCCL		Recommendations of Regional Office as per the report
	Activities	Allocated Fund (Rs. In Lakhs)	Expenditure incurred (Rs. In Lakhs)	Status of compliance by SCCL/ Fund Utilized or to be utilized by SCCL)	
Natural Resource Augmentation Plan	Energy conservation by adapting green energy technology Providing 196 No's of 30W pole mounted solar LED Lights Street Lighting in nearby villages	55,00,000.00	55,00,000.00	Providing 196 No's of 30W pole mounted solar LED Lights Street Lighting in nearby villages	Complied. PP has completed the mounting of 227 with 30w solar LED lights in 10 villages and has also spent the allotted amount of more than Rs. 55 lakhs.
	Construction of Check dams Construction of 9 check dams in nearby village	45,00,000.00	45,05,718.00	Construction of 9 check dams in nearby village	Complied. PP has completed the construction of 9 check dams and has also spent more than Rs. 45.05 lakhs of the allotted amount.
Total (NRAP)		1,00,00,000.00	1,00,05,718.00		
Community Resource Augmentation Plan with the budgetary provision	Construction of community halls in nearby villages	48,00,000.00	48,29,480.00	Construction of community halls in nearby villages	Partially Complied. PP has completed the construction of two community halls and spent only 40.52 lakhs. It has also spent Rs. 7.7 lakhs on the construction of septic tanks and overhead tanks at Tilaknager, CSP Basthi, and Karepalli villages.
	Godowns for storage of agriculture products in the nearby villages	45,00,000.00	46,43,298.00	Godowns for storage of agriculture products in the nearby villages	Partially Complied. PP has completed the construction of three godowns; however, it has spent only Rs. 33.56 lakhs and Rs. 7.54 and Rs. 5.32 on school toilets, a dress room, and a CC pathway to the community hall at Karepalli village.

Head	Activities as per existing EC in RP		Status of activities undertaken by SCCL		Recommendations of Regional Office as per the report
	Activities	Allocated Fund (Rs. In Lakhs)	Expenditure incurred (Rs. In Lakhs)	Status of compliance by SCCL/ Fund Utilized or to be utilized by SCCL)	
	Development of parks	30,00,000.00	28,74,370.00	Development of parks	Partially Complied. PP has completed the development of three parks but has spent only 28.74 lakhs, which is less than the allotted amount.
	Total (CRAP)	1,23,00,000.00	1,23,47,148.00		
	Total (NCRAP)	22,300,000.00	22,352,866.00		

1% contribution to capital cost against community welfare activities:

Head	Activities as per existing EC in RP		Status of activities undertaken by SCCL		Recommendations of Regional Office as per the report
	Activities	Allocated Fund (Rs. In Lakhs)	Expenditure incurred (Rs. In Lakhs)	Status of compliance by SCCL/ Fund Utilized or to be utilized by SCCL)	
Community Welfare Activites	Laying of CC Roads for a length of 1km in nearby villages.	50,00,000.00	43,81,268.00	Laying of CC Roads for a length of 1km in nearby villages.	Partially Complied. PP has completed the CC roads in all villages but has spent only 43.8 lakhs, less than the allotted amount.
	Construction of school building & community hall in nearby villages	50,00,000.00	60,32,563.00	Construction of school building & community hall in nearby villages	Complied. PP has completed the construction of schools at two villages and has spent Rs. 60.32 lakhs, more than the allotted amount.
	Development of Park & Gym	31,20,000.00	32,19,658.00	Development of Park & Gym	Complied. PP has completed the park's development in the 16th ward and has spent Rs. 32.19 lakhs, more than the allotted amount.
	Total	1,31,20,000.00	1,36,33,489.00		

IV. Amendment sought in the EC dated 09.06.2022:

Conditions as per EC dated 09.06.2022	Description as per approved EC dated 09.06.2022	Details of amendment sought
Specific Condition No 4(i)	EAC recommended for an amount of Rs 464.5 lakhs towards Remediation plan and Natural and Community Resource Augmentation plan to be spent within a span of three years.	Activities envisaged under Remediation Plan (RP) and Natural and Community Resource Augmentation Plan (NCRAP) has been completed with a financial out lay of Rs. 470.85 lakhs and the same has been mentioned in Certified Compliance Report (CCR) dated 27.11.2024 of RO, MoEF&CC, Hyderabad.
Specific Condition No 4(ii)	PP to implement the works under aforesaid total budgetary provision with respect to Remediation plan and Natural & Community Resource Augmentation plan for an amount of Rs. 464.5 lakhs for which bank guarantee has been submitted to SPCB.	Total budgetary provision with respect to Remediation plan and Natural & Community Resource Augmentation plan is Rs. 470.85 lakhs.
Specific Condition No 4(iii)	Remediation plan shall be completed within one year from date of issue of EC only. The bank guarantee will be released after successful implementation of the remediation plan and Natural and Community Resource Augmentation Plan, and after the recommendation by regional office of the Ministry, Expert Appraisal Committee and approval of the Regulatory Authority.	Bank guarantee shall be released by TSPCB as the activities envisaged under Remediation Plan (RP) and Natural and Community Resource Augmentation Plan (NCRAP) has been completed with a financial out lay of Rs. 470.85 lakhs and the same has been mentioned in Certified Compliance Report (CCR) dated 27.11.2024 of RO, MoEF&CC, Hyderabad.

20.15.6: Details of Court Cases: There are no court cases pending on the project.

Observations and deliberation of the Committee:

20.15.7: The EAC noted the following:

- i. MoEF&CC has initially granted EC to M/s Singareni Collieries Company Limited (SCCL), vide letter no J-11015/358/2006-IA.II(M), dated 18.05.2009, for a capacity of 2 MTPA within an area of 514.95 ha. It further issued another EC for expansion vide letter dated 03.03.2016 for 2.50 MTPA.
- ii. The Committee observed that the Ministry issued another EC to M/s Singareni Collieries Company Limited (SCCL), vide letter no File No. 23-257/2018-IA (III), dated 09.06.2022 for said project, under violation category as per MoEF&CC notification S.O. 804 (E), dated 14.03.2017. The said EC was granted for 3.50 MTPA on reduced land area of 490.14 ha.
- iii. The project does not involve any forestland.
- iv. The project is being implemented and the mine is under operation.
- v. The instant proposal is now placed before the EAC for seeking amendment in conditions pertaining to release of bank guarantee deposited for implementation of Damage Remediation Plan (DRP) and Natural and Community Resource Augmentation Plan (NCRAP) and release of bank guarantee.
- vi. It is observed that as per the specific condition no. 4(iii), of Environment Clearance dated 09.06.2022, “Remediation plan shall be completed within one year from date

of issue of EC only. The bank guarantee will be released after successful implementation of the remediation plan and Natural and Community Resource Augmentation Plan, and after the recommendation by regional office of the Ministry, Expert Appraisal Committee and approval of the Regulatory Authority.”

Now the PP has submitted this proposal for release of bank guarantee deposited in this regard as the RP&NCRAP has been implemented as per the condition stipulated. The fund allocated by the Ministry and the fund actually spent by the PP in each head is different. However, the total amount spent by the PP is more than that allocated by the Ministry.

- vii. Committee observed that the amount actually spent by the proponent is Rs. 6,35,532/- more than that allotted by the Ministry.
- viii. Committee deliberated on the Certified Compliance Report submitted by the proponent and observed that there are certain conditions of Remediation Plan, Community Resource Augmentation Plan and Community Welfare Activities are partially complied. These conditions are quoted as partially complied because of expenditure incurred on these activities is less than that allotted by the Ministry. However, the PP has complied with these conditions with less expenditure.
- ix. Committee deliberated on the reasons for difference in expenditure. PP submitted that, while proposing the RP & NCRAP activities in respect of Jawahar Khani-5 Opencast Expansion Project, the estimate and timeline of the activities proposed were based on general cost estimate, however during execution of the said activities, site specific estimates based on the Schedule of Rates were prepared. Accordingly, the tender of the said activities were floated, as per the procurement manual of Govt. of India. Accordingly, after the scrutiny of bids received, the works were awarded to the prospective bidder for execution of the work. As is the general practice with any tender, the final price of the activities ends up on the higher/ lower side compare to the estimated cost, based on the bidder’s reasoning of the cost associated with any activities, timeline of the work and other conditions of the site and locality where the work has to be executed.

Recommendations of the Committee:

20.15.8: In view of the foregoing and after the detailed deliberations, the Committee **recommended** the instant proposal for grant of amendment in the EC granted vide letter no. F.No. 23-257/2018-IA (III), dated 09.06.2022 as detailed below:

Conditions as per EC dated 09.06.2022	Description as per approved EC dated 09.06.2022	Recommendation of EAC
Specific Condition No 4(i)	EAC recommended for an amount of Rs 464.5 lakhs towards Remediation plan and Natural and Community Resource Augmentation plan to be spent within a span of three years.	Activities envisaged under Remediation Plan (RP) and Natural and Community Resource Augmentation Plan (NCRAP) has been completed with a financial out lay of Rs. 4,70,85,532/- and the same has been mentioned in Certified Compliance Report (CCR) dated 27.11.2024 of RO, MoEF&CC, Hyderabad.
Specific Condition No 4(ii)	PP to implement the works under aforesaid total budgetary provision with respect to Remediation plan and Natural & Community Resource Augmentation plan for an amount of Rs. 464.5 lakhs for	Total budgetary provision with respect to Remediation plan and Natural & Community Resource Augmentation plan is Rs. 4,70,85,532/-. Therefore, project proponent shall be required to submit a bank guarantee of an

Conditions as per EC dated 09.06.2022	Description as per approved EC dated 09.06.2022	Recommendation of EAC
	which bank guarantee has been submitted to SPCB.	amount of Rs 4,64,50,000/- towards Remediation plan and Natural and Community Resource Augmentation plan with the SPCB. The same has been submitted by Member Secretary, TSPCB vide its letter no. 8/TSPCB/EC/BG/2020-05 dated 28.04.2022.
Specific Condition No 4(iii)	Remediation plan shall be completed within one year from date of issue of EC only. The bank guarantee will be released after successful implementation of the remediation plan and Natural and Community Resource Augmentation Plan, and after the recommendation by regional office of the Ministry, Expert Appraisal Committee and approval of the Regulatory Authority.	Bank guarantee shall be released by TSPCB as the activities envisaged under Remediation Plan (RP) and Natural and Community Resource Augmentation Plan (NCRAP) has been completed with a financial out lay of Rs. 4,70,85,532/- and the same has been mentioned in Certified Compliance Report (CCR) dated 27.11.2024 of RO, MoEF&CC, Hyderabad.

DAY- 4: 23RD JANUARY 2025 [THURSDAY]

20.16: Cluster – III Coal Mining Project (area 1420.61 Ha having capacity 3.6 MTPA) by M/s Bharat Coking Coal Limited, located in Jharia Coal fields, District: Dhanbad; State: Jharkhand – Amendment in EC dated 6/2/2013 by amalgamating seven mines in to single mine to enable mining with OC cum UG with Highwall Mining Method without no change in lease area and production capacity – reg.

[Online Proposal No. IA/JH/CMIN/513800/2024; Consultant: CMPDIL; NABET/EIA/22-25/SA0223 valid till 08/04/2025]

20.16.1: The instant proposal is for amendment in EC granted vide Letter no. J-11015/213/2010-IA.II (M) Dated 06.02.2013, for Cluster – III Coal Mining Project (area 1420.61 ha having capacity 3.6 MTPA), located at District: Dhanbad; State: Jharkhand for amalgamating seven mines in to single mine to enable mining with OC cum UG with Highwall Mining Method without no change in lease area and production capacity.

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

20.16.2: Details of prior EC for which amendment is sought:

A. Status of ECs obtained for Cluster III and its present status

S. No	Details of letter No	EC/Amendment EC/Validity Extension /Transfer EC	Capacity (MTPA) & Life of the mine	Area (Ha)	Date of Issuance	Status of implementation
Cluster III – Public hearing held on 22/01/2012						

S. No	Details of letter No	EC/Amendment EC/Validity Extension /Transfer EC	Capacity (MTPA) & Life of the mine	Area (Ha)	Date of Issuance	Status of implementation
1.	<p>J-11015/213/2010-IA. II (M) EC in the name of Cluster III (7 mines of peak production of 3.6 MTPA in a combined ML area of 1420.61 ha) of M/s Bharat Coking Coal Ltd. Located in Jharia coalfields</p> <ol style="list-style-type: none"> 1. Jogidih Colliery 2. Maheshpur Colliery 3. South Govindpur (Closed for production) 4. Teturiya (Closed for production) 5. Govindpur Colliery 6. New Akashkinaree Mine 7. Block IV/Koordih Mixed Mine 	Amendment	3.6 MTPA 30 years (UG) and 11 years (OC)	1420.61	06.02.2013	Implemented (CTO obtained under Air and water act for 3.6 MTPA capacity vide Ref no. JSPCB/HO/RNC/CTO-13958407/2022/1632 dated 23.11.2022 valid up to 30.06.2025)

B. Details of the mines under the Cluster III EC dated 06/02/2013:

S.No.	Name of the Mine	Type of Mine	Proposed Production Capacity (MTY)		Lease Area (Ha)	Mine Life (Years)	Status of implementation	Name of the Mine
		UG/OC	Normative	Peak				
1	Jogidih Colliery	UG	0.2440	0.3170	167	30	Operational	CLUSTER – III
2	Maheshpur Colliery	UG	0.0700	0.0910	292.68	30	Operational	

S.No.	Name of the Mine	Type of Mine	Proposed Production Capacity (MTY)		Lease Area (Ha)	Mine Life (Years)	Status of implementation	Name of the Mine
		UG/OC	Normative	Peak				
3	South Govindpur Colliery	UG	Nil	Nil	182	-	Closed for Production	
4	Teturiya Colliery	UG	Nil	Nil	123	-	Closed for Production	
5	Govindpur Colliery	UG	0.1400	0.1820	159.55	30	Suspended for production	
6	Block-IV/Kooridih Mixed Mine	OC	1.1000	1.4300	149	11	Operational	
		UG	0.0800	0.1040		30	Operational	
7	New Akashkinaree Mixed mine	OC	1.0000	1.3000	347.38	11	Operational	
		UG	0.1350	0.1760		30	Suspended for Production	
TOTAL			2.769	3.600	1420.61			TOTAL

C. Status of compliance to the existing EC conditions

The Status of compliance of earlier EC of **Cluster III** was obtained from Regional Office, vide Letter No. 103-397/13/EPE/659 dated 18.10.2024 in the name of Cluster III of M/s Bharat Coking Coal Limited. The Action taken report regarding the partially/non-complied condition was submitted to Regional officer MoEF&CC by General Manager, Cluster III, Govindpur Area dated 18.11.2024.

Cluster III- EC dated 06.02.2013			
S. No	Non-compliance/ Partially compliance details	Observation of RO	Action Taken Report on Partially complied/ Non – complied condition
1.	Specific condition no. i: The maximum production from the two opencast sections in the cluster shall not exceed beyond that for which environmental clearance has been granted	No copy of the past five years production details signed by the Competent Authority made available for examination or copy same has been received in this office. Therefore, the proponent has been instructed to submit the certified past years production details to this office (Not	Details of past 5 years coal production duly signed by DMO (District Mining Officer), Dhanbad has been submitted.

Cluster III- EC dated 06.02.2013			
S. No	Non-compliance/ Partially compliance details	Observation of RO	Action Taken Report on Partially complied/ Non – complied condition
		Complied).	
2.	Specific condition no. xx: 3756 nos. of PAF's should be rehabilitated at cost of Rs 27012.66 Lakhs as per the approved Jharia Action Plan.	The proponent informed that the rehabilitation has not been initiated yet. Therefore, the proponent has been instructed to submit action taken report, timeline, etc., to this Office (Not Complied).	There appears to be some misinformation regarding the status of rehabilitation. To clarify, the rehabilitation of Project-Affected Families (PAFs) is an ongoing process jointly conducted by BCCL and the Jharia Rehabilitation Development Authority (JRDA). The initiative has already begun, and 200 families have been relocated to date. Photographs of the R&R colony at Kulmurna and timeline for further relocations have been submitted.
3.	Specific condition no. xxxvii: The void shall be converted into a water reservoir of a maximum depth of 15-20 m and shall be gently sloped and the upper benches of the reservoir shall be stabilized with plantation and the periphery of the reservoir fenced. The abandoned pits and voids should be backfilled with OB and reclaimed with plantation and or may be used for pisciculture.	The proponent informed that the imposed condition shall be complied as the part of the post mining compliance. Continuous process of the backfilling and converting the part of the void into the water body shall be continuous process. Therefore, the proponent has been instructed to submit action with timeline, etc., to this Office (Not Complied).	The action plan is part of progressive mine closure activities which are being done as per approved mine closure plan. Copy of approved mine closure plans have been submitted.
4.	Generic condition no. 8: The Environmental Clearance is subject to the outcome of the Writ Petition filed by M/S Bharat Coking Coal Limited (BCCL) in response to the closure orders issued by the Jharkhand State Pollution Control Board which is pending in the Jharkhand High Court.	No details of the mentioned Writ Petition in the Hon'ble High Court of have been received. Therefore, the proponent has been instructed to submit the present status of Writ Petition to this Office (Not Complied).	The WPC 4944/2011 was filed and the last judgement from Hon'ble High Court, was for maintaining the status quo of stay granted to BCCL against closure orders issued by JSPCB. The orders issued in this regard along with status as shown on website of High Court Ranchi has been submitted.
5.	Specific condition no. ii: The measure to identify in the Environmental Plan for Cluster- III groups of mine and the conditions given in this environmental clearance letter shall be dovetailed to the implementation of the	No copies of Environmental Plan for Cluster-III and Jharia Action Plan have been made available for examination or copies of these plans have been received in this Office. Therefore, the proponent has been instructed to submit copies of the mentioned plans and status of	Environmental plan and Jharia Action plan along with status of implementation has been submitted.

Cluster III- EC dated 06.02.2013			
S. No	Non-compliance/ Partially compliance details	Observation of RO	Action Taken Report on Partially complied/ Non – complied condition
	Jharia Action Plan.	implementation to this Office (Partially Complied)	
6	Specific condition no. xv: Thick green belt shall be developed along undisturbed areas, mine boundary and in mine reclamation. A total area of 854.72 ha shall be reclaimed and afforested.	Incomplete details of year-wise plantation carried have been received in this Office. Therefore, the proponent is instructed to prepare time bound comprehensive plantation plan with native species for protection of the ecology of the surrounding area and post-mining ecological restoration plan. The proponent should submit the detailed plan in tabular format (year wise for life of mine) for afforestation and green belt development in and around the mining lease. The proponent should submit the number of saplings to be planted, area to be covered under afforestation and green belt, location of plantation, target for survival rate and budget embarked for the afforestation and green belt development. In addition to this, the proponent should show on 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 as 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 seedlings of height not less than 2 meters to be selected. In addition to this, plantation in the safety zone at lease boundary the plantation should be planned in such as way that it should be completed within 2 years only (Partially Complied) .	Details of Year wise Plantation carried out and proposed to be undertaken in the upcoming five years along with the proposed expenditure to be incurred has been submitted.
7	Specific condition no. xvii: Specific Mitigative measures identified for the Jharia Coalfields in the Environmental Action Plan prepared for Dhanbad as a critically polluted area and relevant for Cluster III shall	The proponent informed that Dhanbad Action Plan has been prepared in consultation with Jharkhand Pollution Control Board for entire BCCL and not cluster wise. The proponent has not shown for inspection of constructed pucca road/WBM road for coal	The Dhanbad Action Plan, approved by JSPCB, is attached for your reference. Geotagged photographs of the PQC Road, Water Reservoir, and the Online PM10 Analyzer have been submitted.

Cluster III- EC dated 06.02.2013			
S. No	Non-compliance/ Partially compliance details	Observation of RO	Action Taken Report on Partially complied/ Non – complied condition
	be implemented.	transportation passing through public transportation routes; constructed PQC road within mine premises; constructed water reservoir for mine water utilization; and installed 5 nos. PM10 online analyzers at mines for ambient air monitoring. Therefore, the proponent has been instructed to clarify for why were the mentioned status of compliances have not been shown for inspection and status of its implementation with photographs to this Office (Partially Complied).	During the inspection, a specific report highlighting the PQC road under construction was submitted. Given the scope of the visit, which included both underground (UG) and open-cast (OC) sections of the Cluster, priority was placed on the inspection of these areas.
8	Specific condition no. xviii: The locations of monitoring stations in the Jharia Coalfields should be finalised in consultation with the Jharkhand State Pollution Control Board. The Committee stated that smoke/dust emission vary from source to source (fuel wood, coal, flyash from TPPs, silica from natural dust, etc) and a Source Apportionment Study should be got carried out for the entire Jharia Coalfields. Mineralogical composition study should be undertaken on the composition of the suspended particulate matter (PM10 and PM2.5) in Jharia Coalfields and also quantified. These studies would help ascertain source and extent of the air pollution, based on which appropriate mitigative measures could be taken.	Poll mineralogical composition study report 2023 has been received in this Office. The proponent informed that locations of monitoring stations have been finalized in consultation with Jharkhand State Pollution Control Board. However, these locations have not been shown during inspection. Furthermore, no monitoring stations have been observed during inspection except one monitoring station on the building of GM's Office. Therefore, the proponent has been instructed to establish AAQM stations as per the guidelines and submit action taken report to this Office. (Partially Complied)	CMPDIL (a NABL Accredited Lab) carries out AAQM at locations fixed by JSPCB. The Monitoring frequency is fortnightly as per GSR 742(E). During the visit undertaken on 04.09.2024 the scheduled monitoring by CMPDIL had been taken on 04.09.2024 (at Buffer zone: Muraidih Project Office), 05.09.2024 (at Buffer zone: Kharkharee), 06.09.2024 (at Buffer zone: Ramkanali office, Core zone: Block-IV). The Geotagged photographs of the CMPDIL AAQ Monitoring locations, monitoring report issued by CMPDIL, and continuous Online PM10 Monitors installed at 5 locations have been submitted.
9	Specific condition no. xix: The Plan for conveyor-cum-rail for Cluster-III should be dovetailed with Jharia Action Plan. The Committee desired that road transportation of coal during Phase-I should be by mechanically covered trucks, which should be introduced at the earliest. Coal dispatch shall be	The proponent informed that transportation of coal has been by tarpaulin covered vehicles. Construction of Rapid Loading System at Maheshpur has been completed and shall be operational after railway connectivity. Construction of railway siding for evacuation of coal through RLS (SILO) under process and same shall be completed by 31/12/2024.	Construction of Rapid Loading System with Silo arrangement (RLS) has been completed. The railway track for the new railway siding, intended for coal evacuation through the RLS (SILO), is currently under construction by M/s RITES. This work requires connecting to an operational railway line,

Cluster III- EC dated 06.02.2013			
S. No	Non-compliance/ Partially compliance details	Observation of RO	Action Taken Report on Partially complied/ Non – complied condition
	diverted from the present rail sidings to Rapid Loading System (RLS) soon after the construction and commissioning of the RLS at Maheshpur is completed. The railway siding order issued and same would come in 3 years. The details of same should be provided to ministry. The mode of transportation of coal by truck till Railway Siding should be by mechanically covered trucks	Therefore, the proponent has been instructed to complete construction of railway siding and rapid loading system on priority and submit details to this Office (Partially Complied) .	involving coordination with multiple stakeholders such as the Railways and local landowners. Despite being a top priority, unforeseen issues have necessitated modifications to the rail track arrangement before final linking can be completed. The matter is under close review by the Coal Secretary, and efforts to expedite implementation are underway. (MoM in this regard and current status of railway siding construction has been submitted) The scheduled completion date for the railway siding by M/s RITES is March 31, 2025.
10	Specific condition no. xxi: Regular monitoring of groundwater level and quality of the study area shall be carried out by establishing a network of existing wells and construction of new peizometers. The monitoring for quantity shall be done four times a year in pre-monsoon (May), monsoon (August), post-monsoon (November) and winter (January) seasons and for quality including Arsenic and Fluoride during the month of May. Data thus collected shall be submitted to the Ministry of Environment & Forest and to the Central Pollution Control Board/SPCB quarterly within one month of monitoring. Rainwater harvesting measures shall be undertaken in case monitoring of water table indicates a declining trend.	The proponent informed that the ground water monitored report carried out by third party (CMPDI) and the values recorded therein found within the permitted values. Further, the proponent has shown only one piezometer for inspection. Rainwater harvesting structures have been constructed at CISF campus New Akashkinaree Colliery. Therefore, the proponent has been instructed to establish a network of existing wells and construction of more new piezometers on priority and submit action taken report to this Office (Partially Complied) .	The Cluster has total three Piezometer wells. During the inspection one installed piezometer was shown as a sample. The Geotagged photographs of other piezometers are attached herewith. A network of dug wells is already established that contains dug wells within Cluster and Buffer (Both of CMPDI and CGWA) where regular monitoring of water level is undertaken. The Geotagged photographs of other piezometers constructed and map of dug well network along with hydrographs have been submitted.
11	Specific condition no. xxiii: Sufficient coal pillars shall be left un-extracted around the air shaft (within the	The proponent informed that sufficient coal pillars have been left around air shafts. However, details of coal pillars have not been	Plan showing coal pillars and Undertaking issued in this regard has been submitted.

Cluster III- EC dated 06.02.2013			
S. No	Non-compliance/ Partially compliance details	Observation of RO	Action Taken Report on Partially complied/ Non – complied condition
	Subsidence influence area) to protect from any damage from subsidence, if any.	received in this Office. Therefore, the proponent has been instructed to furnish details to this Office (Partially Complied) .	
12	Specific condition no. xxiv: High root density tree species shall be selected and planted over areas likely to be affected by subsidence.	No details of high root density trees species have been received in this Office or shown during inspection. Therefore, the proponent has been instructed to furnish details to this Office (Partially Complied) .	The list of species planted in BCCL certified by FRI, Dehradun for High Root Density has been submitted.
13	Specific condition no. xxvi: Solid barriers shall be left below the roads falling within the blocks to avoid any damage to the roads.	The proponent informed that sufficient solid barriers have been left. However, details of solid barriers have not been received in this Office. Therefore, the proponent has been instructed to furnish details to this Office (Partially Complied) .	Plan showing solid barriers and Undertaking issued in this regard has been submitted.
14	Specific condition no. xxxix: ETP shall also be provided for workshop, and CHP, if any. Effluents shall be treated to confirm to prescribe standards in case discharge into the natural water course	ETP has not been in operation. No oil & grease trap at Sinidih Workshop has been observed. Therefore, the proponent has been instructed to resume the operation of ETP with oil & grease trap and submit action taken report to this Office (Partially Complied) .	O&G trap has been made functional. Log book of operation and oil recovered from oil & grease trap is enclosed herewith along with photographs has been submitted.
15	General condition no. iii: Four ambient air quality monitoring stations shall be established in the core zone as well as in the buffer zone for PM10, PM2.5, SO2 and NOx monitoring. Location of the stations shall be decided based on the meteorological data, topographical features and environmentally and ecologically sensitive targets in consultation with the State Pollution Control Board. Monitoring of heavy metals such as Hg, As, Ni, Cd, Cr ,etc carried out at least once in six months.	The proponent informed that locations of monitoring stations have been finalized in consultation with Jharkhand State Pollution Control Board. However, these locations have not been shown during inspection. Furthermore, no monitoring stations have been observed during inspection except one monitoring station on the building of GM's Office. Third party monitored reports have been received. The values recorded therein in the reports have been found within the permitted limits. Therefore, the proponent has been instructed to establish AAQM stations as per the guidelines and submit action taken report to this Office (Partially Complied) .	CMPDIL (A NABL Accredited Lab) carries out AAQM at locations fixed by JSPCB. The Monitoring frequency is fortnightly as per GSR 742(E). During the visit undertaken on 04.09.2024 the scheduled monitoring by CMPDIL had been taken on 04.09.2024 (Buffer zone: Muraidih Project Office), 05.09.2024 (Buffer zone: Kharkharee), 06.09.2024 (Buffer zone: Ramkanali office, Core zone: Block-IV). The Geotagged photographs of the CMPDIL AAQ Monitoring locations, monitoring report issued by CMPDIL, and continuous Online PM10 Monitors installed at 5 locations have been submitted.
16	General condition no. iv: Data on ambient air quality (PM10, PM 2.5, SO2 and	Third party (CMPDI) monitored AAQ reports with copies to CPCB and SPCB have been received in this office. The values recorded therein	CMPDIL (a NABL Accredited Lab) carries out AAQM at locations fixed by JSPCB.

Cluster III- EC dated 06.02.2013			
S. No	Non-compliance/ Partially compliance details	Observation of RO	Action Taken Report on Partially complied/ Non – complied condition
	NO _x) and heavy metals such as Hg, As, Ni, Cd, Cr and other monitoring data shall be regularly submitted to the Ministry including its Regional Office at Bhubaneswar and to the State Pollution Control Board and the Central Pollution Control Board once in six months. Random verification of samples through analysis from independent laboratories recognized under the EPA rules, 1986 shall be furnished as part of compliance report.	have been observed within the permitted limits. No details of random verifications of samples through analysis from independent laboratories have been received in this office. Therefore, the proponent has been instructed to conduct random verification as per the imposed condition and submit action taken report to this Office (Partially Complied) .	The Monitoring frequency is fortnightly as per GSR 742(E). During the visit undertaken on 04.09.2024 the scheduled monitoring by CMPDIL had been taken on 04.09.2024 (Buffer zone: Muraidih Project Office), 05.09.2024 (Buffer zone: Kharkharee), 06.09.2024 (Buffer zone: Ramkanali office, Core zone: Block-IV). The Geotagged photographs of the CMPDIL AAQ Monitoring locations, monitoring report issued by CMPDIL, and continuous Online PM10 Monitors installed at 5 locations and report of random verification of air samples carried out by IIT (ISM), Dhanbad has been submitted.
17	General condition no. vi: Industrial wastewater (workshop and wastewater from the mine) shall be properly collected, treated so as to conform to the standards prescribed under GSR 422 (E) dated 19 th May 1993 and 31 st December 1993 or as amended from time to time before discharge. Oil and grease trap shall be installed before discharge of workshop effluents.	ETP has not been in operation. No oil & grease trap at Sinidih Workshop has been observed. Therefore, the proponent has been instructed to resume the operation of ETP with oil & grease trap and submit action taken report to this Office (Partially Complied) .	O&G trap has been made operational. Log book of operation and oil recovered from oil & grease trap is enclosed herewith along with photographs has been submitted.
18	General condition no. viii: Monitoring of environmental quality parameters shall be carried out through establishment of adequate number and type of pollution monitoring and analysis equipment in consultation with the State Pollution Control Board and data got analyzed through a laboratory recognized under EPA Rules, 1986.	The proponent informed that locations of monitoring stations have been finalized in consultation with Jharkhand State Pollution Control Board. However, these locations have not been shown during inspection. Furthermore, no monitoring stations have been observed during inspection except one monitoring station on the building of GM's Office. Third party monitored air, water and noise reports have been received. The values recorded therein found within the permitted limits. Therefore, the proponent has been instructed to	CMPDIL (a NABL Accredited Lab) carries out AAQM at locations fixed by JSPCB. The Monitoring frequency is fortnightly as per GSR 742(E). During the visit undertaken on 04.09.2024 the scheduled monitoring by CMPDIL had been taken on 04.09.2024 (Buffer zone: Muraidih Project Office), 05.09.2024 (Buffer zone: Kharkharee), 06.09.2024 (Buffer zone: Ramkanali office, Core zone: Block-IV).

Cluster III- EC dated 06.02.2013			
S. No	Non-compliance/ Partially compliance details	Observation of RO	Action Taken Report on Partially complied/ Non – complied condition
		establish AAQM stations as per the guidelines and submit action taken report to this Office (Partially Complied).	The Geotagged photographs of the CMPDIL AAQ Monitoring locations, monitoring report issued by CMPDIL, and continuous Online PM10 Monitors installed at 5 locations have been submitted.
19	General condition no. ix: Personnel working in dusty areas shall wear protective respiratory devices and they shall also be provided with adequate training and information on safety and health aspects.	The proponent provided PPE kits to all the workers. Further, the proponent informed that a separate Human Resource Development has been established. However, no details of training on safety and health aspects conducted by the proponent have been received in this Office. Therefore, the proponent has been instructed to renovate/maintain the buildings of training institutes and submit action taken report along with the details of training conducted to this Office (Partially Complied).	Renovation & maintenance of the Group Vocational Training Centre (GVTC) building, Sinidih is being carried out regularly. Copy of last work order dated 20.11.2023 for renovation of GVTC and details of Training imparted & Occupational health surveillance Conducted has been submitted.
20	General condition no. x: Occupational health surveillance programme of the workers shall be undertaken periodically to observe any contractions due to exposure to dust and to take corrective measures, if needed and records maintained thereof. The quality of environment due to outsourcing and the health and safety issues of the outsourced manpower should be addressed by the company while outsourcing.	Worker with PPE kits in dust areas have been observed. The proponent informed that regular training on safety & health has been conducted. However, no details have been received in this Office. Further, the proponent informed that the occupational health surveillance has been conducted regularly. However, no details have been received in this Office. Therefore, the proponent is instructed to submit details of training and occupational health surveillance to this Office (Partially Complied).	Details of Training imparted & Occupational health surveillance Conducted has been submitted
21	General condition no. xiii: The Project authorities shall advertise at least in two local newspapers widely circulated around the project, one of which shall be in the vernacular language of the locality concerned within seven days of the clearance letter informing that the project has been accorded environmental clearance and a copy of the clearance letter is available with the State	The proponent informed that information about the grant of EC has been advertised in Times of India on 02/03/2013 and Hindustan (Hindi), 01/03/2013. Advertised copies have been received in this Office. However, the clause of advertise in seven days has not been followed. Therefore, the proponent has not been instructed to clarify the reasons for not complied as per the condition to this Office (Partially Complied).	The EC after publishing was forwarded for publication after obtaining competent approval. The approval and final publishing involved some time. However, the EC condition has been complied as the EC has been advertised in the newspaper.

Cluster III- EC dated 06.02.2013			
S. No	Non-compliance/ Partially compliance details	Observation of RO	Action Taken Report on Partially complied/ Non – complied condition
	Pollution control Board and may also be seen at the website of the ministry of Environment & Forests at http://envfor.nic.in .		
22	General condition no. xv: A copy of the environmental clearance letter shall be shall also be displayed on the website of the concerned State Pollution Control Board. The EC letter shall also be displayed at the Regional Office, District Industry Sector and Collector's Office/Tehsildar's Office for 30 days.	The proponent informed that the copy of EC have been on the website of state PCB. Further the proponent informed the copies of EC letter have been sent to the Regional office, District Industrial Centre and Collector's Office/Tehsildar's Office to display. However, no evidence of whether the copies of EC have been shared with these Offices or displayed at these Offices have been received in this Office (Partially Complied) .	The Forwarding letters along with a copy of EC granted to Cluster-III sent to concerned offices and copy of same has been submitted.
23	General condition no. xvi: The clearance letter shall be uploaded on the company's website. The compliance status of the stipulated environmental clearance conditions shall also be uploaded by the project authorities on their website and updated at least once every six months so as to bring the same in public domain. The monitoring data of environmental quality parameter (air, water, noise and soil) and critical pollutant such as PM10, PM2.5, SO2 and NOx (ambient) and critical sectoral parameters shall also be displayed at the entrance of the project premises and mine office and in corporate office and on company's website	EC copy has been uploaded on the company's website. https://www.bcclweb.in/?page_id=4731&lang=en Six monthly compliance reports have been uploaded on the website. When visited the website company's website today i.e., no monitored data has been observed. Therefore the proponent is instructed to upload the monitored data of air, water, noise, and soil on the company's website urgently. Further, the proponent is instructed to clarify for why the monitored data of air, water, noise and soil on the company's website has not been uploaded to this Office (Partially Complied).	Monitored Data is attached as Annexures in Six Monthly EC compliance reports which are being uploaded on the company website regularly. However, as per directions, separate section of "MONITORING" has been created on the website for monitoring data and can be accessed through link https://www.bcclweb.in/?page_id=15361&lang=en

D. Summary of amendment sought in the EC dated 06/12/2013

Existing Scenario					Proposed Scenario			
S. No.	Name of Project	Type	Peak Production (MTPA)	ML Area (Ha)	Name of Project	Type	Peak Production	ML Area (Ha)
1	Jogidih Colliery	UG	0.317	167.00	Cluster – III	Mixed with Highwall Mining	3.6	1420.61
2	Maheshpur Colliery	UG	0.091	292.68				
3	South Govindpur Colliery	UG	nil	182.00				
4	Teturiya Colliery	UG	nil	123.00				
5	Govindpur Colliery	UG	0.182	159.55				
6	New Akashkinaree Mixed Mine	UG	1.30	347.38				
		OC	0.176					
7	Block IV/ Kooridih Mixed	OC	1.430	149.00				
		UG	0.104					
Total			3.60 (OC: 2.73 UG: 0.87)	1420.61			3.6 (OC: 2.73 UG: 0.87)	1420.61

20.16.3: Reasons for amalgamation of Cluster III (7 mines to 1 Mine)

It has been decided to combine 7 mines within Cluster III for conserving of about 60 million tonnes of Coal getting locked up in the common barrier of individual mines. To enable Opencast cum Underground with Highwall Mining Method (Blast free and Drill Free) in Cluster III without any change in EC Capacity and lease hold area. To better utilize the land and plan a more scientific quarry it is proposed to formulate a single mine by amalgamation of separate mines of Cluster III.

This amendment is sought for speedier operation at Cluster III, as it will facilitate extraction of Coal up to the Bottom Seam, will make available larger space for keeping OB, thereby reducing the requirement of re-handling of OB enabling better and speedier reclamation (technical and biological) works, the de-coaled areas will provide space for storage of OB extracted for fiery coal excavation within the cluster to implement the Master Plan approved by Govt. of India, will facilitate better utilisation of cluster EC capacity. Grant and Vesting order for Mining Lease for Cluster III has been issued by the MoC vide Mineral Concession Rules dated 01.10.2021 over an area of 1420.61 ha for the lease period up to 30.09.2071. Mining Plan and Mine Closure Plan Cluster III has been approved by BCCL Board on 15.08.2024.

20.16.4: Salient features of proposed amalgamation

Sl. No	Description	Jogidih	Maheshpur	South Govindpur Colliery	Teturiya Colliery	Govindpur Colliery	New Akashkinaree Mine	Block-IV/Koordih Mixed Mines		REMARKS (Cluster III)		
A	Govt Land	117.00	203.44	182.00	123.00	133.55	322.38		149.00			
	Private	50.00	89.24	0.00	0.00	26.00	25.00		0.00			
	Forest	0.00	0.00	0.00	0.00	0.00	0.00		0.00			
	Total	167	292.68	182.00	123.00	159.55	347.38		149.00	Overall No Change (Merged) 1420.61 ha		
B	Production Capacity (MTPA)	0.251	0.072	Nil	Nil	0.144	OC	UG	OC	UG	Overall No change (Merged) 3.6	
							1.3	0.139	1.143	0.082		
C. Details of Mining												
1	Technology	UG (Board and Pillar)	UG (Board and Pillar)	Closed for production	Closed for production	UG (Board and Pillar)	Opencast Mining – Fully Mechanized with UG (Board and Pillar)		Opencast Mining – Fully Mechanized with UG (Board and Pillar)		OC plus UG	
2	Reserves (Million Tonnes)	10.50	18.82	-	-	5.95	17.00		17.396		174.43MT (+ increase by 104.76)	
3	Life of Project (Yrs)	30	30	-	-	30	OC	UG	OC	UG	66 (+ increase by 36 years)	
							11	30	11	30		
4	OB Generation (Mm ³)	-	-	-	-	-	OC	UG	OC	UG	798.304 (+ increase by 718.304)	
							24	-	56	-		
5	Ultimate working depth (m)	300	90	-	-	134	240		160		260 (+ increase by 20 m) Merged	
6	Means of Transportation	Road/Rail	Road/Rail	Road/Rail	Road/Rail	Road/Rail	Road/Rail		Road/Rail		Road/Rail/ RLS	
D. Project requirements												
1	Water Requirement (KLD)	500	545	1215 (Combine)		1320	1353		812		17477 (+ increase 11732)	
2	Man Power requirement	776	593	-	-	835	922		932		2607 (- decrease by 1451)	
3	Power requirement (MW)	11.815										9.8 (- decrease by 2.015)

Sl. No	Description	Jogidih	Maheshpur	South Govindpur Colliery	Teturiya Colliery	Govindpur Colliery	New Akashkinaree Mine	Block-IV/Koordih Mixed Mines	REMARKS (Cluster III)
E. Post mine land use									
1	Total excavated Area (in ha)	-	-	-	-	-	-	-	38.7 (+ addition of void)
2	Area under Waste dump (in ha)	-	-	-	-	-	28.75	7.88	36.68 (+ by 0.05)
3	Area under greenbelt and plantation (in ha)	74.09	153.69	155.04	85.99	121.09	130.55	134.27	795.54 (- 59.18 ha)
F Cost									
1	Project Cost (Rs. In Crore)	9.47	0.076	-	-	0.732	0.8115	0.736	475.69 (+ increase in Capital cost)

Environmental Site Settings:

20.16.5: The project area is covered under Survey of India Topo sheet No Toposheet no 73 I/1, I/2, I/5, I/6 and is bounded by the geographical coordinates ranging from N 23°46'46.67"N to 23°48'32.34"N and longitudes E 86°14'16.96"E to 86°17'36.91".. Project fall/does not fall in the Critically Polluted Area (CPA)/ Severely Polluted Area (SPA), as per CEPI Assessment 2018.

Forest Area: The project involves no forest land

Protected Area: The project is not located within 10 KM of any ESZ/ ESA/ national park/ wildlife sanctuary/ biosphere reserve/ tiger reserve/ elephant reserve/tiger corridor/elephant corridor etc. There is no violation of WLP, Act.

20.16.6: Mine Lease details: PP submitted the following details of mine lease for Cluster III:

S. No.	Govt. Order/Notifications as the case maybe	Area (ha)
1	<ul style="list-style-type: none"> • Lease allotment : Coking Coal Mines (Nationalisation) Act 1972 • Coal India (Regulation of Transfers and Validation) Act 2000 • Mineral Concession Rules Amendment dated 01.10.2021 	1420.61

20.16.7: Method of Mining and Mine Plan:

- i. Mining Plan and Mine Closure Plan for for Cluster-III has been approved on 16.08.2024 in 412th BCCL Board. In this regard, PP informed that targeted capacity of coal production will be maintained at 3.6 MTPA
- ii. The total geographical reserves reported in the mine lease area of 1420.61 Ha is 577.63 MT, out of which mineable reserves are 174.43 MT and extractable reserves are 161.3 MT. Percentage of extraction is more than 90.
- iii. There are total 21 seams, out of which working seams are 17.

iv. The method of mining to be adopted will be Opencast cum Underground with Highwall Mining Method as submitted by the proponent.

v. Stripping ratio is 1: 5.695.

vi. Life of mine is 66 years.

vii. Land use details:

a) Pre-Mining

S. No.	Land Use	Within ML Area (ha)	Outside ML Area (ha)	Total
1.	Agricultural Land	190.24	0	190.24
2.	Forest land	0	0	0
3.	Waste land	0	0	0
4.	Grazing land	0	0	0
5.	Surface Water Bodies	29.37	0	29.37
6.	Settlements	147.77	0	147.77
7.	Other (Plantation)	24.85	0	24.85
	Railway	26.84	0	26.84
	service building/mine infrastructure	45.47	0	45.47
	Road	19.37	0	19.37
	Barren land/abandoned quarry etc.	936.7	0	936.7
Total for Others (Sl no. 7)				1053.23
Total Area (Ha)				1420.61

b) Post Mining

Sl. No	Type	Land Use (Ha)					Remarks
		Plantation	Water Body	Public Use	Undisturbed	Total	
1	Excavation/Quarry Area:						
	Backfilled areas	690.17	0	0	0	690.17	Plantation to be developed on backfilled area
	Excavated Void	0	38.7	0	0	38.7	To be converted into water body
2	External Dump	36.68	0	0	0	36.68	Plantation to be developed on external OB dump
3	Safety Zone	25.57	0	3.8	26	55.37	

Sl. No	Type	Land Use (Ha)					Remarks
		Plantation	Water Body	Public Use	Undisturbed	Total	
4	Road and infrastructure	0	0	81.36	3.8	85.16	
5	garland drains	0	0	0	1.9	1.9	
6	Embankment	0	0	0	3.7	3.7	
7	Others	43.12	25.8	26.84	413.17	508.93	
	Total					1420.61	

viii. Details of transportation: The coal produced from the Cluster III Coal Mining Project will be transported as given below:

- In pit: from face to surface coal dump 0- 3 km by dumpers
- Surface to siding: By tippers from coal dump to railway siding (2.4-5.2 km)
- Siding to loading: Pay loader loads the coal into the railway wagons for further transport to consumers.
- Transportation of Coal through RLS(SILO) at Maheshpur Colliery after linking of railway siding with rail tracks by M/s RITES (expected completion by 31.03.2025)

ix. Coal produced from Cluster-III will be used as raw material for various Thermal Power Plants. The distance of the power plant from Cluster III is 100 Kms.

x. Over burden: 796.75 Million Cum

xi. Top soil: 1.55 million cum (will be utilized for plantation)

xii. Reclamation: Afforestation shall be done progressively covering an area of: 795.54 ha at the end of mining. This will include Reclaimed external OB dump (in ha): 36.68, internal dump (in ha): 690.17, Green belt (in ha): 68.69 (Safety Zone and existing) Density of tree plantation (in no of plants) will be: 2500/ha. A void of 38.7 is proposed to be converted into water body (depth 30m).

xiii. **Safety zone and other safety aspects:** The approved Mining Plan has delineated the quarry boundary by considering safety zone of 55.37 ha as per statutory provision stipulated in Mines Act-1952, CMR-2017, Mines Rule and boundary delineation keeping minimum safe distance as mentioned below:

NORTH SECTION QUARRY	45 m from diverted road
	100 m from DC railway line
	100 m from densely populated Chhatabad Basti/wherever applicable
	7.5 m from leasehold boundary of Cluster III
	60 m from Khudia Jore
SOUTH SECTION QUARRY	45 m from National Highway
	45 m from Tundu Road
	7.5 m from leasehold boundary of Cluster III

- xiv. Further, for the proposed amalgamation of mines, the approved mining plan has envisaged the aspects of a) slope stability; b) adjacent working; c) geo-mining disturbances; d) proximity to ore; e) disaster management; f) existing underground fire and proposed maintenance of safety zone of 55.37 ha in which 25.57 ha is proposed to be converted in green belt at Post-Mining stage. Thus, the operations in accordance to approved Mining Plan ensure statutory provision stipulated in Mines Act-1952, CMR-2017, Mines Rule, and circulars /recommendation.

20.16.10: Details of water requirement:

Total water requirement is estimated as 17477 KLD, same will be sourced from Mine Water. CGWB issued NOC for Cluster-III (Application no. 21-4/277/JH/MIN/2018) on 03.12.2021. First renewal has been applied and the application has been approved by chairman, CGWA and grant of NOC is under issuance stage.

Two seasonal streams are traversing the area:

- Bagdigi Jore - The Bagdigi jore enters from northern boundary of the Cluster-III and flows through the Cluster-III, it further joins to Khudia River in downstream of the southern boundary of the cluster-III.
- Khudia Jore: This jore flows from NW to SE and passes through the Cluster-III leasehold area.

20.16.11: Details of power requirement and diversion of Hi-tension Line: Total 9.8 MW/Month power requirement is there which is being/will be sourced from state grid.

20.16.12: Compliance to the Public hearing: Public hearing for the Cluster III was held on 2/01/2012. Major issues raised during public hearing were about water sprinkling/covered truck transportation, Drinking water and Domestic water availability, Plantation and Employment. Public hearing action plan was implemented. Further, PP has proposed an amount of Rs. 7.45 Crore to implement the issues raised during public hearing.

20.16.13: 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:

S. No	Type of Waste	Source	Quantity (TPA)	Mode of Treatment	Disposal
1.	Solid Waste (Domestic waste)	From Offices and Few Quarters	10		Garbage Composting
2.	Plastic Waste (Packing material)	Plastic waste from packaging at stores	0.16	-	To authorized recyclers - By Road
4.	E-waste IT equipment, electronic parts, cartridges of printer)	Office equipments etc.	0.023	-	As per e-Waste Rules, 2016- By Road
5.	Batteries Waste	Batteries of Heavy Earth Moving Machinery, Light Vehicles	1.25	-	As per Battery (Management & handling) Rules.
6.	Hazardous Waste (Sludge and filter contaminated with oil, Used or Spent	Workshop	10.3	-	Sent to authorized recyclers

S. No	Type of Waste	Source	Quantity (TPA)	Mode of Treatment	Disposal
	Oil, Empty Barrels/container, Waste / Residue containing oil)				

20.16.14: Plantation: Afforestation shall be done progressively covering an area of: 795.54 ha at the end of mining. This will include Reclaimed external OB dump (in ha): 36.68, internal dump (in ha): 690.17, Green belt (in ha): 68.69 (Safety Zone and existing). Local and fruit bearing species are being/ will be planted in consultation with local forest officer and density of 2500 tress per ha is proposed.

20.16.15: R&R Issues: R&R for 3756 PAF's is proposed. Compensation package is as per Jharia Master Plan and total outlay reported to be Rs. 270.12 crore. However, the rehabilitation of 3556 families is yet to be completed.

20.16.16: Project Cost: Total capital cost of the project is Rs. 475.69 Crores and the capital cost for EMP including R&R is Rs. 276.27 crores. Recurring cost for EMP is Rs. 3.44 crores.

20.16.17: Environment Management plan

- The cluster of mines will be dovetailed with the approved Jharia Action Plan for dealing with fire, subsidence and rehabilitation of people.
- Water spraying by water Sprinkler will be done regularly on haul roads approach roads within the mining area to minimise the dust generation.
- Water sprinkling arrangement will be provided at the transfer point of coal.
- Intensive plantation of adequate width all along the haul road and other road will be raised to minimise transport-generated pollutants.
- Coal transportation to Railway siding will be done in covered trucks.
- Exposed overburden dumps will be covered through an appropriate plantation.
- Optimum blast hole geometry will be followed to reduce the dust during blasting.
- Regular monitoring of ambient air quality of project area.
- The mine discharge will be effectively utilize to meet the mine's domestic and industrial needs.
- Routine maintenance schedules for HEMM and other machineries to eliminate noise as far as possible.
- Balanced and properly aligned conditioning of machines to reduce vibration.
- Provision of ear muffs/ear plugs to workers subjected to noise level above recommended limits.
- Controlled blasting.

20.16.18: EMP Cost

A: CAPITAL EXPENDITURE

Sl No	Activity as per EMP	Item	Expenditure incurred (lakhs)
1	Pollution abatement cost including providing 02 additional water sprinklers	Procured 2 nos. Mobile water Sprinkler (28 KL Capacity)	289.51
		Procured 1 no. truck mounted fog cannon system	41.95

2	Development of green belt (100 Ha and the left-out area will be taken up during mine closure period) (Rs. 1 lakh per Ha)	Bamboo gabion plantation	57.78
3	Dust suppression & extraction in coal handling plant & feeder breaker	Procured 3 nos. trolley mounted fog cannon (100 mtr. range)	20.85
4	EMP Report	Preparation of EIA and EMP report	89.348
5	Industrial sewage treatment in workshop	Constructed Oil & Grease trap	22.40
6	Cost of Anti-pollution measures in mine & Industrial area	Constructed Coal transportation Road	64.32
7	Other provisions	Constructed toe wall	43.013
		Constructed Roof top Rain Water Harvesting Arrangement	8.40
		Development of Eco-Park	17.70
		Total	655.27

B: REVENUE EXPENDITURE

Sl. No	Element as per as per EMP	Annually Recurring Cost (Rs. in Lakhs) as per EIA/EMP	Actual cost incurred (Lakhs)				
			FY				
			19-20	20-21	21-22	22-23	23-24
1	Pollution control	20.00	29.05	25.22	24.19	24.13	24.69
2	Pollution monitoring	5.00	20.97	29.22	31.76	32.15	46.60
3	Occupational health	5.00	4.68	5.15	15.55	10.03	22.95
4	Green belt & biological reclamation	10.00	230.48	144.63	56.95	61.60	85.22
5	Corpus fund for mine-closure	130.00	275.07	288.83	303.26	318.43	334.35
6	Water cess and consent to operate	6.00	3.33	7.395	NIL	NIL	NIL
7	Others (Lump sum)	5.00	NIL	NIL	NIL	1.58	1.84
	Total	344.45	563.58	500.45	431.71	447.92	515.65
8	Corporate Social Responsibility *	138.45	CSR: 646	CSR: 621	CSR: 493	CSR: 1142	CSR: 777.33
9	Mine Reclamation*	25.00	391.36	210.44	190.7	215	938

20.16.19: Undertaking/ Affidavit: PP has submitted an undertaking that the information provided in Form 1 in PARIVESH, to Ministry/ EAC members and PPT presentation during the EAC meeting have no deviation in respect of proposal for EC for amendment in existing EC Cluster III by amalgamating 7 mines. There are no data entry errors in the information uploaded in PARIVESH system and supporting documents uploaded on PARIVESH portal are correct and duly authenticated by the Authorized Signatory. In case any deviation is found in any of the documents, the authorized shall be held responsible and furthermore, the above said project shall be rejected.

20.16.20: Legal Issues/ Violation: PP submitted that there are no court cases pending on the project. However, the previous EC granted in 2013 was granted with following condition:

“The Environmental Clearance is subject to the outcome of the Writ Petition filed by M/S Bharat Coking Coal Limited (BCCL) in response to the closure orders issued by the Jharkhand State Pollution Control Board which is pending in the Jharkhand High Court”.

Jharkhand State Pollution Control Board, had issued directions of closure of collieries of M/S Bharat Coking Coal Limited under section 31A & 33A of Air (Prevention and Control of Pollution) Act.1981 & Water (Prevention and Control of Pollution) Act. 1974, respectively, for operating without obtaining environmental clearance.

M/S BCCL had filed a Writ Petition (No. 4944/11) challenging the Board’s directions of closure. The Jharkhand High Court has passed interim order on 25.08.2011 that “Till then, status quo, as on today, shall be maintained by the parties” and passed order on 18.01.2012 that “Until further orders, the interim order dated 25.08.2011 shall continue”. The said status is maintained till date.

20.16.21: Written Submissions: Written submission made by PP are summarized as below:

S. No.	Points	Written submissions made
1.	Diversion of water body	Signed Undertaking has been submitted by Project Proponent that diversion of water body, if any in Cluster III Coal Mine Project of Bharat Coking Coal Limited shall be done with prior approval of State Government and prior amendment in EC will be sought from MoEFCC for the same
2.	CAAQMS	Signed Undertaking submitted for installation of 4 CAAQMS
3.	Safety Zone	Signed document submitted for maintenance of safety zone as per the approved Mining Plan

Deliberations and Observation of the Committee:

20.16.23: The Committee noted the following:

- i. The instant proposal is for amendment of existing Environment Clearance (EC) of Cluster-III coal mining project of M/s BCCL (Leasehold area: 1420.61 ha with Granted production capacity of 3.60 MTPA) by amalgamating separate mines of Cluster-III into a single mine without change in leasehold area and peak production capacity; located at Village: Sinidih, Block: Baghmara, district: Dhanbad, State: Jharkhand.

- ii. The project area is covered under Survey of India Topo sheet No Toposheet no 73 I/1, I/2, I/5, I/6 and is bounded by the geographical coordinates ranging from N 23°46'46.67"N to 23°48'32.34"N and longitudes E 86°14'16.96"E to 86°17'36.91".. Project fall/does not fall in the Critically Polluted Area (CPA)/ Severely Polluted Area (SPA), as per CEPI Assessment 2018.
- iii. The project involves no forestland.
- iv. The project is not located within 10 KM of any ESZ/ ESA/ national park/ wildlife sanctuary/ biosphere reserve/ tiger reserve/ elephant reserve/tiger corridor/elephant corridor etc. There is no violation of WLP, Act.
- v. MoEF&CC accorded Environment Clearance to M/s. Bharat Coking Coal Limited (BCCL) under the provisions of EIA Notification, 2006 for their Cluster-III Coal Mining Project (3.6 Million TPA over 1420.61 Ha) vide letter no. J-11015/213/2010-IA.II (M) dated 06.02.2013.
- vi. It has been decided to formulate a single mine by amalgamation of separate mines of Cluster III to better utilize the land and plan a more scientific quarry without any change in EC Capacity and lease hold area.
- vii. Mining Plan and Mine Closure Plan Cluster III Group of Mines has been approved in the 412th BCCL Board meeting held on 16.08.2024.
- viii. The total geographical reserves reported in the mine lease area of 1420.61 Ha is 577.63 MTe, out of which mineable reserves are 174.43 MTe and extractable reserves are 161.3 MTe. Percentage of extraction is more than 90%.
- ix. 17 seams with thickness ranging from 0.93 m to 25.92 m are workable. Grade of coal is S-I to S-II, W-I to W-VI (Coking), G-2 to G-12, stripping ratio is 1: 5.695 while gradient is 5-10 degree. Life of mine as per the approved Mine Plan is 66 years
- x. The Committee deliberated on the Certified Compliance Report of Cluster III and deliberated on the partially – complied/ non- complied conditions of the same. The committee was satisfied with the action taken report of the proponent.
- xi. Committee deliberated on the plantation activities been carried out by the PP till date. PP presented the photos of plantation carried out till date. Area proposed for plantation is 795.54 Ha. The Committee is of the opinion that plantation needs to be improved and the area of plantation should be increased. For which PP submitted that an area of 726.85 Ha of waste dump and 25.57 Ha of safety zone will also be covered with plantation, which will be developed as forest land. The budget allocated for the same is Rs. 90 Crores.
- xii. The Committee deliberated on the post mining void area. PP submitted that the total void of 38.7 with depth of 30 meter shall be developed as water body during post mining stage.

- xiii. Committee deliberated on the change in water scenario and thus was of the opinion to prepare watershed management plan through a reputed government agency and implement the same.
- xiv. The committee deliberated on the written submission and found it satisfactory.

20.16.24: Recommendations of the Committee: In view of the foregoing and after detailed deliberations, the committee **recommended** the instant proposal for amendment in EC dated 06/02/2013 **subject to uploading of written submission on PARIVESH Portal** under the provisions of EIA Notification, 2006 subject to the stipulation of following specific conditions and general conditions based on project specific requirements. All other terms and conditions mentioned in the EC dated 06/12/2013 shall remain unchanged.

A. Specific Conditions:

- i. The project proponent shall abide by all orders and judicial pronouncements, made from time to time by the Hon'ble High Court of Jharkhand in Writ Petition No. 4944 of 2011.
- ii. Project proponent shall ensure that diversion of water body, if any, in Cluster III Coal Mine Project shall be done with prior approval of State Government and prior amendment in EC will be sought from MoEF&CC for the same.
- iii. 3756 Project Affected Families (PAF) will be affected due to the proposed project. The affected families should be rehabilitated as per R & R plan to be 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.
- iv. Rapid Loading System with Silo arrangement (RLS) within the lease area shall become operational by 30/06/2025 as committed. Coal from mine to the RLS shall be transported by covered dumpers. Road transportation of coal outside the lease area is not permitted beyond 30/06/2025.
- v. Four numbers of Continuous Ambient Air Quality monitoring system shall be set up to monitor common/criteria pollutants such as PM₁₀, PM_{2.5}, SO₂, NO_x within the lease area in consultation with concerned SPCB within six months from the date of EC amendment. The monitoring of other locations (at least three locations outside the lease area covering upwind and downwind directions at an angle of 120° each) shall be carried out manually.
- vi. The budget proposed to address the issues raised during PH is Rs. 7.45 crores. Compliance status in this regard shall be submitted to the concerned Regional Office along with the six monthly compliance report and also be uploaded on the web portal of the company.
- vii. PP shall implement the protective measures proposed in EMP in a time-bound manner. The budget earmarked is Rs 276.27 crores (Capital) (including R&R cost) and Rs 344.45 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.

- viii. PP shall ensure that no OB dumping is done outside the mine lease area.
- ix. PP shall emphasize for using and developing Renewable Energy for its consumption in its utilities/machinery/equipment instead of using electricity from Grid/generated from Thermal Power Plants. PP shall install solar power generation units. Compliance status in this regard shall be submitted to the concerned Regional Office along with the six monthly compliance report and also be uploaded on the web portal of the company.
- x. PP shall minimize mine voids in the post mining phase so that maximum area postmining is under green belt or agriculture/ grazing land.
- xi. Project proponent shall prepare Watershed management plan through a reputed government agency. Project proponent shall submit the same along with the matrix containing action plan to comply with the recommendations of the study report with physical & financial outlay to the concerned Regional Office of the MoEF&CC within six months from the date of grant of EC amendment. Compliance to the action plan shall be monitored by the concerned Regional Office of the MoEF&CC.
- xii. Afforestation shall be done progressively covering an area of: 795.54 ha at the end of mining. This will include Reclaimed external OB dump (in ha): 36.68, internal dump (in ha): 690.17, Green belt (in ha): 68.69 (Safety Zone and existing). Local and fruit bearing species are being/ will be planted in consultation with state forest department. In addition to this, Agro forestry shall be encouraged in consultation with the land owners. Further, PP shall provide 50,000 plant saplings with 4 feet tall fruit bearing plants to farmers for plantation in barren and agriculture lands in the study area every year for 5 years with incentive to improve the green cover in and around the mine lease area.
- xiii. PP shall conduct Carbon Sequestration Study including carbon emissions from coal mining. Compliance status in this regard shall be submitted along with the six monthly compliance to the concerned Regional Office and also kept on the web portal of the company.
- xiv. The proposed project shall be operated on closed water circuit with a concept of 'Zero Liquid Discharge' (ZLD). 100% water will be recycled and no treated & untreated wastewater shall be discharged outside the boundaries of mine lease area.
- xv. PP shall carry out a survey of the impact of blasting in the nearby area/villages by involving a reputed institute and take remedial measures as proposed by the respective institute. Further, provide compensation if any for any damage caused. PP must give crop compensation to the farmers in case there is decrease in the production due to the mining activities. Compliance status in this regard shall be submitted along with the six monthly compliance to the concerned Regional Office
- xvi. To control the production of dust at the source, the crusher shall be equipped with mist-type sprinklers. PP shall install fixed fog cannon (mist spayer) and fixed sprinkler all along the haul road/ CHP, and OB dump till Railway siding is completed. The sufficient number of fog cannons with 40 mts jet length shall be installed within 6 months from

- the date of grant of EC amendment. It should be ensured that air pollution level confirm to the standards prescribed by the MOEFCC/CPCB. Also PP shall install Mist Cannon Dust Suppression Systems (80-100 mtrs.) at Coal Stock Yard to suppress the dust particles.
- xvii. PP shall make use of advanced computer simulation techniques for design and execution of blasting operation in the mine. PP shall make use of Electronic Delay Detonators for optimal blasting in coal and OB rock to minimize the environmental impacts of blasting such as ground vibration, fly rocks and excessive dust generation.
- xviii. PP shall create a “Public Grievance Redressal and Monitoring System” for resolving any issues related to the pollution of mines and complaint has to resolve as soon as possible not beyond 30 days. In this regard, adequate awareness to be spread among the public to address their grievance to company with simple and easy manner and for which company needs to devise the mechanism. The same shall be reported to IRO within 3 months. A logbook to be maintained by PP on “Public Grievance Redressal and Monitoring System.
- xix. 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.
- xx. The status of mine closure activities must be included in every six months compliance report submitted to the state pollution control board and RO of MoEF&CC.
- xxi. Hon’ble Supreme Court in an Writ Petition(s) Civil No. 114/2014, Common Cause vs Union of India &Ors vide its judgement dated 8th January, 2020 has directed the Union of India to impose a condition in the mining lease and a similar condition in the environmental clearance and the mining plan to the effect that the mining lease holders shall, after ceasing mining operations, undertake re-grassing the mining area and any other area which may have been disturbed due to their mining activities and restore the land to a condition which is fit for growth of fodder, flora, fauna etc. Compliance of this condition after the mining activity is over at the cost of the mining lease holders/Project Proponent”. The implementation report of the above said condition shall be sent to the Regional Office of the MoEF&CC.
- xxii. 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.
- xxiii. PP shall ensure that all types of plastic waste generated from the plant shall be stored separately in isolated area and disposed of strictly adhering to the Plastic Waste Management Rules 2016 (as amended). In pursuant to the Ministry’s OM dated 18/07/2022. PP shall also create awareness among the people working in the project area as well as in its surrounding area on the ban on Single Use Plastic (SUP) in order to ensure compliance of Ministry’s Notification published by the Ministry on 12/08/2021. A report along with photograph on the measures taken shall also be included in the six monthly compliance report being submitted by PP.
- xxiv. Total water requirement for the project is 17477 KLD and the same shall be met from groundwater and mine water. PP shall obtain requisite NoC for withdrawal of

Groundwater from CGWA prior to the commencement of mining operations.

- xxv. Project proponent is advised to implement the 'Ek Ped Maa Ke Naam' Campaign which was launched on 5th June 2024 on the occasion of the World Environment Day to increase the forest cover across the Country. This plantation drive is other than Green belt development. The action in this regard shall be submitted concerned RO in six monthly report.

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. The project proponent shall obtain clearance from the National Board for Wildlife, if applicable.
- iii. 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.
- iv. The maximum production or peak production at any given time shall not exceed the limit as prescribed in the EC.
- v. Validity of EC would be governed by the existing EC dated 06/12/2013.

2. Air Quality Monitoring and Mitigation Measures

- i. Project proponent shall obtain requisite consent from State Pollution Control Board for amalgamated mine with a production capacity of 3.6 MTPA.
- ii. Adequate ambient air quality monitoring stations shall be established in the core zone as well as in the buffer zone for monitoring of pollutants, namely particulates, SO₂ and NO_x. 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.
- iii. The Ambient Air Quality monitoring in the core zone shall be carried out to ensure the Coal Industry Standards notified vide GSR 742 (E) dated 25th September, 2000 and as amended from time to time by the Central Pollution Control Board. Data on ambient air quality and heavy metals such as Hg, As, Ni, Cd, Cr and other monitoring data shall be regularly reported to the Ministry/Regional Office and to the CPCB/SPCB.
- iv. Effective control measures such as regular water sprinkling/rain gun/ Fog cannon /mist sprinkling etc., shall be carried out in critical areas prone to air pollution with higher level of particulate matter all through the coal transport roads, loading/unloading and transfer points. Fugitive dust emissions from all sources shall be controlled regularly. It shall be ensured that the ambient air quality parameters conform to the norms prescribed by the Central/State Pollution Control Board.
- v. Major approach roads shall be black topped and properly maintained.
- vi. Vehicular emissions shall be kept under control and regularly monitored. All the vehicles engaged in mining and allied activities shall operate only after obtaining 'PUC' certificate from the authorized pollution testing centres.

- vii. PP should Install Wind breaker/shield arrangement along the railway siding for reducing the dust propagation in upwind direction.
- viii. The raw coal shall be stacked properly at earmarked site (s) within stockyards fitted with wind breakers/shields. Adequate measures shall be taken to ensure that the stored mineral does not catch fire
- ix. PP shall submit an action plan for using and developing Renewable Energy for its consumption in its utilities/machinery/equipment instead of using electricity from Grid/generated from Thermal Power Plants. PP shall Install additional solar power generation units.
- x. PP shall install the weather monitoring system along with new CAAQMS shall be installed in which all the parameters like PM₁₀, PM_{2.5}, SO₂, NO_x should be there.

3. Water Quality Monitoring and Mitigation Measures

- i. The effluent discharge (mine waste water, workshop effluent) shall be monitored in terms of the parameters notified under the Water Act, 1974 Coal Industry Standards vide GSR 742 (E) dated 25th September, 2000 and as amended from time to time by the Central Pollution Control Board.
- ii. The monitoring data shall be uploaded on the company's website and displayed at the project site at a suitable location. The circular No.J-20012/1/2006-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.
- iii. The project proponent shall not alter major water channels around the site. Appropriate embankment shall be provided along the side of the river/nallah flowing near or adjacent to the 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.
- iv. Garland drains (of suitable size, gradient and length) around the critical areas i.e. mine shaft and low lying areas, 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
- v. The water pumped out from the mine, after siltation, shall be utilized for industrial purpose viz. watering the mine area, roads, green belt development etc. The drains shall be regularly desilted particularly after monsoon and maintained properly
- vi. Industrial wastewater from coal handling plant and mine water shall be properly collected and treated so as to conform to the standards prescribed under the Environment (Protection) Act, 1986 and the Rules made thereunder, and as amended from time to time. Oil and grease trap shall be installed before discharge of workshop effluent. Sewage treatment plant (STP) of adequate capacity shall be installed for treatment of domestic wastewater.
- vii. An integrated surface drainage plan including surface water conservation plan for the area of influence affected by the said mining operations shall be prepared, considering the presence of any river/rivulet/pond/lake etc., with impact of mining activities on it, and implemented by the project proponent. The surface drainage plan and/or any diversion of natural water courses shall be as per the provisions of the approved Mining

Plan/ EIA-EMP submitted to this Ministry and the same should be done with due approval of the concerned State/GoI Authority. The construction of embankment to prevent any danger against inrush of surface water into the mine should be as per the approved mining plan and as per the permission of DGMS.

- viii. 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.
- ix. Industrial effluent and domestic wastewater shall be treated in the Effluent treatment Plant (ETP) and Sewage Treatment Plant (STP). After treatment, treated water shall be reused for plantation.

4. Noise and Vibration Monitoring and Prevention

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

5. Mining Plan

- i. Project proponent shall obtain star rating as per the guidelines of Ministry of Coal.
- ii. Mining shall be carried out under strict adherence to provisions of the Mines Act 1952 and subordinate legislations made there-under as applicable.
- iii. No change in mining method, calendar programme and scope of work shall be made without obtaining prior approval of the Ministry of Environment, Forest and Climate Change (MoEF&CC).
- iv. 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 circulars issued by Directorate General Mines Safety (DGMS).
- v. Environmental conditions of mining place shall be rendered ergonomic and air breathable with adequate illumination in conformance with DGMS standards.
- vi. No mining shall be carried out in forest land without obtaining Forestry Clearance as per Forest (Conservation) Act, 1980 and also adhering to the Scheduled Tribes and Other Traditional Forest Dwellers (Recognition of Forest Rights) Act, 2006 read with provisions of Indian Forest Act, 1927.

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) from time to time shall be submitted to MoEFCC/Regional Office (RO).

- ii. Post-mining land be rendered usable for agricultural/forestry purposes and shall be handed over to the respective State Government, as specified in the Guidelines for Preparation of Mine Closure Plan, issued by the Ministry of Coal dated 27th August, 2009 and subsequent amendments.
- iii. 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 till movement ceases completely. 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.
- iv. A separate team for subsidence monitoring and surface mitigation measures shall be constituted and continuous monitoring & implementation of mitigation measures be carried out.
- v. 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.
- vi. Quick action/mitigation plan shall be established and implemented in the area affected by subsidence caused due to mining activity.
- vii. 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.

7. Public Hearing and Human Health Issues:

- i. Adequate illumination shall be ensured in all mine locations (as per DGMS standards) and monitored.
- ii. The project proponent shall undertake occupational health survey for initial and periodical medical examination of the personnel engaged in the project and maintain records accordingly as per the provisions of the Mines Rules, 1955 and DGMS circulars. Besides regular periodic health check-up, 20% of the personnel identified from workforce engaged in active mining operations shall be subjected to health check-up for occupational diseases and hearing impairment, if any, as amended time to time
- iii. 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.
- iv. 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.
- v. Effective arrangement shall be made to provide and maintain at suitable points conveniently situated, a sufficient supply of drinking water for all the persons employed.
- vi. The project proponent shall follow the mitigation measures provided in this Ministry's OM No.Z11013/5712014-IA.II (M) dated 29th October, 2014, titled 'Impact of mining

activities on habitations-issues related to the mining projects wherein habitations and villages are the part of mine lease areas or habitations and villages are surrounded by the mine lease area’.

- vii. PP should conduct epidemiology study for analysis of the distribution, patterns and determinants of health and disease conditions in defined populations.

8. Corporate Environment Responsibility:

- 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 and/or shareholders/stake holders
- ii. A separate Environmental Cell both at the project and company head quarter level, with qualified personnel shall be set up under the control of senior Executive, who will directly 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.
- iv. Self-environmental audit shall be conducted annually. Every three years third party environmental audit shall be carried out.

9. Miscellaneous:

- i. The project proponent shall make public the environmental clearance granted for their project along with the environmental conditions and safeguards at their cost by prominently advertising it at least in two local newspapers of the District or State, of which one shall be in the vernacular language within seven days and in addition this shall also be displayed in the project proponent’s 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 environment clearance portal.
- v. 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.

- vi. The project authorities shall inform to the Regional Office of the MOEFCC regarding commencement of mining operations.
- vii. The project authorities must strictly adhere to the stipulations made by the State Pollution Control Board and the State Government.
- viii. 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.
- ix. No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment, Forests and Climate Change (MoEF&CC).
- x. 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.
- xi. The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.
- xii. The Ministry reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.
- xiii. 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
- xiv. 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 No. 20.17

20.17: Himgir Coal Washery Project (area 13.52 Ha having capacity 5 MTPA) by M/s ACB (India) Ltd., located at Tehsil: Himgir; District: Sundargarh; State: Odisha – Amendment in EC – reg.

[Online Proposal No. IA/OR/CMIN/509672/2024; Consultant: Min Mec Consultancy Pvt. Ltd: NABET/ EIA/2225/IA 0096 (Rev.01) valid till 29.03.2025]

20.17.1: The instant proposal is for amendment in Environment Clearance granted to M/s Aryan Coal Beneficiation Pvt Ltd vide letter no. J-11015/925/2007-IA. II (M) dated 22.06.2009 for the project mentioned above. The said EC was later transferred to M/s ACB (India) Ltd by MoEF&CC vide letter dated 23.04.2019 and also amended by the Ministry vide letter dated 22.02.2022 and 22.02.2024.

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

S.No.	Details of Letter No.	EC/ Expansion EC/ Amendment in EC/ Validity extension/ Transfer of EC	Capacity (MTPA)	Area (ha)	Date of issuance	Status of implementation
1	Letter No.: J-11015/925/2007-IA.II(M)	Environment clearance	5.0	13.7	22.06.2009	100% capacity installed in 13.52 ha. However, production capacity of washery is limited to 2.5 MTPA since 22/02/2022.
2	Letter No.: J-11015/925/2007-IA.II(M)	EC transferred	5.0	13.52 (Area reduced from 13.7 to 13.52 Ha)	23.04.2019	
3	Letter No.: J11015/67/2013-IA.II(M)	EC amendment	5.0 (Restricted to 2.5 MTPA)	13.52	22.02.2022	
4	Letter No J-11015/925/2007-IA.II(M)	EC amendment order	5.0 (Restricted to 2.5 MTPA)	13.52	21.02.2024	

I. Chronology of events:

1. M/s Aryan Coal Beneficiation Private Limited was accorded EC for setting up of 5 MTPA Coal Washery by wet process at village Kanika, Tehsil Himgir, district Sundargarh, Orissa on 22/06/2009 under the provisions of EIA Notification, 2006. As per the EC accorded, total land area for the project was 13.7 Ha which comprises of CHP -1.5 ha, green belt - 4.0 ha, crushing yard – 0.1 ha, reservoir - 0.1 ha, washery equipment - 3 ha, building & infrastructure - 0.3 ha, conveyor system - 0.2 ha, storage yard for coal - 4.5 ha. It is stated in the said EC that “the area between Himgir Washery and the railway siding is forestland and hence a closed conveyor from the washery to the railway siding is presently not feasible, however efforts are presently on to establish a closed conveyor system between the coal washery and the railway siding within 3 years”. In view of this, following condition was prescribed in the EC:
(ii) The proponent shall establish a closed conveyor system within 3 years for transportation of washed coal between the washery and the railway siding at Himgir and prior forestry clearance shall be obtained under the provisions of the FC Act, 1980.
2. Meanwhile, project proponent submitted an application on 24/01/2019 seeking for following amendment in the conditions prescribed in the EC dated 22.06.2009:

Specific Condition No. (ii) - The proponent shall establish a closed conveyor system within 3 (three) years for transportation of washed coal between the Washery and the Railway Siding at Himgir and prior Forestry Clearance shall be obtained under the Provisions of the FC Act, 1980.

Specific Condition No. (iii) 'The entire coal rejects shall be used in an FBC based TPP. The linked FBC based Thermal Power Plant shall be commissioned within two years of operation of the washery.

The above proposal was appraised by the EAC in its meeting held on 21/02/2019 wherein the Committee had asked the project proponent for transfer of the said EC from M/s Aryan Coal Beneficiation Pvt Ltd to M/s ACB (India) Ltd. Accordingly, the EC transfer application was submitted by the proponent.

3. Ministry vide letter dated 23/04/2019 transferred the above EC dated 22/06/2009 from M/s Aryan Coal Beneficiation Private Limited to M/s. ACB (India) Limited on the same terms and conditions of the said EC.
4. The amendment proposal referred at para no. 2 above was again appraised in the 47th EAC meeting held on 22.08.2019 wherein EAC observed the following:

The EAC, noted that the proposed closed conveyor system for transportation of washery rejects and the FBC based thermal power plant for utilization of rejects, as stipulated in the said EC, were yet to be installed and/or commissioned. The washery still in operation, the Committee observed the same to be a serious non-compliance of the EC conditions. In view of the above, the proposal was not taken forward and the EAC desired that the Ministry may take appropriate action for the said non-compliance as per the extant norms/guidelines.

5. Thereafter, Ministry had issued Show Cause Notice (SCN) under section 5 of Environment (Protection) Act, 1986 on 17/02/2020. Proponent submitted reply to the SCN to the Ministry on 16/03/2020. Subsequently, Ministry had issued closure direction on 8/06/2021 to stop the operation of Himgir Coal Washery project also kept EC under abeyance.
6. Project Proponent submitted a detailed reply to the Ministry on 19/07/2021 stating various reasons and requested for revocation of closure notice. The matter was considered by the EAC in its 19th meeting held on 23/09/2021 wherein EAC recommended for amendment in the EC dated 22/06/2009 subject to stipulation of following environmental safeguards.

- i. **SPCB shall grant CTO of 2.5 MTPA production capacity for the aforesaid project.**
- ii. Road inside and at periphery of the washery plant shall be constructed of concrete only.
- iii. **As committed, project proponent to install belt conveyor system to transport washed coal within 2 years from the date of issue of this letter.**
- iv. Transportation of rejects shall only be in 40 to 50 tonne trucks only if railway siding is not present at utilization points. If railway siding is available upto FBC Power Plants/Thermal Power Plant, then no transportation shall be allowed by trucks.
- v. Transport of raw coal, clean coal and middling shall be by rail/road (in 40-50 tonnes dumpers only). Washed coal will be transported through private railway siding.
- vi. Raw coal, washed coal and rejects shall be stored in covered silos or in dome shaped storage facility. Fixed type high pressure sprinkler shall be installed in this storage yards.

- vii. 5 nos. long ranging Fog canon system (mist spraying) shall be installed to reduce the impact of air pollution on transportation route and Railway siding
 - viii. PP shall comply 33 % of the green belt plantation with trees within the plant boundary and plan of action to be submitted to Regional office of Ministry within six months. Accordingly, three Tier Green belt developments (of 50 mtrs width) in and around the periphery of washery within 3 years.
 - ix. Wild life conservation plan for schedule I species in EIA report with allocated fund shall be submitted to State Forest Department. Fund allocated for this purpose shall also submitted within six months and a copy of receiving to be submitted to Ministry Regional office within three months.
 - x. No Untreated waste water should be discharged to the natural stream)/water body and Water requirement for coal washery operations should not exceed 1200 KLD.
 - xi. PP should install High efficiency centrifuge, belt press filter, high frequency screening, thickener to separate coal fines and maximize water recovery.
 - xii. PP to install one continuous ambient air quality monitoring station (1 no. CAAQMS) at suitable location preferably on village side. The real time data so generated shall be uploaded on company website. In addition, data should also be displayed digitally at entry and exit gate of mine lease area for public display.
 - xiii. Third party monitoring by reputed institute for air quality shall be carried out at identified locations, both ambient and the process area, to arrive the impact at regular interval of 3 years.
 - xiv. Surface runoff from Storage yard of coal, reject dumps shall be stored in settling tank and later treated before any usage and quality shall be check frequently.
 - xv. Persons of nearby villages shall be given training on livelihood and skill development to make them employable.
 - xvi. The PP should provide proper roads, toilets facilities, plantation, solar lights, drinking water facilities, stationaries to nearby villages, school and colleges.
 - xvii. PP shall implement wind barrier of atleast 10 mtrs along the boundary mainly where habitation is present to mitigate air pollution.
 - xviii. 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.
7. Based on the EAC recommendations, Ministry vide letter dated 22/02/2022 amended the EC dated 22/06/2009 by stipulating the environmental safeguards as mentioned at para 6 above and also decided to revoke the abeyance of Environment Clearance dated 22/06/2009 and direction for Closure order issued to Project Proponent on 07/06/2021.
8. Project Proponent vide application dated 25/03/2023 submitted the EC amendment application for following: (i) to operate coal Washery with 5 MTPA capacity, (ii) and to transport washed coal from Washery to Kanika Railway Siding by road with covered trucks instead of belt conveyor system. The said proposal was considered by the EAC

in its 46th meeting held during 26-27th June 2023 wherein the Committee recommended for 4 MTPA capacity and 3 years period for installation of belt conveyor. The said recommendations were not accepted by the Ministry and PP was asked to apply once, the proposal reaches 2.5 MTPA. The PP submitted a letter dated 11/12/2023 on the Parivesh portal and requested for amendment in EC dated 22/06/2009 & its subsequent amendment dated 22/02/2022. The said proposal was placed in the EAC meeting on 17-18th January 2024. EAC after detailed deliberation on the proposal submitted and justification/reason thereto, for an amendment, the proposal was recommended for amending the additional specific condition of the letter dated 22.02.2022 as “As committed, by PP, project proponent shall install belt conveyor system to transport the coal by 22/02/2025.”

Further, regarding the restoration of 5 MTPA capacity, PP was asked to submit additional information for further consideration of the same. Which are as follows:

- i. Proposal for amendment in EC conditions shall be submitted afresh in PARIVESH 2.0 Portal
 - ii. Submission of fresh traffic study and one month baseline data
 - iii. Cost analysis of deployment of EV tippers Vs installation of belt conveyor system along with a time bound action plan
 - iv. Certified Compliance Report from concerned RO for compliance of 90% of the conditions
9. PP submitted a fresh application for amendment on 30.11.2024 in the EC amendment letter dated 21.02.2024. PP sought for following amendment:

EC condition as per the Amendment EC order dated 21.02.2024: “As committed, by PP, project proponent shall install belt conveyor system to transport the coal by 22/02/2025”

Amendment sought: Project proponent can transport Washed Coal from Washery to Kanika Railway Siding by road with covered trucks instead of belt conveyor system.

EC condition as per the Amendment EC order dated 21.02.2024: “EAC sought additional information on the request related to the increase in production capacity of 5 MTPA”

Amendment sought: Restoration of capacity of washery to 5.0 MTPA from 2.5 MTPA

Along with the above, PP also submitted the following documents as sought in the EC amendment letter dated 21.02.2024:

- a. Fresh Proposal for amendment in EC conditions through PARIVESH 2.0 Portal
- b. Fresh traffic study.
- c. One month baseline data
- d. Cost analysis of deployment of electric tippers vis a vis. installation of belt conveyor system for transportation of mineral from Washery to railway siding, along with a time bound action plan
- e. Certified Compliance Report from concerned RO for compliance of 90% of the conditions
- f. Action Taken report

However, during the EAC meeting, the proponent made a request before the EAC instead of foregoing the implementation of conveyor belt, the proponent sought for another extension for installation of conveyor belt till 31.03.2027. Also requested for restoration of capacity of washery to 5.0 MTPA from 2.5 MTPA.

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

20.17.3: W.r.t the previous approvals, PP submitted the actual production details of the concerned coal washery and submitted that the washery became operational from 2011 onwards. CTO renewal has been obtained from the OSPCB vide letter no. 4749/IND-I-CON-6640 dated 30.03.2024 and valid up to 22.02.2025 for 2.5 MTPA washed coal. Details of the same are as follows:

Year	Actual Coal production in MTPA	Planned Coal production in MTPA as per Environmental Clearance	Excess Production
30.03.2024- 22.02.2025	2.01	5 MTPA (Restricted to 2.5 MTPA vide EC amendment dated 22/02/2022)	Nil

20.17.4: The details of the condition 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
Condition as per EC amendment order dated 21.02.2024	As committed, by PP, project proponent shall install belt conveyor system to transport the coal by 22/02/2025.	Project proponent shall install belt conveyor system by 31.03.2027. <i>(modified after submission on PARIVESH portal)</i>	<p>Company has availed One Time Restructuring scheme (OTR) in accordance with RBI Guidelines dated 06.08.2020 for resolution of stressed assets due to Covid-19 & withdrawal of MOEF&CC notification which required mandatory washing of coal to be transported over 500 km.</p> <p>As per the said RBI circular, the company was required to meet certain ratios which the Company was in compliance except one financial ratio of Total Outside Liability/ Adjusted Tangible Network (TOL/ATNW).</p> <p>The loan account has been serviced regularly without any delay of any nature whatsoever. However, the account of ACBIL was downgraded by its Lenders due to non-achievement of TOL/ATNW ratio despite not having any financial default.</p> <p>The downgrading of account led to restriction on working capital and other credit facilities leading to restrained cash flows and financial stress, therefore ACBIL is not able to start the construction of conveyor.</p>
Specific	SPCB shall grant	Restoration of	Due to underutilization of washing capacity

Specific/ General Condition No	Details of Conditions as per EC	Amendment Sought	Justification
Condition No. (i) in EC amendment dated 22.02.2022 and information required as per EC amendment order dated 21.02.2024	consent to Operate of 2.5 MTPA production capacity for the aforesaid project EAC sought additional information on the request related to the increase in production capacity of 5 MTPA	capacity of washery to 5.0 MTPA from 2.5 MTPA Submitted the requisite information	(restricted to 50%), fixed costs are higher, making it difficult to recover costs despite ACBIL having adequate orders/ commitment letters in hand (to function at 100% capacity) Lenders were not extending any financing for any augmentation of the project in view of the above restrictions / constraints The debt resolution plan submitted by the Company to overcome financial stress is in advanced stage of approval Hence, request for restoration of 100% capacity to 5 MTPA is being submitted to MOEF&CC.

20.17.5: Traffic Impact Study Report: The study has been conducted to assess the impact of coal transportation by road from Himgir Washery of ACB (India) Ltd. located in Village Himgir, Tehsil Himgir, District Sundargarh, Odisha to Kanika Railway Siding located in Tehsil Himgir, District Sundargarh, Odisha over a distance of 3.12 km. ACB (India) Ltd. is currently transporting 0.71 MTPA coal and 0.23 MTPA of rejects from washery to Kanika siding and is proposing to transport an additional 2.88 MTPA of coal and 0.93 MTPA of reject by road through 45 tonne capacity trucks/ tippers from washery to Kanika Railway Siding. Corresponding to & fro trucks/ tippers movement would be maximum 550 per day for 24 hours on all days.

- **From the aspect of Traffic Volume and capacity of the road:** It is observed that the present road widths are sufficient to carry existing public traffic volume and proposed traffic volume (due to 2.88 MTPA coal and 0.93 MTPA rejects) in future upto April 2034. The current maximum carrying capacity utilization of the roads vary between 10.9% and 46.9% at a level of service B and after 10 years (by April 2034) it will increase to 20.5 to 57.9%.
- **From the aspect of Impact on Ambient Air quality:** It is observed that the plying of trucks/ tippers would lead to an increase in the amount of air pollutant emissions. The maximum resultant air quality, after addition of the maximum incremental GLC values to maximum observed baseline values due to plying of coal carrying trucks/ tippers will be 97.90 µg/m³ for PM₁₀, 38.56 µg/m³ for PM_{2.5}, 9.45 µg/m³ for SO₂ and 18.46 µg/m³ for NO₂. It has been found that the concentration of all parameters would remain within the prescribed limits except PM₁₀, which is just crossing the limit. Therefore, additional control measures such as more frequent sprinkling than present, installation of fixed sprinklers and fogging machine in the critical section can bring the value of PM₁₀ further down.

- **From the aspect of Impact on Ambient Noise:** It is observed that the sound level from the movement of a trucks/ tippers passing on the road is approximately 90 dB(A). This will be a short-term increase, prevailing only at the time of passage of trucks/ tippers. The overall Leq will be lower. At a distance of 7 m, the Leq is anticipated to be approximately 65 dB(A), falling within the limits for commercial areas, which is the usual case along roads. The noise level monitored in the area, during the study period, was found within the permissible limit of the National Ambient Air Quality Standards with respect to noise both during day time and night time for the type of land uses where monitoring was carried out. Since monitoring was done along the roadside and not away from the road, when compared to residential area standards, they exceed at the siding and at the Washery. The minimum and maximum noise level observed during day time are ranged from 38.7 dB(A) to 68.4 dB(A), respectively and during night time from 37.6 dB(A) to 61.2 dB(A), respectively.

Recommendations:

Coal transportation is already being done to Kanika Railway Siding by a direct road from Himgir Washery to Kanika Railway Siding and is taking several pollution control measures on that route. Based on the study, observations and findings, the following mitigation are recommended for implementation on proposed route from washery to Kanika Railway Siding:

- i. Carry out plantation along the route for dust and noise control on either side of road, in consultation with forest department, wherever there are gaps.
- ii. The trucks/ tippers used for transportation of coal will be covered with tarpaulin and stamped
- iii. Trucks/ tippers with valid PUC certification using unadulterated diesel will be allowed to ply.
- iv. Only vehicles having fitness certificate will be allowed to ply
- v. Make provision for tyre washing at exit point of washery and siding.
- vi. Deployment of industrial sweeper on roads for cleaning dust
- vii. Sensitising the drivers about prevention of road kill and handling of wildlife encounters while driving through forest areas.
- viii. AAQ monitoring near the colony of ACB (India) Ltd. shall be carried out for PM₁₀, PM_{2.5}, NO_x & SO₂ at 3-monthly intervals
- ix. Increase frequency of water sprinkling at railway siding, install fixed sprinklers at the entry point of road & maintain the morrum road very diligently
- x. Operate the fogging machine on the morrum road, which was also evidenced during survey
- xi. No honking along the forest stretch or colony of ACB (India) Ltd.
- xii. All trucks/ tippers will undergo preventive maintenance as per manufacturers schedule and it will be ensured that their silencers are maintained and operational at all times.
- xiii. Plantation shall be carried out along side of the road for noise attenuation and control of air borne dust, in consultation with forest department, wherever possible, where gaps are found.
- xiv. Installation of speed bumps near colony of ACB (India) Ltd. to ensure slow driving near settlement.
- xv. Awareness to trucks/ tippers drivers & local people through hoardings on roads regarding road safety.

- xvi. Contact number of crane operators along the routes shall be made available to all vehicle drivers.
- xvii. All trucks/ tippers will carry first aid kits and drivers will be trained in first aid in case of emergency
- xviii. Creating awareness for road safety to local population and drivers and ensuring availability of ambulance facility for the accident victims, if required
- xix. Trucks/ tippers will be prohibited to stop in inhabited areas except in case of break-down.
- xx. Trucks/ tippers will follow a “no horn, low speed” protocol while passing through inhabited stretches.
- xxi. Display prominent signboards at the wildlife crossing points
- xxii. Sensitising the drivers about prevention of road kill and handling of wildlife encounters while driving through forest areas.
- xxiii. Speed governors will be installed in the coal transporting trucks/ tippers

20.17.6: Certified Compliance Report: The Status of compliance of earlier EC was obtained from Regional Office, Bhubaneswar vide letter no. file no.101-454/24/EPE dated 15.03.2024 in the name of M/s. M/s ACB (India) Ltd. The Action taken report regarding the partially/non-complied condition was submitted to Regional officer MoEF&CC, Bhubaneswar vide letter no. ACBIL/HMG/ENV/CR/2024-25/025 dated 27.04.2024. The details of the observations made by RO in the CCR report dated 15.03.2024 along with its re-assessment / present status as furnished by the PP is given as below:

S. No.	Details of the EC and the condition	Condition as per EC	Certified Compliance Report by MoEF&CC RO, Bhubaneswar vide letter no. file no. 101-454/24/EPE dated 15.03.2024	Action Taken Report submitted by the proponent
1	EC dated 22.06.2009, general condition no. xi	The funds earmarked for environmental protection measures shall be kept in separate account and shall not be diverted for other purpose. Year-wise expenditure shall be reported to this Ministry and its Regional Office at Bhubaneswar	The funds under a separate budget head have been earmarked for environmental protection. These funds are exclusively for environment management/pollution control measures and are not utilized for any other purpose. There is no separate bank A/c. PP informed that the unit has spent Rs.55.00 lacs (Rupees fifty-five lacs) only towards Environmental Protection Measures (EPM) for the FY 2022-2023.	PP has opened a separate bank account to keep funds earmarked for Environment Protection Measures. Details of the same are submitted.

S. No.	Details of the EC and the condition	Condition as per EC	Certified Compliance Report by MoEF&CC RO, Bhubaneswar vide letter no. file no. 101-454/24/EPE dated 15.03.2024	Action Taken Report submitted by the proponent
			Further, the unit also spent Rs 21,16,309.00 (Rupees twenty-one lakhs sixteen thousand three hundred nine) only for the FY 2023-2024.	
2	Additional specific condition no. iii of EC amendment dated 22.02.2022	As committed, project proponent to install belt conveyor system to transport washed coal within 2 years from date of issue of this letter.	PP stated that they have submitted an application at MoEF&CC, Coal Mining Sector for amendment of this condition from belt conveyor system to Road transport system.	Obtained amendment vide EC amendment order dated 21.02.2024
3	Additional specific condition no. viii of EC amendment dated 22.02.2022	PP shall comply 33 % of the green belt plantation with trees within the plant boundary and plan of action to be submitted to Regional office of Ministry within six months. Accordingly, three Tier Green belt developments (of 50 mtrs width) in and around the periphery of washery within 3 years.	As per report the total project area is 13.52 Ha. Out of 13.52 Ha. Area, 4.48 Ha which is 33.13 % of total land is planted with around 11,500 saplings. 3 Tier plantation has been developed of 10 meters by 12 meters width around the periphery of the project, along internal haul road, along main transportation roads and approach roads of the Washery.	Total project area is 13.52 Ha. Plantation/ greenbelt developed on 4.48 Ha, which is more than 33% of total land with around 11,500 saplings till date and being maintained. A 3-tier plantation of 10 meters to 12-meter width along the compound wall of the project, along internal haul road, along main transportation roads, approach roads to the Washery have been developed. Length of the Compound wall is 1700 meters. Further, the gap filling of trees in the plantation area is carried out during each monsoon season. PP is submitting the Annual Plantation report to OSPCB by 30th April of every year. The species planted are local which includes Mango, Jamun, Bel, Baula, Chakunda, Krushnachuda, Karanja, Radhachuda, Maha

S. No.	Details of the EC and the condition	Condition as per EC	Certified Compliance Report by MoEF&CC RO, Bhubaneswar vide letter no. file no. 101-454/24/EPE dated 15.03.2024	Action Taken Report submitted by the proponent
				Neem, etc.
4	Additional specific condition no. xii of EC amendment dated 22.02.2022	PP to install one continuous ambient air quality monitoring station (1 no. CAAQMS) at suitable location preferably on village side. The real time data so generated shall be uploaded on company website. In addition, data should also be displayed digitally at entry and exit gate of mine lease area for public display	CAAQMS is not installed. Data is being displayed digitally at entry point.	PP has placed order in favour of M/s One Door Techno Consultant LLP for installation of one number of CAAQMS for measurement of PM10, PM 2.5, SO2 and NOx. The installation work will be completed by 31.03.2025

20.17.7: Baseline Data: As per the recommendation of the EAC, PP submitted the one month baseline data as follows:

Period	14.05.2024 To 13.06.2024 (One Month Monitoring Data)	Additional Study (if any)
AAQ Parameters at 03 Locations (min and max)	PM _{2.5} : 26.27 to 37.26 µg/m ³ PM ₁₀ : 58.47 to 84.7 µg/m ³ SO ₂ : 6.6 to 9.44 µg/m ³ NO _x : 10.1 to 18.34 µg/m ³	
Incremental GLC Level	PM ₁₀ : 28.5 µg/m ³ (Level at 30 m from transport route in East direction) PM _{2.5} : 2.90 µg/m ³ (Level at 30 m from transport route in East direction) SO ₂ : 0.044 µg/m ³ (Level at 30 m from transport route in East direction) NO _x : 0.246 µg/m ³ Level at 30 m from transport route in East direction)	
Ground water quality at 2 Locations	pH: 6.79 to 6.91, Total Hardness: 28 to 32 mg/l, Chlorides: 22.67 to 24.64 mg/l, Fluoride: <0.1 mg/l, Heavy metals (Mn): 0.7 to 0.8 mg/l.	
Surface water quality at 2 Locations	pH: 7.02 to 7.12; TSS: 8.8 to 19.7; Heavy Metals: 0.07 to 0.08; BOD: 3.8 to 3.9 mg/l and COD: 12.0 to 16.0 mg/l, Fluoride: <0.1 mg/l and Chloride: 20.7 to 22.67 mg/l	
Noise levels Leq (Day and Night)	42.20 to 68.4 dBA for the daytime and 37.10 to 61.2 dBA for the Night time.	
Traffic Assessment Study findings	Traffic study has been conducted at four location (1) Near ACB Washery Main Gate on State Highway (1.3 km), (2) MCL Road after turning point from State Highway (1.8 km), (3) PWD road through forest (2.5 km), (4) Before ACB Railway Siding (3.1 km from the washery site).	Prepared "Traffic study report on assessment of impact due to transportation of coal by road from Himgir

	<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>Near ACB Washery Main Gate on State Highway</td> <td>322</td> <td>2917</td> <td>0.11</td> <td>A</td> </tr> <tr> <td>MCL Road after turning point from State Highway</td> <td>293</td> <td>1250</td> <td>0.23</td> <td>A</td> </tr> <tr> <td>PWD road through forest</td> <td>34</td> <td>500</td> <td>0.07</td> <td>A</td> </tr> <tr> <td>Before ACB Railway Siding</td> <td>78</td> <td>1437</td> <td>0.05</td> <td>A</td> </tr> </tbody> </table> <p>Transportation of mineral will be done 100% by road. Existing PCU is 322 PCU/hr.</p> <p>PCU load after proposed project will be 322 (Existing) + 67 (Additional) PCU/hr (peak at Near ACB Washery Main Gate on State Highway) and level of service (LOS) will be:</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>Near ACB Washery Main Gate on State Highway</td> <td>389</td> <td>2917</td> <td>0.13</td> <td>A</td> </tr> <tr> <td>MCL Road after turning point from State Highway</td> <td>362</td> <td>1250</td> <td>0.29</td> <td>A</td> </tr> <tr> <td>PWD road through forest</td> <td>102</td> <td>500</td> <td>0.20</td> <td>A</td> </tr> <tr> <td>Before ACB Railway Siding</td> <td>147</td> <td>1437</td> <td>0.10</td> <td>A</td> </tr> </tbody> </table> <p><i>Note: Capacity as per IRC:64:1990 Guideline for capacity for roads</i></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	Near ACB Washery Main Gate on State Highway	322	2917	0.11	A	MCL Road after turning point from State Highway	293	1250	0.23	A	PWD road through forest	34	500	0.07	A	Before ACB Railway Siding	78	1437	0.05	A	Road	V (Volume in PCU/hr)	C (Capacity in PCU/hr)	Proposed V/C Ratio	LOS	Near ACB Washery Main Gate on State Highway	389	2917	0.13	A	MCL Road after turning point from State Highway	362	1250	0.29	A	PWD road through forest	102	500	0.20	A	Before ACB Railway Siding	147	1437	0.10	A	<p>Coal Washery project (5 MTPA) located in village Himgir, Tehsil Himgir, District Sundargarh, Odisha to Kanika Railway Siding located in Tehsil Himgir, District Sundargarh, Odisha”</p>
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<p>Flora and fauna</p>	<p>Presence of schedule I fauna and endangered Flora if any. If yes, status of site specific wildlife conservation plan.</p>	<p>Schedule I species : Four Horned Antelope, Indian Elephant, Mouse Deer, Honey Badger, Sloth Bear, Peafowl, Spotted Owllet, Bengal Monitor Lizard, Python, Yellow Monitor Lizard.</p> <p>Approval of Site specific Wildlife conservation plan with vide letter No 6949/1W-SSP-177/2015 dated 06.08.2015</p> <p>Budget recommended was Rs. 9.914 lakhs for activities to be implemented by user agency and Rs. 44.061 lakhs for activities to be</p>																																																		

		implemented by DFO, Sundargarh Division.
Water requirement	Source of Water: Ground water and surface water Ground Water Intersection: No Water Requirement: 280 KLD NOC (For surface water): Surface water Permission obtained from Water Resources Department, Govt. of Odisha with vide letter no. 6604/WR dated 04.03.2020 and renewed on 01.09.2023 which is valid upto 3.10.2026 for 0.123 cusec (300.9 KLD) of surface water. NOC (Ground Water): 10 KLD permission vide letter no CGWA/NOC/IND/REN/1/2022/7178 dated 10.07.2022 valid upto 09.07.2025.	

20.17.8: Cost analysis of deployment of EV tippers Vs installation of belt conveyor system along with a time bound action plan:

Sl. No.	Description	Road Transport		Conveyor Belt	
01	Length of Transportation	3.12 Kms from Washery Main Gate to Railway Siding.	On existing MCL Coal Transport 4 Lane Road. No extra payment to be made by ACBIL to Govt. for using the said stretch of Road.	Around 2.0 Kms to cover 1.86 Kms ground distance from Washery to Railway Siding	An additional expense to Forest Department on various accounts as the said stretch of land is Forest Land to be used for non-Forest Purpose.
02	Possibility of Spillage during regular Operation / System	Nil	Transportation will be in sealed tarpaulin covered Trucks	Negligible at Transfer Points only during chute jamming.	Fugitive dust that could be generated can be under control by using external canon spray system.
03	Possibility of Spillage during Breakdown of Operation / System	Nil	As breakdown Trucks are not used for transportation.		During Unavoidable Breakdown
04	Fugitive Emission from Service Road	NA	No Movement on Service Road	Some Emission during Four Wheelers Movements on Service Road below the Conveyor Belt for regular inspection.	Regular inspection is a routine activity for Conveyor Belt System.
05	Capital Cost for Installation of the System	Nil	Expenses for engaging Vehicles for washed coal transportation from Washery to Railway Siding are to be reimbursed from the Customer.	Rs.40.336Cr. Details Given in Table No. – 02	It will be a huge additional cost towards ACBIL which will increase the cost of washing and ACBIL cannot

Sl. No.	Description	Road Transport		Conveyor Belt	
			Therefore, No cost in the account of ACBIL.		compete in the Market.
06	Annual Operating and Maintenance Cost	Rs.22.85 Cr.	Expenses for engaging Vehicles for washed coal transportation from Washery to Railway Siding are to be reimbursed from the Customer as per contract agreement. Therefore No cost in the account of ACBIL.	Rs.30.12 Cr. Details Given in Table No. – 03	Additional Expenses of around Rs.7.27 Cr. has to be borne by ACBIL

ESTIMATED CAPITAL COST FOR INSTALLATION OF CLOSED CONVEYOR BELT SYSTEM FOR TRANSPORT OF WASHED COAL

S. NO.	HEADS OF EXPENDITURE ESTIMATED	Total Amount in Rs. Cr.
1	ESTIMATED CAPITAL COST FOR MECHANICAL EQUIPMENT	17.129
2	ESTIMATED CAPITAL COST FOR ELECTRICAL EQUIPMENT	2.600
3	ESTIMATED CAPITAL COST FOR CIVIL WORKS	2.638
4	ESTIMATED CAPITAL COST FOR STRUCTURAL STEEL	17.970
5	TOTAL	40.336

Details of Operating and Maintenance Expenses for Closed Conveyor Belt System for 4 MTPA Washed Coal Transport from Washery to Railway Siding

Conveyor Belt Operating Cost	Per Mt in Rs.	Total Amount in Rs. Lacs	Total Amount in Rs. Cr
Electricity	4.30	172.00	1.72
Salary	0.78	31.20	0.31
Stores - Spare	0.81	32.40	0.32
Administrative 2% of Capital	1.86	74.40	0.74
Misc. 1 - M & E (0.5% of Capital)	0.21	8.40	0.08
Misc. 2 Civil & Structure (2% of Capital Cost)	1.03	41.20	0.41
Misc. 3 (2% of Wages and Salary)	0.02	0.80	0.01
Depreciation	5.04	201.60	2.02

Conveyor Belt Operating Cost	Per Mt in Rs.	Total Amount in Rs. Lacs	Total Amount in Rs. Cr
Interest on Term Loan	9.08	363.20	3.63
Interest on 3 months Working capital	0.27	10.80	0.11
Operating Cost / MT	23.40	936.00	9.36
Annual Operating Cost of Transport and rehandling of Washed Coal - (By Conveyor Belt)			
Cost of TPT 0-1 Washery End (Per MT)	19.32	772.80	7.73
Cost of TPT 0-1 Siding End (Per MT)	19.32	772.80	7.73
Cost of Re-handling (Per Hour)	11.76	470.40	4.70
Interest of Working Capital 3 Month	1.51	60.40	0.60
Operating Cost / MT	51.91	2,076.40	20.76
Total Operating Cost / MT	75.31	3012.40	30.12
Annual Operating Cost of Transport of Washed Coal - (By Road Transport)			
Washery to Railway Siding (0-3)	45.37	1,814.80	18.15
Cost of Re-handling	11.76	470.40	4.70
Operating Cost / MT	57.13	2,285.20	22.85

20.17.9: Justification for delay in implementation of conveyor and restoration of 5 MTPA for washery: Company has availed One Time Restructuring scheme (OTR) in accordance with RBI Guidelines dated 06.08.2020 for resolution of stressed assets due to Covid-19 & withdrawal of MOEF&CC notification which required mandatory washing of coal to be transported over 500 km. As per the said RBI circular, the company was required to meet certain ratios which the Company was in compliance except one financial ratio of Total Outside Liability/ Adjusted Tangible Networth (TOL/ATNW). The loan account has been serviced regularly without any delay of any nature whatsoever. However, the account of ACBIL was downgraded by its Lenders due to non-achievement of TOL/ATNW ratio despite not having any financial default. The downgrading of account led to restriction on working capital and other credit facilities leading to restrained cash flows and financial stress, therefore ACBIL is not able to start the construction of conveyor.

Due to underutilization of washing capacity (restricted to 50%), fixed costs are higher, making it difficult to recover costs despite ACBIL having adequate orders/ commitment letters in hand (to function at 100% capacity). Lenders were not extending any financing for any augmentation of the project in view of the above restrictions / constraints. The debt resolution plan submitted by the Company to overcome financial stress is in advanced stage of approval.

Restoration to 5 MTPA will enable the Company to generate adequate cash flow. After approval of debt restructuring along with restoration to 5 MTPA capacity, the Company is optimistic of installing the conveyor system within 2 years. Estimated cost for the same is Rs. 44.336 crore. Till such time the conveyor becomes operational, road transport of washed coal from Washery to railway siding using tarpaulin covered trucks will be through a stretch of 3.1 km, which is passing through state highway and MCL road, predominantly. There are no villages along this route.

Precautions being taken by Company during the interim period of road transportation

1. The company will ensure implementation of environmental protection measures while carrying out Road Transportation of Washed Coal to the tune of total 5.00 MTPA of throughput quantity till construction of conveyor.
2. The road are cleaned on daily basis to avoid fugitive emission using Vacuum Road Sweeper.
3. Dedicated staff for traffic control all throughout transportation at three locations i.e. at factory gate, at a distance of 1.3 kms & at a distance of 2.6 kms from Washery
4. Water Fogging System for dust suppression along the route using truck mounted long ranging Fog canon system (mist spraying) has already been implemented
5. Company will ensure regular maintenance of the vehicles
6. The road are cleaned on daily basis to avoid fugitive emission using Vacuum Road Sweeper.

20.17.10: Details of court case: PP reported that there is no legal issue/ no 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.

20.17.11: Written Submission: During the meeting PP submitted the following:

1. Coal dispatch details for the years 2022-23, 2023-24, and 2024-25 (up to December 2024) have been submitted. PP submitted that due to restriction in utilization of washery, dispatch from Hingir washery/siding will be around 2.5 MTPA by March'2025. Next year onwards, with work orders in hand totaling up to **approx. 5.0 MTPA**, we are confident to achieve the production to the full capacity i.e. 5.00 MTPA provided the necessary approvals for the restoration of capacity is made available.
2. PP had submitted the power point presentation (PPT) in PARIVESH 2.0 Portal wherein the option for transportation of washed coal from washery to siding through EV instead of conveyor system was also indicated. During the presentation, PP shared the capex cost of EV vehicles is significantly higher as compared to installation of conveyor system (approximately ₹80 crores for 30 Nos EV vehicles). Besides, these vehicles are yet to be fully proven under tough Indian conditions. Notwithstanding the use of EVs, the expenses for fugitive dust emission control for the road transportation shall continue to be incurred. Considering the above, PP has decided to opt for the covered conveyor system and propose to complete the construction of the conveyor system by 31.03.2027. Affidavit for the same has been submitted.

3. PP has submitted an undertaking to complete the installation of the Continuous Ambient Air Quality Monitoring System (CAAQMS) by 31.03.2025. Civil works for the system are almost complete, and the procurement process of the equipment is in progress. We are confident that the system will be fully operational well before the deadline.
4. The existing EC approval mentions 13.52 hectares for washery operations. However, the 2.699 hectares required for the conveyor belt system have not been considered. PP requested to include the same in the EC amended letter.
5. Comprehensive plantation plan near the proposed conveyor system has been submitted.

Considering the above, PP requested to extend the timeline for installation of conveyor belt till 31/03/2027 and restore the Himgir Washery's capacity to 5.0 MTPA.

Observations and deliberation of the Committee:

20.17.12: The EAC noted the following:

1. Himgir Coal Washery Project (area 13.7 Ha having capacity 5 MTPA) originally accorded EC vide letter No.: J-11015/925/2007-IA.II(M), dated 22.06.2009 in the name of M/s. Aryan Coal Beneficiation Pvt. Ltd.
2. Later, vide letter no. J-11015/925/2007-IA.II(M), dated 23.04.2019, the same got transferred to M/s ACB (India) Limited for the reduced project area of 13.52 ha.
3. Washery became operational from 2011 onwards. CTO renewal has been obtained from the OSPCB vide letter no. 4749/IND-I-CON-6640 dated 30.03.2024 and valid up to 22.02.2025 for 2.5 MTPA washed coal.
4. 13.52 Ha project land does not involve any forestland. However, the land on which conveyor belt is being constructed involves 2.699 ha on which Stage – II FC has been obtained by the proponent vide letter no. 5-ORB171/2013-BHU, dated 28.06.2016. The land on which conveyor is being constructed does not form part of the project area of the washery.
5. Committee taken cognizance of the chronology of events as mentioned para no. 20.17.2. As per the last amendment accorded on 22/02/2024, the "*As committed, by PP, project proponent shall install belt conveyor system to transport the coal by 22/02/2025.*"

Further, regarding the restoration of 5 MTPA capacity, PP was asked to submit following additional information for further consideration of the same. Which are as follows:

- i. Proposal for amendment in EC conditions shall be submitted afresh in PARIVESH 2.0 Portal
- ii. Submission of fresh traffic study and one month baseline data
- iii. Cost analysis of deployment of EV tippers Vs installation of belt conveyor system along with a time bound action plan
- iv. Certified Compliance Report from concerned RO for compliance of 90% of the conditions

10. Proponent submitted all the additional details sought by the committee vide application dated 30.11.2024. Committee deliberated on all the information submitted by the proponent.
11. Committee deliberated on the Traffic Impact Assessment Report submitted by the proponent. Committee observed that coal transportation by road from Himgir Washery to Kanika Railway Siding is over a distance of 3.12 km. It is currently transporting 0.71 MTPA coal and 0.23 MTPA of rejects from washery to Kanika siding and is proposing to transport an additional 2.88 MTPA of coal and 0.93 MTPA of reject by road through 45 tonne capacity trucks/ tippers from washery to Kanika Railway Siding.
Nos. of to & fro trucks/ tippers movement would be maximum 550 per day for 24 hours on all days if the washery capacity increased to 5 MTPA.
12. Committee deliberated on the increase in air pollution due to increase in road transportation. The maximum resultant air quality, after addition of the maximum incremental GLC values to maximum observed baseline values due to plying of coal carrying trucks/ tippers will be 97.90 $\mu\text{g}/\text{m}^3$ for PM_{10} , 38.56 $\mu\text{g}/\text{m}^3$ for $\text{PM}_{2.5}$, 9.45 $\mu\text{g}/\text{m}^3$ for SO_2 and 18.46 $\mu\text{g}/\text{m}^3$ for NO_x . It has been found that the concentration of all parameters would remain within the prescribed limits except PM_{10} , which is just crossing the limit. Committee opined that all the recommendations of the Traffic Impact Assessment Report shall be complied by the proponent.
13. Committee also deliberated on the Ambient Noise Levels due to movement of trucks for coal transportation through road. Committee opined that avenue plantation for mitigation of the noise levels as proposed by the proponent shall be carried out before the monsoon of 2025. Committee also sought a plan for plantation to be developed on both the sides of the conveyor belt from washery to railway siding and PP submitted the same.
14. Committee deliberated on the Certified Compliance Report and the Action Taken Report submitted by the proponent thereon. PP obtained CCR from Regional Office, Bhubaneswar vide letter no. file no.101-454/24/EPE dated 15.03.2024 in the name of M/s. M/s ACB (India) Ltd. The Action taken report regarding the partially/non-complied condition was submitted to Regional officer MoEF&CC, Bhubaneswar vide letter no. ACBIL/HMG/ENV/CR/2024-25/025 dated 27.04.2024.
Committee opined that, the additional specific condition no. xii of EC amendment dated 22.02.2022 regarding installation of CAAQMS shall be complied by the proponent within next 3 months.
15. Committee deliberated on the cost analysis of deployment of EV tippers vs. installation of belt conveyor system along with time bound action plan for the same. Committee observed that, though the installation of conveyor is costly in terms of financial outlay, the same is more feasible from the perspective of environment and nearby habitation. Hence, committee opined to continue with the condition for installation of conveyor belt only in place of EV tippers.
16. Committee further deliberated on the justification for delay in installation and observed that due to financial constraints, the PP was unable to meet the requirement of conveyor

belt and could not obtain loan from the banks as the washery is underutilizing its capacity. Restoration to 5 MTPA will enable the Company to generate adequate cash flow and after approval of debt restructuring along with restoration to 5 MTPA capacity, the Company is optimistic of installing the conveyor system within 2 years. However, no tangible action has been presented by the proponent for installation of closed belt conveyor.

17. Project proponent is frequently seeking amendment for amendment in the EC dated 22/06/2009 & its subsequent amendments for installation of conveyor belt of 2 kms length since 22/06/2009 citing several reasons and no tangible action has been taken by the proponent on ground till date for construction of conveyor belt system. In order to ensure timely construction & completion of conveyor belt, the timeline of 2 years sought by the proponent cannot be acceded at one go. In view of this, the Committee opined that timeline for road transportation of washed coal from 5 MTPA coal washery may be extended only up to 31/08/2025. Project proponent shall submit a fresh application for road transportation of washed coal beyond 31/08/2025 by submitting a fresh CCR report from Regional Office along with the time bound action plan for installation of closed belt conveyor with physical & financial out lay and credible document indicating the commencement of construction of closed belt conveyor system at site. Based on the said application and after ensuring the progress in the installation of closed belt conveyor system at site, further extension of timelines for road transportation of washed coal shall be considered by the EAC.
18. Committee also deliberated on the precautions being taken by company during the interim period of road transportation and opined that the same shall be continued till the commissioning of the conveyor belt.
19. There are no court cases on the project and the show cause notice which was issued by the ministry vide letter dated 17.02.2021 has been closed.
20. Committee found the written submission made by the proponent satisfactory.

Recommendations of the Committee:

20.22.13: 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-11015/925/2007-IA.II(M) dated 22.06.2009 & its subsequent amendment dated 22.02.2022 & 21.02.2024 as detailed below **subject to stipulation of following additional specific conditions and uploading of written submissions on PARIVESH portal & Stage I & II FC for diversion of 2.699 Ha of forest land.** Other terms and conditions prescribed in EC dated 22.06.2009, 22.02.2022 and 21.02.2024 shall remain unchanged.

Reference in EC letter	Description as per approved EC letter	Amendment sought in EC	Recommendation of EAC
Condition as per EC amendment	As committed, by PP, project proponent shall install belt conveyor	Project proponent shall install belt conveyor system by 31.03.2027.	Partly agreed Concerning the changes in condition of EC amendment

Reference in EC letter	Description as per approved EC letter	Amendment sought in EC	Recommendation of EAC
order dated 21.02.2024	system to transport the coal by 22/02/2025.		order dated 21.02.2024, Committee recommended to amend the condition as follows: <i>“Proponent shall install the conveyor belt system by 31.03.2027 as committed. However, road transportation washed coal from 5 MTPA Coal washery is permitted till 31/08/2025 only and CTO for the same shall be restricted to 31/08/2025 by OSPCB”</i>
Specific Condition No. (i) in EC amendment dated 22.02.2022 and information required as per EC amendment order dated 21.02.2024	SPCB shall grant consent to Operate of 2.5 MTPA production capacity for the aforesaid project EAC sought additional information on the request related to the increase in production capacity of 5 MTPA	Restoration of capacity of washery to 5.0 MTPA from 2.5 MTPA	Agreed Concerning the changes in condition of EC amendment dated 22.02.2022, Committee recommended to amend the condition as follows: <i>“SPCB shall grant Consent to Operate of 5.0 MTPA coal washery capacity till 31/08/2025”.</i>

Additional specific conditions:

- i. Ambient Air Quality (AAQ) and Noise quality data along the entire coal transportation route shall be monitored and the data shall be submitted along with the six-monthly compliance to the concerned Regional Office and also kept on the web portal of the company.
- ii. Proponent shall comply with all the recommendations of the traffic impact assessment report submitted. Compliance in this regard shall be submitted along with the six monthly compliance to the concerned Regional Office and also kept on the web portal of the company.
- iii. Three tier Plantation plan submitted by the proponent for both the sides of the proposed conveyor belt from washery to railway siding shall be implemented and plantation for this year shall be completed during the monsoon season of 2025. In addition to this, PP shall provide 50,000 plant saplings with 4 feet tall fruit bearing plants to farmers for plantation in barren and agriculture lands in the study area every year for 5 years with incentive to improve the green cover in and around the washery area.
- iv. PP shall adopt wildlife protection measures including creating awareness among the drivers, sensitizing the drivers about prevention of road kills and handling of wildlife encounters while driving through forest areas and speed governors must be installed in the coal transporting trucks/dumpers.
- v. Project proponent shall install one continuous ambient air quality monitoring station at suitable location in consultation with OSPCB by March, 2025 for monitoring the common/criteria pollutants such as PM₁₀, PM_{2.5}, SO₂, NO_x 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 coal washery for public display.

Agenda No. 20.18

20.18: Amlohri Opencast Project (area 2175 Ha with increase in production capacity from 14 MTPA to 15 MTPA) by M/s Northern Coalfields Limited, located at Village: Barauha; District: Singrauli; State Madhya Pradesh – For environment clearance dated 26/07/2022 issued under O.M. No. IA3-22/10/2022-IA.III dated 07/05/2022 [Availed total 50% relaxation of OM under clause 7(ii) of EIA Notification, 2006]

[Online Proposal No. IA/MP/CMIN/415763/2023; Consultant: CMPDIL; NABET/EIA/22-25/SA0223 valid till 08/04/2025]

20.18.1: M/s Northern Coalfields Limited applied vide Proposal No. IA/MP/CMIN/415763/2023 dated 25/01/2023 along with Form-1 (CAF, Part-A, B & C), EIA/EMP report prepared based on standard ToRs seeking environment clearance for expansion of Amlohri Open Cast mines from 14 MTPA to 15 MTPA (increase of 10% with respect to 10 MTPA) within project area of 2175 ha located in PO Amlohri, District- Singrauli, State - Madhya Pradesh under Clause 7(ii) of EIA Notification, 2006, as per Ministry’s OM dated 11.04.2022 & 07.05.2022. The project falls under Schedule-1(a) of mining and is a Category-“A” project as per EIA notification 2006 (as amended), as the mining lease area is more than 500 Ha and the project is appraised at central level.

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

20.18.2: M/s Northern Coalfields Limited originally accorded EC for Amlohri OCP for the production capacity of 4 MTPA over the lease area of 2175 Ha on 28.06.1985. It was further granted EC for expansion of production capacity of 10 MTPA on the same lease area of 2175 Ha on 16.02.2006. PP also conducted Public Hearing for the same on 10.06.2005 as part of EC dated 16.02.2006.

It further accorded EC for production capacity of 14 MTPA on 02.09.2015 as per the Ministry’s OM dated 30.05.2014, seeking expansion of 40% production capacity. PP further applied for EC for the production capacity of 15 MTPA as per Ministry’s OM dated 07.05.2022.

S. No.	Capacity	Date of Submission	Date of Consideration	Date of grant of EC	Remarks
1.	0 - 40% (10 MTPA – 14 MTPA)	17.08.2014	39 th EAC held on 16 th & 17 th July 2015	02.09.2015	As per the Ministry’s OM dated 30.05.2014, one time capacity expansion with additional production of up to 4 MTPA was accorded subject to condition that transportation of additional production of coal is through conveyor belt

S. No.	Capacity	Date of Submission	Date of Consideration	Date of grant of EC	Remarks
					and/or rail transport. Further, the dispensation is subject to satisfactory compliance with EC issued in the passed as judged by the EAC.
2.	40% - 50% (14 MTPA – 15 MTPA)	21.02.2023	Special dispensation to the coal mining projects which have been granted expansion of EC up to 40% of original EC shall be granted expansion EC to increase their production capacity to 50% of original capacity within the same lease area without requiring revised EIA/EMP report for additional capacity and public consultation.	26.07.2022	Applied as per the Ministry's OM dated 07.05.2022 and was granted EC on 26.07.2022, with the condition that CCR report for the EC granted for 40% expansion along with EIA/EMP report prepared based on standard ToRs for the additional capacity addition of 10 % shall be submitted on Parivesh portal within six 6 months of enhancement of production beyond 40 %.

W.r.t the previous approvals, PP submitted the actual production details of the concerned mine and submitted that the mine became operational from 1985 onwards. CTO renewal has been obtained from the SPCB and is valid up to 30.11.2025. Details of the same are as follows:

Year	Actual Coal Production in MTPA	Planned Coal production in MTPA as per Environmental Clearance	Excess Production
1985-86	0.000	4.00	Nil
1986-87	0.000	4.00	Nil
1987-88	0.260	4.00	Nil
1988-89	0.470	4.00	Nil
1989-90	1.160	4.00	Nil
1990-91	1.740	4.00	Nil
1991-92	2.800	4.00	Nil
1992-93	3.450	4.00	Nil
1993-94	3.830	4.00	Nil
1994-95	4.000	4.00	Nil
1995-96	4.000	4.00	Nil
1996-97	3.420	4.00	Nil
1997-98	3.430	4.00	Nil
1998-99	3.600	4.00	Nil
1999-00	3.640	4.00	Nil
2000-01	3.850	4.00	Nil
2001-02	4.000	4.00	Nil
2002-03	4.000	4.00	Nil
2003-04	3.550	4.00	Nil
2004-05	3.730	4.00	Nil
2005-06	4.160	10.00	Nil
2006-07	4.591	10.00	Nil

Year	Actual Coal Production in MTPA	Planned Coal production in MTPA as per Environmental Clearance	Excess Production
2007-08	4.700	10.00	Nil
2008-09	5.282	10.00	Nil
2009-10	6.145	10.00	Nil
2010-11	5.365	10.00	Nil
2011-12	6.581	10.00	Nil
2012-13	7.501	10.00	Nil
2013-14	8.510	10.00	Nil
2014-15	10.00	10.00	Nil
2015-16	10.520	14.00	Nil
2016-17	11.105	14.00	Nil
2017-18	12.145	14.00	Nil
2018-19	13.038	14.00	Nil
2019-20	13.474	14.00	Nil
2020-21	13.6053	14.00	Nil
2021-22	14.00	14.00	Nil
2022-23	15.00	15.00	Nil
2023-24	15.00	15.00	Nil

In pursuance to the OM dated 7/05/2022, Certified compliance report of the EC granted for 40% expansion, along with EIA/EMP report, for the additional capacity of 10% was submitted on PARIVESH portal on 25.01.2023 by the project proponent vide proposal no. IA/MP/CMIN/415763/2023. Based on these documents, Ministry has to ascertain the adequacy of the proposed environmental safeguards and stipulate necessary conditions, if required, which shall be monitored as a part of the EC compliance monitoring.

In this regard, the aforesaid proposal was considered by the EAC in its 41st meeting held on 14.03.2023. The proposal was deferred for want of additional information. PP submitted the ADS reply on 12/07/2024. The proposal was placed before the EAC for reconsideration in its meeting held on 5-7th August, 2024 and the same was deferred for want of additional information. The proponent submitted the reply of the same on 11th December 2024 and the project is now listed for appraisal in 20th EAC meeting held on 20th – 23rd January 2025.

The salient features of the aforesaid expansion are furnished as below:

20.18.3: Certified Compliance Report: The status of compliance of earlier EC was obtained from Regional Office, MoEF&CC, Bhopal vide letter No 3-45/2015 (Env) dated 02.11.2023 in the name of M/s Amlohri OCP of NCL. The Action taken report regarding the partially complied condition was submitted to the Joint Director, MoEF&CC, I.A. Division, New Delhi and IRO, MoEF&CC Bhopal vide letter no. NCL/AML/GM/23-24/5596 dated 25.02.2024. The regional office (RO), MoEF&CC, Bhopal evaluated the same and has issued a letter (no. 3-45/2015) dated 03.12.2024. The details of the observations made by RO in the report dated 02.11.2023 along with its re-assessment / present status as furnished by the PP is given below:

S. No.	Details of the EC and the condition	Condition as per EC	Observations of RO (abridged)	Reassessment by RO of the ATR submitted by the proponent
1	EC dated 26.07.2022; Specific Condition no. iv	Environmental quality parameters arising out of proposed expansion shall be within the prescribed norms and the same shall be maintained as per prescribed norms.	AAQ parameters exceeded permissible limit in some samples. Turbidity at a sampling hand pump exceeded permissible limit.	<p>Perusal of the updated information furnished by PP reveals that, the AAQ parameters like PM₁₀ & PM_{2.5} in the monitoring report for the period April-June, 2024 through M/s CMPDI are within the permissible limit. Further, the water quality parameters Turbidity in the test report June, 2024 is found to be within permissible limit (As per IS-10500/2012 & IS 3025) at sampling station hand pump-Nandgaon.</p> <p>In view of the updated information furnished by the project proponent, the stipulated condition is considered as compliance in progress.</p> <p>COMPLIANCE IN PROGRESS</p>
2	EC dated 26.07.2022; Additional Specific Condition no. v	Assessment of Carrying capacity of mine and road transportation shall be done as per the State Plan/ instructions.	Details regarding carrying capacity of mine & road transportation.	<p>As per the updated information furnished by PP, the study for assessment of carrying capacity is undertaken through CMPDIL, Ranchi vide work order dated 24.01.2024 and agreed to be completed by Dec, 2024.</p> <p>In view of the updated information furnished by the project proponent, the stipulated condition is considered as compliance in progress. However, PP has to submit the study/progress report through six monthly progress report.</p> <p>COMPLIANCE IN PROGRESS</p>
3	EC dated 26.07.2022; Additional specific condition vii.	PP to install Continuous monitoring station for ambient air quality and also continuous effluent quality in ETP shall be installed. Data so generated shall be linked with respective SPCB and CPCB websites.	Installation of additional CAAQMS, and CEQMS in ETP.	<p>As per the updated information furnished by PP, Continuous Effluent Monitoring System (CEQMS) has been installed. CAAQMS and CEQMS connectivity to CPCB/MPCB servers also has been established.</p> <p>In view of the updated information furnished by the project proponent, the stipulated condition is considered as complied</p> <p>COMPLIED</p>

S. No.	Details of the EC and the condition	Condition as per EC	Observations of RO (abridged)	Reassessment by RO of the ATR submitted by the proponent
4	EC dated 24.12.2021; Specific Condition No. iv.	PP to install 1 more continuous ambient air quality monitoring stations at suitable locations preferably village side in consultation of SPCB. The real time data so generated shall be uploaded on company website and linked with CPCB/SPCB website. In addition, data should also be displayed digitally at entry and exit gate of mine lease area for public display.	Installation of additional CAAQMS.	<p>As per the updated information furnished by PP, 01 continuous ambient air quality monitoring station (CAAQMS) has been installed on 03.04.2024 and established connectivity to CPCB/MPCB servers.</p> <p>In view of the updated information furnished by the project proponent, the stipulated condition is considered as complied 3-45/2015 I/89087/2024</p> <p>COMPLIED</p>
5	EC dated 24.12.2021; Specific Condition No. x.	PP to develop an ECO park with separate area of 5 ha for medicinal and herbal species within two years.	Development of Eco-park.	<p>Perusal of the updated information furnished by PP reveals that ECO park has been developed in less than 5 ha area & plantation undertaken with the medicinal and herbal species in 2023 Monsoon. PP has to furnish the geo-tagged photos.</p> <p>In view of the updated information furnished by the project proponent, the stipulated conditions remains same as partly complied till submission of documentary proof.</p> <p>PARTLY COMPLIED</p>
6	EC dated 24.12.2021; Specific Condition No. xi.	PP to install solar lights along the road used for transportation of coal to avoid the accidents at night and also seek its maintenance. PP is asked to also identify the rural areas for installation of solar light with its maintenance within the study area of 10 km radius buffer	Installation of Solar lighting arrangement.	<p>Perusal of the updated information / photographic evidence furnished by PP, it is noted that the solar panels were installed in local community during Dec, 2023. In view of the updated information furnished by the project proponent, the stipulated conditions is considered as being complied.</p> <p>BEING COMPLIED</p>

S. No.	Details of the EC and the condition	Condition as per EC	Observations of RO (abridged)	Reassessment by RO of the ATR submitted by the proponent
		zone within one year and submit its report to IRO-Lucknow.		
7	EC dated 02.09.2015; Specific Condition No. ix.	Appropriate embankment shall be provided along the side of the river/nallah flowing near or adjacent to the mine.	Strengthening of embankment towards the seasonal nalla.	Perusal of the updated information reveals that the plantation on the OB dumps has been done towards the nallah side. However, geo-tagged photograph to be furnished w.r.to development of embankment towards the said seasonal nallah flowing adjoining the lease area. In view of the updated information furnished by the project proponent, the stipulated conditions remains same as partly complied. PARTLY COMPLIED
8	EC dated 02.09.2015; Specific Condition No. xviii	The embankment constructed along the river boundary shall be of suitable dimensions and critical patches shall be strengthened by stone pitching on the river front side and stabilised with plantation so as to withstand the peak water flow and prevent mine inundation.	Strengthening of embankment towards the seasonal nalla	Perusal of the updated information reveals that the plantation on the OB dumps has been done towards the nallah side. However, geo-tagged photograph to be furnished w.r.to development of embankment towards the said seasonal nallah flowing adjoining the lease area. In view of the updated information furnished by the project proponent, the stipulated conditions remains same as partly complied. PARTLY COMPLIED
9	EC dated 02.09.2015; Specific Condition No. xix	There shall be no overflow of OB into the river and into the agricultural fields and massive plantation of native species shall be taken up in the area between the river and the project	Strengthening of embankment towards the seasonal nalla	Perusal of the updated information reveals that the plantation on the OB dumps has been done towards the nallah side. However, geo-tagged photograph to be furnished w.r.to development of embankment towards the said seasonal nallah flowing adjoining the lease area. In view of the updated information furnished by the project proponent, the stipulated conditions remains same as partly complied. PARTLY COMPLIED

S. No.	Details of the EC and the condition	Condition as per EC	Observations of RO (abridged)	Reassessment by RO of the ATR submitted by the proponent
10	EC dated 02.09.2015; Specific Condition No. xxii	Dimension of the retaining wall at the toe of the dumps and OB benches within the mine to check run-off and siltation shall be based on the rainfall data.	Strengthening of embankment towards the seasonal nalla.	<p>Perusal of the updated information reveals that the plantation on the OB dumps has been done towards the nallah side. However, geo-tagged photograph to be furnished w.r.to development of embankment towards the said seasonal nallah flowing adjoining the lease area.</p> <p>In view of the updated information furnished by the project proponent, the stipulated conditions remains same as partly complied.</p> <p>PARTLY COMPLIED</p>
11	EC dated 02.09.2015; Specific Condition No. xxx	Compensatory Ecological & Restoration of waste land, other degraded land and OB dumps in lieu of breaking open the land be carried out.	Status of utilization of funds deposited by Amlohri Project under CAMPS to be ascertained from the state forest department.	<p>Perusal of the updated information furnished by PP, the condition is considered as compliance in progress w.r.t. action at proponent, however, the status of utilization of funds under CAMPA needs to be ascertained from the state forest department w.r.t. funds deposited by NCL.</p> <p>The overall compliance of the condition is considered as partly complied till the receipt of updated status of implementation of CAMPA funds from the state forest department.</p> <p>In view of the updated information furnished by the project proponent, the stipulated conditions remains same as partly complied.</p> <p>PARTLY COMPLIED</p>
12	EC dated 02.09.2015; Specific Condition No. xxxiv	Regular monitoring of groundwater level and quality shall be carried out by establishing a network of existing wells and construction of new peizometers. The monitoring for quantity shall be done four times a year in pre-monsoon (May), monsoon (August), post-monsoon	AAQ parameters exceeded permissible limit in some samples. Turbidity at a sampling hand pump exceeded permissible limit.	<p>Perusal of the updated information furnished by PP reveals that, the AAQ parameters like PM 10 & PM2.5 in the monitoring report for the period April-June, 2024 through M/s CMPDI are within the permissible limit. Further, the water quality parameters Turbidity in the test report June, 2024 is found to be within permissible limit (As per IS-10500/2012 & IS 3025) at sampling station hand pump-Nandgaun.</p> <p>In view of the updated information furnished by the project proponent, the stipulated condition is considered</p>

S. No.	Details of the EC and the condition	Condition as per EC	Observations of RO (abridged)	Reassessment by RO of the ATR submitted by the proponent
		(November) and winter (January) seasons and for quality in May. Data thus collected shall be submitted to the Ministry of Environment, Forests & Climate Change and to the Central Pollution Control Board quarterly within one month of monitoring		as compliance in progress. COMPLIANCE IN PROGRESS
13	EC dated 02.09.2015; Specific Condition No. xxxvii	Besides carrying out regular periodic health check-up of their workers, 10% of the workers identified from workforce engaged in active mining operations shall be subjected to health check-up for occupational diseases and hearing impairment, if any, through a specialised agency /institution within the District/State and the results reported to this Ministry and to DGMS.	Health study of 10% workers by NIOH, Ahmadabad.	Perusal of the updated information furnished by PP reveals that, PP has initiated request vide dated 26.08.2024 for health study of the workers through specialized institute of the state. In view of the updated information furnished by the project proponent, the stipulated condition remains same as partly complied till health study for 10% of the workers is done. PARTLY COMPLIED
14	EC dated 02.09.2015; General Condition No. iv	Data on ambient air quality (PM10, PM 2.5, SO2 and NO,) and heavy metals such as Hg, As, Ni, Cd, Cr and other monitoring data shall be regularly submitted to the Ministry including its concerned Regional Office and to the State Pollution Control	AAQ parameters exceeded permissible limit in some samples	Perusal of the updated information furnished by PP reveals that, the AAQ parameters like PM 10 & PM2.5 in the monitoring report for the period April-June, 2024 through M/s CMPDI are within the permissible limit. In view of the updated information furnished by the project proponent, the stipulated condition remains same as complied. COMPLIED

S. No.	Details of the EC and the condition	Condition as per EC	Observations of RO (abridged)	Reassessment by RO of the ATR submitted by the proponent
		Board and the Central Pollution Control Board once in six months. Random verification of samples through analysis from independent laboratories recognised under the EPA rules, 1986 shall be furnished as part of compliance report		
15	EC dated 02.09.2015; General Condition No. viii	Vehicular emissions shall be kept under control and regularly monitored. Vehicles used for transporting the mineral shall be covered with tarpaulins and optimally loaded.	AAQ parameters exceeded permissible limit in some samples. Turbidity at a sampling hand pump exceeded permissible limit.	<p>Perusal of the updated information furnished by PP reveals that, the AAQ parameters like PM 10 & PM2.5 in the monitoring report for the period April-June, 2024 through M/s CMPDI are within the permissible limit. Further, the water quality parameters Turbidity in the test report June, 2024 is found to be within permissible limit (As per IS-10500/2012 & IS 3025) at sampling station hand pump-Nandgaun.</p> <p>In view of the updated information furnished by the project proponent, the stipulated condition is considered as compliance in progress.</p> <p>COMPLINCE IN PROGRESS</p>
16	EC dated 16.02.2006; Specific Condition No. iv	Dimension of the retaining wall at the toe of dumps and OB benches within the mine to check run-off and siltation should be based on the rainfall data	Strengthening of embankment towards the seasonal nalla.	<p>Perusal of the updated information reveals that the plantation on the OB dumps has been done towards the nallah side. PP informed for about the plantation undertaken in total of 41 Ha.</p> <p>OB dump area with 1,02,500 number of plants since last year. However, geo-tagged photograph to be furnished w.r.to development of plantation towards the said seasonal nallah flowing adjoining the lease area.</p> <p>In view of the updated information furnished by the project proponent, the stipulated conditions remains</p>

S. No.	Details of the EC and the condition	Condition as per EC	Observations of RO (abridged)	Reassessment by RO of the ATR submitted by the proponent
				same as partly complied. PARTLY COMPLIED
17	EC dated 16.02.2006; Specific Condition No. x	Regular monitoring of groundwater level and quality should be carried out by establishing a network of existing wells and construction of new piezometers. The monitoring for quantity should be done four times a year in pre monsoon (May), monsoon (August), post-monsoon (November) and winter (January) seasons and for quality in May. Data thus collected should be submitted to the Ministry of Environment & Forests and the Central Ground Water Board, Regional Office quarterly within one month of monitoring.	AAQ parameters exceeded permissible limit in some samples. Turbidity at a sampling hand pump exceeded permissible limit.	<p>Perusal of the updated information furnished by PP reveals that, water quality parameters Turbidity in the test report June, 2024 through Environment Laboratory, CMPDI is found to be within permissible limit (As per IS-10500/2012 & IS 3025) at sampling station hand pump-Nandgaun.</p> <p>Further, water level of 66noc. Existing dug wells & 03 Piezometers conducted in May & NOV, for the year 2020-22 is furnished.</p> <p>Ground water quality in A-1, A-2 A-3, A-4, A-6, A-7, M-1, &A-8 wells also furnished. Perusal of the test report reveals that Parameter - Fluoride (as F) mg/l, Total Alkalinity (caco3), mg/l, Max, Total Dissolved Solids, mg/l, Max is slightly exceeding in A1 & A4 wells, while Total Hardness (caco3), mg/l, Max is exceeding in A4 & A5 wells and Turbidity, NTU, Max is exceeding in A5 well& A8 wells. (IS:10500 Standards).</p> <p>As per the stipulated EC condition quarterly report to be furnished.</p> <p>In view of the updated information furnished by the project proponent, the stipulated condition is considered as partly complied. Project Proponent needs to enhance the frequency of ground water quality.</p> <p>PARTLY COMPLIED</p>
18	EC dated 16.02.2006; General Condition No. iv	Data on ambient air quality (PM10, PM2.5, SO2, and NOX) and heavy metals such as Hg, As ,Ni ,Cd, Cr, and other monitoring data shall be regularly submitted to the ministry	AAQ parameters exceeded permissible limit in some samples. Turbidity at a sampling hand pump exceeded permissible limit.	<p>Perusal of the updated information furnished by PP reveals that, the AAQ parameters like PM 10 & PM2.5 in the monitoring report for the period April-June, 2024 through M/s CMPDI are within the permissible limit.</p> <p>In view of the updated information furnished by the project proponent, the stipulated condition remains same</p>

S. No.	Details of the EC and the condition	Condition as per EC	Observations of RO (abridged)	Reassessment by RO of the ATR submitted by the proponent
		including its concerned regional office and to the state pollution control board and the central board once in six months,		as complied. COMPLIED

20.18.4: Compliance of Ministry's OM dated 07/05/2022: PP submitted the following compliance of Ministry's OM dated 07/05/2022:

Para No. as per OM	Requirement as per OM dated 07.05.2022	Compliance Status
6(i)	An application shall be made on PARIVESH portal for expansion under Para 7(ii) of EIA Notification-2006.	An application has been made on PARIVESH portal for expansion of Amlohri OCP from 14.0 Mtpa to 15.0 Mtpa vide proposal No. IA/MP/CMIN/272533/2022 dated 11.07.2022 under Para 7(ii) of EIA Notification-2006. The proposal was accepted by MoEF&CC and granted EC identification no. EC22A042MP178525 and file no. J-11015/364/2005-IA-II(M) dated 25.07.2022 for expansion of Amlohri OCP for increase in production capacity from 14.0 to 15.0 Mtpa. Project had earlier accorded Environmental Clearance for a capacity of 10 Mtpa of coal production with public hearing vide letter no. J-11015/364/2005-IA-II(M) dated 16.02.2006 under clause 7(i) of EIA notification-2006.
6(ii).	In view of the exigency as detailed above and as per the provision of Para (iia) of the EIA Notification-2006 as amended, all such expansion proposals, irrespective of the mine lease area, shall be considered by the Ministry at the Central level.	Agreed. Also, as there is no change in category of the project. The Project is of category 'A' for existing as well as for proposed expansion, so this will be considered by Ministry at the Central level only.
6(iii).	The increase in production capacity up to 50% of original EC shall be allowed within the same mine lease area, based on the available reserves in the coal block, on same terms of conditions of the existing EC granted for 40% expansion of production capacity.	capacity up to 50% of original EC shall be allowed within the same mine lease area, based on the available reserves in the coal block, on same terms of conditions of the existing EC granted for 40% expansion of production capacity. Proposal is for enhancement in production capacity from 14.0Mtpa to 15.0 Mtpa (i.e 50% of the prior EC for 10 Mtpa capacity issued on the basis of public hearing held) within the same mine lease area, based on the available reserves in the coal block, on same terms of conditions of the existing EC granted for 40% expansion of production capacity. Also, the project have expansion for production

Para No. as per OM	Requirement as per OM dated 07.05.2022	Compliance Status
		capacity of 14.0 (40% increase) with prior EC under clause 7(ii)a of EIA Notification-2006. The proposed expansion is second phase expansion for 10 % increase.
6(iv).	Certified Compliance Report of the EC granted for 40% expansion, along with EIA/EMP report, prepared based on standard TORs for the additional capacity of 10% shall be submitted on PARIVESH portal within six months of enhancement of production beyond 40%.	Agreed, Certified Compliance Report of the EC granted for 40% expansion, along with EIA/EMP report, prepared based on standard TORs for the additional capacity of 10% have been submitted on PARIVESH portal within six months of enhancement of production beyond 40%.
6(v).	Based on the documents as mentioned in Para(iv) above, Ministry shall ascertain the adequacy of the proposed environmental safeguards and stipulate necessary conditions, if required, which shall be monitored as a part of the EC compliance monitoring.	Agreed for compliance of conditions stipulated by Ministry.

20.18.5: Environmental Site Settings: The project area is covered under Survey of India Topo Sheet No 63L/12 and is bounded by geographical coordinates ranging from Latitude: 24°05'40" to 24°09'41.6" North and longitudes 82°34'1.46" to 82°36'59.38" East. Project fall in the Severely Polluted Area (SPA), as per CEPI Assessment 2018 [CEPI score is 62.59].

Additional Specific Conditions as the area falls under Severally Polluted Areas (SPAs) as per the MoEF&CC O.M. dated 30/10/2019

S. No.	Condition	Action Taken / To be Taken
i	Transportation of materials by rail/ conveyor belt shall be implemented.	At present, Amlohri Project has CHP of 10 MTPA capacity with which coal dispatch of 13.5 MTPA has been done to Rihand Super Thermal Power Plant, Rihand through Eco-friendly dedicated MGR system. In compliance of the condition, one additional Rapid Loading System (RLS) of 2 MTPA has been constructed to meet the increase in dispatch.
ii	Encourage use of cleaner fuels for trucks, if the roads required to be widened upto nearest railway siding, the same be constructed to avoid traffic congestion.	The condition is being complied. High Performance Diesel from M/s Indian Oil is being used in Amlohri Project. As per the IOCL, above High Performance Diesel is beneficial to the environment on account of the following attributes: <ul style="list-style-type: none"> • Reduction in fuel consumption upto 5.78% • Reduction in exhaust emissions upto 5.29% CO, 4.99% NOx, 0.13 MT of CO per LK of diesel. • Reduction in engine noise levels upto 5% • Deliver smooth drivability. <p>No traffic congestion issue on coal transportation roads in the leasehold area of Amlohri OCP.</p>

S. No.	Condition	Action Taken / To be Taken
		Moreover, Amlohri Project is equipped with four number of draglines, which are not only electricity driven but also reduces truck movement, also maximum coal is being transported through Coal handling plant, rapid loading system and MGR system thus reducing road transportation.
iii	Increase green belt cover by 40% of the total land area beyond the permissible requirement of 33%, wherever feasible.	As per the mining plan and mine closure plan for 15 MTPA, green cover area (including reclaimed OB dumps) after post mining shall be 1717.4 Ha out of total leasehold area of 2175 Ha i.e. 78.96% of the leasehold area in 10 years.
iv	Greenbelt outside the project premises such as avenue plantation, plantation in vacant areas, social forestry, etc. shall be implemented.	At Amlohri Project, thick green belt of adequate width has already been developed outside the plant premises, such as avenue plantation, plantation in vacant area, social forestry etc. Above green belt has been developed by planting 15.33 Lakh number of saplings. As a social forestry, fruit bearing plants are being distributed to the nearby villagers also. Details of fruit bearing plants distributed during last three years is as follows: F.Y. 2019-20 : 2000 nos. F.Y. 2020-21 : 4000 nos. F.Y. 2021-22 : 4000 nos. F.Y. 2022-23 : 14,000 nos. For the F.Y. 2023-24, 2000 numbers plants have been distributed and 5000 numbers have been distributed to the nearby villagers in current F.Y. 2024-25.
v	Assessment of carrying capacity of mine & road transportation shall be done as per the State Plan/instructions.	Study for assessment of carrying capacity is under process through CMPDIL Ranchi, for which work order has been issued vide letter no. NCL/CP/CMPDIL/24/69, dated 24.01.2024 Duration of the work is about 1 year. Work is likely to be completed by Feb, 2025.
vi	Reuse/recycle of treated wastewater shall be implemented as feasible with latest technology. Zero liquid discharge concept may be adopted.	The condition is being complied. The effluent from CHP and workshops is being treated in 51 MLD capacity ETP. The treated effluent is being reutilized for various industrial purposes like washing of Heavy Earth Moving Machinery (HEMMSs), dust suppression on Haul Roads, CHP for dust suppression at coal loading and unloading points, firefighting, horticulture etc. As such, mine is operating on zero discharge condition, i.e. no treated/ untreated effluent is discharged outside the mine premises, except monsoon season.
vii	PP to install Continuous monitoring station for ambient air quality and also continuous effluent quality in ETP shall be installed. Data so generated shall be linked with respective SPCB and CPCB websites.	The condition is being complied. Continuous Ambient Air Quality Monitoring Station (CAAQMS) and Continuous Effluent Monitoring System (CEQMS) have been installed and connectivity to CPCB/MPPCB servers has been done. Photograph have been submitted.
viii	A detailed water harvesting plan may be prepared by the project proponent for water augmentation and submitted to Regional Office of MoEF&CC.	The condition is being complied. Four numbers of rain water harvesting structures have been constructed in Amlohri OCP at the following location: <ul style="list-style-type: none"> • Office of the Area General Manager, Amlohri Area • Officers club building • Hi-Tech Officer's guest house • Kalayan Manadapam, Following water reservoirs have been constructed in Amlohri OCP, <ul style="list-style-type: none"> • 70,000 m³ pond near ETP • 30,000 m³ pond near CISF Barrier,

S. No.	Condition	Action Taken / To be Taken
		<ul style="list-style-type: none"> • 28,000 m³ pond near Workshop • 70,000 m³ inside MGR. <p>The project agrees to prepare a detailed water harvesting plan for water augmentation and this plan will be submitted to Regional Office of MoEF&CC.</p>
ix	The project proponent shall install STP for generated domestic wastewater and should meet for discharge standards.	Domestic waste water from Amlohri township is being treated in STP of capacity 2 MLD and treated water is being utilized for horticulture work inside township. Effluent from STP is regularly monitored and all the parameters are maintained with the prescribed standards.
x	More stringent norms for management of hazardous waste like oil container, ETP sludge etc shall be adopted. The waste generated should be preferably utilized in co-processing.	Amlohri project agrees to the conditions. Hazardous Wastes generated in the mines are being addressed in accordance to the Hazardous & Other waste Management Rules, 2016. The used or spent oil (cat. 5.1) is being sold to Authorized re-processors/ re-cycler or sent to authorized TSDF registered with MPPCB. The wastes or residue containing oil (cat 5.2) is send to authorized TSDF approved by MPPCB.
xi	Monitoring of compliance of EC conditions may be submitted with third party audit every year.	Noted and agreed. Compliance of EC conditions by third party will be conducted and report will be submitted every year.
xii	Fund allocation for Corporate Environment Responsibility (CER) which is atleast 1.5 times as per OM of 1st May, 2018 may now be considered as 1.5 times of fund allocated on commitment made during public consultation process for incorporating in EIA-EMP for deliberation of EAC and item-wise details along with time bound action plan shall be prepared and submitted to the Ministry's Regional Office.	The project agrees to the condition.

Mining Lease: PP submitted that the block has been allotted by vide S.O. 660 dated 04.02.1982 for 2175 Ha. Leasehold area is allotted under CBA Act 1957. Expiry Date of the same is 03.02.2081.

Forest Area: PP submitted that the project involves total 1195 Ha of forest land. The PP acquired Stage – II FC on the 300 Ha of forest area vide letter no. F-8-194/84FRY dated 10.06.1985, No. 8-33/97-FC dated 25.11.1997, No. F-8-100/97-FC dated 13.01.1999, No. F-8-100/97-FC dated 12.08.99, No. F-8-100/97-FC dated 14/19.03.2002 & F No.-8-100/97- FC dated 18.10.2002 (w.e.f 12.08.2001). Also, acquired Stage - II FC on 895 Ha of forest land vide No. 8-194/84-FC dated 30.12.1987. The validity of the same expired and PP again applied for the same and acquired its Stage – I FC vide letter no. F. No. 8-194/1984- FC (Pt.), dated 12.12.2018 on 1195 Ha forest land. Total broken forestland as on 01.04.2022 is 805 ha. PP further submitted that there is no violation of Van (Sanrakshan Evam Samvardhan) Adhiniyam, 1980.

Protected Area: PP submitted that 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. PP also submitted that there are no Schedule-I species reported in the study area.

Other Sensitive Receptors: Kachan Nallah lies at a distance of 2.0 Km and Mudwani Nalla at a distance of 3.5 Km. Besides them Amjhar Nallah, Ballia Nalla, Bijul Nallah and part of GBP Sagar reservoir lie in the range of 4.0 to 9.0 Km from the project boundary. Apart from this, there is no Archaeological site in the close proximity of the project site.

20.18.6: Method of Mining & Mining Plan:

- i. The mining plan & mine closure plan for the project was approved for 15 MTPA, 2175 ha by the NCL Board in 703rd meeting held on 12.05.2022 and communicated vide board note letter no. NCL/CP/Board/2525 dated 12.05.2022. Present proposal is for 10 % capacity expansion i.e. for 15 MTPA as per MoEF&CC OM dated 07.05.2022.
- ii. Total geological reserve reported in the mine lease area is 364.08 MT (Net Geological Reserve – 349.41MT) with 314.46 MT mineable reserve. Extractable reserves are 314.46 MT. 206.11 MT coal reserves has been extracted till 31.03.2022. 108.35 MT coal reserves are remaining for extraction as on 01.04.2022.
- iii. Four number of seams namely Purewa Top, Purewa Bottom, Purewa Merged and Turra seams with thickness ranging from 0.5 m to 7.64 m, 10.33 m to 15.00 m, 20.87 m to 25.33 m and 11.50 m to 17.90 m, respectively, are workable. The weighted average grade of coal seams is G9, stripping ratio is 4.71 cum/te, while gradient is 2°-5°.
- iv. Life of mine is 11 years as on 01.04.2022.
- v. Method of Mining to be adopted shall be Opencast. The Capacity of the mine applied for as per approved mining plan is 15 MTPA.
- vi. The project has two external dumps having a total area of 402 ha and will accommodate 225.06 Mm³ OB. This external dump has already been fully reclaimed. Also, Project have two internal dumps of 780 ha and will accommodate 1070.01 Mm³ OB.
- vii. Total quarry area is 780 ha. Total quarry area will be backfilled and reclaimed with plantation. There will be no mine void left post closure of mine.
- viii. The technology of mining operations envisaged for OB removal is Dragline and Shovel Dumper Combination. While excavation of Coal is by shovel/dumper combination & Surface Miner.
- ix. Land use details:

a. Pre-mining land use:

S. No.	Type of Land	Land (ha)
1	Tenancy land	898
2	Govt. land	82

S. No.	Type of Land	Land (ha)
3	Forest land	1195
	Total	2175

b. Post-mining land use:

S. No.	Land use post mining	Land use (ha)				Total
		Plantation	Water Body	Public/ Company Use	Undisturbed	
1	External OB Dumps	402.00				402.00
2	Excavation	780.00				780.00
3	Roads & Infrastructure	51.40		164.00		215.40
4	Green Belt	484.00				484.00
5	Safety Zone					
6	Undisturbed				290.60	290.60
7	Sand Segregation Plant			3.00		3.00
	Total	1717.40	0.00	167.0	290.60	2175.00

x. Transportation of Coal: The coal is proposed to transport within the outside mining lease in the following manner:

- **In pit** – Through rear dumpers
- **Surface to siding** – Through enclosed conveyor belt
- **Siding to loading** – Through railway wagons

xi. Reclamation plan includes afforestation covering an area of 1717.40 Ha at the end of mining. This will include reclaimed external OB dumps of 402 Ha, reclaimed backfilled area in the form of internal OB dumps of 780 Ha, greenbelt in 484 Ha and infrastructure of 51.40 Ha. The density of plantation will be 2500 nos. of plants per Ha. As per the approved mine plan, at the end of the mine life no void will be left out.

20.18.7: Baseline data: Baseline data has been collected by the proponent during October – December 2022

Period	From Oct. 2022 to Dec. 2022
AAQ parameters at location (min and max) at 8 locations	<p>Core Zone- SPM-188 to 534 µg/m³ PM10- 136 to 295 µg/m³ PM 2.5-22 to 73 µg/m³ SO2-26 to 58 µg/m³ Nox-36 to 71 µg/m³</p> <p>Buffer Zone- SPM-83 to 437 µg/m³</p>

Period	From Oct. 2022 to Dec. 2022
	PM 10-38 to 262 µg/m ³ PM 2.5- 15 to 61 µg/m ³ SO ₂ -19 to 45 µg/m ³ NO _x - 25 to 54 µg/m ³
Incremental GLC level (Maximum value of the 8 receptor locations monitored)	<p>Core Zone - PM₁₀ -11 µg/m³ (Level at 0 Km i.e. within mine) PM_{2.5}-2 µg/m³ (Level at 0 Km i.e. within mine) SO₂ – 0.35µg/m³ (Level at 0 Km i.e. within mine) NO_x – 7.3 µg/m³ (Level at 0 Km i.e. within mine)</p> <p>Buffer Zone - PM₁₀ -1 µg/m³ (Level at 4.09 Km in South East direction) PM_{2.5} - 0 µg/m³ (Level at 8.20 Km in North West direction) SO₂ – 0.19µg/m³ (Level at 8.20 Km in North West direction) NO_x – 0.9 µg/m³ (Level at 8.20 Km in North West direction)</p>
Ground water quality at 3 locations	pH: 7.4 to 7.9, Total Hardness:168 to 252 mg/l, Chlorides: 20 to 166 mg/l, Fluoride:0.07 to 0.56 mg/l, Zn-0.006 to 0.072 mg/l Boron: <0.20 mg/l, Cadmium: <0.0004 mg/l, Calcium: 46.4 to 65.6 mg/l, Copper:<0.02 mg/l, Iron:<0.04 mg/l, Lead: <0.001 mg/l, Manganese:<0.01 to 0.03 mg/l, Nickel:<0.003 mg/l, Nitrate: 2.4 to 4.9 mg/l, Phenolic Compounds: <0.001 mg/l, Selenium: <0.0005 mg/l, Sulphate: 16.5 to 73.8 mg/l, Total Alkalinity (as CaCO ₃): 144 to 308 mg/l, Total Arsenic: <0.002 mg/l, Total Chromium:< 0.002 mg/l, Total Dissolved Solids: 290 to 405 mg/l, Turbidity: 1 to 2 NTU, MPN- Nil
Surface water quality at 4 locations	pH: 7.8 to 8.1; DO: 6.8 to 7.2 mg/l, BOD : <2 to 2.2 mg/l, Arsenic:<0.002 mg/l, Cadmium: <0.0004 mg/l, Chlorides:14 to 30 mg/l, Copper:<0.02 mg/l, Fluoride: 0.28 to 0.91 mg/l, Hexavalent Chromium: <0.01 mg/l, Iron:< 0.04 mg/l, Lead: <0.001 mg/l, Nitrate:2 to 9.2 mg/l, Phenolic Compounds: <0.001 mg/l, Selenium: <0.0005 mg/l, Sulphate: 18.4 to 77.8 mg/l, Total Dissolved Solids: 159 to 369 mg/l, Total Suspended Solids: 13 to 31 mg/l, Zinc: <0.005 mg/l
Noise levels Leq (Day and Night)	Core Zone 42.6 to 57.6 dB(A) for the day time and 50.8 to 65.7 dB(A) for the Night time. Buffer Zone 37.2 to 55.6 dB(A) for the day time and 35.8 to 47.5 dB(A) for the Night time.
Traffic assessment study findings	Not applicable (as per the relevant standard ToR)
Flora and fauna	No schedule I fauna and endangered Flora were reported during the study.
Water Requirement	<p>Source of Water: Mine Seepage Water & accumulated rain water (to meet industrial requirement) & Surface Water (to meet domestic requirement from GBP Sagar project of Govt. of Uttar Pradesh)</p> <p>Ground Water Intersection: Yes The pre-monsoon water level ranges from 4.50 m (2021) to 8.66 m (2015) with an average of 6.67 m.bgl. The post-monsoon water level ranges from 2.90 m (2021) to 7.50 m (2015) with an average of 4.87 m.bgl.</p> <p>Water Requirement: 6099 m³/day</p> <p>NOC (For surface water): From UP State government vide Letter No.649-CU-II/NTPC/79 dated 13.03.1979 NOC(Ground Water): CQWA/NOC/MIN/ORIG/2021/13516 dtd: 27.10.2021 Applied for renewal on: 14.12.2023</p>

20.18.8: Water Requirement: PP submitted the water requirement as 6099 m³/day (Surface Water 1281 m³/day + Ground Water 3015 m³/day + Rainwater 1803 m³/day). The source of water will be Mine seepage water & accumulated rain water (to meet industrial requirement) and surface water (to meet domestic requirement). PP submitted that NoC for surface water has been obtained from the UP State Government vide letter no. 649-CU-II/NTPC/79 dated 13.03.1979 and renewal for NoC for ground water has been applied on 14.12.2023. The same is reported to be under process.

20.18.9: Power Requirement and details of diversion of Hi-Tension/ Transmission Line: Amlohri OCP is getting power at 33 KV by double circuit transmission line from 2 x 40 MVA, 132/33 KV Madhuli sub-station (re located at Nigahi) of NCL. There are two sub-stations in the project as stated below:

1. 3 x 10 MVA, 33/6.6 KV, OB Sub-station: This substation supplies power to draglines, shovels, drills, etc. deployed in OB section.
2. 2 x 5 MVA, 33/6.6 KV: This sub-station supplies power to CHP, Workshop as well as coal sections. Colony gets power from 2x5 MVA colony sub-station at Nigahi.

Existing Sub-station and power supply arrangement for Amlohri OCP is adequate to cater to the needs for 15.0 MTPA capacity of mine as per Mining plan. Also, there is no diversion of Hi-tension/ Transmission line proposed.

20.18.10: 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 (TPA)	Mode of treatment	Disposal	Remarks
1.	Municipal Solid Waste	Residential Colony & Office building	500	Door to door collection of segregated waste is done by project & loaded in Municipal Corporation collection vehicles for treatment.	Door to door collection of segregated waste is done by project & loaded in Municipal Corporation collection vehicles for treatment & disposal.	-
2.	Hazardous Waste- Category 5.1 (Used Oil)	HEMM	450	Auctioned for Recycling & reprocessing through registered recycler.	Auctioned for Recycling & reprocessing through registered recycler.	Transported through authorized transporters in authorized vehicles.
3.	Hazardous Waste- Category 5.2 (Waste containing oil)	Workshop	75	Sent to authorized TSDF (MP waste Management Project, Pithampur)	Sent to authorized TSDF (MP waste Management Project, Pithampur)	Transported through authorized transporters in authorized vehicles.

20.18.11: Status of implementation of action plan as per the Public Consultation held on 10.06.2005:

Details of Advertisement given	Published in Dainik Bhaskar & Aaj Newspapers on 10.05.2005
Date of Public Consultation	10.06.2005
Venue	Community Hall, Waidhan, Tehsil- Waidhan Dist-Singrauli
Presiding Officer	SDM (Singrauli)
No. of persons attended hearing	200
No. of representations received in writing	-
Major Issues	Major issues addressed were tree plantation, pollution control, Moher Road and employment.

List of Activities carried out in nearby villages along with expenditure incurred during last 04 years

S. No.	Activity	Expenditure (in Rs. Lakh)	Timeline
1	Distribution of fruits bearing plants in nearby villages i.e. Nandgaon, Katchni, Dasauti, Bharua etc.	1.50	FY 2023-24
2	Dust suppression in nearby villages and public roads by 01 no. truck mounted fog machine.	65.00	
3	Repairing of damaged Nallah at Kachni Village	2.16	
4	Drinking water arrangement for local villagers during summer "Piyau"	2.12	
5	Construction of 01 No. toilet at community building shopping center & temple near Nandgaon village.	4.44	
6	"Aarohan" Summer camp for children of nearby villages i.e. Nandgaon, Katchni, Dasauti, Bharua, Navanagar etc.	5.19	
7	Rain water harvesting pond adjacent to C-type near Bilwatola village	56.82	FY 2022-23
8	Distribution of fruits bearing plants in nearby villages i.e. Nandgaon, Katchni, Dasauti, Bharua etc.	1.95	
9	Dust suppression in nearby villages and public roads by 01 no. of truck mounted fog machine.	65.00	
10	Cleaning of nala from STP to Shiv mandir at Nandgaon village	2.00	
11	Dewatering & cleaning of chhat ghat for Nandgaon, Bharua, Katchni, Dasauti, Moher Village.	2.14	
12	Cutting of Catch drain from nursery to Mahua more for discharge of excess rain water safely.	2.12	
13	Renovation of DAV School	63.05	
14	Cleaning of Katcha nalla flowing from Nandgaon to Katchni village.	2.10	
15	Cleaning of drain from 70,000 m3 rain water harvesting pond in Bharua Village to Mahua more.	2.11	
16	Re-carpeting of Public road upto Navanagar for villagers via Mahua More.	125.57	
17	Repair & maintenance of shops at main bus stand.	64.28	
18	Repair & maintenance of public utility building.	53.68	
19	Distribution of fruits bearing plants in nearby villages i.e. Nandgaon, Katchni, Dasauti, Bharua etc.	1.90	
20	Renovation of Saraswati Shishu Mandir School.	10.56	
21	Cleaning & Sanitization of COVID-19 rest shelter & public road sanitization.	3.29	
22	Rain water harvesting in Kalyan Mandapam.	35.92	FY 2020-21
23	Repairing around chhat ghat Pond.	4.41	
24	Upkeep of COVID-19 isolation ward.	3.62	

S. No.	Activity	Expenditure (in Rs. Lakh)	Timeline
25	Sanitation of villages.	1.90	
26	Cleaning of new COVID-19 isolation ward.	1.08	
Sub Total (1)		583.91	

Time bound Action Plan for activities proposed to be carried out in nearby villages

S. No.	Activity	Estimated Expenditure (in Rs. Lakh)	Timeline
1	Providing 2 no. bus stop shade.	7.39	FY 2024-25
2	Drinking water arrangement & shade for RO machine at DAV Public school.	1.80	
3	Aarohan Summer camp for children of nearby village i.e Nandgaon, Katchni, Dasauti, Bharua, Navanagar etc.	8.05	
4	Dust suppression in nearby villages and public roads by 01 no. of truck mounted fog machine.	40.00	
5	Dust suppression by Road sweeping machine	36.00	
6	Organizing Training camp in nearby villages i.e Nandgaon, Katchni, Dasauti, Bharua, Navanagar for awareness of local farmers to increase yield of crop and fodder.	8.00	FY 2025-26
7	Distribution of plants of native species	2.00	
8	Dust suppression in nearby villages and public roads by 01 no. of truck mounted fog machine.	40.00	
9	Dust suppression by Road sweeping machine	36.00	FY 2026-27
10	Dust suppression in nearby villages and public roads by 01 no. of truck mounted fog machine.	40.00	
11	Dust suppression by Road sweeping machine.	36.00	
Sub Total (2)		255.24	
Grand Total (1+2)		839.15	

20.18.12: EMP Budget: Existing capital cost of project was 1943.99 crore. The capital cost of the proposed project is same as the existing project and the capital cost for environmental protection measures is Rs 2602.9 lakhs. For the expansion the capital cost for environmental protection measures proposed is Rs. 226 lakhs. The annual recurring cost towards the environmental protection measures is proposed as Rs 500 lakhs. The details of cost for environmental protection measures is as follows:

S. No.	Description of Item	Existing (in Rs. Lakhs)		Proposed (in Rs. Lakhs)	
		Capital Cost	Recurring Cost	Capital Cost	Recurring Cost
1	Air Environment	Rs. 2602.9 lakhs	50	Rs. 226.0 lakhs	50
2	Water Environment		165		165
3	Technical & Biological reclamation including Greenbelt		150		150
4	Other Miscellaneous Measures		135		135
Total		2602.9	500	226.0	500

20.18.13: Plantation: Existing green belt has been developed in 484 ha area which is about 22 % of the total project area of 2175 ha with total 12.10 lakh sapling of Trees. Greenbelt of 7.5 m wide, consisting of at least 3 tiers around mine boundary will be developed as greenbelt and green cover (total area 1717.40 ha) 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 42.93 lakhs saplings will be planted and nurtured in 1717.4 ha area in 10 years.

20.18.14: Rehabilitation and Resettlement (R&R): PP submitted that there were about 1298 project-affected persons and 645 PAFs, and they have been already provided the compensation as per R&R policy of CIL.

20.18.15: Project Cost: The total capital cost reported by the PP is Rs. 1943.99 crore. The cost for implementing EMP (both capital and recurring) is Rs. 2602.90 Lakh.

20.18.16: Details of pending litigation: PP submitted that there is no litigation pending against the project and the land on which the project is set up.

20.18.17: Undertaking and Affidavit: Vide an affidavit, PP submitted that there is no construction done at the site without any deviation as per previous Environmental Clearance obtained vide letter no. J-11015/364/2005-IA-II(M) dated 26.07.2022 (15 MTPA): J-11015/364/2005-1A-11(M) dated 24.12.2021 (14 MTPA along with OB to M-sand): J-11015/364/2005-1A-II(M) dated 02.09.2015 (14 MTPA): and J-11015/364/2005-1A-11(M) dated 16.02.2006 (10 MTPA), there is no litigation on the project either through NGT or any other court of Law pertaining to the Environment Aspect. the land has been acquired by Govt. of India under Coal Bearing Areas (Acquisition & Development Act. 1957) and vested in Northern Coalfields Limited vide notification no. 660 dated 04.02.1982. The land is in possession of the Amlohri Project of Northern Coalfields Limited and there is no R&R issue in the existing project land. There is no difference in the documents submitted i.e. Form-1. EIA-EMP, Mining Plan, and Presentation being made to the EAC. The proposal has been submitted for Revalidation of Environmental Clearance of Amlohri OCP of 15MTPA, 50% expansion) obtained vide letter no. J-11015/364/2005- IA-II(M) dated 26.07.2022.

PP also submitted an undertaking, wherein the PP has mentioned that this is to certify that the information provided in Form-I in pdf format in PARIVESH, to the Ministry/EAC members and PPT presentation during the EAC meeting to be held on 20th -23rd January 2025 have no deviation in respect of the proposal no. IA/MP/CMIN/415763/2023 for EC revalidation for coal mining having 2175 ha of ML area/Project area and capacity of 15 MTPA for Coal Mine Project located at village- Amlohri, District. - Singrauli, State Madhya Pradesh by M/s Northern Coal fields 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.

20.18.18: ADS Reply: Reply to ADS raised in 41st EAC held on 14th March 2023 and ADS raised in 14th EAC meeting held on 5th -7th August 2024 are as follows:

ADS raised in 41st EAC Meeting held on 14th March 2023:

S. No.	Points	ADS Reply
1.	The PP shall take immediate mitigation measures	PP submitted the details of control measures

S. No.	Points	ADS Reply
	in order to reduce the air pollution in the mine lease area and the submit the measures taken for the mine employee in polluted environment	adopted before & after March 2023 including the equipments added and coverage being extended.
2.	The PP shall install another CAAQMS towards village side within six month and the data to be displayed for local villagers	PP submitted that CAAQMS unit with data display board has been installed on 03.04.2024. PP also displayed the pictures of the same.
3.	The PP should submit the Compliance report of the Amendment in EC dated 24.12.2021.	PP submitted the details.
4.	PP shall submit the action plan of mechanized conveyor system for 100% transportation of coal till railway siding with silo loading facility	<p>PP submitted that transportation of coal is being done with mechanized conveyor system. Details are as below:</p> <ul style="list-style-type: none"> • Extraction of coal is being done through dragline-dumper-shovel combination. • The coal is transported from the face to Coal Handling Plant (CHP) through dumpers. • From CHP to Silo through enclosed conveyor system. • From SILO the coal is being loaded to railway wagons through Rapid Loading System. • Thereafter by Merry Go Round system to Rihand Super Thermal Power Station (3000 MW Capacity) of M/s NTPC.
5.	PP shall submit plan to convert 100% haul road from unpaved to paved to reduce the emission of fugitive dust.	PP submitted that all the mine approach road are black topped and paved, additionally the central haul road has been made of RCC in the F.Y. 2023-24.
6.	PP shall submit mitigation plan for dust emission from Coal Handling Plant and Coal storage yard.	<p>Measures for mitigation of dust emission from the Coal Handling Plant and Coal storage yard:</p> <ul style="list-style-type: none"> • Installation of Fixed Fog Canon at the CHP crusher and coal yard. • Improving efficiency of the mist spray system at crusher. • Increasing frequency of water spraying. • Improving the dumper loading capacity thereby reducing the nos. of trips of dumpers.
7.	PP shall submit the compliance of earlier issues raised during Public Hearing and budget spent on the said issues.	<p>PP submitted that –</p> <ul style="list-style-type: none"> • Public Hearing for Amlohri OCP for 10.0 Mtpa Capacity in 2175.00 ha ML area was conducted by MPPCB on 10.06.2005. • Issues raised during the Public Hearing have already been addressed
8.	PP shall submit the effluent characteristics of its ETP and STP	PP submitted that in the submitted report all the parameters are within the prescribed limit.

ADS raised in 14th EAC meeting held on 5th -7th August 2024:

S. No.	Points	ADS Reply
1.	Project proponent shall submit factual report from the Regional Office on the partial non-compliances observed by them based on the action taken report of PP.	Factual status report of earlier CCR issued by RO, MoEF&CC, Bhopal vide letter no. 3-45/2015(Env) dated 03.12.2024 is submitted.
2.	PP shall submit the compliance to the additional mitigation measures prescribed in the EC dated 26/07/2022 with respect to the location of mine in severely polluted area.	The status of compliance to the additional mitigation measures prescribed in the EC dated 26/07/2022 with respect to severely polluted area are submitted.
3.	Time bound action plan to address the issues raised during public hearing as per MoEF&CC OM dated 30/09/2020 shall be submitted.	Public Hearing for expansion of Amlohri Project for 10 MTPA was held on 10.06.2005 at Community Hall, Waidhan, Singrauli. During the public hearing, following issues were raised: 1. Environmental conservation 2. Displacement 3. Plantation 4. Infrastructure 5. Approach road to Muher village The details of works carried out along with expenditure incurred during the last 04 years in compliance to the observation, the Time bound action plan for proposed activities as per MoEF&CC's OM dated 30.09.2020 is submitted.
4.	Drone Video of the compliance of the EC conditions pertaining to the plantation should be submitted by the PP.	The Drone video of the compliance of the EC conditions pertaining to plantation and environmental protection measures has been uploaded at Google Drive due to the limitation of size of video file.
5.	Renewed application or the status of the application for renewal submitted to CGWA should be submitted.	Application for renewal of NoC for ground water abstraction has been submitted vide application no.21-4/877/MP/MIN2019 on 14.12.2023. Application is under process at Office of CGWA, New Delhi. Matter was followed up at Office of CGWA, new Delhi on 28.09.2024. Meeting of EAC (CGWA) for appraisal of application is awaited.

20.18.19: Written Submission: PP submitted the following:

S. No.	Particulars	Reply
1	Submission of undertaking by the project proponent for implementation of	Undertaking submitted

S. No.	Particulars	Reply
	recommendations of the ongoing study for assessment of carrying capacity of the mine.	
2	Submission of time bound action plan for compliance of the EC conditions considered as Partially Complied as per the report dated 03.12.2024 of RO, MoEF&CC, Bhopal	The time-bound action plan with estimated expenditure for compliance of partially complied EC conditions is submitted.
3	Present status of renewal of Forest Clearance of 1195.0 ha forest land.	Presently, the proposal for grant of Stage II FC (Proposal no. FP/MP/MIN/28743/2017) is under consideration at the level of State Govt. of MP for reply of MoEF&CC's last EDS dated 10.06.2024

Observation and deliberation of the EAC:

20.18.20: Committee after deliberations noted the following:

- i. MoEF&CC accorded EC to M/s Northern Coalfields Limited on 26/07/2022 for Expansion of Amlohri Open Cast mines from 14 MTPA to 15 MTPA (increase of 10% with respect to 10 MTPA) within project area of 2175 ha located at P.O Amlohri, District Singrauli, State - Madhya Pradesh on 26/07/2022 as per the special dispensation accorded vide OM dated 7/05/2022 with a condition that CCR report for the EC granted for 40% expansion along with EIA/EMP report prepared based on standard ToRs for the additional capacity addition of 10% shall be submitted on Parivesh portal within six 6 months of enhancement of production beyond 40%.
- ii. The instant proposal is for the regularisation of EC, as the proponent has already implemented the capacity addition of 10% (i.e. complete 50%) in its production capacity.
- iii. 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.
- iv. Project fall in the Severely Polluted Area (SPA), as per CEPI Assessment 2018 and is complying with the additional conditions pertaining to SPA to mitigate the pollution.
- v. PP submitted that 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. PP also submitted that there are no Schedule-I species reported in the study area.
- vi. Existing capital cost of project was 1905.27 Crores. The capital cost of the proposed project is same as the existing project and the capital cost for environmental protection measures is Rs 26.03 Crores. For the expansion the capital cost for environmental protection measures proposed is Rs. 2.26 crores. The annual recurring cost towards the environmental protection measures is proposed as Rs 5 Crores.
- vii. Project involves total 1195 Ha of forest land. The PP acquired Stage – II FC on the 300 Ha of forest area vide letter no. F-8-194/84FRY dated 10.06.1985, No. 8-33/97-FC dated

25.11.1997, no. F-8-100/97-FC dated 13.01.1999, No. F-8-100/97-FC dated 12.08.99, No.F-8-100/97-FC dated 14/19.03.2002 &F No.-8-100/97- FC dated 18.10.2002 (wef 12.08.2001). Also, acquired Stage - II FC on 895 Ha of forest land vide No. 8-194/84-FC dated 30.12.1987. The validity of the same expired and PP again applied for the same and acquired its Stage – I FC vide letter no. F. No. 8-194/1984- FC (Pt.), dated 12.12.2018 on 1195 Ha forest land. Total broken forestland as on 01.04.2022 is 805 ha.

- viii. The mining plan & mine closure plan for the project was approved for 15 MTPA capacity in 2175 ha area by the NCL Board in 703rd meeting held on 12.05.2022 and communicated vide board note letter no. NCL/CP/Board/2525 dated 12.05.2022. Present proposal is for 10% capacity expansion i.e. for 15 MTPA as per MoEF&CC OM dated 07.05.2022.
- ix. Total mining lease area is 2175 Ha. Mining Plan (including Progressive Mine Closure Plan) has been approved by the NCL Board on 12.05.2022.
- x. Total geological reserve reported in the mine lease area is 364.08 MT with 314.46 MT mineable reserves. Out of total mineable reserve of 314.46 MT, 314.46 MT is available for extraction. Life of mine is 11 years as on 01.04.2022.
- xi. Committee observed that water withdrawal permission has been accorded by the proponent From UP State government vide Letter No.649-CU-II/NTPC/79 dated 13.03.1979 and for groundwater, application for renewal has been submitted to CGWA on 14.12.2023. The same is under process.
- xii. Committee deliberated on the baseline data submitted by the proponent and observed the air quality parameters on the higher side. Committee observed that as the project falls in the Severely Polluted Area, mitigation measures in this regard are being complied by the proponent. Committee opined that the proponent shall continue to follow those measures and in addition to that shall comply with all the recommendations of the Carrying Capacity Report, which is expected to be received by February 2025.
- xiii. Committee deliberated on the plantation activities undertaken by the proponent and observed that existing green belt has been developed in 484 ha area which is about 22 % of the total project area of 2175 ha with total 12.10 lakh sapling of Trees. 7.5 m wide greenbelt, consisting of at least 3 tiers around mine boundary will be developed as greenbelt and green cover (total area 1717.40 ha) 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 42.93 lakhs saplings will be planted and nurtured in 1717.4 hectares in 10 years.
- xiv. Committee also opined that PP should distribute saplings of fruit bearing species in the nearby villages and R&R colonies and incentivize the villagers for its survival.
- xv. Committee deliberated on the mode of transportation of coal and observed that the coal is transported from pit to surface through dumpers, surface to siding through conveyor belt and siding to loading through rail. Committee opined that the periphery of the conveyor should be densely planted.

- xvi. Committee deliberated on the closure report obtained from Ministry's RO and observed that there are still few conditions which are partly complied. Out of these partly complied conditions, few pertain to submission of relevant documents and geo – tagged photos, which the proponent has submitted. Committee opined that the proponent shall submit a time bound action plan for the partly complied conditions and proponent submitted the same.
- xvii. Committee observed that condition pertaining to carrying out health check-up for occupational diseases and hearing impairment, if any, through a specialized agency/institution within the District/State of the 10% of identified workers engaged in active mining operations is yet to be conducted, for which proponent has initiated the request vide dated 26.08.2024 for health study of the workers through specialized institute of the state. Committee opined that the same shall be complied with at the earliest. PP submitted that the same is proposed to be completed by December 2025.
- xviii. Committee deliberated on the compliance of public hearing action plan and found it to be satisfactory.
- xix. There are no court cases pending against the proposed project.
- xx. As per the OM dated 7/05/2022, the application has to be submitted within six 6 months of enhancement of production beyond 40 %. In the instant case EC was accorded on 26/07/2022 and application was submitted on Parivesh on 25/01/2023 which is beyond the time frame of six months i.e., beyond 22/01/2023.
- xxi. The EAC also deliberated on the additional information as well as written submission of the project proponent and found it satisfactory.

Recommendations of the Committee:

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

A. Specific Conditions:

- i. Project proponent shall submit the Stage –II Forest Clearance (FC) for 1195 Ha of forest land under the provisions of Van (Sanrakshan Evam Samvardhan) Adhiniyam, 1980.
- ii. Project proponent shall comply with the following non-conformities as reported by the Regional Office as per the timeline given below as committed. Compliance in this regard shall be submitted along with the six monthly compliance report to the concerned Regional Office and also kept on the web portal of the company.

Description of Condition	Timeline	Estimated expenditure
Compensatory Ecological & Restoration of waste land, other degraded land and OB dumps in lieu of breaking open the land be carried out.	31.03.2025	-
Besides carrying out regular periodic health check-up of their workers, 10% of the workers identified from workforce engaged in active mining operations shall be subjected to health check-up for occupational diseases and hearing impairment, if any, through a specialized agency/institution within the District/State and the results reported to this Ministry and to DGMS.	31.12.2025	Rs 5 Lakh (Approx.)

- iii. All the Coal shall be transported from the mine to the end users through the dedicated MGR (Merry Go Round) Railway system only except 1.5 MTPA of coal is permitted to be transported by road to the small scale industry and thermal power located within the vicinity of the mine lease area.
- iv. 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.
- v. Project proponent shall submit the carrying capacity study report along with the matrix containing action plan to comply with the recommendations of the study report with physical & financial outlay to the concerned Regional Office of the MoEF&CC within two months from the date of grant of EC. Compliance to the action plan shall be monitored by the concerned Regional Office of the MoEF&CC.
- vi. To control the production of dust at the source, the crusher shall be equipped with mist-type sprinklers. PP shall install fixed fog cannon (mist sprayer) and fixed sprinkler all along the haul road/ CHP, and OB dump till Railway siding is completed. The sufficient number of fog cannons with 40 mts jet length shall be installed within 6 months from the date of grant of EC. It should be ensured that air pollution level confirm to the standards prescribed by the MOEFCC/CPCB.
- vii. A detailed water harvesting plan may be prepared by the project proponent for water augmentation and submitted to Regional Office of MoEF&CC.
- viii. Total water requirement for the proposed project is 6099 KLD and the same shall be met from surface water, groundwater and mine water. PP shall obtain requisite NoC for withdrawal of water from the concerned competent authority.
- ix. Mine shall operate on zero discharge condition, i.e. no treated/ untreated effluent is discharged outside the mine premises, except monsoon season with prior permission of State Pollution Control Board.

- x. Greenbelt of 7.5 m wide, consisting of at least 3 tiers around mine boundary will be developed as greenbelt and green cover (total area 1717.40 ha) 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 42.93 lakhs saplings shall be planted and nurtured in 1717.4 ha area in 10 years. In addition to this, PP shall provide 50,000 plant saplings with 4 feet tall fruit bearing plants to farmers for plantation in barren and agriculture lands in the study area every year for 5 years with incentive to improve the green cover in and around the mine lease area.
- xi. 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. 2602.90 Lakh 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. In addition to this, PP shall provide 50,000 plant saplings with 4 feet tall fruit bearing plants to farmers for plantation in barren and agriculture lands in the study area every year for 5 years with incentive to improve the green cover in and around the mine lease area. Besides, project proponent shall carry out three tier plantation along the coal transportation route. Compliance in this regard shall be submitted along with the six monthly compliance to the concerned Regional Office and also kept on the web portal of the company.
- xii. The budget proposed for compliance to the PH held on 14/06/2019 (FY2024-25) is Rs 255.24 Lakhs. The budget proposed shall be kept in a separate account. Project proponent shall implement the action plan to address the issues raised during public hearing within the stipulated time frame. PP shall submit the progress report regarding the implementation of action plan to concerned RO along with the six monthly compliance report. In addition to this, PP shall strengthen the existing Primary Health Center (PHC) & Community Health Center (CHC) in the study area for better public health. As committed by the PP, PHCs & CHCs within the core and buffer zone shall be supported with adequate budget over 5 years, 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.
- xiii. Hon'ble Supreme Court in an Writ Petition(s) Civil No. 114/2014, Common Cause vs Union of India & Ors vide its judgement dated 8th January, 2020 has directed the Union of India to impose a condition in the mining lease and a similar condition in the environmental clearance and the mining plan to the effect that the mining lease holders shall, after ceasing mining operations, undertake re-grassing the mining area and any other area which may have been disturbed due to their mining activities and restore the land to a condition which is fit for growth of fodder, flora, fauna etc. Compliance of this condition after the mining activity is over at the cost of the mining lease holders/Project Proponent". The implementation report of the above said condition shall be sent to the Regional Office of the MoEF&CC.
- xiv. PP shall ensure that all types of plastic waste generated from the plant shall be stored separately in isolated area and disposed of strictly adhering to the Plastic Waste Management Rules 2016 (as amended). In pursuant to the Ministry's OM dated 18/07/2022. PP shall also create awareness among the people working in the project area as well as in its surrounding area on the ban on Single Use Plastic (SUP) in order to ensure compliance of Ministry's Notification published by the Ministry on

12/08/2021. A report along with photograph on the measures taken shall also be included in the six monthly compliance report being submitted by PP.

- xv. Project proponent is advised to implement the 'Ek Ped Maa Ke Naam' Campaign which was launched on 5th June 2024 on the occasion of the World Environment Day to increase the forest cover across the Country. This plantation drive is other than Green belt development. The action in this regard shall be submitted concerned RO in six monthly report.

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. The project proponent shall obtain clearance from the National Board for Wildlife, if applicable.
- iii. 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.
- iv. The maximum production or peak production at any given time shall not exceed the limit as prescribed in the EC.
- v. Validity of EC is as per life of the mine mentioned in EC letter or 30 years as per EIA Notification, 2006 and its amendments therein.

2. Air Quality Monitoring and Mitigation Measures

- i. Adequate ambient air quality monitoring stations shall be established in the core zone as well as in the buffer zone for monitoring of pollutants, namely particulates, SO₂ and NO_x. 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.
- ii. The Ambient Air Quality monitoring in the core zone shall be carried out to ensure the Coal Industry Standards notified vide GSR 742 (E) dated 25th September, 2000 and as amended from time to time by the Central Pollution Control Board. Data on ambient air quality and heavy metals such as Hg, As, Ni, Cd, Cr and other monitoring data shall be regularly reported to the Ministry/Regional Office and to the CPCB/SPCB.
- iii. Effective control measures such as regular water sprinkling/rain gun/ Fog cannon /mist sprinkling etc., shall be carried out in critical areas prone to air pollution with higher level of particulate matter all through the coal transport roads, loading/unloading and transfer points. Fugitive dust emissions from all sources shall be controlled regularly. It shall be ensured that the ambient air quality parameters conform to the norms prescribed by the Central/State Pollution Control Board.
- iv. Major approach roads shall be black topped and properly maintained.
- v. Vehicular emissions shall be kept under control and regularly monitored. All the vehicles engaged in mining and allied activities shall operate only after obtaining 'PUC' certificate from the authorized pollution testing centres.
- vi. PP should Install Wind breaker/shield arrangement along the railway siding for

reducing the dust propagation in upwind direction.

3. Water Quality Monitoring and Mitigation Measures

- i. The effluent discharge (mine waste water, workshop effluent) shall be monitored in terms of the parameters notified under the Water Act, 1974 Coal Industry Standards vide GSR 742 (E) dated 25th September, 2000 and as amended from time to time by the Central Pollution Control Board.
- ii. The monitoring data shall be uploaded on the company's website and displayed at the project site at a suitable location. The circular No.J-20012/1/2006-1A.11 (M) dated 27th May, 2009 issued by Ministry of Environment, Forest and Climate Change shall also be referred in this regard for its compliance.
- iii. Garland drains (of suitable size, gradient and length) around the critical areas i.e. mine shaft and low lying areas, 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
- iv. The water pumped out from the mine, after siltation, shall be utilized for industrial purpose viz. watering the mine area, roads, green belt development etc. The drains shall be regularly desilted particularly after monsoon and maintained properly
- v. Industrial wastewater from coal handling plant and mine water shall be properly collected and treated so as to conform to the standards prescribed under the Environment (Protection) Act, 1986 and the Rules made thereunder, and as amended from time to time. Oil and grease trap shall be installed before discharge of workshop effluent. Sewage treatment plant of adequate capacity shall be installed for treatment of domestic wastewater.
- vi. The surface drainage plan including surface water conservation plan for the area of influence affected by the said mining operations shall be prepared, considering the presence of any river/rivulet/pond/lake etc., with impact of mining activities on it, and implemented by the project proponent. The surface drainage plan and/or any diversion of natural water courses shall be as per the provisions of the approved Mining Plan/ EIA-EMP submitted to this Ministry and the same should be done with due approval of the concerned State/GoI Authority. The construction of embankment to prevent any danger against inrush of surface water into the mine should be as per the approved mining plan and as per the permission of DGMS.
- vii. 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.
- viii. Industrial effluent and domestic wastewater shall be treated in the Effluent treatment Plant (ETP) and Sewage Treatment Plant (STP). After treatment, treated water shall be reused for plantation.

4. Noise and Vibration Monitoring and Prevention

- i. Adequate measures shall be taken for control of noise levels as per Noise Pollution Rules, 2016 in the work environment. Workers engaged in blasting and drilling operations, operation of HEMM, etc shall be provided with personal protective

equipments (PPE) like ear plugs/muffs in conformity with the prescribed norms and guidelines in this regard. Adequate awareness programme for users to be conducted. Progress in usage of such accessories to be monitored.

- ii. The noise level survey shall be carried out as per the prescribed guidelines to assess noise exposure of the workmen at vulnerable points in the mine premises, and report in this regard shall be submitted to the Ministry/RO on six-monthly basis.

5. Mining Plan

- i. Project proponent shall obtain star rating as per the guidelines of Ministry of Coal.
- ii. Mining shall be carried out under strict adherence to provisions of the Mines Act 1952 and subordinate legislations made there-under as applicable.
- iii. No change in mining method, calendar programme and scope of work shall be made without obtaining prior approval of the Ministry of Environment, Forests and Climate Change (MoEFCC).
- iv. 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 circulars issued by Directorate General Mines Safety (DGMS).
- v. Efforts should be made to reduce energy and fuel consumption by conservation, efficiency improvements and use of renewable energy.

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) from time to time shall be submitted to the Regional Office of MoEF&CC.
- (ii) The final mine void depth should preferably be as per the approved Mine Closure Plan, and in case it exceeds 40 m, adequate engineering interventions shall be provided for sustenance of aquatic life therein. The remaining area shall be backfilled and covered with thick and alive top soil. Post-mining land be rendered usable for agricultural/forestry purposes and shall be diverted. Further action will be treated as specified in the guidelines for Preparation of Mine Closure Plan issued by the Ministry of Coal dated 27th August, 2009 and subsequent amendments.
- (iii) The entire excavated area, backfilling, external OB dumping (including top soil) and afforestation plan shall be in conformity with the “during mining”/”post mining” land-use pattern, which is an integral part of the approved Mining Plan and the EIA/EMP submitted to this Ministry. Progressive compliance status vis-a-vis the post mining land use pattern shall be submitted to the MOEFCC/RO.
- (iv) Further, it may be ensured that as per the time schedule specified in mine closure plan it should remain live till the point of utilization. The topsoil shall temporarily be stored at earmarked site(s) only and shall not be kept unutilized. 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.

- (v) 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.

7. Public Hearing and Human Health Issues:

- i. Adequate illumination shall be ensured in all mine locations (as per DGMS standards) and monitored.
- ii. The project proponent shall undertake occupational health survey for initial and periodical medical examination of the personnel engaged in the project and maintain records accordingly as per the provisions of the Mines Rules, 1955 and DGMS circulars. Besides regular periodic health check-up, 20% of the personnel identified from workforce engaged in active mining operations shall be subjected to health check-up for occupational diseases and hearing impairment, if any, as amended time to time
- iii. 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.
- iv. 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.
- v. Effective arrangement shall be made to provide and maintain at suitable points conveniently situated, a sufficient supply of drinking water for all the persons employed.
- vi. 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. Corporate Environment Responsibility:

- 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 and/or shareholders/stake holders
- ii. A separate Environmental Cell both at the project and company head quarter level, with qualified personnel shall be set up under the control of senior Executive, who will directly report to the head of the organization.

9. Miscellaneous:

- i. The project proponent shall make public the environmental clearance granted for their project along with the environmental conditions and safeguards at their cost by prominently advertising it at least in two local newspapers of the District or State, of which one shall be in the vernacular language within seven days and in addition this shall also be displayed in the project proponent's 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 environment clearance portal.
- v. 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.
- vi. The project authorities shall inform to the Regional Office of the MOEFCC regarding commencement of mining operations.
- vii. The project authorities must strictly adhere to the stipulations made by the State Pollution Control Board and the State Government.
- viii. 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.
- ix. No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment, Forests and Climate Change (MoEF&CC).
- x. 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.
- xi. The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.
- xii. The Ministry reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.
- xiii. 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
- xiv. 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 No. 20.19:

20.19: Expansion of Balram OCP (earlier known as Kalinga OCP) (with increase in mine lease area from 1309 Ha to 2574 Ha and increase in production capacity from 8 MTPA to 15 MTPA) by M/s Mahanadi Coalfields Limited, located at Villages: Nakeipasi, Brahmanbahali, Kochianali, Damal, Prasana Nagar, Nathagaon, Majhika, Kalachhuin, Danara, Natada, Banabaspur, Telipur, Solada, Satyabadipur, Gopalprasadhkhamar, Khuringa and Birabarpur; District: Angul; State: Odisha – Environmental Clearance based on ADS reply -reg.

[Online Proposal No. IA/OR/CMIN/411408/2022; Consultant: CMPDIL; NABET/EIA/22-25/SA0223 valid till 08/04/2025]

20.19.1: M/s. Mahanadi Coalfields Limited has made an online application vide proposal no. IA/OR/CMIN/411408/2022 on 18/01/2023 along with copy of EIA/EMP report, Form 1 (Part A, B & C) 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 appraised at the central level.

The project of M/s Mahanadi Coalfields Limited located at villages Nakeipasi, Brahmanbahal, Damal, Prasanagar, Nathagaon, Majhika, Kalamachhuin, Danara, Natada, Banabaspur, Telipur, Solada, Satyabadipur, Gopalprasad Khamar, Khuringa, Birabarpur and Kochianali of Tehsil Talcher Sadar, District Angul, State- Odisha is for setting up for enhancement of production from 8.0 to 15.0 MTPA and increase in mining lease area from 1309.0 ha to 2574.0 Ha. This project was earlier considered in 40th EAC meeting held during 16-17 February 2023 and 44th EAC meeting held on 9th May 2023, wherein the project was deferred for additional information. PP submitted the reply of the ADS raised in 44th EAC meeting held on 9th May 2023 on 30th November 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:

20.19.2: Details of Previous Approvals in chronological orders:

Sl. No.	Details of Letter No.	EC	Capacity (MTPA)	Area in ha	Date of issuance	Status of implementation
1.	F.No.J-11015/4/87-IA	EC	8.0	1309	24.10.1990	Being implemented

20.19.3: Production details of existing EC: W.r.t the previous approvals, PP submitted the actual production details of the concerned mine and submitted that the mine became operational from 1991-92 onwards. CTO renewal for 7.74 MTPA has been obtained from the SPCB and the existing CTO is valid up to 31.03.2025. Details of the same are as follows:

Year	EC capacity (MTPA)	Actual coal Production in MTPA	Excess production beyond the EC sanctioned capacity
1990 – 91	8.00	0.00	Nil
1991 – 92	8.00	0.13	Nil
1992 – 93	8.00	1.21	Nil
1993 – 94	8.00	1.50	Nil
1994 – 95	8.00	1.76	Nil
1995 – 96	8.00	2.57	Nil
1996 – 97	8.00	3.81	Nil
1997 – 98	8.00	4.34	Nil
1998 – 99	8.00	5.03	Nil
1999 – 00	8.00	6.41	Nil
2000 – 01	8.00	4.90	Nil
2001 – 02	8.00	5.28	Nil
2002 – 03	8.00	5.20	Nil
2003 – 04	8.00	4.03	Nil
2004 – 05	8.00	4.85	Nil
2005 – 06	8.00	3.21	Nil
2006 – 07	8.00	4.13	Nil
2007 – 08	8.00	4.91	Nil
2008 – 09	8.00	3.50	Nil
2009 – 10	8.00	3.61	Nil
2010 – 11	8.00	4.55	Nil
2011 – 12	8.00	5.56	Nil
2012 – 13	8.00	5.63	Nil
2013 – 14	8.00	4.57	Nil
2014 – 15	8.00	3.70	Nil
2015 - 16	8.00	2.52	Nil
2016 – 17	8.00	2.81	Nil
2017 – 18	8.00	2.79	Nil
2018 – 19	8.00	3.63	Nil
2019 - 20	8.00	5.23	Nil
2020 - 21	8.00	6.26	Nil
2021 - 22	8.00	6.52	Nil
2022 - 23	8.00	7.74	Nil
2023 - 24	8.00	7.74	Nil
Total		139.63	

20.19.4: Certified Compliance Report: The project was inspected by the IRO, MoEF&CC, Bhubaneswar on 21.01.2022 and CCR was issued vide letter no. 101-31/EPE/228 dated 28.01.2022. Action taken report of the issued CCR dated 28.01.2022 was submitted by the project proponent on 19.02.2022. In compliance to the CCR dated 28.01.2022, the PP was to set up a field laboratory. After setting up of the field laboratory, a revised CCR compliance was submitted to IRO, Bhubaneswar vide letter dated 23.11.2024. The IRO visited Balram OCP again on 16.12.2024 for inspection of the EC conditions. IRO, Bhubaneswar issued CCR for Balram OCP vide letter no. 101-929/EPE dated 26-12-2024. The Action taken report regarding 3 points - partially complied (point no. 1) and being complied but further action

needed (point no. 2 & 3) was submitted to IRO, MoEF&CC, Bhubaneswar vide letter no. MCL/GM/HA/ENVT/2024-25/523 Dated 05.01.2025.

Compliance to the Observations of the CCR vide no. 101-929/EPE, Dated 26-12-2024

S. No.	Details of the EC	Condition as per EC	Observation of RO (abridged)	Response of PP															
1	EC dated 24.10.1990, condition no. 5	The rehabilitation package for the displaced person should be in conformity with the government of India decision on rehabilitation.	<p>Partially complied</p> <p>The rehabilitation package for the displaced person should be in conformity with the government of India decision on rehabilitation. However, it is informed that the R&R is still in progress.</p> <p>The details on R & R status as on 30.09.2024 is given in the table below:</p> <p>Details on the status of R&R as on 30.09.2024</p> <table border="1"> <thead> <tr> <th>S. No.</th> <th>Details of Rehabilitation</th> <th>Details on Resettlement</th> </tr> </thead> <tbody> <tr> <td>i.</td> <td>Total employment to be given – 1737</td> <td>Total displaced families - 791</td> </tr> <tr> <td>ii.</td> <td>Employment given so far – 1694</td> <td>PAFs received cash Compensation in lieu of - 566 Plots / land</td> </tr> <tr> <td>iii.</td> <td>No. of families opted for cash – 17</td> <td>225 Yet to be resettled</td> </tr> <tr> <td>iv.</td> <td>No. of families yet to - 26 be employed</td> <td></td> </tr> </tbody> </table>	S. No.	Details of Rehabilitation	Details on Resettlement	i.	Total employment to be given – 1737	Total displaced families - 791	ii.	Employment given so far – 1694	PAFs received cash Compensation in lieu of - 566 Plots / land	iii.	No. of families opted for cash – 17	225 Yet to be resettled	iv.	No. of families yet to - 26 be employed		<ul style="list-style-type: none"> The rehabilitation and resettlement of the project affected families/persons is being governed as per R&R policy (2006 and its subsequent amendment) of Govt. of Odisha. It comprises of two components: <ol style="list-style-type: none"> 1. Rehabilitation: For rehabilitation of eligible persons either job or cash compensation in lieu of employment is provided. Out of the 1737-person eligible persons, 1694 persons have been given employment and 17 persons have been given cash in lieu of employment. The remaining 26 persons could not be rehabilitated due reasons such as non-submission of documents due to intra family disputes, non-eligibility and death of the person. The budget allocated for rehabilitation of the remaining 26 persons is Rs 4.16 Cr. 2. Resettlement: For resettlement either plot or cash compensation in lieu of plot is provided. Out of 791 displaced families, 566 have opted cash compensation in lieu of Plots. For the remaining 225 families, a resettlement site having all basic facilities such as electricity, water supply, sewerage, roads etc is being constructed in Kochianali village. The work is 50 % complete and is expected to be completed by March 2025. The remaining 225 families will be resettled by April 2025 and the budget for the same is Rs 36.50 Cr.
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2	EC dated 24.10.1990, condition no. 6	The reclamation of mined areas shall be implemented to make it compatible with the pre-mining land use pattern. The progress in this regard	<p>Being Complied but further action needed.</p> <p>From the reports submitted by the project, it is noted that the internal dumping is technically reclaimed by bringing it into surface level and plantation is being done over it. Total area excavated till 30.09.2024 is 525.51 Ha. During the inspection, it was noted that the project has a total de-coaled area of 438.56 ha out of which backfilled area is 348.65 ha. The bio-reclaimed area is 107.85 ha. It is noted that the reclamation of de-coaled areas need to be prioritized and biological reclamation of the dumps may be expedited. The details of land reclamation is given</p>	<ul style="list-style-type: none"> Out of the total excavation area of 668 ha (as per EC), 525.51 ha is excavated. The balance 142.49 ha of excavation area is yet to be excavated. This lies in the villages Majhika (part) and Natada (part), which have not been displaced yet. Therefore, due to non-excavation of this area sufficient OB is not available for backfilling of the de-coaled area and thus it has not achieved its ground level, because of which plantation could not be 															

S. No.	Details of the EC	Condition as per EC	Observation of RO (abridged)	Response of PP																																						
		should be made available to this Ministry half yearly for review. The strategies for release of land should be furnished within six months.	<p>in the table below:</p> <p>Details on the de-coaled and reclamation of mined out areas in the project:</p> <table border="1"> <thead> <tr> <th>S. No.</th> <th>Particulars of land</th> <th>Forest area (ha)</th> <th>Non-forest area (ha)</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Total area</td> <td>85.01</td> <td>1223.99</td> </tr> <tr> <td>2</td> <td>Broken up Area</td> <td>58.33</td> <td>467.18</td> </tr> <tr> <td>3</td> <td>Bio-reclaimed area</td> <td>13.42</td> <td>94.43</td> </tr> </tbody> </table> <p>Details on plantation carried out over the external OB dump:</p> <table border="1"> <thead> <tr> <th rowspan="2">Year</th> <th colspan="2">OB dump/ Slope/ BF/ Vacant Area</th> <th rowspan="2">Species Planted</th> </tr> <tr> <th>Area in Ha</th> <th>No. of plantation</th> </tr> </thead> <tbody> <tr> <td>2020-21</td> <td>7.75</td> <td>13360</td> <td rowspan="6">Neem, Amla, Harida, Bahada, Gambhari, Karanja, Sisris, Chakunda Sisoo, Teak, Radha Chuda, Krishna Chuda etc.</td> </tr> <tr> <td>2021-22</td> <td>10.625</td> <td>16960</td> </tr> <tr> <td>2022-23</td> <td colspan="2">2 Ha Grassing and seedball 18000 Nos. Plantation</td> </tr> <tr> <td>2023-24</td> <td colspan="2">2 Ha Grassing and seedball 6000 Nos. Plantation</td> </tr> <tr> <td>2024-25</td> <td>2 Ha</td> <td>3200</td> </tr> </tbody> </table>	S. No.	Particulars of land	Forest area (ha)	Non-forest area (ha)	1	Total area	85.01	1223.99	2	Broken up Area	58.33	467.18	3	Bio-reclaimed area	13.42	94.43	Year	OB dump/ Slope/ BF/ Vacant Area		Species Planted	Area in Ha	No. of plantation	2020-21	7.75	13360	Neem, Amla, Harida, Bahada, Gambhari, Karanja, Sisris, Chakunda Sisoo, Teak, Radha Chuda, Krishna Chuda etc.	2021-22	10.625	16960	2022-23	2 Ha Grassing and seedball 18000 Nos. Plantation		2023-24	2 Ha Grassing and seedball 6000 Nos. Plantation		2024-25	2 Ha	3200	<p>done.</p> <ul style="list-style-type: none"> Currently an area of 348.65 ha is under backfilling and 107.85 ha is biologically reclaimed. The total green cover of Balram OCP (including plantation over backfilled area, dumps withing mine lease, block and avenue plantation and green belt is 232.57 ha. Upon grant of EC of expansion from 8 MTY to 15 MTY (expansion in capacity and area), the OB generated from the expansion area will be backfilled in the de-coaled area so that it can achieve its ground level and further plantation can be expedited over the de-coaled area. <p>A total of 1554.24 ha land will be biologically reclaimed with 3885600 saplings (2500 saplings per ha) in a phase wise manner, till the end of mine life.</p>
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3	EC dated 24.10.1990, condition no. 9	The conditions stipulated in the EMP are being complied with by the project proponents but improvement in the existing pollution control measures, especially with respect to		<p>Being Complied but further action needed.</p> <p>During the visit, it was observed that the project authorities had adopted various pollution control measures. Mobile tankers have been used for sprinkling water on the haul road, mobile fog cannons, trolley mounted fog cannons had been deployed for suppression of dust in coal stock, railway siding, haul road and coal corridor and mechanical road sweepers for the concrete and black topped roads. There was also a provision of wheel washing facility and instant shower system for all the covered vehicles moving out of the mine area so that dust is not dispersed from the vehicles.</p>	<ul style="list-style-type: none"> Balram Opencast Project (OCP) has implemented a series of advanced Pollution control measures aimed at reducing environmental impact, particularly w.r.t. dust suppression and water quality management such as: <ul style="list-style-type: none"> 1. Dust control measures: 20 No's of Truck mounted Fog cannon (40m throw), 8 No's of Trolley mounted Fog cannon (100 m throw), Mobile Water Sprinklers (Mist Sprinklers - Departmental and Contractual), Fixed sprinklers, Instant shower system, Wheel washing system, Mechanical road sweeper, 7.02 km 																																					

S. No.	Details of the EC	Condition as per EC	Observation of RO (abridged)	Response of PP
		dust control and effluent water treatment is suggested.		<p>Dedicated RCC Coal corridor road for coal transportation, 13.5 km Internal RCC Coal transport road (from coal stock to railway siding and coal corridor)</p> <p>2. Air Quality monitoring: CAAQMS (Continuous Ambient Air Quality Monitoring system)</p> <p>3. Dust Free Mining Technology: Surface Miners and Xcentric Ripper excavators</p> <p>4. Water pollution control measures: 300 KLD Effluent treatment plant, 1.4 MLD Sewage treatment plant.</p> <p>Further, additional measures such as 01 No's of Fog Cannon. 01 No's Mobile water sprinkler, Metallic wind barrier system, Enhancement of ETP with tertiary treatment units such as pressure sand filters and Activated carbon filters, Installation of MD-ETP of capacity 1.4 MLD are also proposed, with an estimated budget of 17.17 Cr.</p>

20.19.5: Details of ToR:

Date of Application	Details	Date of Accord	ToR Validity
23.07.2021	17 th EAC 09.08.2021	20.09.2021	19.09.2025

20.19.6: Environmental Site Settings:

The project area is covered under Survey of India Topo-sheet No: F45T1(73H/1) on RF 1:50000 and is bounded by the geographical coordinates ranging from Latitude: 20°55'53.60" to 20°59'7.11" North; Longitude: 85°2'36.37" to 85°6'21.71" East. Project does not fall in the Critically Polluted Area (CPA)/ Severely Polluted Area (SPA) as per CEPI Assessment 2018.

Mining Lease: PP submitted the following details of land acquired and the mine lease area.

S. No.	Govt. Order/Notifications as the case may be	Area (ha)
	As per CBA Act :	
1	9(1) SO No.1199 Dt 10.05.1989	755.920
2	9(1) vide SO No. 222; dt: 21.01.1997	1023.954

S. No.	Govt. Order/Notifications as the case may be	Area (ha)
3	9(1) SO No.2259 dt 16.08.2008	1190.03
4	9(1) SO No.498(E) dtd.01.03.2013	17.220
5	9(1) SO No.1261(E) dt.29.3.2016	340.429
	Sub Total A (1 to 5)	3327.553
6	LA Act: 145 dt.11.1.83, 2137 dt.11.1.83, 35276 dt.30.5.83, 15616 dt.5.3.84, 43712 dt.5.7.88, 50482 dt.7.8.89, 6878 dt.24.11.89, 13285 dt.27.3.90, 12283 dt.23.3.90 9622 dt.25.2.94	401.070
7	No.37282 dt.7.6.1988	25.467
	Sub Total B (6 to7)	426.537
	Grand Total (A + B)	3754.00*

* ML area of 2574 ha is part of this land acquired area

Forest Area: The project involved total 278.855 Ha of forest land. The details of the approval already obtained or applied for is as follows:

Sl. No.	Obtained vide letter No.	Area (ha)	Stage I/II
1.	8-143/89-FC	85.01	28.09.1990 (one time clearance)
2.	8-143/89-FC (I/87973/2024)	193.845	22-11-2024 (Stage I)
	Total	278.855	

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, etc. However the project is located at a distance of 8.04 km from Kahnejena – Anantapur Elephant Corridor. A site-specific wild life conservation plan considering Kanheijena-Anantapur Elephant corridor which is 8.04 km from the mine lease area is prepared by DFO Angul and approved by the PCCF Wildlife vide letter no 9783/CWLW-FDWC-FD-0150-2021, dated 17-08-2024. Schedule I species [Bilua (*Canis aureus*), saliapatani (*Viverricula indica*), ahiraj (*Naja hannah*), dhamana (*Ptyas mucosus*), monitor lizard (*Varanus bengalensis*), python (*Python molurus*), bajrakapta (*Manis crassicaudata*), bana biradi (*Felis chaus*), bhalu (*Melursus ursinus*), bilua (*Canis aureus*), common palm civet (*Paradoxurus hermaphroditus*), hati (*Elephas maximus*), Indian porcupine (*Hystrix indica*), kokisialli (*Vulpes bengalensis*), neula (*Urva edwardsi*), pati hanu (*Macaca mulatta*), saliapatani (*Viverricula indica*), pea fowl (*Pavo cristatus*), vulture (*Gyps bengalensis*), sorisia godhi (*Varanus bengalensis*), water monitor (*Varanus salvator*), bahurupi endua (*Chameleo zeylanicus*), common cobra (*Naja naja*)] are present in the study area. Further PP submitted that there is no violation of WLP Act.

Other Sensitive Receptors: Bangaru Stream/nallah is flowing near the northeastern boundary (approx. 600 m away) in the SW to NE direction and Singada stream/nallah (approx. 200 m away) from the northwestern boundary of the mine lease area. PP submitted that no water body/ road/ rail is proposed to be diverted. No ASI protected archaeological site in close proximity to the ML area.

20.19.7: Method of Mining & Mining Plan:

1. The Mining Plan and the Mine Closure Plan was approved by MCL Board vide letter no. MCL/SBP/CS/BD-226/Ext/2020/11151, date 29.08.2020 and subsequently corrigendum approved by MCL Board vide letter no. MCL/SBP/CS/BD-227/Ext/2020/11307, dated 17.11.2020.
2. Total geological reserve reported in the mine lease area is 1494.93 MT., out of which mineable reserves are 737.04 Mt (as on 01.04.2020) and extractable reserves are 712.134 Mt (as on 01.04.2020). Percentage of extraction is 96.62%.
3. There are total 19 nos of coal seams. Maximum thickness is 22 m and minimum thickness is 0.3 m.
4. Life of Mine is 49 years (as on 01.04.2020).
5. Method of mining to be adopted will be opencast mining, with shovel-dumper in OB and Surface miner in coal.
6. Top soil & OB management

(i) Quantity of Top Soil to be generated	i. 4.187 Mm ³ is expected to be generated.
(ii) Storage of Top Soil	ii. Will be temporarily stored at top soil dump until next plantation programme.
(iii) Handling/ utilization of top soil	iii. Removed and stored separately at Top oil dump and is spread before taking up plantation. If storage exceeds 1 year, grassing is done over the dump.
(iv) No. of Top soil dumps	iv. One temporary top soil dump with approximately 0.035 Mm ³ .

(i) Dumps details:	Details	Internal Dumps (over backfilled area)		OB Dumps (Within Mine Lease)		Remarks
		No	Quantity of Waste/OB (Mm ³)	Nos.	Quantity of Waste/OB stored (Mm ³)	
	Existing	1	155.20*	1	11.28	There is no dump outside mine lease hold area
	Proposed		1496.257			
	Total	1	1651.457	1	11.28	

*As on 01-04-20

(ii) specification of each dump	Dump No.	Area (ha)	Height (m)	Quantity (Mm ³)	Type (Internal)	Remarks
	1	32.20	40	11.28	OB dump (within Mine lease)	This will be re-handled at the time of final closure
	2	1554.24		1651.457	Internal (over backfilled area)	---

7. There are 2 OB dumps, 1 internal and 1 external in an area of 1554.24 ha and 32.20 ha respectively. The maximum height of the external OB Dump shall be 40 m. No OB dump is proposed outside the ML area.

a. Pre-mining land use:

S. No.	Type of Land	Within ML
a)	Agricultural	1909.276
b)	Forest	278.855
c)	Barren/Waste land	76.264
d)	Grazing	49.526
e)	Surface water bodies	117.038
f)	Settlements	97.755
g)	Others (Road Township & Community)	45.288
	Total	2574.00

b. Post-mining land use:

Post-mining land use (at the end of mining activity)							
Sl. No.	Category	Plantation	Water body	Dip side slope, Active dump & haul road	Undisturbed	Public/ Company use	Total
1	Quarry excavation	1554.24	39.36	270.10	0	0	1863.70
2	Safety Zone (7.5mt)	9.30	0	0	0	0	9.30
3.	OB dumps (within ML area)	32.20	0	0	0	0	32.20
4.	Infrastructure	22.44	0	0	5.984	46.376	74.80
5.	Blasting Danger Zone	244.20	0	0	25.75	100.05	370.00
6.	Other areas	134.40	0	0	17.92	71.68	224.00
	Mine Lease Area	1996.78	39.36	270.10	49.654	218.106	2574.00

8. Details of transportation of coal:

In Pit to surface: Dumper/ Tipper

Surface to siding: CT road to washery* – 5 MTPA; Belt conveyor to Silo – 7.5 MTPA; through automatic truck loading system – 2.5 MTPA by road.

Siding to loading: Washery* – 5 MTPA and loading through silo – 7.5 MTPA by belt conveyor; through automatic truck loading system – 2.5 MTPA by road.

Quantity being transported by road/ rail/ conveyor: Existing (8.0 MTPA): Rail: 5.50 MTPA , Road : 2.50 MTPA; Proposed (15.0 MTPA): Rail – 12.50 MTPA, Road – 2.50 MTPA

**Note - A coal washery with a capacity of 7 MTPA has been established by APGENCO within the existing ML area of MCL for which CTE has been obtained by Odisha State Pollution Control Board has been obtained vide letter no. 4488/Ind-II-NOC-3273 dated 09.02.2005. The pit head washery is currently under operation based on the requisite consent from the Odisha SPCB vide no. 1468/IND-I-CON 5862 dtd 12.09.2024 which is valid up to 31.03.2025.*

9. Reclamation: Afforestation shall be done covering an area of: 1996.78 ha at the post closure of mining. This will include reclaimed external OB dump of 32.20 ha, 1554.24 ha of internal OB dump will be reclaimed with plantation/ grass carpeting, 9.3 ha will be converted into greenbelt. Density of plantation will be 2500 nos of plants per ha. 39.36 ha void will be converted into water body with a maximum depth of 40 m.

20.19.8: Baseline data: Baseline data was generated during March 2021 to June 2021, as follows:

Period	March 2021-June 2021
AAQ parameters at 10 Locations (min and max)	<p>Air quality-10 Stations (Core zone-2, Buffer zone -8)</p> <p>Core Zone: PM₁₀ = 95.50 to 188.00 µg/m³ PM_{2.5} = 50.60 to 95.90 µg/m³ SO₂ = 15.70 to 30.30 µg/m³ NO_x = 12.20 to 22.00 µg/m³ CO = 0.78 to 1.10 mg/m³</p> <p>Buffer Zone: PM₁₀ = 48.9 to 86.4 µg/m³ PM_{2.5} = 25.2 to 45.5 µg/m³ SO₂ = 5.6 to 24.3 µg/m³ NO_x = 5.0 to 23.7 µg/m³ CO = 0.01 to 1.11 mg/m³</p>
Incremental Level	GLC PM ₁₀ = 22.38 µg/m ³ (Level at 0.5 km in downwind Direction) PM _{2.5} = 3.42 µg/m ³ (Level at 0.5 km in downwind Direction) SO ₂ = 17.54 µg/m ³ (Level at 0.5 km in downwind Direction) NO _x = 26.53 µg/m ³ (Level at 0.5 km in downwind Direction)

Sl. No.	Type of Waste	Source	Quantity per annum	Mode of Treatment	Disposal
3	Oil and grease skimming residues	ETP	1.31 KL	Stored in MS Drums	Recovery and Reuse Authorized recyclers
4	Chemical sludge from ETP	ETP	51 Tonne	Stored in concrete pit under shed	Common landfill TSDf Jajpur
5	Empty Barrels	HEMM	158 Nos.	Kept on concrete Floor under shed	Recovery and Reuse Authorized recyclers
6	Battery		10 Nos.	Stored in concrete pit under shed	Battery auctioned to recyclers

20.19.12: Public Consultation: PP submitted the following details of the public consultation held:

Details of advertisement given	SPCB, Odisha published the scheduled date of PH in The Times of India in English on 16.07.2022 and in The Prameya in Odia on 16.07.2022.
Date of public consultation	23.08.2022
Venue	Jagannath Kalakendra, At: Jagannath colony, South Balanda, Angul, Odisha.
Presiding Officer	Shri. Sri Santosh Kumar Pradhan, OAS(S), Additional District Magistrate (Revenue), Angul.
Number of Person Attended Hearing	<ul style="list-style-type: none"> • The meeting was also attended by Dr. Anup Kumar Mallick, Regional Officer, SPCB, Angul, MCL officials and approximately 400 people of nearby villages. • Total nos. of persons who attended the PH as per the signature record (attendance sheet) – 181 nos. • Total nos. of persons who spoke during the PH as per the signature record – 24 nos.
Number of representations received in writing from the district and outside of district, please give details:	25 nos.
Major issues raised	The issues raised during Public Hearing were regarding R&R issues, Peripheral Development and Environment protection measures. (Drinking water, Air/Water Pollution, Infrastructure (construction of Road, Electricity, School etc.), R&R and local employment, Health and Hygiene, Plantation (Avenue & community Plantation)

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

Points raised by the public	Issues raised/Actionable points	Expenditure in 2023-24	Proposed budget (tentative)	2024-25	2025-26	2026-27
Supply of clean hygienic drinking water in local villages.	1. Supply of Drinking water through Pipe arrangement & water tankers to the peripheral villages including villages falling in proposed expansion area namely Kalamchuin, Solada, Majhika, Telipur, Khuringa, Birbarpur, Gopalprasad Khamar, Banabaspur, Danara, Nathagaon, Nakeipasi, Natada..	261.41	165.99	55.33	55.33	55.33
Provision of water sprinkling arrangements in local village areas to control pollution and Dust deposition over local water bodies	1. Deployment of Mobile Fog canon & Water sprinkler tankers for the dust suppression in the villages in Kalamchuin, Majhika Solada and Danara Villages 2. Deployment of mechanical road sweeper for mine and surrounding villages Kalamchuin, Majhika Solada and Danara Villages 3. Pond Renovation with screen barrier and plantation around the local water bodies is proposed to arrest deposition of dust on these water bodies.	208.14	216.99	72.33	72.33	72.33
Development of Infrastructure (Construction of Road, Electricity, School etc.)	<u>LED streetlight that should be setup is the Danara, Brahmanbahal, Ambedkar Nagar and Nakeipasi villages of Danara GP.</u> 1. 207 Nos. of streetlights has been set up in nearby villages of Danara GP and Kalamchuin Panchayat. 2. Estimate of Rs. 21, 26,630 /- (Rupees Twenty-One Lakhs Twenty-Six Thousand Six Hundred Thirty only) is prepared for installation of 105 nos. streetlights in neighboring villages and the proposal is under approval stage. Installation expected to be completed by July 2025. <u>Repair of existing village roads and construction of new roads in areas under MCL.</u> 3. 672 Mtr length of the village road is constructed with an	160.52	281.01	93.67	93.67	93.67

	<p>Expenditure of 36.99 Lakhs in Village Ambedkar Nagar (Brahmanbahal) and Danara</p> <p>4. Repairs/construction of village road is being carried out as per the applications received from the village committee members/Sarpanch. Roads under MCL areas are being maintained on the regular basis.</p> <p><u>Renovation of Kalyan Mandap and its ancillaries in local village (Danara).</u></p> <ol style="list-style-type: none"> 1. With an expenditure of Rs. 1, 17, 00,000/- (Rupees One Crore Seventeen Lakhs only) constructed Kalyan Mandap in June 2021. 2. Renovation has been completed for the Kalyan Mandap. 3. Estimate for Kitchen Shed and welcome gate of Kalyan Mandap, an estimate of Rs. 67, 67,000/- is prepared and it is in approval stage and work is expected to be completed by August 2025. <p><u>Provision of cremation house in Kalamchuin village:</u></p> <p>Construction of 02 nos. cremation shed in Kalamchuin village and Majhika village is to be done.</p>					
<p>Health Care and vaccination, awareness camp, mobile medical camp, Immunization, medicine etc.</p>	<p><u>Free health check-up, treatment and medicine facility to local people (PDF and PAF).</u></p> <ol style="list-style-type: none"> 1. Conducting General Preventive Health camps, routine health camps, Hypertension and Diabetes camp and AIDS awareness camp are at regular intervals and along with provision of medicines and consultation free of cost to the villagers. 2. Providing OPD facility at Central Hospital, Talcher. 3. From the year 2020-21 to 2024-25 (till 15.01.2024) 21 camps have been conducted in nearby villages and 6840 people have benefitted. <p><u>Deployment of ambulance in local areas and easy availability of</u></p>	<p>2.80</p>	<p>128.01</p>	<p>42.67</p>	<p>42.67</p>	<p>42.67</p>

	<p><u>existing ambulance to local people.</u></p> <p>1. Estimate of Rs. 30, 00,000 /- (Rupees Thirty Lakhs only) is prepared for deployment of 02 nos. of ambulances in neighboring villages and the proposal is under approval stage. Expected to be handing over to District administration by June 2025.</p>					
Plantation in OB, block, avenue in mine lease area as well as vacant areas and along roads in local villages	<p>1. Till date, 4,93,045 nos. of plants were planted in and around Mine lease area of Balram OCP.</p> <p>2. Last 5 years, 30,000 no. of fruit bearing plants distributed to surrounding villagers.</p> <p>3. In 2024-25, 3700 nos. of plantation along the road from Salbani Chhak to Kumunda Bridge (Avenue plantation) has been done. (Outside Mine lease Area)</p> <p>4. Plantation will further include 84.43 lakhs of arboriculture, green belt development and creation of vertical green barrier within mine lease.</p> <p>5. Plantation in vacant areas will be taken up along with plant distribution to local villagers with incentives.</p>	21.97	140.01	46.67	46.67	46.67
R&R, Local Employment and skill Development initiatives	<p><u>Strict pursuance of provisions under R & R Policy, 2006 and state policy for resettlement and employment of displaced and local villagers.</u></p> <p>1. Employment is being provided as per R&R policy of state govt. In addition, preference is given to PAFs in different contractual employment.</p> <p><u>Provision for training and skill development for ITI, Diploma and Degree holder and other youth.</u></p> <p>1. Contractual workers of Balram OCP underwent skill development training at Group Vocational Training centre, MCL, Talcher. 2023 :133Nos. 2024: 202Nos</p>	61.40	345.00	115.00	115.00	115.00

	<p>2. Details of the skill training projects undertaken in partnership with CIPET, Orisoan Education Society and NITCON Social Foundation initiative of MCL in last five years.</p> <p>3. Till date skill training of 2729 nos. of candidates have been completed.</p> <p>4. Skill training of 919 nos. of candidates is ongoing. (80 nos. ITI and 369 nos. in plastic moulding courses and 470 nos. in mining domain courses)</p> <p>5. There is a provision of minimum 70% placement in each of our skill training projects. Overall, 2162 nos. of candidates have been placed so far through various skill training courses of MCL</p> <p><u>Awareness programme for employment issues:</u></p> <p>1. At start of process each individual is provided a list of documents needed for the employment.</p> <p>2. Facilitation in obtaining different certificates from the state Govt required for employment.</p> <p>3. Monthly Grievance redressal meeting regarding employment.</p> <p><u>Extension of cut-off date for the employment and Acquisition of 65 Acres of balance land of Danara village through RPDAC.</u></p> <p>1. Action will be taken after the decision of The Rehabilitation and Peripheral Development Advisory Committee (RPDAC).</p> <p><u>Rehabilitation and resettlement of PDF and PAF at a single place with all amenities.</u></p> <p>R&R site Kochianali were chosen in consultation with the state govt. on available land and all the amenities will be provided as per provisions.</p>					
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	Timeline for Preparation and completion of the site is 31.03.2025.					
	Total	716.24	1277.01	425.67	425.67	425.67

20.19.13: EMP Budget: Existing capital cost of project for the project 8 MTPA was is Rs.516.74 Cr. The capital for proposed incremental production of 7.0 MTPA i.e. 8.0 MTPA to 15.0 MTPA is Rs. 843.32 Crores and the annual recurring cost towards the environmental protection measures is proposed as Rs 31.15 Crore. The employment generation from the proposed project / expansion is 1326 persons directly and about 15000 persons indirectly. The details of cost for environmental protection measures is as follows:

Sl. No.	Description of Item	Existing (Rs. in Lakh)		Description of the item	Proposed (Rs. in Lakh)	
		Capital Cost	Recurring Cost		Capital Cost	Recurring Cost
i.	Air Pollution Control/ Noise Management	1939.85	763.54	Garland drain & storm water drainage	57.82	2.90
ii.	Water Pollution Control	45.59	10.00	Rainwater harvesting	10	0.50
iii.	Environmental Monitoring and Management	114.34	414.81	Peripheral village community development	25	1.25
iv.	Green Belt Development	341.874	21.97	Arboriculture	25	1.25
v.	Other heads as proposed in EIA/committed during the EAC	993.75	3.00	Green belt development	15	0.75
vi.	Total	3435.404	1213.32	Effluent treatment plant & Settling pond	115	5.75
vii.				Air pollution abatement cost (Mist Sprinklers, Fog cannon, & mobile water tankers)	1611	64.44
viii.				Vertical green barrier	44.43	2.23
ix.				Development of Sal Nursery	95	4.75

Sl. No.	Description of Item	Existing (Rs. in Lakh)		Description of the item	Proposed (Rs. in Lakh)	
		Capital Cost	Recurring Cost		Capital Cost	Recurring Cost
x.				Installation of 1 CAAQMs	100	5.00
xi.				Set up of field Laboratory	80	4.00
xii.				Coal handling system including pipe conveyor & Silo loading system	82154	3022.68
xiii.	Total	3435.404	1213.32	Total	84332.25	3115.50

20.19.14: Plantation: Existing green belt has been developed in 232.57 Ha area which is about 17.77% of the total ML area of 1309 ha with total sapling of 4,93,045 nos. Proposed greenbelt will be developed in 1764.21 ha which is about 68.53% of the total project area. Thus, total of 1996.78. ha area (77.57% of total project area) 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&CC, New Delhi guidelines. Local and native species will be planted with a density of 2500 trees per hectare. Total no. of 49,91,950 saplings will be planted and nurtured in 1996.78 hectares in 52 (49 years and post closure 3years) years.

20.19.15: Rehabilitation and Resettlement:

The rehabilitation and resettlement of the project affected families/persons is being governed as per R&R policy (2006 and its subsequent amendment) of Govt. of Odisha. It comprises of two components:

1. Rehabilitation: For rehabilitation of eligible persons either job or cash compensation in lieu of employment is provided.
2. Resettlement: For resettlement either plot or cash compensation in lieu of plot is provided.

Total budget allocated for R&R is Rs. **421.76 Crs**

For existing 8 Mty:

Sl. No.	Details on Rehabilitation (Employment or Cash compensation)	Numbers
1.	Total person eligible for employment (A)	1737
2.	Employment provided so far (B)	1694
3.	No. of persons opted for cash (C)	17
4.	Total rehabilitation completed (D=B+C)	1711
5.	No. of rehabilitation to be completed (E=A-D)	26

SI. No	Details on Resettlement	Numbers
1.	Total displaced families (A)	791
2.	PAFs received cash Compensation in lieu of Plots / land (B)	566
3.	No. of families yet to be resettled (C=A-B)	225

From above table it is observed that out of 791 displaced families 566 have opted cash compensation in lieu of Plots. For remaining 225 families, a resettlement site having 343 plots at Kochianali village has been identified in consultation with District Administration in November'23. The site development work is under progress and 50% work has been completed. This R&R site will be developed with all basic facilities i.e. electricity, water supply, sewerage, roads etc. The work is expected to be completed by March 2025. After completion of site rest of the families will be resettled in a phase wise manner.

For Proposed expansion 8 to 15 Mty:

S. No.	Details on Rehabilitation (Employment or Cash compensation)	Numbers
1.	Total person eligible for employment (A)	2195
2.	Employment provided so far (B)	1947
3.	No. of persons opted for cash (C)	59
4.	Total rehabilitation completed (D=B+C)	2006
5.	No. of rehabilitation to be completed (E=A-D)	189

S. No	Details on Resettlement	Numbers
1.	Total displaced families (A)	2813
2.	PAFs received cash Compensation in lieu of Plots / land (B)	120
3.	No. of families yet to be resettled (C=A-B)	2693

Time period for completion of balance rehabilitation & resettlement is by 31.03.2028.

Therefore, total PAFs are 3604, in 17 nos of villages, namely Nakeipasi, Brahmanbahal, Damal, Prasananagar, Nathgaon, Majhika, Kalamachhuin, Danara, Natada, Banabaspur, Telipur, Solada, Satyabadipur, Gopalprasad Khamar, Khuringa, Birabarpur and Kochianali

20.19.16: Project Cost: PP submitted that the total cost of the project is 4020.95 crores. Cost for implementing EMP (Capital and Recurring both) Rs. 878.47 Cr (capital- 843.32 Cr + recurring- 31.15 Cr).

20.19.17: Details of pending litigation: PP reported that there is no legal issue/violation wr.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.

20.19.18: Undertaking and Affidavit: PP through an affidavit submitted that there is no construction done at the site or the construction done without deviation as per previous EC obtained from MoEF&CC vide letter dated 24/10/1990. There is no litigation on the project either at Hon'ble NGT or any other court of law. The land has been acquired and vested in the company by Govt. of India and State Govt under CBA (A&D) Act 1957 and LA Act 1984(partly), respectively. The land is in their possession and there is no R&R issue.

Further, PP vide an undertaking submitted that the information provided in Form-1 (Part A, Part B and Part C) in PDF format in PARIVESH, to the Ministry/EAC members and PPT presentation during the EAC meeting to be held on 20th - 23 January 2025 have no deviation in respect of the proposal no. LA/OR/CMIN/411408/2022 for EC for coal mining having 2574 ha (additional 1265 ha) of ML, area and capacity of 15 MTPA (incremental 07 MTPA) for Coal Mine Project located at villages Nakeipasi, Brahmanbahali, Kochianali, Damol, Prasana Nagar, Nathagaon, Majhika, Kalamchhuin, Danara, Natada, Banabaspur. Telipur, Solada, Satyabadipur, Gopalprasadkhamar, Khuringa and Birabarpur, Tahasil Talcher, District: Angul, State: Odisha by Mis. Mahanadi Coalfields Limited.

2. 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.

3. 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.

20.19.19: ADS Reply: This project was earlier considered in 40th EAC meeting held during 16-17 February 2023 and 44th EAC meeting held on 9th May 2023, wherein the project was deferred for additional information. PP submitted the reply of the ADS raised in 40th EAC meeting held during 16-17 February 2023 on 26th April 2023 and reply to ADS raised in 44th EAC meeting held on 9th May 2023 on 30th November 2024.

1st ADS reply dated 26th April 2023:

S. No.	ADS Raised	Reply of Proponent
1.	The Project proponent shall submit the ATR to compliance of the non-complied point given in EC letter dated 24.10.1990.	Observation (i): It is noted that the water generated after washing of the vehicles in the workshop area is not properly channelized into the ETP. Further, the oil and grease tap installed in the ETP was noted to be non-functional and requires immediate necessary action. The overall process of treatment of ETP needs to be reviewed and revamped. The water being discharged after the treatment was found to have been blocked due to non- maintenance of drainage system. Therefore, it is viewed that the inflow into the ETP and the outflow from the ETP should be properly monitored for its quality. The

S. No.	ADS Raised	Reply of Proponent
		<p>project should submit an action plan for installation and modernization of the existing ETP (Condition No.ii). Immediate action has been taken to channelize the water generated after the washing of the vehicles in the workshop area and to clear the blockage in the drain where treated water is being discharged.</p> <p>Observation (ii): It is viewed that a central laboratory for all the coal mines in the Talcher area, including Balram OCP may be set up for analysis of environmental parameters (Condition No.xiii). The Routine Environmental Monitoring of existing Balram OCP is being done through NABL accredited lab of M/s CMPDI. All the parameters of air, water, effluent and noise are being monitored in compliance to the conditions stipulated in Environmental Clearance, Consent to Establish and Consent to operate or any other statutory obligations. However, for further compliance to EC condition a field lab will also be set up by March'24.</p>
2.	The Project proponent shall submit the certified status of the reserve available below fresh forest area.	<p>In proposed expansion of the total forest land involved is 193.845 Ha, out of which 186.765 Ha lies in excavation area, 1.851 Ha lies in safety zone and remaining 5.229 Ha lies in infrastructure area. Out of total forest land of 193.845 Ha, 149.62 Ha is Gopalprasad Reserve forest and remaining 44.225 Ha is Revenue Forest.</p> <p>Revenue forests are small forest patches and scattered over expansion area. Therefore, it is quite difficult to separately calculate quantity of coal below every forest patch and hence only coal quantity below Gopalprasad Reserve Forest is mentioned herewith. Considering safe mining slope around forest boundary, uncertainty of structural interpretation and expected mining losses, 122.46 Mt coal will be below the fresh Gopalprasad Reserve Forest.</p>
3.	PP shall submit the approved Mine Plan as per discussion during EAC meeting considering actual plan of mining operation instead of based on assumptions and apprehension.	<p>The Mining Plan and Mine Closure Plan of Balaram OCP expn. (8.0 to 15.0 Mty) was approved by MCL Board vide letter dtd. 17-11-2020. The same will be followed with proper evacuation and rehabilitation of the villages falling within its lease.</p> <p>As per the approved mine plan, Balaram OCP will touch the Gopalprasad Reserve Forest in 7th to 8th Year (2026-27 to 2027-28). Figure-1 shows the 5th year mine stage plan where it can be seen that working of mine is around 500 m behind the south direction of the forest while as per 10th year mine stage plan, mine working ahead of the forest boundary. Hence, as per the approved stage plan mine will reach to reserve forest boundary in 7th to 8th year.</p>
4.	The Project proponent shall submit the recorded drone video and Photograph with latitude and longitude showing the current status of the mine closure.	Recorded drone video and Photograph with latitude and longitude showing the status of the mine closure is submitted.
5.	The Project proponent shall submit the area wise detail of minerals i.e. already excavated. Also submit the safeguard that has been taken or to	As per earlier approved Mining Plan of existing Balaram OCP the total mineable reserve is 165.89 Mt, out of which since inception of mine 131.89 Mt (as on 31-03-23) has been excavated. Therefore, remaining mineable reserve in existing

S. No.	ADS Raised	Reply of Proponent																								
	<p>be taken in future for the villages falling in the Mine lease area and for nearby villages.</p>	<p>ML area is 34.00 Mt. Details of the same is given below: Table: Details of existing ML area and reserve</p> <table border="1"> <thead> <tr> <th>S. No.</th> <th>Particulars</th> <th>Details</th> </tr> </thead> <tbody> <tr> <td>A.</td> <td>Total ML area</td> <td>1309.00 Ha</td> </tr> <tr> <td>B.</td> <td>Total Excavation Area</td> <td>668.00 Ha</td> </tr> <tr> <td>C.</td> <td>Area already excavated (as on 01-04-23)</td> <td>519.21 Ha</td> </tr> <tr> <td>D.</td> <td>Area to be excavated (as on 01-04-23) (B-C)</td> <td>148.79 Ha</td> </tr> <tr> <td>E.</td> <td>Mineable coal reserve</td> <td>165.89 Mt</td> </tr> <tr> <td>F.</td> <td>Coal Excavated (as on 01-04-23)</td> <td>131.89 Mt</td> </tr> <tr> <td>G.</td> <td>Remaining coal reserve (as on 01-04-23) (E-F)</td> <td>34.00 Mt</td> </tr> </tbody> </table> <p>In proposed expansion additional excavation area is 1195.70 Ha in which mineable reserve is approx. 657.614 Mt.</p> <p>In existing ML area one village namely Majhika is yet not displaced. As per the approved Mining Plan this village habitat will be displaced in phase wise manner. Apart from this additional eight (8) villages namely Kalamchhuin, Banabaspur, Telipur, Solada, Satyabadipur, Gopalprasad khamar, Khuringa, and Birabarpur will fall in proposed expansion. However, for the safety of villagers the following safety measures is being and will be taken up.</p> <p>All the coal winning is being and will be done through eco-friendly Surface Miners.</p> <p>A minimum distance of 100 m is being and will be maintained from excavation boundary as per DGMS guidelines.</p> <p>Control blasting with delay/Electronic detonators will be adopted for OB removal to reduce its impact over villages.</p> <p>Xcentric ripper has been introduced to reduce the blasting. Routine Environmental monitoring is being and will be done in core as well as buffer zone to know the baseline values in these villages.</p> <p>All the coal for road sale is being and will be dispatched through dedicated coal corridors by passing all villages. Fog canon, mobile sprinkler, instant shower and wheel washing system has already been deployed to mitigate air pollution.</p> <p>Vertical green barrier has also been developed at railway siding and coal stock yard.</p> <p>In proposed expansion 11.0 Mty of coal will be dispatched through washery and SILO.</p> <p>A green belt will also be developed all along the nearby</p>	S. No.	Particulars	Details	A.	Total ML area	1309.00 Ha	B.	Total Excavation Area	668.00 Ha	C.	Area already excavated (as on 01-04-23)	519.21 Ha	D.	Area to be excavated (as on 01-04-23) (B-C)	148.79 Ha	E.	Mineable coal reserve	165.89 Mt	F.	Coal Excavated (as on 01-04-23)	131.89 Mt	G.	Remaining coal reserve (as on 01-04-23) (E-F)	34.00 Mt
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6.	The Project proponent shall submit the certified status of the reserve available below the mentioned villages.	<p>The total villages falling in existing ML area is nine (9) namely Nakeipasi, Brahmanbahali, Damal, Prasananagar, Nathagaon, Danara, Kalamchhui, Natada and Majhika. Out of these nine villages, part of two villages namely Kalamchhui and Majhika also lies in expansion area.</p> <p>The details of the same is given below:</p> <table border="1"> <thead> <tr> <th>Sl. No.</th> <th>Villages in existing Lease</th> <th>Excavation Area in Ha</th> <th>Approx Reserve in Mt</th> <th>Remarks</th> </tr> </thead> <tbody> <tr> <td>1.</td> <td>Nakeipasi, Brahmanbahali, Damal, Prasananagar, Nathagaon, Danara, Kalamchhui, Natada (Part), Majhika (Part) and Forest area</td> <td>519.21</td> <td>131.89</td> <td>Already excavated</td> </tr> <tr> <td>2.</td> <td>Majhika (Part) and Natada (Part)</td> <td>148.79*</td> <td>34.00</td> <td>To be excavated</td> </tr> </tbody> </table> <p>* Out of proposed area to be excavated, 71.0 Ha approx. lies within habitat area of Majhika, below which 13.72 Mt reserve is blocked. Apart from this 67.34 Ha (below approx. 7.5 Mt of Coal) falls in Natada village, which was earlier part of excavation area but now not considered for excavation in proposed expansion.</p> <table border="1"> <thead> <tr> <th colspan="4">Village wise details of proposed expansion area</th> </tr> <tr> <th>Sl. No.</th> <th>Villages in proposed expansion</th> <th>Excavation Area in Ha</th> <th>Approx Reserve in Mt</th> </tr> </thead> <tbody> <tr><td>1.</td><td>Banabaspur</td><td>66.63</td><td>62.11</td></tr> <tr><td>2.</td><td>Gopalprasad Khamar</td><td>34.62</td><td>28.48</td></tr> <tr><td>3.</td><td>Khuringa</td><td>66.01</td><td>32.58</td></tr> <tr><td>4.</td><td>Solada</td><td>378.22</td><td>248.87</td></tr> <tr><td>5.</td><td>Birabarpur</td><td>32.75</td><td>14.36</td></tr> <tr><td>6.</td><td>Majhika</td><td>5.93</td><td>1.63</td></tr> <tr><td>7.</td><td>Kalamchhuin</td><td>321.10</td><td>70.43</td></tr> <tr><td>8.</td><td>Satyabadipur</td><td>9.50</td><td>3.65</td></tr> <tr><td>9.</td><td>Telipur</td><td>133.57</td><td>97.89</td></tr> <tr><td>10.</td><td>Gopal Prasad Reserve Forest</td><td>147.35</td><td>97.614</td></tr> <tr> <td></td> <td>Total</td> <td>1195.70</td> <td>657.614</td> </tr> </tbody> </table>	Sl. No.	Villages in existing Lease	Excavation Area in Ha	Approx Reserve in Mt	Remarks	1.	Nakeipasi, Brahmanbahali, Damal, Prasananagar, Nathagaon, Danara, Kalamchhui, Natada (Part), Majhika (Part) and Forest area	519.21	131.89	Already excavated	2.	Majhika (Part) and Natada (Part)	148.79*	34.00	To be excavated	Village wise details of proposed expansion area				Sl. No.	Villages in proposed expansion	Excavation Area in Ha	Approx Reserve in Mt	1.	Banabaspur	66.63	62.11	2.	Gopalprasad Khamar	34.62	28.48	3.	Khuringa	66.01	32.58	4.	Solada	378.22	248.87	5.	Birabarpur	32.75	14.36	6.	Majhika	5.93	1.63	7.	Kalamchhuin	321.10	70.43	8.	Satyabadipur	9.50	3.65	9.	Telipur	133.57	97.89	10.	Gopal Prasad Reserve Forest	147.35	97.614		Total	1195.70	657.614
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7.	The Project proponent shall setup a dedicated lab within the Mine lease area for testing purpose, which is also part of non –	The Routine Environmental Monitoring of existing Balram OCP is being done through NABL accredited lab of M/s CMPDI. All the parameters of air, water, effluent and noise are being monitored in compliance to the conditions stipulated in																																																																			

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	compliance (in terms of dedicated lab).	Environmental Clearance, Consent to Establish and Consent to operate or any other statutory obligations. However, for further compliance to EC condition a field lab will also be set up by March'24.																								
8.	The Project proponent shall submit the present status of the Forest Clearance for 193.845 ha.	Application for the forest clearance in Form A Part - III has been submitted to PCCF Nodal office on 03.01.2023. PCCF raised 20 points EDS on 18.01.2023. Compliance of the EDS raised was submitted to DFO, Angul on 02.03.2023. DFO asked for some additional information as per the new checklist which was submitted to DFO, Angul on 31.03.2023.																								
9.	The Project proponent shall submit the existing and proposed transportation plan in tabular format, which reflects the shift/upgradation of coal transport through mechanized system.	<p>The existing and proposed dispatch matrix is as follows:</p> <table border="1"> <thead> <tr> <th colspan="2">Existing (8.0 MT)</th> <th colspan="4">Proposed (15.0 MT)</th> </tr> <tr> <th>Through Rail Siding 9</th> <th>Road Sale</th> <th>Washery</th> <th>SILO</th> <th>Road sale</th> <th>Through Rail Siding 9</th> </tr> </thead> <tbody> <tr> <td>5.5 MT</td> <td>2.5 MT</td> <td>3.5 Mty</td> <td>7.5 Mty</td> <td>2.5 Mty</td> <td>1.5 Mty</td> </tr> <tr> <td>By road through truck 4.87 km from pit top wharf wall loading.</td> <td>Through dedicated coal corridor</td> <td>By road through truck 3.16 km from pit top SILO loading.</td> <td>Belt conveyor from pit top</td> <td>Loading by preweigh automatic truck loading system trapped from belt conveyor.</td> <td>By road through truck 4.87 km from pit top wharf wall loading.</td> </tr> </tbody> </table>	Existing (8.0 MT)		Proposed (15.0 MT)				Through Rail Siding 9	Road Sale	Washery	SILO	Road sale	Through Rail Siding 9	5.5 MT	2.5 MT	3.5 Mty	7.5 Mty	2.5 Mty	1.5 Mty	By road through truck 4.87 km from pit top wharf wall loading.	Through dedicated coal corridor	By road through truck 3.16 km from pit top SILO loading.	Belt conveyor from pit top	Loading by preweigh automatic truck loading system trapped from belt conveyor.	By road through truck 4.87 km from pit top wharf wall loading.
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10.	The Project proponent shall submit plan to install another CAAQMS in the core zone of mine lease area with display of values on the company website as well as on the electronic board in the direction of village area and company gate.	CAAQMS has been installed in the core zone of the Mine lease area with display of values on the company website as well as on the electronic board in the direction of village area and company gate.																								
11.	The Project proponent shall submit details for tree plantation plan including number and location for the Sal tree to be planted.	<p>Plan is prepared to show the Site for the Sal Plantation in the next 3 years:</p> <table border="1"> <thead> <tr> <th>Year</th> <th>Location</th> <th>Area</th> </tr> </thead> <tbody> <tr> <td>2023-24</td> <td>Near Coal corridor</td> <td>2 Ha (15000 Nos. of Gap plantation will be done)</td> </tr> <tr> <td>2024-25</td> <td>Backfilled area</td> <td>10 Ha (Sal)</td> </tr> <tr> <td>2025-26</td> <td>Backfilled area</td> <td>10 Ha (Sal)</td> </tr> <tr> <td>2026-27</td> <td>Backfilled area</td> <td>10 Ha (Sal)</td> </tr> </tbody> </table>	Year	Location	Area	2023-24	Near Coal corridor	2 Ha (15000 Nos. of Gap plantation will be done)	2024-25	Backfilled area	10 Ha (Sal)	2025-26	Backfilled area	10 Ha (Sal)	2026-27	Backfilled area	10 Ha (Sal)									
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12.	The Project proponent shall submit the plan to develop the nursery of the Sal tree having at least 25,000 of plant capacity and also mention the location for the development of Nursery.	Site identified for the construction of Nursery in the Mine lease area of the Balram OCP and Estimate has been prepared by the Chattisgarh Rajya Van Vikas Nigam Limited. Nursery will be developed by the 31.12.2023																								

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13.	The project proponent to explore the clean fuel (i.e. Biofuels) dumpers for transportation purpose within the mine lease area. The plan should include for the replacement of at least 20% of total vehicle to be used.	Availability of clean fuel based equipment for large scale mining and guaranteed supply in huge quantity is not confirmed. Present equipment configuration has been provided in view of techno-commercial viability of diesel based equipment. As and when techno-commercial viability of clean fuels based equipment is proved, the new resources will be adopted in new projects of MCL.																																										
14.	The Project proponent shall submit the revised EMP budget after considering all of the above points.	<p>The revised EMP budget considering above points is as follows:</p> <table border="1"> <thead> <tr> <th>S. No.</th> <th>Particulars</th> <th>Budget (Rs. in lakhs)</th> </tr> </thead> <tbody> <tr> <td>i.</td> <td>Garland drain & Storm water drainage</td> <td>57.82</td> </tr> <tr> <td>ii.</td> <td>Rain water harvesting</td> <td>10.00</td> </tr> <tr> <td>iii.</td> <td>Peripheral village community development</td> <td>25.00</td> </tr> <tr> <td>iv.</td> <td>Arboriculture</td> <td>25.00</td> </tr> <tr> <td>v.</td> <td>Green belt development</td> <td>15.00</td> </tr> <tr> <td>vi.</td> <td>Effluent Treatment Plant & settling pond</td> <td>115.00</td> </tr> <tr> <td>vii.</td> <td>Air Pollution abatement cost (Mist sprinkler, Fog canon and mobile water tanker)</td> <td>1611.00</td> </tr> <tr> <td>viii.</td> <td>Vertical green barrier</td> <td>44.43</td> </tr> <tr> <td>ix.</td> <td>Development of Sal Nursery</td> <td>95.00</td> </tr> <tr> <td>x.</td> <td>Installation of one (1) CAAQMS</td> <td>100.00</td> </tr> <tr> <td>xi.</td> <td>Set up of field laboratory</td> <td>80.00</td> </tr> <tr> <td>xii.</td> <td>Coal handling system including Pipe conveyor and SILO loading system</td> <td>82154.00</td> </tr> <tr> <td></td> <td>TOTAL</td> <td>84332.25</td> </tr> </tbody> </table>	S. No.	Particulars	Budget (Rs. in lakhs)	i.	Garland drain & Storm water drainage	57.82	ii.	Rain water harvesting	10.00	iii.	Peripheral village community development	25.00	iv.	Arboriculture	25.00	v.	Green belt development	15.00	vi.	Effluent Treatment Plant & settling pond	115.00	vii.	Air Pollution abatement cost (Mist sprinkler, Fog canon and mobile water tanker)	1611.00	viii.	Vertical green barrier	44.43	ix.	Development of Sal Nursery	95.00	x.	Installation of one (1) CAAQMS	100.00	xi.	Set up of field laboratory	80.00	xii.	Coal handling system including Pipe conveyor and SILO loading system	82154.00		TOTAL	84332.25
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15.	PP shall not propose to use forest land for dumping of overburden.	As per the mining plan OB removed will be backfilled in the mine void area only and forest land will not be used for the dumping purpose.																																										

2nd ADS reply dated 30th November 2024:

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i.	The PP shall construct the garland drain in existing mine lease area within six months i.e. before the January, 2024. Also to submit the plan to construct the garland drain for entire mine lease area, and in OB dump area in particular.	A garland drain of 4.5 km exists in the mine lease area of Balram OCP. In addition to this garland drain of 1.5 km length has been constructed in existing mine lease thus covering the total existing mine lease hold area. The average width and depth of the garland drain is 5.5 m and 4.5 m respectively. Geotagged photographs of constructed garland drain is submitted. A surface plan showing existing and proposed garland drain for proposed mine lease area is also submitted.																					
ii.	In proposed expansion, PP to submit the plan to handle wastewater through ETP considering 15 MTPA of capacity, which should receive wastewater from mine, Garland drain & workshop.	<p>Considering the proposed expansion of 15.0 MTPA, the existing dedicated 300 KLD ETP is designed to handle the waste water from workshop in the Balram OCP. This ETP utilizes a series of treatment units, including primary settling tanks, oil and grease traps, and alum mixer tanks. The inlet and outlet water of ETP is regularly monitored and report of the same also regularly submitted to MoEF&CC with half yearly compliance report. The latest effluent monitoring data is given below:</p> <table border="1"> <thead> <tr> <th>Date of Sampling</th> <th>Sampling station</th> <th>pH</th> <th>Oil & grease</th> <th>TSS</th> <th>COD</th> <th>BOD</th> </tr> </thead> <tbody> <tr> <td>28-10-24</td> <td>ETP inlet</td> <td>7.71</td> <td>< 4.0</td> <td>128</td> <td>136</td> <td>< 2</td> </tr> <tr> <td>28-10-24</td> <td>ETP outlet</td> <td>7.23</td> <td>< 4.0</td> <td>96</td> <td>104</td> <td>< 2</td> </tr> </tbody> </table> <p>However, to further enhance the quality of treated water, tertiary treatment units namely Pressure Sand Filters (PSF) and Activated Carbon Filters (ACF) are envisioned to refine the treatment process and produce higher quality effluent.</p> <p>Further to treat the surface runoff /garland drain water and mine water an additional MD-ETP of 1.4 MLD is also proposed.</p> <p>Detailed plan of proposed ETP upgradation and new Mine Discharge Effluent Treatment Plan (MD-ETP) construction with budgetary provision is submitted.</p>	Date of Sampling	Sampling station	pH	Oil & grease	TSS	COD	BOD	28-10-24	ETP inlet	7.71	< 4.0	128	136	< 2	28-10-24	ETP outlet	7.23	< 4.0	96	104	< 2
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iii.	The PP shall submit water budget considering water recycled from ETP water and NOC obtained for Ground water. Water budget shall be prepared in such a way so that the burden on the ground water will be less.	A water budget considering water recycled from ETP water and NOC application made for Ground water clearance has been prepared. The water budgeting has been prepared to minimize the burden on ground water. A MD-ETP for a capacity of 1400 KLD has been proposed. The MD-ETP is based on the figures as given in the CGWA application. The rain water and mine seepage water stored in the de-coaled pit shall be treated in MD-ETP before discharge in the Gandhi Sagar. The design/plan of the MD-ETP (1400 KLD) is submitted.																					
iv.	PP shall submit Wildlife Conservation Plan w.r.t. Kanheijena-Anantapur Elephant	Wildlife Conservation Plan w.r.t. Kanheijena-Anantapur Elephant corridor which is 8.04 kms from the mine lease area has been prepared and approved by PCCF, wildlife on 17-08-24. As per approved Wildlife Conservation Plan an amount of Rs. 30.588 crore has been approved to be submitted in CAMPA fund. Demand Letter was raised by Chief Conservator of Forests (WL-III) on																					

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	corridor which is 8.04 kms from the mine lease area.	17.08.2024 and the same has been uploaded on PARIVESH Portal on 28.11.2024. The amount of Rs 30.588 crores shall be deposited in the CAMPA fund once the Challan is generated.																																													
v.	PP shall submit the coal evacuation plan with firm timeline for implementation of mechanized system considering 80% of coal to be transported through rail and only 20% through road. PP should come with documentary proof of tendering in this regard and with start of works for further consideration.	<p>As per approved Mining Plan the proposed dispatch matrix of coal is as follows:</p> <table border="1"> <thead> <tr> <th>Sl. No.</th> <th>Dispatch capacity in Mty</th> <th>Dispatch medium</th> <th>Remarks</th> </tr> </thead> <tbody> <tr> <td>1.</td> <td>5.0</td> <td>By Road</td> <td>Pit head Washery</td> </tr> <tr> <td>2.</td> <td>7.5</td> <td>Belt and SILO</td> <td rowspan="2">Under progress will be completed by 2027-28*</td> </tr> <tr> <td>3.</td> <td>2.5</td> <td>Belt and Automatic Truck Loading System</td> </tr> </tbody> </table> <p>* Scheme for Belt, SILO and ATLS has been prepared and is under approval stage. The details of the timeline for different activities is as follows:</p> <table border="1"> <thead> <tr> <th>Sl. No.</th> <th>Activities</th> <th>Timeline of completion/ Anticipated Timeline</th> </tr> </thead> <tbody> <tr> <td>1.</td> <td>Site survey and layout plan</td> <td>11-11-24 (Completed)</td> </tr> <tr> <td>2.</td> <td>Preparation of Cost estimate and draft Scheme</td> <td>25-11-24 (Completed)</td> </tr> <tr> <td>3.</td> <td>Approval by MCL Board</td> <td>25-12-24</td> </tr> <tr> <td>4.</td> <td>Submission of Final NIT</td> <td>25-01-25</td> </tr> <tr> <td>5.</td> <td>Approval of NIT</td> <td>31-01-25</td> </tr> <tr> <td>6.</td> <td>Floating of Tender</td> <td>06-02-25</td> </tr> <tr> <td>7.</td> <td>Award of work</td> <td>31-05-25</td> </tr> <tr> <td>8.</td> <td>Completion of construction</td> <td>30-11-27 (2.5 years)</td> </tr> <tr> <td>9.</td> <td>Trial run and statutory clearances</td> <td>31-01-28</td> </tr> </tbody> </table> <p>The road sale coal quantity to be dispatched through mechanized truck loading system is 2.5 Mty i.e. 16.66%.</p>	Sl. No.	Dispatch capacity in Mty	Dispatch medium	Remarks	1.	5.0	By Road	Pit head Washery	2.	7.5	Belt and SILO	Under progress will be completed by 2027-28*	3.	2.5	Belt and Automatic Truck Loading System	Sl. No.	Activities	Timeline of completion/ Anticipated Timeline	1.	Site survey and layout plan	11-11-24 (Completed)	2.	Preparation of Cost estimate and draft Scheme	25-11-24 (Completed)	3.	Approval by MCL Board	25-12-24	4.	Submission of Final NIT	25-01-25	5.	Approval of NIT	31-01-25	6.	Floating of Tender	06-02-25	7.	Award of work	31-05-25	8.	Completion of construction	30-11-27 (2.5 years)	9.	Trial run and statutory clearances	31-01-28
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vi.	Existing sump which being polluted from mine water shall be considered for rejuvenation with development of fish-culture.	The existing sump of Balram OC has been rejuvenated. The sump water analysis is done at regular intervals (quarterly) for four parameters, namely, pH, TSS, COD and Oil & Grease. However, in this case the mine water samples were analysed for all parameters as given in the surface water standard (IS: 2296 – 1982) on monthly basis. It is seen that the existing sump water is supporting aquatic life and there are many fishes existing in the mine water sump. Latest analysis report (28th October'24) is submitted. As per the report the analysis parameters are well within the permissible limit of standard, IS: 2296-1982. Photographs of the same is submitted.																																													

S. No.	ADS Raised	Reply of Proponent
vii.	PP shall submit the status of FRA land available forest area of 193.845 ha and get certified from district collector.	<p>In proposed expansion stage I FC for additional forest land of 193.845 ha has been granted by MoEF&CC vide letter dtd. 22-11-2024. Additional forest land falls in the vicinity of 7 villages namely Birbarpur, Gopalprasad Khamar, Banabaspur, Telipur, Khuringa, Solada and Kalamchhuin.</p> <p>In regard to observation of 44th EAC meeting held on 09th May 2023 point no.7 regarding status of FRA land, a letter vide no. MCL/GM/HA/E&F/2023/185 dated 16.08.2023 was written to the Collector Angul. It was followed up with Collector Angul, District Welfare Officer, Block Development Officers and Sub-collector at regular intervals. The chronology of FRA status is submitted</p> <p>Out of the 7 villages gram Sabha has been conducted in three villages namely Birbarpur, Gopalprasad Khamar and Banabaspur. A letter of collector Angul dtd. 21-11-2024 mentioning the current status of FRA is submitted.</p>

20.19.20: Written Submission: PP has submitted the following during the meeting:

1. The coal from the Balram OCP is being sent to GMR Kamalanga Energy Ltd, TATA Steel, Navbharat industries, NALCO, JSPL and other local consumers which are within 25-30 Km from the Project.
2. PP has submitted the following existing air pollution Control Measures along with the additional control measures with timelines for CAAQMS, Plantation along garland drains, Wind Barrier & Mobile fog Cannon.

Existing air pollution Control Measures			
S. No.	Pollution Control Measures	Location	Nos./Capacity
1.	Truck mounted Fog cannon (40m throw)	Coal Corridor and Internal Coal Transportation Road	2 Nos.
2.	Trolley mounted Fog cannon (100 m throw)	Coal Stock and Railway Siding	8 Nos.
3.	Mobile Water Sprinklers (Mist - Contractual)	Internal Coal Transportation roads and Mine Haul roads	07 Nos. (4 Nos. 24 KL, 01 No. 20 KL, 02 Nos. 18 KL)
4.	Mobile Water Sprinklers (Mist - Departmental)	Internal coal transportation roads and Mine Haul roads	5 Nos. (28 KL)
5.	Fixed Sprinklers	15 Nos of Fixed sprinklers along Railway Siding of length 750 metres and 29 Nos. along Coal Transport Road for a length of 1450 metres have been installed	44 Nos. (750 m along Railway Siding and 1450 meter along Coal Transport road)

Existing air pollution Control Measures			
S. No.	Pollution Control Measures	Location	Nos./Capacity
6.	Instant Shower System	Exit point of Coal stock yard/Entry Point of Concrete Coal Transport Road	1 No.
7.	Wheel Washing System	Exit point of coal stock yard/Entry Point of Concrete Coal Transport Road	1 No.
8.	Hiring of Mechanical Road Sweeper	01 No. in Balram Colony and 01 No. in Coal Corridor and Internal Coal Transportation Road	2 Nos.
9.	Internal CT Road (RCC)	Coal stock to Railway Siding and Coal Corridor	13.5 Km
10.	Coal Corridor (RCC)	Dedicated Coal Corridor for Talcher Coalfield of length 22.58 KM, out of which 7.06 Km falls in Balram OCP.	7.06 Km
11.	CAAQMS (Continuous Ambient Air Quality Monitoring system)	Near Contractual Working patch	1 No.

Additional control measures proposed to be implemented.

Proposed additional air pollution control measures		
S. No.	Particulars	Timelines
1.	3 nos. of CAAQMS	December'2025
2.	1 Mobile fog Cannon	September'2025
3.	Wind Barrier	December'2025*
4.	Plantation along the newly constructed Garland drains 1.5 Km stretch	Will be taken up in coming monsoon from June to Sept 2025.

*Work Order issued vide MCL/Samb/Civil/AOC/24-25/1388 dated 24.10.2024.

- PP has submitted Latest Routine Environmental Monitoring (REM) data of air, water & noise for the period of Oct. 24 to Dec. 24 (Post- Monsoon) of Balram OCP. Apart from above, PP has submitted air quality data from the CAAQMS near Nandira Substation (2.5 Km from ML area of Balram OCP) for last three calendar years.

Comparison of Air & Water quality of previously done baseline data (Mar-May 2021) with past three months routine environment monitoring data (Oct-Dec 2024)

Air quality Comparison:

(unit in µg/m³)

	Mar'21 to May'21		Oct'24 to Dec'24		Coal Mine standards 2000
	Min	Max	Min	Max	

Core Zone	PM ₁₀	95.5	188.0	102.0	158.0	250
	PM _{2.5}	50.6	95.9	54.0	69.0	---
	SO _x	15.7	30.3	9.2	22.5	120
	NO _x	12.2	22.2	13.8	39.4	120

(unit in µg/m³)

		Mar'21 to May'21		Oct'24 to Dec'24		NAAQS 2009
		Min	Max	Min	Max	
Buffer Zone	PM ₁₀	49.1	86.4	65.0	95.0	100
	PM _{2.5}	25.2	45.5	28.0	52.5	60
	SO _x	5.6	24.3	8.2	29.2	80
	NO _x	5.0	23.7	5.8	39.3	80

Water quality Comparison:

Ground Water					
Sl. No.	Parameter	Range		Standard	
		Mar'21 to May'21	Oct'24 to Dec'24	Acceptable Limit	Permissible Limit
1.	pH	6.90 – 7.45	6.69 - 7.93	6.5 – 8.5	No relaxation
2.	TDS (mg/l)	112 – 620	196 - 492	500	2000
3.	Total Alkalinity (mg/l)	42 - 124	113-173	250	1000
4.	Hardness (mg/l)	54 – 372	130.96 - 341.28	250	1000

Surface Water				
Sl. No.	Parameter	Range		IS 2296:1982 (inland surface water), class C
		Mar'21 to May'21	Oct'24 to Dec'24	
1.	pH	6.58 – 7.04	7.26 – 8.04	6.5 – 8.5
2.	DO (mg/l)	6.4 – 7.5	6.2 – 6.8	4
3.	TDS (mg/l)	174 – 342	224 – 532	1500
4.	TSS (mg/l)	5 - 23	26 - 34	--

Observation and deliberation of the EAC:

20.19.21: Committee after deliberations noted the following:

1. The instant proposal is for expansion of Balram OCP (earlier known as Kalinga OCP) (with increase in mine lease area from 1309 Ha to 2574 Ha and increase in production capacity from 8 MTPA to 15 MTPA). It is a brownfield project of M/s Mahanadi Coalfields Limited, located at Villages: Nakeipasi, Brahmanbahali, Kochianali, Damal, Prasana Nagar, Nathagaon, Majhika, Kalachhuin, Danara, Natada, Banabaspur, Telipur, Solada, Satyabadipur, Gopalprasadkhamar, Khuringa and Birabarpur; District: Angul; State: Odisha.
2. The original EC was accorded for the said project vide letter no. F. No. J-11015/4/87-IA, dated 24.10.1990. The CTO for the same was obtained from SPCB for 7.74 MTPA and the actual production done by the proponent is within the prescribed limit.
3. The above ECs have been implemented by the proponent and they have achieved the production of 7.74 MTPA during 2022-23 and 2024-25.
4. PP accorded Terms of Reference for the said expansion in lease area and the production capacity on 20.09.2021 and ToR is valid up to 19.09.2025.
5. The mine lease area of 2574 ha is acquired vide different notifications of Coal Bearing Areas (Acquisition and Development) Act, 1957 and Land Acquisition Act, 1894. The Mining Plan and the Mine Closure Plan was approved by MCL Board for the proposed expansion vide letter no. MCL/SBP/CS/BD-226/Ext/2020/11151, date 29.08.2020 and subsequently corrigendum approved by MCL Board vide letter no. MCL/SBP/CS/BD-227/Ext/2020/11307, dated 17.11.2020.
6. Total geological reserve reported in the mine lease area is 1494.93 Mt with 737.04 Mt as mineable reserves. Out of total mineable reserve 712.134 Mt are available for extraction as on 01.04.2020. Percentage of extraction is 96.62%. Life of Mine is 49 years (as on 01.04.2020).
7. Total 19 seams with thickness ranging from 0.3 to 22 are workable. Overall Grade of Coal is G-10 to G-13, Stripping ratio is 2.10 while gradient is 2.750 - 80. Method of mining operations envisages by Opencast Method.
8. The project has 01 OB dump (within ML area) of 32.20 ha with 40 m height and 11.28 Mm³ of OB. One internal OB (proposed) in an area of 1554.24 ha with 1651.457 Mm³ of OB is envisaged in the project.
9. Total quarry area is 1863.7 ha out of which backfilling will be done in 1554.24 ha and final mine void will be created in an area of 39.36 ha which will be converted into a water body with a maximum depth of 40 m (The final depth of the mine will be 40m at the time of closure by filling OB from nearby mines and fly ash from neighboring thermal power plants). Remaining 270.10 ha shall comprise of the dip side slope which shall be grass carpeted. Backfilled quarry area of 1554.24 ha shall be reclaimed with plantation.
10. 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.

11. Project does not fall in the Critically Polluted Area (CPA)/ Severely Polluted Area (SPA) as per CEPI Assessment 2018.
12. The project involves 278.855 ha of forest land, out of which 85.01 ha has already been diverted (one time clearance) vide letter dtd. 28-09-1990. In proposed expansion stage I FC for additional forest land of 193.845 ha has been granted by MoEF&CC vide letter 8-143/89-FC (I/87973/2024) dtd. 22-11-2024.
13. The project is not located within 10 KM of any ESZ/ ESA/ national park/ wildlife sanctuary/ biosphere reserve/ tiger reserve/ elephant reserve/tiger corridor, etc. However, the project is located at a distance of 8.04 km from Kahnejena – Anantapur Elephant Corridor.
14. A site-specific wild life conservation plan considering Kanheijena-Anantapur Elephant corridor which is 8.04 km from the mine lease area is prepared by DFO Angul and approved by the PCCF Wildlife vide letter no 9783/CWLW-FDWC-FD-0150-2021, dated 17-08-2024.
15. Bangaru Stream/nallah is flowing near the northeastern boundary (approx. 600 m away) in the SW to NE direction and Singada stream/nallah (approx. 200m away) from the northwestern boundary of the mine lease area. PP submitted that no water body/ road/ rail is proposed to be diverted. No ASI protected archaeological site in close proximity to the ML area.
16. Total water requirement for the proposed project is 5525 KLD. Potable water requirement for the project shall be 950 KLD and for industrial purpose shall be 4575 KLD. Source of water is ground water (the entire requirement of water is proposed to be fulfilled by mine seepage water). PP also submitted that NoC for ground water from CGWA has been approved as per minutes of 202nd Internal EAC held on 21-11-2024, CGWA for withdrawal of 5006 KLD. Remaining water requirement will be fulfilled by treated mine water.
17. PP submitted that emphasis is on more rainwater utilization compared to groundwater. Rainwater plays a predominant role in meeting water requirements at Balram OCP, significantly reducing the reliance on groundwater. Rainwater accumulation in the working quarry and abandoned quarries contributes 3,315 KLD, surpassing the calculated groundwater seepage water volume of 2,150 KLD. Sumps with cumulative area 21.06 lakh sq m with a potential capacity of 123.75 lakh m³ is sufficient to store rainwater which can be used to cater operational needs. Dewatering and treatment strategies ensure that rainwater is maximized for operational and community use, with only minimal reliance on groundwater sources. The presence of six rooftop rainwater harvesting structures (5278 cum/year) further supplements recharge and storage, reinforcing Balram OCP's commitment to sustainable water management.
18. Committee opined that water audit shall be conducted and proponent shall abide by all the recommendations of the water audit conducted.
19. Committee also deliberated on the ADS raised for pollution being done in the existing sumps with the mine water, which were asked to be considered for rejuvenation with development of fish-culture. PP submitted that the existing sump of Balram OC has been rejuvenated by desilting and dredging. The sump water analysis is done at regular

intervals (quarterly) for four parameters, namely, pH, TSS, COD and Oil & Grease. The existing sump water is supporting aquatic life and there are many fishes existing in the mine water sump.

20. PP collected the baseline data during March 2021 to June 2021. As the baseline data is older than 3 years, Committee sought data of routine environment monitoring and CAAQMS and its comparison along with the baseline data submitted. PP submitted the same and the air quality data is observed to be on the higher side. Committee opined that PP shall follow additional mitigation measures in order to mitigate the air pollution. PP submitted the time bound plan for additional air pollution control measures. Committee opined that the 3 nos of CAAQMS and wind barriers proposed shall be installed by December 2025. 1 nos of fog canon proposed shall be installed by September 2025 and plantation along with the newly constructed garland drains shall be completed in the monsoon of 2025.
21. Committee deliberated on the Public Hearing proceedings that took place on 23.08.2022. The major issues raised in the PH were related to R&R issues, Peripheral Development and Environment protection measures (Drinking water, Air/Water Pollution), Infrastructure (construction of Road, Electricity, School etc.), R&R and local employment, Health and Hygiene, Plantation (Avenue & community Plantation). Proponent submitted an action plan for the same.
22. Committee deliberated on the plantation done by the proponent. Existing green belt has been developed in 232.57 Ha area which is about 17.77% of the total ML area of 1309 ha with total sapling of 4,93,045 nos. Proposed greenbelt will be developed in 1764.21 ha which is about 68.53% of the total project area. Thus, total of 1996.78. ha area (77.57% of total project area) 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&CC, New Delhi guidelines. Local and native species will be planted with a density of 2500 trees per hectare. Total no. of 49,91,950 saplings will be planted and nurtured in 1996.78 hectares in 52 (49 years and post closure 3years) years.
23. Committee deliberated on the method of transportation of coal proposed by the proponent and observed that from pit to surface, coal is being transported through dumpers/ tippers. For current production capacity of 8 MTPA, it is observed that 5 MTPA is being transported through dumpers to the washery of APGENCO which is located within the ML area of the said project. Further, 5 MTPA washed coal from washery and 0.5 MTPA from surface is being transported through rail to the final consumers. And 2.5 MTPA from surface is being transported through dedicated coal transportation road to the consumers within 25-30 km from the project area.

For proposed expansion of 15 MTPA, till the belt conveyor is under construction, 12.5 MTPA (including coal to and from washery) will be transported through by road through trucks from pit to siding and 2.5 MTPA will continue to be transported through dedicated coal transportation road.

Post construction of belt conveyor, for which the PP has submitted that the same shall be completed by FY 2027-28.

Committee sought the maximum distance of transportation of coal to the consumers by Road. PP submitted that coal from the Balram OCP is being sent to GMR Kamalanga

Energy Ltd, TATA Steel, Navbharat industries, NALCO, JSPL and other local consumers which are within 25-30 Km from the Project.

24. Existing capital cost of project was Rs. 516.74 Cr. The capital cost of the proposed project is Rs. 3504.21 crores with total cost of the project being Rs. 4020.95 Crores and the capital cost for environmental protection measures is proposed as Rs. 843.32 Crores. The annual recurring cost towards the environmental protection measures is proposed as Rs. 31.15 Crore. The employment generation from the proposed project / expansion is 1326: direct employment and about 15000: Indirect employment.
25. Committee deliberated on the closure report obtained by the proponent from the Ministry's RO vide letter no. 101-929/EPE dated 26-12-2024. The Action taken report regarding 3 points - partially complied (point no. 1) and being complied but further action needed (point no. 2 & 3) was submitted to IRO, Bhubaneswar by the proponent vide letter no. MCL/GM/HA/ENVT/2024-25/523 Dated 05.01.2025.
26. 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.
27. 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.
28. The EAC also deliberated on the additional information submitted and written submissions made by the project proponent and found it satisfactory.

Recommendations of the Committee:

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

A, Specific conditions

- i. No mining operations shall be undertaken in Forestland, until Stage – II forestry clearance for additional forest land of 193.845 Ha has been obtained under the provisions of Van (Sanrakshan Evam Samvardhan) Adhinyam, Act 1980.
- ii. 3604 Project Affected Families (PAF) of the 17 villages namely Nakeipasi, Brahmanbahal, Damal, Prasananagar, Nathgaon, Majhika, Kalamachhuin, Danara, Natada, Banabaspur, Telipur, Solada, Satyabadipur, Gopalprasad Khamar, Khuringa, Birabarpur and Kochianali, will be affected due to the proposed project. The affected families should be rehabilitated as per R & R plan to be 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.
- iii. Project proponent shall not divert water body/road/transmission lines within the lease area of 2574 Ha as committed.
- iv. Total water requirement for the proposed project is 5525 KLD (950 KLD potable water

+ 4575 KLD industrial purpose) and the same shall be met from groundwater and mine seepage water. PP shall obtain requisite NoC for withdrawal of Groundwater from CGWA prior to the commencement of mining operations.

- v. PP shall adopt the following additional air pollution control measures-

Proposed additional air pollution control measures		
S. No.	Particulars	Timelines
1.	3 nos. of CAAQMS in addition to the existing one CAAQMS	December'2025
2.	1 Mobile fog Cannon	September'2025
3.	Wind Barrier	December'2025
4.	Plantation along the newly constructed Garland drains 1.5 Km stretch	Will be taken up in coming monsoon from June to Sept 2025.

- vi. The proposed budget of Rs 12.77 Crores for PH action plan 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 next 03 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. In addition to this, PP shall strengthen the existing Primary Health Center (PHC) & Community Health Center (CHC) in the study area for better public health. As committed by the PP, PHCs & CHCs within the core and buffer zone will be supported with adequate budget over 5 years, 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.
- vii. Total of 1996.78 ha area (77.57% of total project area) shall 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&CC, New Delhi guidelines. Local and native species shall be planted with a density of 2500 trees per hectare. Total no. of 49,91,950 saplings shall be planted and nurtured in 1996.78 hectares in 52 (49 years and post closure 3 years) years.
- viii. A green belt shall be developed all along the nearby village boundaries to reduce impact of air pollution over nearby villages. Plantation must be done on both the sides of coal transportation road and fog canons must be installed for dust suppression before the commencement of the mining operation. In addition to this, PP shall provide 50,000 plant saplings with 4 feet tall fruit bearing plants to farmers for plantation in barren and agriculture lands in the study area every year for 5 years with incentive to improve the green cover in and around the mine lease area.
- ix. For proposed expansion of 15 MTPA, till the belt conveyor is under construction, 12.5 MTPA (including coal to and from washery) shall be transported by road (through trucks) from pit to siding and 2.5 MTPA shall be transported through dedicated coal transportation road. As committed, construction of belt conveyor shall be completed by the 31/03/2028. Road transportation of coal is not permitted beyond 31/03/2028.

- x. PP should continue the Carbon Sequestration Study including carbon emissions from coal mining. Compliance status in this regard shall be submitted along with the six monthly compliance to the concerned Regional Office and also kept on the web portal of the company.
- xi. The proposed project shall be operated on closed water circuit with a concept of 'Zero Liquid Discharge' (ZLD). 100% water will be recycled and no treated & untreated wastewater shall be discharged outside the boundaries of mine lease area.
- xii. PP shall carry out a survey of the impact of blasting in the nearby area/villages by involving a reputed institute and take remedial measures as proposed by the respective institute. Further, provide compensation if any for any damage caused. PP must give crop compensation to the farmers in case there is decrease in the production due to the mining activities. Compliance status in this regard shall be submitted along with the six monthly compliance to the concerned Regional Office
- xiii. Management of top soil and overburden shall be as per the approved mining plan. No OB dumping should be done outside the ML area.
- xiv. 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. 843.32 Cr (Capital) and Rs 31.15 Cr (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.
- xv. To control the production of dust at the source, the crusher and in-pit belt conveyors shall be provided with mist-type sprinklers. PP shall install fixed fog cannon (mist spayer) and fixed sprinkler all along the haul road/ CHP, and OB dump till Railway siding is completed. The sufficient number of fog cannons with 40 mts jet length shall be installed within 6 months. It should be ensured that air pollution level confirm to the standards prescribed by the MOEFCC/CPCB. Also PP shall install Mist Cannon Dust Suppression Systems (80-100 mtrs.) at Coal Stock Yard to suppress the dust particles.
- xvi. Garland drains of adequate size shall be provided at the toe of the benches to arrest discharge and runoff with silt and sediments surging into areas adjoining the periphery of Overburden dump, which will be regularly cleaned before the onset of monsoon every year.
- xvii. Check dams shall be constructed at required locations within drains to arrest eroded materials and settling ponds shall be constructed to treat mine discharge water inside the mine block.
- xviii. Water harvesting pond shall be created separately to recharging the ground water and usage of project affected families.
- xix. Proper profiling of working benches of pits and dumps shall be done to channelize water in garland drains & sumps.
- xx. Waste generated from the domestic use shall be treated in STP and the treated water will be utilized in plantation & greenbelt development. Wastewater from the HEMM

washing/ workshop will be treated in ETP. After treatment, water will be reused in washing of HEMM, dust suppression and greenbelt development

- xxi. PP shall make use of advanced computer simulation techniques for design and execution of blasting operation in the mine. PP shall make use of Electronic Delay Detonators for optimal blasting in coal and OB rock to minimize the environmental impacts of blasting such as ground vibration, fly rocks and excessive dust generation.
- xxii. PP shall create a “Public Grievance Redressal and Monitoring System” for resolving any issues related to the pollution of mines and complaint has to resolve as soon as possible not beyond 30 days. In this regard, adequate awareness to be spread among the public to address their grievance to company with simple and easy manner and for which company needs to devise the mechanism. The same shall be reported to IRO within 3 months. A logbook to be maintained by PP on “Public Grievance Redressal and Monitoring System.
- xxiii. The project proponent shall take all precautionary measures during mining operations for the conservation and protection of endangered fauna, if any, spotted in the study area. Wildlife conservation plan as approved by the competent authority shall be implemented. PP shall deposit the approved amount of Rs. 30.588 crores as proposed for wildlife conservation plan to the Govt. of Odisha, Forest & Environment Dept. and further consult with State Biodiversity Authority for its CSR activity.
- xxiv. Third-party audit (by reputed Govt. institutions/organizations) 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.
- xxv. The status of mine closure activities must be included in every six months compliance report submitted to the state pollution control board and RO of MoEF&CC.
- xxvi. Hon’ble Supreme Court in an Writ Petition(s) Civil No. 114/2014, Common Cause vs Union of India &Ors vide its judgement dated 8th January, 2020 has directed the Union of India to impose a condition in the mining lease and a similar condition in the environmental clearance and the mining plan to the effect that the mining lease holders shall, after ceasing mining operations, undertake re-grassing the mining area and any other area which may have been disturbed due to their mining activities and restore the land to a condition which is fit for growth of fodder, flora, fauna etc. Compliance of this condition after the mining activity is over at the cost of the mining lease holders/Project Proponent”. The implementation report of the above said condition shall be sent to the Regional Office of the MoEF&CC.
- xxvii. 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.
- xxviii. PP shall ensure that all types of plastic waste generated from the plant shall be stored separately in isolated area and disposed of strictly adhering to the Plastic Waste

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

- xxix. Project proponent is advised to implement the 'Ek Ped Maa Ke Naam' Campaign which was launched on 5th June 2024 on the occasion of the World Environment Day to increase the forest cover across the Country. This plantation drive is other than Green belt development. The action in this regard shall be submitted concerned RO in six monthly report.
- xxx. 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.

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. The project proponent shall obtain clearance from the National Board for Wildlife, if applicable.
- iii. 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.
- iv. The maximum production or peak production at any given time shall not exceed the limit as prescribed in the EC.
- v. Validity of EC is as per life of the mine mentioned in EC letter or 30 years as per EIA Notification, 2006 and its amendments therein.

2. Air Quality Monitoring and Mitigation Measures

- i. Project proponent shall obtain requisite consent from State Pollution Control Board for 15 MTPA mining.
- ii. Adequate ambient air quality monitoring stations shall be established in the core zone as well as in the buffer zone for monitoring of pollutants, namely particulates, SO₂ and NO_x. 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.
- iii. The Ambient Air Quality monitoring in the core zone shall be carried out to ensure the Coal Industry Standards notified vide GSR 742 (E) dated 25th September, 2000 and as

amended from time to time by the Central Pollution Control Board. Data on ambient air quality and heavy metals such as Hg, As, Ni, Cd, Cr and other monitoring data shall be regularly reported to the Ministry/Regional Office and to the CPCB/SPCB.

- iv. Effective control measures such as regular water sprinkling/rain gun/ Fog cannon /mist sprinkling etc., shall be carried out in critical areas prone to air pollution with higher level of particulate matter all through the coal transport roads, loading/unloading and transfer points. Fugitive dust emissions from all sources shall be controlled regularly. It shall be ensured that the ambient air quality parameters conform to the norms prescribed by the Central/State Pollution Control Board.
- v. Major approach roads shall be black topped and properly maintained.
- vi. Vehicular emissions shall be kept under control and regularly monitored. All the vehicles engaged in mining and allied activities shall operate only after obtaining 'PUC' certificate from the authorized pollution testing centres.
- vii. PP should Install Wind breaker/shield arrangement along the railway siding for reducing the dust propagation in upwind direction.
- viii. The raw coal shall be stacked properly at earmarked site (s) within stockyards fitted with wind breakers/shields. Adequate measures shall be taken to ensure that the stored mineral does not catch fire.
- ix. PP shall submit an action plan for using and developing Renewable Energy for its consumption in its utilities/machinery/equipment instead of using electricity from Grid/generated from Thermal Power Plants. PP shall explore installation of solar power generation units.

3. Water Quality Monitoring and Mitigation Measures

- i. The effluent discharge (mine waste water, workshop effluent) shall be monitored in terms of the parameters notified under the Water Act, 1974 Coal Industry Standards vide GSR 742 (E) dated 25th September, 2000 and as amended from time to time by the Central Pollution Control Board.
- ii. The monitoring data shall be uploaded on the company's website and displayed at the project site at a suitable location. The circular No.J-20012/1/2006-1A.11 (M) dated 27th May, 2009 issued by Ministry of Environment, Forest and Climate Change shall also be referred in this regard for its compliance.
- iii. The project proponent shall not alter major water channels around the site. Appropriate embankment shall be provided along the side of the river/nallah/streams 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.
- iv. Garland drains (of suitable size, gradient and length) around the critical areas i.e. mine shaft and low lying areas, 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
- v. The water pumped out from the mine, after siltation, shall be utilized for industrial

purpose viz. watering the mine area, roads, green belt development etc. The drains shall be regularly desilted particularly after monsoon and maintained properly.

- vi. Industrial wastewater from coal handling plant and mine water shall be properly collected and treated so as to conform to the standards prescribed under the Environment (Protection) Act, 1986 and the Rules made thereunder, and as amended from time to time. Oil and grease trap shall be installed before discharge of workshop effluent. Sewage treatment plant of adequate capacity shall be installed for treatment of domestic wastewater.
- vii. An integrated surface drainage plan including surface water conservation plan for the area of influence affected by the said mining operations shall be prepared, considering the presence of any river/rivulet/pond/lake/streams etc., with impact of mining activities on it, and implemented by the project proponent. The surface drainage plan and/or any diversion of natural water courses shall be as per the provisions of the approved Mining Plan/ EIA-EMP submitted to this Ministry and the same should be done with due approval of the concerned State/GoI Authority. The construction of embankment to prevent any danger against inrush of surface water into the mine should be as per the approved mining plan and as per the permission of DGMS.
- viii. 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.
- ix. Industrial effluent and domestic wastewater shall be treated in the Effluent treatment Plant (ETP) and Sewage Treatment Plant (STP) as proposed. After treatment, treated water shall be reused for plantation.

4. Noise and Vibration Monitoring and Prevention

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

5. Mining Plan

- i. Project proponent shall obtain star rating as per the guidelines of Ministry of Coal.
- ii. Mining shall be carried out under strict adherence to provisions of the Mines Act 1952 and subordinate legislations made there-under as applicable.
- iii. No change in mining method, calendar programme and scope of work shall be made without obtaining prior approval of the Ministry of Environment, Forests and Climate Change (MoEFCC).

- iv. 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 circulars issued by Directorate General Mines Safety (DGMS).
- v. Efforts should be made to reduce energy and fuel consumption by conservation, efficiency improvements and use of renewable energy.
- vi. Environmental conditions of mining place shall be rendered ergonomic and air breathable with adequate illumination in conformance with DGMS standards.
- vii. No mining shall be carried out in forest land without obtaining the requisite Forestry Clearance as per Forest (Conservation) Act, 1980 and also adhering to the Scheduled Tribes and Other Traditional Forest Dwellers (Recognition of Forest Rights) Act, 2006 read with provisions of Indian Forest Act, 1927.

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) from time to time shall be submitted to the Regional Office of MoEF&CC.
- (ii) The final mine void depth should preferably be as per the approved Mine Closure Plan, and in case it exceeds 40 m, adequate engineering interventions shall be provided for sustenance of aquatic life therein. The remaining area shall be backfilled and covered with thick and alive top soil. Post-mining land be rendered usable for agricultural/forestry purposes and shall be handed over to the respective State Government, as specified in the Guidelines for Preparation of Mine Closure Plan, issued by the Ministry of Coal dated 27th August, 2009 and subsequent amendments.
- (iii) The entire excavated area, backfilling, external OB dumping (including top soil) and afforestation plan shall be in conformity with the “during mining”/“post mining” land-use pattern, which is an integral part of the approved Mining Plan and the EIA/EMP submitted to this Ministry. Progressive compliance status vis-a-vis the post mining land use pattern shall be submitted to the MOEFCC/RO.
- (iv) Further, it may be ensured that as per the time schedule specified in mine closure plan it should remain live till the point of utilization. The topsoil shall temporarily be stored at earmarked site(s) only and shall not be kept unutilized. 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.
- (v) 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.

7. Public Hearing and Human Health Issues:

- i. Adequate illumination shall be ensured in all mine locations (as per DGMS standards) and monitored.
- ii. The project proponent shall undertake occupational health survey for initial and periodical medical examination of the personnel engaged in the project and maintain records accordingly as per the provisions of the Mines Rules, 1955 and DGMS circulars. Besides regular periodic health check-up, 20% of the personnel identified from workforce engaged in active mining operations shall be subjected to health check-up for occupational diseases and hearing impairment, if any, as amended time to time
- iii. 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.
- iv. 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.
- v. Effective arrangement shall be made to provide and maintain at suitable points conveniently situated, a sufficient supply of drinking water for all the persons employed.
- vi. The project proponent shall follow the mitigation measures provided in this Ministry's OM No.Z11013/5712014-IA.II (M) dated 29th October, 2014, titled 'Impact of mining activities on habitations-issues related to the mining projects wherein habitations and villages are the part of mine lease areas or habitations and villages are surrounded by the mine lease area'.
- vii. PP should conduct epidemiology study for analysis of the distribution, patterns and determinants of health and disease conditions in defined populations.

8. Corporate Environment Responsibility:

- 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 and/or shareholders/stake holders
- ii. A separate Environmental Cell both at the project and company head quarter level, with qualified personnel shall be set up under the control of senior Executive, who will directly 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.

- iv. Self-environmental audit shall be conducted annually. Every three years third party environmental audit shall be carried out.

9. Miscellaneous:

- i. The project proponent shall make public the environmental clearance granted for their project along with the environmental conditions and safeguards at their cost by prominently advertising it at least in two local newspapers of the District or State, of which one shall be in the vernacular language within seven days and in addition this shall also be displayed in the project proponent's 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 environment clearance portal.
- v. 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.
- vi. The project authorities shall inform to the Regional Office of the MOEFCC regarding commencement of mining operations.
- vii. The project authorities must strictly adhere to the stipulations made by the State Pollution Control Board and the State Government.
- viii. 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.
- ix. No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment, Forests and Climate Change (MoEF&CC).
- x. 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.
- xi. The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.
- xii. The Ministry reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.
- xiii. 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
- xiv. 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 No. 20.20

20.20: Gourangdih ABC Opencast Coal Mining Project (area 356.575 Ha having capacity 2.5 MTPA) by M/s West Bengal Mineral Development and Trading Corporation Limited, located at Villages: Panuria, Kantapahari, Jamgram, Shibdhawra, Banddhawra, Lalbandh, Gourangdih & Bhuiapara; District: Paschim Bardhaman; State: West Bengal – Regarding grant of EC based on ADS reply.

[Online Proposal No. IA/WB/CMIN/65801/2017; Consultant: Min Mec Consultancy Pvt. Ltd: NABET/ EIA/2225/IA 0096 (Rev.01) valid till 29.03.2025]

20.20.1: M/s. West Bengal Mineral Development & Trading Corporation Limited (WBMDTCL) has made an online application vide proposal no. IA/WB/CMIN/65801/2017 Dated 24.07.2020 along with copy of EIA/EMP report, Form-1 (CAF, Part-A, B & C) seeking Environment Clearance (EC) under the provisions of the EIA Notification, 2006 for the project mentioned above. As per the amendment to EIA Notification, 2006 on 20/04/2022, the proposed project activity is listed at schedule no. 1(a) “mining” Under Category “B” of the schedule of the EIA Notification, 2006. However, as per the Ministry’s OM dated 27.09.2022, “The proposals which have been considered/ appraised once by EAC either for ToR or EC, but final decision has not been taken, shall continue to be appraised at the Central level only, till final disposal for ToR/ EC, even after the amendments in the EIA Notification are issued from to time regarding delegation of projects to SEIAAS”. Since this proposal has been appraised three times earlier on EAC meetings held on 28-29th September 2020, 13th January 2021 and 1st April 2022, the project is now again placed before the EAC for appraisal at Central Level.

Gourangdih ABC Opencast Coal Mining Project (area 356.575 Ha having capacity 2.5 MTPA) by M/s West Bengal Mineral Development and Trading Corporation Limited, located at Villages: Panuria, Kantapahari, Jamgram, Shibdhawra, Banddhawra, Lalbandh, Gourangdih & Bhuiapara; District: Paschim Bardhaman; State: West Bengal is a Greenfield project. The project was granted ToR for the said project vide letter no. J-11015/80/2017-IA.II (M), dated 29.09.2017, valid up to 28.09.2022, in line with MoEF&CC, S.O 221 (E) 18.01.2021 (1 year extension as per COVID guidelines).

The proposal was initially considered in 2nd meeting of EAC (Coal) held on 28-29th September 2020 and further reconsidered in 6th EAC meeting held on 13th January 2021 and 28th EAC meeting held on 1st April 2022. Proposal was deferred for want of additional information. Proponent submitted the additional information on 02/12/2024. Now the proposal was again placed for appraisal in the 20th EAC (coal) meeting held on 20th-23rd January, 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:

20.20.2: Environmental Site Settings:

The project area is covered under Survey of India Topo sheet No.F45C13 (old no. 73 I/13) and is bounded by the geographical coordinates ranging from 23°48'30" N and 23°49'45" N and longitudes 86°57'45 E and 87°00'15 E.

Project does not fall in the Critically Polluted Area (CPA)/ Severely Polluted Area (SPA), as per CEPI Assessment 2018. Nearest CPA is Asansol at an aerial distance of 13 km.

Forest Area: The project involves total 109.459 ha of forestland. Stage – I forest clearance (FC) on the same is yet to be accorded. Forest clearance application was submitted vide Proposal No. FP/WB/MIN/26869/2017 dated 12.07.2017 and the same got rejected. Fresh application for seeking Forest Clearance (FC) has been submitted vide Proposal No. FP/WB/MIN/QRY/452568/2023 dated 11.04.2024 and the same is under process as on date. PP submitted that no forestland is broken and there is no violation of Van (Sanrakshan Evam Samvardhan) Adhiniyam, 1980.

Protected Area: The project is not located within 10 KM of any ESZ/ ESA/ National park/ Wildlife sanctuary/ Biosphere reserve/ Tiger reserve/ Elephant reserve/Tiger corridor/ Elephant corridor etc. The Wildlife Conservation Plan has been approved by PCCF (Wildlife), West Bengal vide letter no. 3362/WL/ 2M-33(Pt-II)/2021 dated 23.11.2022 for the Schedule I & II species (Indian Rock Python, Sloth Bear, Jungle cat, Jackal, Indian fox, Langur, Red jungle fowl, Spectacled cobra, Rat snake, Indian chameleon, Russell's viper) with a budget of Rs. 356.26 lakhs for 27 years.

Other sensitive receptors: There is Ajoy River at a distance of 2.2 km (NW), Noniya Jhor at the distance of 2.4 km (S) and Suriapani Jhor at a distance of 5.2 km (NE) from the project area. However, there is no diversion proposed for any River/ Nallah. There are two existing roads, which will be diverted. One is Asansol-Gourangdih road connecting Runakuraghat, passes over the eastern flank of Gourangidh-C quarry. This road is proposed to be diverted towards further East of the quarry. Another Road is Rupnarayanpur-Gourangdih road, passes over Western portion of the Quarry-A, which is proposed to be diverted towards further west of the quarry. Application for obtaining permission for road diversion has been submitted. Further, there is no presence of ASI protected archaeological site in close proximity to the ML area.

Project Area/ Mine Lease: PP submitted the following details of the ML area:

S. No.	Govt. Order/Notifications as the case may be	Area (ha)
1	G.O. No. 143-CI/O/MIN/GEN-COL/03/2016 dated 23.02.2018 and extended via letters dated 12.11.202 and 05.05.2022	213.27
2	Grant Order No. No.591-CI/O/ MIN/GEN-COL/03/2016 dated 29.09.2022	143.31
Total-1+2		356.58
3	Details of LOI (for area outside lease area)	Nil
Grand Total		356.58

Block was allocated vide vesting order no. 103/6/2016/NA, dated September 29, 2016 by Ministry of Coal.

20.20.3: Details of ToR: Details of the ToR accorded are as follows:

Date of Application	Details	Date of Accord	ToR Validity
25.08.2017	J-11015/80/2017-IA.II (M)	29.09.2017	28.09.2022 (PP applied for EC and the proposal was appraised by the EAC within the validity period of ToR)

20.20.4: Method of Mining and Mine Plan: Initially the Mining Plan and Mine Closure Plan was approved by the Ministry of Coal, Government of India vide letter No. 13016/77/2006-CA-I (Part) dated 28-06-2011. Thereafter, Mining Plan and Mine Closure Plan (first modification) was approved on 09.10.2023 vide letter no. WBCPA/APP00239/2023, as required by point. iii of ADS dated 01.04.2022 raised after 28th EAC meeting.

- i. Method of Mining will be Opencast mining.
- ii. The total geological reserves reported are 129.15 MT, out of which mineable reserves are 75.92 MT, and extractable reserves are 69.09 MT. Percentage of extraction will be 53.496 %.
- iii. There are total 8 nos. of seams and thickness of Seams is B-VII-1.46 m, B-VI-8.85 m, B-V- 9.89 m, B-IV- 7.92 m, B-III(T)- 4.92 m, B-III(B)-7.33 m, B-II- 25.07 m, B-I- 2.52 m.
- iv. Grade of coal will be Average F.
- v. Stripping ratio will be 2.91 Cum/t.
- vi. Life of mine is 27 years.
- vii. There are two internal dumps and two external dumps proposed, with the maximum height of 30 m each. There is no OB dump proposed outside the ML area. Backfilling will start from the first year itself.
- viii. Land use details:

a. Pre-mining land use:

S. No.	Land Use	Within ML Area (ha)	Outside ML Area (ha)	Total (ha)
1	Agricultural Land	147.335	-	147.335
2	Forest land (protected forest)	109.459	-	109.459
3	Wasteland	-	-	-
4	Grazing land	-	-	-
5	Surface Water body	10.791	-	10.791
6	Settlements	10.337	-	10.337
7	Others (specify):		-	
7.1	Barren	60.914	-	60.914
7.2	Road	11.7	-	11.7
7.3	Others. community	0.077	-	0.077
7.4	Freehold ECL	5.962	-	5.962
	Total	356.575	0	356.575

b. Post-mining land use:

S. No.	Type	Total Area (ha)	Reclaimed Area (Ha)	Unreclaimed area (Ha)
1	Excavation/ Quarry area	242.82	201.89	40.93
	(a) Backfilled area	201.89	201.89	
	(b) Excavated Void	40.93		40.93
2	External Dump	47.069	47.069	
3	Safety zone	10.03	10.03	
4	Road & infrastructure	9.21	7.93	1.28
5	Garland drain	0.76		0.76
6	Embankment			
7	Others			
7.1	Top soil dump	4.07	4.07	
7.2	Green belt	10	10	
7.3	Undisturbed area	32.426		32.426
7.4	Settling pond	0.19		0.19
	Total	356.575	280.989	75.586

ix. Details of Transportation:

a. **In pit:** Dumper

b. **Surface to siding:** Trucks/ tippers

c. **Siding to loading:** Loading using payloader

d. **Quantity being transported by Rail/Conveyor:** 100% by road to consumer or railway siding (7576 Tonnes per day)

Entire coal is proposed to be transported by road to the consumers. However, in case consumers are connected with railway, the coal will be transported by road till siding.

x. Details of reclamation: Afforestation shall be done progressively covering an area of 280.989 ha. This will include:

a. Reclaimed external OB dump: 47.069 ha

b. Internal Dump: 153.46

c. Green belt: 10.0 ha

d. Density of tree plantation: 2500 trees/ ha

e. Void of 40.93 ha at depth of 28 m in Gourangdih A & 27.35 m depth in Gourangdih C are proposed to be converted into water body.

f. Others including Safety zone of 10.03 ha, Road & infrastructure of 7.93 ha and Top soil dump of 4.07 ha.

g. Agriculture land of 48.43 ha will also be reclaimed.

20.20.5: Baseline Data: The Baseline data has been generated from December 2017 to February 2018:

Period	From 01 Dec 2017 To 28 Feb 2018, Winter Season
AAQ Parameters at 8 Locations (min and max)	PM _{2.5} : 24.6 to 45.3 µg/m ³ PM ₁₀ : 45.9 to 78.0 µg/m ³

Period	From 01 Dec 2017 To 28 Feb 2018, Winter Season																																												
	SO ₂ : 6.3 to 12.1 µg/m ³ NO _x : 8.3 to 16.7 µg/m ³																																												
Incremental GLC Level	PM ₁₀ : 19.916 µg/m ³ SO ₂ : 26.125 µg/m ³ NO ₂ : 31.49 µg/m ³ PM _{2.5} : 11.458 µg/m ³																																												
Ground water quality at 8 Locations	pH: 6.56 to 6.92, Total Hardness: 44 to 257 mg/l, Chlorides: 14 to 135 mg/l, Fluoride: 0.41 to 1.1 mg/l.																																												
Surface water quality at 8 Locations	pH: 6.9 to 8.2; DO: 6.5 to 7.1 mg/l and BOD: 5 to 30 mg/l, COD: 10 to 69 mg/l																																												
Noise levels Leq (Day and Night) at 8 locations	46.76 to 54.24 dBA for the daytime and 40.61 to 43.99 dBA for the Night time.																																												
Traffic Assessment Study findings	<p>Traffic study has been conducted at PWD road at (2) Natundihi Village, (2) Jamgram and (3) Khoshnagar Village which are approximately 1.5, 3.8 and 4.7 km, respectively from the mine site. Transportation of mineral will be done 100% by road. Existing PCU and existing level of service (LOS) is:</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>Natundihi Village</td> <td>93</td> <td>625</td> <td>0.15</td> <td>A</td> </tr> <tr> <td>Jamgram</td> <td>167</td> <td>250</td> <td>0.67</td> <td>B</td> </tr> <tr> <td>Khoshnagar Village</td> <td>130</td> <td>250</td> <td>0.52</td> <td>B</td> </tr> </tbody> </table> <p>Additional PCU load after proposed project will be 38 to 76 PCU's and resultant will be:</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>Natundihi Village</td> <td>130</td> <td>625</td> <td>0.21</td> <td>A</td> </tr> <tr> <td>Jamgram</td> <td>246</td> <td>250</td> <td>0.98</td> <td>E</td> </tr> <tr> <td>Khoshnagar Village</td> <td>168</td> <td>250</td> <td>0.67</td> <td>B</td> </tr> </tbody> </table> <p>Note: Capacity as per IRC:64-1991 Guideline for capacity for roads Conclusion: The level of service will A-E after including additional traffic due to</p>					Road	V (Volume in PCU/hr)	C (Capacity in PCU/hr)	Existing V/C Ratio	LOS	Natundihi Village	93	625	0.15	A	Jamgram	167	250	0.67	B	Khoshnagar Village	130	250	0.52	B	Road	V (Volume in PCU/hr)	C (Capacity in PCU/hr)	Proposed V/C Ratio	LOS	Natundihi Village	130	625	0.21	A	Jamgram	246	250	0.98	E	Khoshnagar Village	168	250	0.67	B
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Period	From 01 Dec 2017 To 28 Feb 2018, Winter Season
	proposed project.
Flora and fauna	The Wildlife Conservation Plan has been approved by PCCF (Wildlife), West Bengal vide letter no. 3362/WL/ 2M-33(Pt-II)/2021 dated 23.11.2022 for the Schedule I & II species (Indian Rock Python, Sloth Bear, Jungle cat, Jackal, Indian fox, Langur, Red jungle fowl, Spectacled cobra, Rat snake, Indian chameleon, Russell's viper) for budget of Rs. 356.26 lakhs for 27 years.
Water requirement	Source of Water: Ground Water Ground Water Intersection: Yes Water Requirement: 984 KLD NOC (Ground Water): Letter from Geologist & Member Secretary, SWID, Paschim Bardhaman via Letter no. P2205010022320000001THE dated 09.12.2019. Renewal application submitted on 18.09.2024. The mine is expected to become operational by December 2025, and PP undertake to obtain the renewal permission before starting operations.

20.20.6: Details of water requirement: Total Water requirement as submitted by the PP is 984 KLD. The source of water will be groundwater and NoC from the same has been accorded from Geologist & Member Secretary, SWID, Paschim Bardhaman via Letter no. P2205010022320000001THE dated 09.12.2019. Renewal application submitted on 18.09.2024. The mine is expected to become operational by December 2025, and water renewal permission shall be obtained before starting the operations.

20.20.7: Details of power requirement and diversion of transmission line/ Hi-tension line: The total power requirement for the proposed mine will be about 5275 KW that will be supplied from West Bengal State Electricity Board (WBSEB) through 33 KV overhead line. For power backup, 5790 KVA diesel generator are proposed. No HT Power Line diversion is involved. Existing power lines, most of which are 11 KV single circuit feeders having 2-3 power line pole, will have to be shifted at a very later stage. The diversion shall be done after obtaining the necessary approval from the concerned electricity board.

20.20.8: 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:

S. No.	Type of waste	Source	Quantity (TPA)	Mode of Treatment	Disposal
1.	Construction & Demolition Waste	Top soil	744000	Temporary storage & reuse	Haul road
2.	Municipal Solid Waste	Sludge septik tank	2.5	composted to be used as manure	Road
3.	Municipal Solid Waste	STP sludge	17.25	composted to be used as manure	Road
4.	Municipal Solid Waste	Municipal solid waste	197.5	Segregated & sent to authorised vendor	Road
5.	Industrial Waste	Oil & grease	0.528	Sold to SPCB/ CPCB authorised	Closed tank

				vendors	
6.	Industrial Waste	OB dump	17400000	Temporary dump & reuse in backfilling	Haul road
7.	Industrial Waste	Settling pond sludge	852.85	Disposed in the OB dump	Road

20.20.9: Public Consultation/ Hearing:

Details of advertisement given	English newspaper “The Times of India” and bengali “Ei Samay” on 18.08.2018 for PH on 20.09.2018
Date of public consultation	20.09.2018
Venue	“Agniveena Hall” at the office campus of Barabani Block Office, Dist- Paschim Bardhaman, West Bengal
Presiding Officer	Sri Prasanta Mandal, WBCS (Exe.) Additional District Magistrate
Number of Person Attended Hearing	129
Number of representation received in writing from the District and outside of District, please give details:	Nil
Major issues raised	Proposed pollution and mitigative measures, R&R package, impact on ground water, employment opportunity

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

S. N o.	Name of Activity (requirement raised during public hearing)	Activity Physical targets	Year 1	Year 2	Year 3	Year 4	Year 5	Total
1	Generation of employment for local youth	1. Direct Employment (land givers) of 265 persons, 2. Indirect employment (other PAPs) 400 persons 3. Sponsoring of local youth for training at ITI Purulia.	100 100	100 300 50 youth sponsored for training at ITI Purulia	65 50 youth sponsored for training at ITI Purulia	50 youth sponsored for training at ITI Purulia	50 youth sponsored for training at ITI Purulia	

S. N o.	Name of Activity (requirement raised during public hearing)	Activity Physical targets	Year 1	Year 2	Year 3	Year 4	Year 5	Total
		Govt. It has 14 trades (Fitter, Turner, Electrician, Machinist, Machinist Grinder, MMV, Mechanic Diesel, Surveyor, Wireman, Electro Mech., Welder, Carpenter, SMW & Foundryman Technician) with well-equipped modern, sophisticated machinery & equipment. 4. Grant of bicycle for travel to ITI from residence. 5. Villages preferred-from villages of Daskiari, Aliganj, Gouranghad i & Panuria, Kashidangal, Baradang, Kanta Pahari, Alipur, Jamgram & Chotkara.						
		Budget (Rs.)	300,000	300,000	300,000	300,000	300,000	1,500,000

S. N o.	Name of Activity (requirement raised during public hearing)	Activity Physical targets	Year 1	Year 2	Year 3	Year 4	Year 5	Total
2	Management of impact due to water table decline	1. Desiltation of pond, catchment area treatment for water harvesting, water recharge pit. 2. Laying of pipelines for supplying water to ponds for recharge of surface water ponds for villagers use and irrigation use	Laying of pipelines (2.14 km) for supplying water to ponds for recharge on alternate days in Gaourang dih, Panuria & Kashidangal	Laying of pipelines (5.47 km) for supplying water to ponds for recharge on alternate days in Daskiari, Aliganj & Chotkara.	Laying of pipelines (2.036 km) for supplying water to ponds for recharge on alternate days in Gaourangdih.	Laying of pipelines (3.13 km) for supplying water to ponds for recharge on alternate days in Baradang & Kanta Pahari	-	
		Budget (Rs.)	14,94,132	38,15,160	14,19,530	21,83,677	-	89,12,499
3	Improvement of road conditions	1. Construction of new roads as specified 2. Maintenance of constructed roads	1. Construction of a new road from tribal basti at Kashidang to Jamgram (1 km) and Aliganja village to Panuriya (1.5 km) 2. Maintenance of roads constructed till previous year (5% of cost)	1. Village Kantapahari (1.04 km), road construction. 2. Maintenance of roads constructed till previous year (5% of cost)	1. Village Chotkara (0.68 km), road construction 2. Maintenance of roads constructed till previous year (5% of cost)	1. Village Baradang (0.46 km), road construction 2. Maintenance of roads constructed till previous year (5% of cost)	1. Village Jamgram (0.94km), road construction 2. Maintenance of roads constructed till previous year (5% of cost)	
		Budget (Rs.)	3,500,000	1,631,000	1,208,550	960,978	1,681,026	8,981,554
4	Protective measures for management of impact due to blasting	1. Conduct of vibration study every year 2. Monitoring of ground	1. Conduct of vibration study 2. Purchase of PPV	Conduct of annual vibration study	Conduct of annual vibration study	Conduct of annual vibration study	Conduct of annual vibration study	

S. N o.	Name of Activity (requirement raised during public hearing)	Activity Physical targets	Year 1	Year 2	Year 3	Year 4	Year 5	Total
		vibration by vibration measuring instrument 3. Scientific study for control blasting, 4. Use of non-electric delay detonator	meters (3 nos.)					
		Budget (Rs.)	400,000.00	100,000.00	100,000.00	100,000.00	100,000.00	800,000
5	Probable mitigative measures for overall impact	1. Air & Water pollution control Measures: Dust suppression and prevent generation of dust, mobile water sprinkling, domestic sewage treatment & disposal, Garland drains, Open surface drains, storm water channels, ETP, pollution control at railway siding, etc. 2. Air & Water	22,16,15,800	5,64,74,050	5,41,21,050	5,41,21,050	5,41,21,050	44,04,53,000

S. N o.	Name of Activity (requirement raised during public hearing)	Activity Physical targets	Year 1	Year 2	Year 3	Year 4	Year 5	Total
		<p>pollution monitoring : Establishment of Micro-meteorological station, Online Ambient air monitoring equipment, cost of annual sampling & testing, etc.</p> <p>3. Occupational Health: Establishment of Fire fighting equipment (portable, fixed-permanent sprinkler in stock yard, CHP, etc), Personal protective equipment & Periodic medical and health checkups, chest radiograph for ILO classification etc.</p> <p>4. Green Belt: Plantation in Green Belt & undisturbed area.</p> <p>5. Reclamation : Filling up and</p>						

S. N o.	Name of Activity (requirement raised during public hearing)	Activity Physical targets	Year 1	Year 2	Year 3	Year 4	Year 5	Total
		biological reclamation of de-coaled void, Plantation and biological reclamation of left out OB dump, Purchase of mobile water sprayer, dozers, pumps & pipes, Motor grader, Hydraulic backhoe, implementation of mine closure plan. 6. Miscellaneous: Fencing, protection, regeneration & maintenance of Safety zone, Studies & Actions required for compliance and Overheads, etc.						
	GRAND TOTAL	(Rs.)	22,73,09,932	6,23,20,210	5,71,49,130	5,76,65,705	5,62,02,076	46,06,47,053

20.20.10: EMP Budget: Initially, the capital cost for environmental protection measures was proposed as Rs. 17.27 Crores and the annual recurring cost towards the environmental protection measures was proposed as Rs 6.35 Crores. However, as per deliberation of EAC, the proponent has submitted additional EMP cost for transportation of coal from mine to Barabani & Charanpur railway sidings and EMP measures for Railway Siding. Now, the

revised capital cost for environmental protection measures is proposed as Rs. 22.07 Crores and the annual recurring cost towards the environmental protection measures is proposed as Rs 10.79 Crores. The employment generation from the proposed project is 762 (494 for mining, 268 for ancillary jobs).

The revised EMP cost as submitted by the PP is as follows-

S. No.	Description of Item	Proposed	
		Capital Cost (In Lakh Rs)	Recurring Cost (In Lakh Rs/ year)
1.	Pollution Control & Management	959	268.81
2.	Occupational health	25	19.03
3.	Green Belt Development	47.06	5.79
4.	Reclamation	686.10	324.64
5.	Miscellaneous	10	5.37
6.	Overheads (3%)	-	11.93
7.	EMP measures for transportation of coal from mine to Barabani & Charanpur railway sidings	374.61	317.76
8.	EMP measures for Railway Siding	105.33	125.72
	TOTAL	2207.1	1079.05

20.20.11: Plantation: Proposed greenbelt will be developed in 10.0 ha which is about 2.8% of the total project 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. Total no. of 25000 saplings will be planted and nurtured in 7.52 hectares in 1 years. In addition to this plantation shall be carried out in External OB Dump (47.069 ha), Top Soil Dump (4.07 ha), backfill area [43.96 non forest +109.50 (returned to forest after closure) = 153.46 ha], reclaimed roads (7.93 ha) and safety zone (10.03 ha).

20.20.12: Rehabilitation & Resettlement: The proposed mine area comes under three mouzas namely Panuriya, Gourangdih and Kantapahari covering seven villages. These villages are Shibdhara, Bandhaura, Lalbandh in Gourangdih-A and part of Panuriya, Kantapahari, Gourangdih & Bhuiapara in Gourangdih-C. The population of these villages will be affected by proposed coal mining. The habitation of these villages will be shifted for which separate R&R cost has been estimated. PAFs to be monetarily compensated for loss of dwelling unit are 629, PAFs to be monetarily compensated for loss of land are 377, number of PAFs belonging to either Scheduled Caste or Scheduled Tribe category are 339. R&R plan has been approved for the same.

20.20.13: Project Cost: Total Costs of the project is Rs 621.71 Crores (as per estimates in Revised Mining Plan of 2011). PP submitted the revised project cost of Rs. 1011 crore as per DPR.

20.20.14: Details of pending litigations: 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.

20.20.15: Undertaking/ Affidavit: PP vide an undertaking submitted that this is to certify that the information provided in Form-2 and its annexures in pdf format in PARIVESH, to the Ministry/ EAC members and PPT presentation during the EAC meeting to be held on 23rd January 2025 have no deviation in respect of the proposal no. IA/WB/CMIN/65801/2017 for EC for coal mining having ML area 356.575 ha (~356.6 ha) of Project area and capacity of 2.5 MTPA for Coal Mine Project located at Villages. Panuria, Kantapahari, Jamgram, Shibdhawra, Banddhawra, Lalbandh, Gourangdih & Bhuiapara, Taluk Barabani CD Block, District Paschim Bardhaman, State West Bengal by M/s West Bengal Mineral Development and Trading Corporation. 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.

PP vide an affidavit submitted that there is no construction/ mining done at the site by the Project Proponent.

20.20.16: ADS Reply: The proponent submitted the ADS reply on 24.12.2020, 11.03.2022, 03.09.2024 and 03.12.2024 uploaded on PARIVESH. Point-wise reply of all ADS is given as below:

S. No.	ADS Point	Reply/Response of PP
1.	ADS raised dt. 14.10.2020	Submitted on 24.12.2020
i.	PP shall submit the Stage-I FC for diversion of 109.459 ha of forest land for non-forestry purposes.	Proposal for forest clearance for diversion of 109.459 ha forest land was submitted vide proposal No. FP/WB/MIN/26869/2017 on 12.07.2017 and the same is under process. The current status is as follows: <ul style="list-style-type: none"> ● The proposal was forwarded by the State Government to H.O, MoEF&CC on 16.01.2019. ● HO, MoEFCC forwarded to Addl. PCCF (Central), Regional Office (EZ), Bhubaneswar for Site Inspection Report (SIR) on 21.02.2019. ● DIGF (Central), GoI Eastern Regional Office, MoEFCC inspected the Forest Site & Proposed CA Site from 28.05.2019 to 30.05.2019. ● SIR was uploaded by Regional Office, MoEFCC on 19.06.2019. In the interim the Ministry's guideline dated 22.05.2019 came wherein patches less than 5 ha in size were not permissible for CA site. ● Thereafter, the HO, MoEFCC, New Delhi, through its letter F. No. 8-3/ 2019/FC dated 15.07.2019 addressed to the Principal Secretary, GoWB, has made some observations and sought some clarifications/information/documents, which are in the process of being complied with.
ii.	Since area B is not intended to be mine and No OB dump and CHP should be located outside Mine Lease area, PP shall submit Revised Mine Plan including	The need to revise the Mining Plan on the grounds that "No OB dump and CHP should be located outside Mine Lease area" will not arise. This is because an application for an additional 354.136 Acre (~143.314 Ha) Mine Lease has been made vide WBMDTCL's letter no. MDTC/PM-5/144 (ML-ADDL)/62

S. No.	ADS Point	Reply/Response of PP
	Mine Closure Plan.	<p>dated 18.01.2020 to the Government of West Bengal. This will result in the Mine Lease area becoming equivalent to project area and will encompass the OB dump and CHP as well.</p> <p>The said application copy has been submitted. The ML Grant Order is expected soon.</p> <p>Furthermore, according to Clause-14 of the Allotment Agreement dated 23.08.2016 executed between the Nominated Authority, MoC, GoI and WBMDTCL, the Mine Plan approved in relation to the Prior Allottee shall be applicable to WBMDTCL and it can be revised for extraction of more coal, which is not being proposed by WBMDTCL.</p>
iii.	Progressive reclamation mine closure plan/backfilling shall be prepared to reduce the requirement of land.	<p>Revised Mining Plan & Mine closure plan for the Gourangdih ABC Coal Mine has been approved by Ministry of Coal, GoI, vide letter dated 28.06.2011 wherein concurrent backfilling from 5th year onwards has been planned. The mining plan has been prepared by the previous allottee and their RQP and has been reviewed by WBMDTCL. It was found that the earliest possible backfilling could be started by 5th year only, as suggested in the mining plan. However, till such time, external dumping on 62.97 ha would be required and is essential. In order to minimise the impact of the mine on land and environment, the entire external dump over 62.97 ha will be rehandled and backfilled during mine closure period. Hence, no change in the approved mine plan is envisaged by the project proponent.</p> <p>A gist of the proposed backfill planning as per the approved mine closure plan is given below:</p> <p>In Gourangdih-A which will be started first, the initial OB will be dumped over already de-coaled area of Khoirabad colliery. The Gourangdih-C will start dumping over the vacant space in the north of the quarry.</p> <p>Initially upto 4th year the OB generated will be dumped at external OB dump fully over an area of 60.05 ha. Thereafter i. e. from the 5th year itself, OB generated will be dumped both externally as well as internally for backfilling. The backfilling process will be continued till the end of life of mine.</p>
iv.	<i>Consequential impact of ground water in B -Block area to be carried due to mining activity out in A & C Blocks.</i>	<p>The depth to water table in study area as observed from 48 wells varies from 0.61 to 9.14 m bgl with an average of 4 m bgl. Ultimate working depth of the mine by opencast operations will be 120 m bgl in Gourangdih-A and 210 m bgl in Gourangdih-C. Thus, water table will be intersected. The mine seepage will take place from the open mine faces. Due to which, there will be drawdown or lowering of water table in the radius of influence. Radius of influence has been worked out as 160 m for the seepage due to initial intersection with water table and its progress with time and change of mining face as well as backfilling during the life of mine. Gourangdih B block lies in between the quarry A &</p>

S. No.	ADS Point	Reply/Response of PP
		<p>C. Part of the habitation of Gourangdih B Block, which is adjoining to the quarries, will come under radius of influence zone. These habitation will face decline in water table in their wells/ tube wells due to drawdown.</p> <p>Mitigation measure: WBMDTCL is committed to ensure potable water supply in the villages falling within the zone of influence. It may be noted that Piped Water Supply System (PWSS) by PHED already exists in Gourangdih Bazar, Hakim Para, Hat-tola, Panuria Gram, Chata Danga, which are partly or fully within the radius of influence. The water source of PHED is Ajay river. WBMDTCL will consult the Public Health Engineering Department, GoWB for supply of water from its surface reservoir to the PWSS, after treatment.</p> <p>Monitoring plan: Shallow and deep piezometers will be constructed around the mine area for monitoring the water levels in the aquifer every month.</p>
v.	<p><i>PP shall provide details of water harvesting for fulfilling the need of area B since it comes under the zone influence of mining activity and primarily ground water is source of water for settlement on area B.</i></p>	<p>For the fulfilment of the water requirement of Gourangdih B settlement, the first step is to assess the water requirement and its source. Tentative water demand has been calculated below based on the population data (Census 2011) collected from BDO office, Barabani.</p>
vi.	<p><i>Consequential impact of OB dump by reducing the fleet size shall be prepared after change in rearranging the areas.</i></p>	<p>As discussed in ADS ii & iii, there will not be any change in the planned mine, hence, no rearranging of OB dump area will occur. WBMDTCL shall put best efforts towards minimization of increment in pollution load by promoting use of higher capacity dumpers and consequently reducing fleet size, which will result in less number of dumpers movement for the same quantity of OB.</p>
vii.	<p><i>Proper response of public consultation with regard to pollution mitigation measures and demands of local people</i></p>	<p>During public hearing, the people welcomed the project but raised few points related to proposed pollution and mitigative measures, R&R package, impact on ground water, employment opportunity etc. Questions/ comments/ demand raised during public hearing with regards to pollution mitigation measures and replies by the project proponent as per the latest activities undertaken/ proposed to address them has been tabulated and submitted.</p>
viii.	<p><i>Details of control blasting with adequate safeguard for nearby people particularly locals residing in block B</i></p>	<p>Following precaution and mitigation measures will be adopted during blasting:</p> <p>A) Controlled blasting techniques including muffled blasting will be adopted.</p> <p>B) Blasting design will be done through CIMFR after scientific study.</p> <p>C) Total quantity of explosives to be detonated at a time will be regulated so that ground vibration which may affect the nearby surface structures, are kept within the stipulated limit.</p> <p>D) Precise and accurate timing delay, optimum oxygen balance in explosives, etc. will be maintained to reduced the Fly rock and dust emission</p> <p>E) Dust generation will be mitigated by water spraying before and after blasting.</p> <p>F) Blasting will be done within 500 m zone as per CMR, 2017 but</p>

S. No.	ADS Point	Reply/Response of PP
		<p>beyond 100 m from the village, dwellings, surface structures, road etc after obtaining approvals from the Chief Inspector. Other safety provisions mining operation shall be carried out/ implemented as per <i>CMR 2017 and as per</i> safety regulations mandated by Director General of Mines Safety (DGMS).</p> <p>G) A maximum peak particle velocity of 0.3 mm/sec, mining operation is planned upto a distance of 100 m from the village boundary with a maximum charge per round 2 te, maximum charge per delay 200 kg and maximum depth of hole 12 m.</p> <p>H) Further, in view of the densely populated habitation of Panuria and Gourangdih B, Ripper Dozer will be used wherever necessary in combination with loader and dumpers for excavation of OB and it's transportation to the dump.</p>
ix.	<p><i>Comprehensive Plan for supplying water to the nearby habitation in villages/settlements (zone of influence) as pointed out in the public hearing.</i></p>	<p>As discussed earlier in ADS point no. iv, the project will have surplus water in its surface reservoir which can be utilised for domestic purposes after treatment and for agriculture by nearby farmers</p> <p>WBMDTCL is committed to ensure potable water supply in the villages falling within the zone of influence through following proposals</p> <p>A) It may be noted that Piped Water Supply System (PWSS) by PHED already exists in Gourangdih Bazar, Hakim Para, Hat-tola, Panuria Gram, Chata Danga, which are partly or fully within the radius of influence. The water source of PHED is Ajay river. WBMDTCL will consult the Public Health Engineering Department, GoWB for supply of water from its surface reservoir to the PWSS, after treatment.</p> <p>B) Supply of water to nearby villages/ settlements other than Gourangdih B through piped water supply system in consultation with PHED</p> <p>C) Provision to be kept for construction and maintenance of deep tubewells, if required at later stage.</p> <p>D) Company will also make arrangement for supply of water to nearby village pond during non-monsoon period. So that water from the pond can also be used by farmers for irrigation.</p> <p>E) Directly supply to farmers through pipeline/ tankers for irrigation on a pre-determined rotation system. For supplying water to nearby villages/ settlements within 1 km periphery (Panuria, Chotkara, Baradang, Alipur, Kanta Pahari, Daskiari, Aliganja and Jamgram), other than Gourangdih-B, water demand has been given in table and submitted. After supplying water to Gourangdih B block as discussed earlier in ADS point iv, the proposed surface reservoir will have $(11232.87-2336.4)= 8896.47$ m³/ day surplus water. Using this balance surplus water the domestic water demand in the villages lying within 1 km radius of the project can easily be met. However, it may be noted that the domestic water is already being supplied to the tune of 560 KLD in some of the settlements of Panuria under surface water based PWSS scheme by PHED, GoWB. PHED is sourcing water from Ajay river. Remaining settlements will also get covered under the same scheme soon. WBPDCCL will consult PHED, GoWB for supplying its mine sump water brought to its surface reservoir, after treatment. Thus, it is expected in due course mine will have $8896.47-7896.8 = 999.67$, say, 1000 KLD for supplying to the</p>

S. No.	ADS Point	Reply/Response of PP
		near by ponds and fields for irrigation uses.
x.	<i>Propose the measures to be taken for reduction of air pollution by transportation of OB dump.</i>	<p>Various mitigation measures have been planned to be implemented for reduction of pollution from transportation of OB. These are as follows:</p> <ul style="list-style-type: none"> ➤ Maintenance of HEMM, dumpers/ tippers used in mine and must have Pollution Under Control Certificate (PUC). ➤ Wetting the OB prior to loading. ➤ Dust suppression system like water sprinkling at working faces, haul roads, dumps, loading and unloading points, haul roads to minimize fugitive dust. ➤ Paved haul road shall be used as much as possible. ➤ Provision of automatic nozzle mounted fixed sprinklers having a trajectory of 50 m on haul road at a interval of 50 m. Total 100 nos. of such automatic sprinklers will be installed. ➤ Mobile water sprinkling on other portions of the haul road within mine (where automatic sprinklers not installed), two to four times a day according to season. ➤ Overloading of dumpers will not be permitted ➤ Plantation in peripheral greenbelt (7.5m), in safety zone (45 m wide) between Panuria & Gourangdih village and the quarries (A & C) (45 m) along the sides of haul roads (outside quarry area or working dumps) and other vacant areas. ➤ Dust mask will be provided to the workers, engaged at dust generating sources such as excavation, loading etc. ➤ Reduction in vehicular emissions and airborne tyre dust by increasing size of dumpers and reducing trips
xi.	<i>Project Proponent should submit approved R&R plan from District Collector</i>	<p>The Government of West Bengal, in its 60th Cabinet Meeting held on 16.08.2019 has accorded approval, <i>inter alia</i>, for finalisation of the Compensation towards Rehabilitation & Resettlement through the District Level Land Purchase Committee (DLLPC) headed by the District Magistrate.</p> <p>WBMDTCL has prepared the draft R&R Policy through the Government Approved Transaction Advisor M/s KPMG Advisory Services after detailed Socio-Economic Survey. The said R&R Policy has been submitted.</p> <p>The R&R Action Plan fixing the compensation payable to PAPs will be finalised by the DLLPC within the framework of the R&R Policy.</p>
xii.	<i>Certification of PCCF about absence of Schedule-I species in the project and buffer area. Further certifying that no wildlife/National Sanctuary in 10 km project area</i>	<p>There are no National parks, Wildlife Sanctuary, Biospheres reserves or migratory corridor of any Schedule-I species within 10 km radius. No endangered or endemic species of plant or animal is present in the study area as per the recommendation in Memo No. 2277/8-25 dated 31.10.2018 issued by the DFO, Durgapur Division has been submitted) and also as per the list authenticated by Range Forest Officer, Asansol (T) Range. List is also submitted. For certification of PCCF in this regard,</p>

S. No.	ADS Point	Reply/Response of PP
		WBMDTCL has written a application vide WBMDTCL's letter no. MDTC/PM-5/144/ENV/742 dated 25.11.2020 to PCCF, Directorate of Forest, Government of west Bengal. The application letter has been submitted. This may take some time. As soon as certificate is issued the same shall be submitted to MoEF&CC.
xiii.	<i>Details of ecological restoration as per Terms of reference shall be submitted.</i>	<p>Details of ecological restoration as per Terms of reference has been covered in section 4.11 and table 4.14 and 4.22 in Chapter 4 of the EIA report of Gourangdih ABC Coal Mine. Since the land degradation in this mine will be partly in the form of excavated void and partly in the form of external dumps, the reclamation strategy includes a programme for the reclamation of the disturbed land. The stage wise land use and reclamation has been prepared from the land use tables in approved Revised Mining Plan and Min Closure Plan the same are presented and submitted. The post mine closure land use of project area shows that all the disturbed areas will be reclaimed before abandoning the mine including two voids of 80.77 ha having depth 120 m in Gourangdih-A and 210 m in Gourangdih-C, left at the end of the mining operations.</p> <p>For management of ecology following provisions has been made:</p> <p>1) Green Belt & other plantation: Establishment of greenbelt and plantation along various facilities and periphery has been planned. The widths of the belt will be 7.5 m all along the boundary. Plantation on 45 m safety zone between Quarry A and settlements of Panuria and Gourandih as well as between Quarry C and these settlements shall be carried out. Plantation shall also be carried out along roadside and around administrative buildings, facilities and in vacant undisturbed areas as well.</p> <p>2. Reclamation plantation: Once the simultaneous backfilling of mine void commences from 5th year, the reclamation process over the backfilled area will also commence. Reclamation of external OB dumps as well as top soil dump will also eventually take place. Total afforested area will be 304.2 ha comprising 62.97 ha external OB dump, 13.73 top soil dump, 213.27 ha excavation, 4 ha roads and 10.23 ha built up area.</p> <p>3. Plantation program during mining: A plantation program over life of mine has been planned in a phase wise manner. The plantation shall be started from first year of mining. About twenty seven thousand trees shall be planted considering density of plantation 2500 trees/ ha. The total plantation till the end of life of mine, shall be done on 226.84 ha, out of which 132.5 ha will be backfilled area, 62.97 ha. external dump area, 7.52 ha greenbelt and 23.85 ha will be others i.e. undisturbed area. The stage wise cumulative plantation has been submitted..</p> <p>4. Selection of plant species: For greenbelt, other plantations, etc. the species recommended based of the survey are Kadam (<i>Anthocephalus cadamba</i>), Neem (<i>Azadirachta indica</i>), Jamun (<i>Syzygium cumini</i>), Sal (<i>Shorea robusta</i>), Mango (<i>Mangifera indica</i>), Asan (<i>Terminalia tomentosa</i>), Sonajhuri (<i>Acasia auriculiformis</i>), Arjun (<i>Terminalia arjuna</i>) etc.</p>
	ADS raised date 21.01.2021	Submitted on 11.03.2022

S. No.	ADS Point	Reply/Response of PP
i	<p>PP shall review the Mine Plan and Mine Closure Plan to optimize external and Internal dumping schedule, and avoid its proximity to any habitation (2nd external OB dump). The PP shall ensure faster reclamation of land disturbed by both mining and dumping on a concurrent basis as soon as the external and internal dumping operation of an area gets over. It was observed, even in the existing mine plan that reclamation of land can start much quicker than what has been envisaged to begin only at the end of the mine life. Reclamation must include regradation of land on a concurrent basis before plantation or any other land use such as rain harvesting etc.</p>	<p>The Mine Plan and Mine Closure Plan has been reviewed to optimize external and Internal dumping schedule and details of previous planning has been submitted It can be seen that the optimisation measures has resulted in</p> <ol style="list-style-type: none"> (1) The revised quantity of rehandled Overburden comes to about 10.14 Mcum with a substantial reduction of more than 54% on the total quantum. (2) Replacement of external OB dump (A2) in Gourangdih A with temporary top soil dump, CHP & Workshop to reduce its impact on the habitation of Gourandih & Panuria. (3) The height of external OB dump located in Northern part of Quarry-C has been reduced from about 45 m to 5 m and of OB dump located in Northeast of Quarry-C from about 80 m to 30 m. (4) The rehandling of external dump and its backfilling that had been planned at the closure period (27th-30th year) in previous mine plan, has now been planned for rehandling and backfilling between 8th to 12th years of operation, concurrent to operation. <p>Thus, it will make faster reclamation possible for both the external dump area after rehandling and the backfilled area. The details of the reclamation planning after optimisation of dumping along with comparison of post closure land use details has been submitted.</p> <p>Backfilling shall be carried out till 141-172.46 mRL over an area of 201.99 ha, which will match the ground/ surface level. It will be graded and out of 201.99 ha, plantation shall be undertaken over 51.3 ha at the rate of 2500 tree/ ha.</p> <p>The changes in mining plan have been carried out and intimated to the MoC as per the MOC Guidelines No. F.No.34011/28/2019-CPAM dated 29.05.2020..</p>
ii	<p>PP shall bring clarity on the area of coal block since it is 370 ha as per Mine Plan and as per PP, area of project is 356.57 ha. Also, forest land is 92.53 ha in approved Mine Plan however PP has applied for 109.459 ha.</p>	<p>Details of Block Area & ML (Project) area in Hectare has been submitted in table of attachment 1.</p> <p>The ML Grant Orders No. 143-CI/O/MIN/GEN-COL/03/2016 dated 23.02.2018 for 213.27 ha has been obtained and an application for an additional 143.3 Ha mine Lease had been made vide WBMDTCL's letter no. MDTC/PM-5/144 (ML-ADDL)/ 62 dated 18.01.2020 to the Government of West Bengal, which is under process. Total applied ML is 356.57 ha.</p> <p>After the allotment of the Block to WBMDTCL, reconciliation of the land schedule was undertaken. The change in forest area from 92.53 ha to 109.459 ha is one of the result of reconciliation. Thus, WBMDTCL is proceeding with the updated land use details and accordingly forest clearance application has been submitted for 109.459.</p> <p>We further submit that as per the MoC Guidelines No. F.No.34011/28/2019-CPAM dated 29.05.2020, clause no. 1.7, the MoC permits for submission of "tentative" land uses since such reconciliation and acquisition activities lead to several changes over time till grant of lease. Further as per clause 1.3 (B) of the guideline, MoC empowers proponent to make minor modification with the approval of the respective company board. These minor changes, inter alia, includes changes in land type within the leased area. Thus, the mining plan does not require revision for this purpose.</p>

S. No.	ADS Point	Reply/Response of PP
iii	PP should submit budget provision/estimate for developing rain water harvesting structures in (i) mine area, (ii) buildings within the mine lease, (iii) Public buildings in Gourangdih B & nearby villages (buffer zone).	The estimate for construction of rain water harvesting structures in (i) mine area, (ii) buildings within the mine lease, (iii) Public buildings in Gourangdih B & nearby villages (buffer zone) for the structures presented vide our letter dated 22.12.2020, has been submitted.
iv	PP should develop/adopt pond, lake & reservoir and submit the details of distribution of potable water supply in the villages and for agricultural purpose falling within the zone of influence and plan of distribution of water to the local people to the tune 560 KLD through PHED, Govt. of WB.	<p>PP shall adopt the following ponds:</p> <ol style="list-style-type: none"> I. In western side of village, along Gourangdih-Rupnarayanpur road II. North eastern side of the village, along Gourangdih-Aliganj road <p>The activities that shall be carried out as part of adoption activities shall be :</p> <ol style="list-style-type: none"> 1. Filling the pond in dry season 2. Construction of separate bathing ghats for men and women, expense of which shall be met through the CSR budget of the company 3. Desilting on need basis 4. Plantation of fruit bearing trees, around 80 nos. along the periphery of the pond. <p>Piped Water Supply System (PWSS) by PHED already exists in Gourangdih Bazar, Hakim Para, Hat-tola, Panuria Gram, Chata Danga, which are partly or fully within the radius of influence. The water source of PHED is Ajay river. The water is brought to overhead tank located in northern part of Gourangdih wherefrom it is distributed further.</p> <p>WBMDTCL has interacted with PHED to take & supply of mine water after treatment to the population in influence zone of the project. The proposal has been accepted in the District Water Sanitary Mission (DWSM) meeting held on 26.10.2021. The water will be acceptable if it is potable after testing of bacteriological & chemical parameters. It was also stated by PHE in the meeting that</p> <p><i>PHED already provide drinking water to the surrounding coal mine area. If water table lower down in surrounding villages due to mining activity in future, drinking water supply through PHE pipeline will not be hampered as water source is river Ajay</i>".(Letter of Executive Engineer, R.C.F.A. Div-I, PHED and minutes of meeting area has been submitted.Thus, provision has been made that the water from the mine shall be pumped after suitable treatment (pressure sand filter system) to the water supply scheme of PHED through a pipeline from the mine's surface reservoirs to the PHED's tank. The route of the pipeline (in blue colour) has been submitted.A lump amount of Rs. 10 Lakh capital investment has been considered for this purpose.</p> <p>In order to supply water for irrigation, pipelines will be laid to the surface water ponds in the nearby villages of Panuria, Chotkara, Baradang, Aliganj, Kanta Pahari, Daskiari and Gourandih. The route of the pipeline has been submitted.. The water supply volumes to be supplied are proposed as follows at peak mine water discharge has been submitted.</p> <p>The estimated cost of the laying of pipeline till the ponds have been anticipated as Rs. 89.12 Lakhs based on rates in "Schedule</p>

S. No.	ADS Point	Reply/Response of PP
		and guidelines for preparation of piped water supply schemes” of PHED, GoWB which includes the cost of laying pipeline system. This shall be carried out over a period of 4-5 years in phase wise manner.
v	PP should provide consequential impact of OB dump by reducing the fleet size after change in rearranging the areas and schedule.	<p>Consequential impact of OB dump anticipated are as follows:</p> <ol style="list-style-type: none"> 1. The area to be degraded by external dumping will reduce by at least 33% as area under OB & Top Soil dump reduced from 76.7 ha to 51.13 ha. 2. The volume of OB to be transported to the external dump has reduced by 66.9% (quantity reduced from 50.19 to 14.61 Mcum) 3. The revised quantity of rehandled Overburden comes to about 10.14 Mcum with a substantial reduction of more than 54% on the total quantum. 4. The number of operational dumpers will reduce by 13 nos. (23.21%) <p>There will be overall reduction in emission due to optimisation of fleet in consequence to reduction in external dumping.</p>
vi	Mechanism or Action proposed for controlling any cracks in building located in B Block since PP has accepted that there are chances of crack in building due to blasting in Public Hearing.	<p>Preventive action :</p> <ul style="list-style-type: none"> ➤ Controlled blasting techniques including muffled blasting (near habitation) will be adopted. ➤ Total quantity of explosives to be detonated at a time will be regulated so that ground vibration, are kept within the stipulated limit. ➤ CMPDIL/CIMFR would be engaged for conducting thorough scientific study and prescribe the optimum blasting design for the mine. The recommendations of the report shall be strictly followed during blasting. Each round of blasting would be conducted under the supervision of an Assistant Manager as per statute and monitored by senior technical officers. ➤ Precise and accurate timing delay, optimum blast design, etc. will be maintained to reduce the Fly rock and dust emission. ➤ Blasting will be done within 500 m zone as per CMR, 2017 but beyond 100 m from the village, dwellings, surface structures, road etc. after obtaining approvals from the Chief Inspector. Other safety provisions mining operation shall be carried out/ implemented as per <i>CMR 2017 and as per safety regulations</i> mandated by Director General of Mines Safety (DGMS). ➤ a maximum peak particle velocity of 0.3 mm/sec, mining operation is planned in the approved mining plan upto a distance of 100 m from the village boundary with a maximum charge per round 2 te, maximum charge per delay 200 kg and maximum depth of hole 12 m. ➤ Further, in view of the densely populated habitation of Panuria and Gourangdih B, Ripper Dozer will be used wherever necessary in combination with loader and dumpers for excavation of OB and it’s transportation to the dump. <p>Corrective action :</p> <p>A Grievance Redressal Committee will be formed under the chairmanship of the Block Development Officer, Barabani. Aggrieved persons, if any, can easily approach the GRC for</p>

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		redressal and admissible compensation.						
vii	Since, two mine quarries are at certain distance, PP shall clarify the technique adopted/method adopted for Air Quality Impact 412 modeling.	There are two proposed quarries i.e. Block-A and Block-C and both the quarries have individual production schedule. Since, both the block are separated by a habitation i.e. Block-B (not to be mined), modeling has been done considering both the blocks as separate entities and cumulative incremental GLCs of air pollutant have been calculated. In view of the revised dumping schedule and rehandling (in response to ADS point no. i), the peak material handling is now occurring in the 9 th year, for which the modelling has been carried out afresh and detailed has been submitted.						
(viii)	PP should submit year wise breakup and timeline with specific activity based Action Plan regarding the queries raised during the public hearing.	<p>During public hearing ten persons spoke. The points that emerged uniquely or repeatedly were related to following points:</p> <ol style="list-style-type: none"> 1. Generation of employment for local youth 2. Management measures for impact due to water table decline 3. Improvement of road conditions 4. Protective measures for management of impact due to blasting 5. Overall pollution mitigation measures as well as air pollution management measures 6. R&R plan details and compensation measures. <p>Year wise breakup and timeline with specific activity based Action Plan regarding the points raised (from sl. 1 to 4 above) during the public hearing has been submitted. The annexure also contains the issue/ demand raised by the individual speaker and the action proposed by PP to meet the demand.</p> <p>Against point 5, the activities required for control of pollution (air, water, noise, etc.) and management of solid waste, green belt, reclamation, etc. were already given in a separate “Environment Management Plan” budget, which is already given in the EIA report for the life of mine. The same has been further detailed with the year wise expenditure and activities has been submitted.</p> <p>The R&R Plan and its budget has been detailed in subsequent reply.</p>						
ix	PP should submit the details the breakup of R&R budget and should submit the details of families having land only and families having land and house within the ML.	<p>Details of families having land only and families having land and house within the ML are as below:</p> <table border="1"> <thead> <tr> <th>PAF Category</th> <th>Numbers*</th> </tr> </thead> <tbody> <tr> <td>PAFs having land only</td> <td>1680</td> </tr> <tr> <td>PAFs having land and house</td> <td>629</td> </tr> </tbody> </table> <p><i>*As per SIA study</i></p> <p>Based on the R&R policy of WBMDTCL, the following R&R cost may be incurred. It may however be noted that the following financial costs are tentative in nature and subject to change based on actual R&R activities undertaken at the time of rehabilitation and resettlement of the PAFs. has been submitted.</p>	PAF Category	Numbers*	PAFs having land only	1680	PAFs having land and house	629
PAF Category	Numbers*							
PAFs having land only	1680							
PAFs having land and house	629							
(x)	PP shall submit the detailed plan of action for numbers and location of air pollution monitoring stations, noise monitoring and	The detailed plan of action for numbers and location of air pollution monitoring stations, noise monitoring and vibration monitoring all along the A & C quarries towards B block for						

S. No.	ADS Point	Reply/Response of PP
	vibration monitoring (based on blast vibration study) all along the A & C quarries towards B block for regular monitoring during mining operations.	regular monitoring during mining operations has been submitted.
(xi)	PP should present the scheme of plantation along the haul roads and toward block B to reduce air pollution with emphasis on local and native species and the species which are tolerant to pollution.	Scheme of plantation along the permanent haul roads/ coal transportation roads and toward block B to reduce air pollution with emphasis on local and native species and the species which are tolerant to pollution has been submitted,
(xii)	PP should submit certification of PCCF about absence of Schedule-I species in the project and buffer area. Further certifying that no wildlife/National Sanctuary in 10 km project area.	WBMDTCL has received a certificate of PCCF, Directorate of Forest, Government of west Bengal, vide letter no. 3167/L</2M-1334/17 dated 27.08.2021 certifying that there is no direct evidence of Schedule-I species and there is no Wildlife Sanctuary/ National Park within 10 km of the project site. The certificate has been submitted.
	ADS raised date 19.04.2022	Submitted on 03.09.2024
i	PP shall furnish the copy of Letter of Intent of State Government of the area other than the mine lease or allocated coal block to be acquired by PP	<p>The total project area is 356.6 ha. The Government of West Bengal Department of Industry, Commerce and Enterprises, Mines Branch had issued a Grant Order vide G.O. No. 143-CL/O/MIN/GEN- COL/03/2016 dated 23.02.2018 for an area of 213.3 ha and extended via letters dated 12.11.202 and 05.05.2022. (copy of same has been submitted).</p> <p>The total project area consists of mining area, safety zone, OB dumping area, areas for setting up mining infrastructure, establishment of rehabilitation colony etc. Hence, WBMDTCL applied for Grant Order of additional 143.3 Ha, which is earmarked for OB dumping, to be included in the mining lease hold area following MMDR Amendment Act, 2016.</p> <p>Thereafter Grant Order No. No.591-CI/O/ MIN/GEN-COL/03/2016 dated 29.09.2022 has been received for 143.3 ha. (copy of same has been submitted)</p> <p>The Grant Order dated 29.09.2022 stipulates, <i>inter alia</i>, that on submission of all statutory clearances and compliance of all terms and conditions, a single mining lease would be granted on execution of an indenture of mining lease over the total area of (213.3+143.3) or 356.6 Ha, merging both grant orders.</p>
ii	PP shall provide the acknowledgment and approval of Wildlife Conservation Plan for Schedule-I species and breakup of the proposed activities with budgetary provision submitted to the DFO	<p>The Wildlife Conservation Plan has been approved by PCCF (Wildlife), West Bengal vide letter no. 3362/WL/ 2M-33(Pt-II)/2021 dated 23.11.2022 (copy of approval letter has been submitted.)</p> <p>The break-up of the proposed activities with budgetary provision approved by PCCF (Wildlife), West Bengal for the Schedule I & II species (Indian Rock Python, Sloth Bear, Jungle cat, Jackal, Indian fox, Langur, Red jungle fowl, Spectacled cobra, Rat snake, Indian chameleon, Russell’s viper) as per Wildlife Protection Act</p>

S. No.	ADS Point	Reply/Response of PP
		1972 amended upto 2019 has been submitted.
iii	PP shall provide the concurrence letter from Coal Controller Organization regarding revised Mine Plan and Mine closure plan as per observations of EAC during earlier and current meeting.	As per observations of EAC during earlier and current meeting, Revised Mining Plan and Mine Closure plan has been prepared and the approval received from Ministry of Coal vide letter No. WBCPA/APP00239/2023 dated 09.10.2023 (copy of approval letter given in Annexure 4). Due to file size restriction entire mining plan cannot be uploaded but its text and relevant plates has been submitted.
iv	PP shall firm up maximum 2 route nearest to railway siding for linkage and based on traffic impact assessment, EMP measures shall be proposed after deciding and fixing the route of transportation from mine to railway siding.	<p>There were 4 routes and railway sidings proposed at the time of presentation to EAC. From those, two railway sidings (1) Barabani (ICML) and (2) Charanpur have been firm up. The routes has been submitted.</p> <p>The route from the mine to the railway siding has been studied and the following are the major findings has been already submitted.</p> <p>The EMP measures proposed are as follows:</p> <ul style="list-style-type: none"> • Optimum weight to be carried by the truck and over loading prohibited • Periodic maintenance of the truck as per manufacturers specifications for best fuel efficiency • The transportation vehicles will under go for “Pollution Under Control (PUC)” checkups on every six months to obtain PUC certificate. • Water sprinkling at load points and covering of trucks with tarpaulin will be ensured • Water sprinkling on roads within project area • Training to drivers and periodic awareness drives • Safety week organization to sensitize the workers and drivers. • Carry out plantation along the routes for dust and noise control on either side of road, where ever possible • Various facilities will be provisioned for the trucks and truck drivers as follows: <ul style="list-style-type: none"> ▪ Designated parking area prior to loading and also after loading ▪ Designated space for loading ▪ Weigh bridges ▪ Rest rooms for drivers ▪ Canteen for all employees, which can also be availed by drivers
v	PP shall provide the detailed plan of plantation on the area desired by EAC and peripheral plantation of 50 mts along the mine (quarry A and C).	<p>The revised Plantation Plan has been prepared and has submitted.. A peripheral plantation of average 50 m has been proposed in the revised mining plan along quarries and dumps as follows:</p> <p>1) Along the eastern boundary of Pit-A, which faces the</p>

S. No.	ADS Point	Reply/Response of PP
		<p>settlement of Gourangdih.</p> <p>2) Western boundary of Pit-C, which faces the settlement of Gourangdih.</p> <p>3) Southern, South Eastern and Eastern boundary of Pit-C, which faces the settlement of Jamgram and Kantapahari</p> <p>4) Western, Northern and Eastern sides of north western surface dump facing hamlets of Panuriya and Mehuldhura</p> <p>The plantation plan are given in table and has been submitted.</p> <ul style="list-style-type: none"> ● Native and fast growing species will be chosen in consultation with Forest Department. Tentative proposed species are <i>Acacia catechu</i>, <i>Aegle marmelos</i>, <i>Madhuca longifolia</i>, <i>Azadirachta indica</i>, <i>Butea monosperma</i>, <i>Dalbergia sisoo</i>, <i>Ficus benghalensis</i>, <i>Ficus religiosa</i>, <i>Mangifera indica</i>, <i>Pisidium guava</i>, <i>Syzygium cumini</i>, <i>Tamarindus indica</i>, <i>Tectona Grandis</i>, <i>Terminalia tomentosa</i>, <i>Madhuca indica</i>, <i>Terminalia arjuna</i>, etc. ● An initial budget of Rs. 1.25 lakhs/ ha i.e. Rs. 154.16 lakhs for duration of plantation program has been considered for procuring, transferring and planting the plants excluding the manpower and equipment cost for levelling, digging holes and other preparatory activities since the manpower and equipment shall be sourced inhouse <p>Maintenance cost shall be part of the EMP cost and considered for gap plantation, gardeners salary, manure, protection barriers, weedicide, insecticide, watering system/ watering vehicle, etc.</p>
	ADS raised date 06.09.2024	Submitted on 03.12.2024
i	It is observed that the form is submitted by Mr. Krishnendu Sadhukhan while authorization letter is for Sri A P Chatterjee. Please clarify.	West Bengal Mineral Development and Trading Corporation Limited, being a State Government Undertaking, is headed by members of the Civil Services who are subject to periodic transfers. At the time of application submission in 2017, the authorised signatory was Mr. Krishnendu Sadhukhan, serving as the Managing Director. The current Chairman-and-Managing Director is Sri. P. Mohangandhi, IAS and the authorised signatory is Sri. Arun Acharya, General Manager (Projects).
ii	The kml file uploaded is not opening its shows error “Parse error: improper format”. Kindly provide the corrected Kml file.	The issue pertains to the Parivesh portal. A complaint was raised and subsequently resolved by NIC as per response received in Complaint Management System on Parivesh Portal.
iii	Ground water permission from State Govt dated 09.12.2019 was valid for 2 years. Valid approval for the same may be provided.	<ul style="list-style-type: none"> ● The company has applied for renewal of the water withdrawal permission. ● Application has been submitted for renewal. ● The mine is expected to become operational by December 2025, and we undertake to obtain the renewal permission before starting operations
iv	The project involves total 109.456 Ha forestland (96.440 within mine lease area and 13.019 Ha outside	The fresh application for Forest Clearance has been submitted through proposal number FP/WB/MIN/QRY/452568/2023 on

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	mine lease area). The Forest Clearance application No. FP/WB/MIN/26869/2017 has been rejected vide letter dated 09.11.2023. Please provide the valid FC application no. and its present status.	parivesh 2.0. Proposal timeline has been submitted for reference.
v	In the mine plan, it is observed that there is no checklist attached. Kindly submit the complete mine plan with all the annexures and plates.	The mining plan PDF is auto-generated through the Ministry of Coal's single window Clearance portal. The checklist page appears blank in the auto generated document.
vi	In the ADS reply, PP has submitted the copy of approval for Wildlife Conservation Plan dated 23.11.2022 however, the Copy of Wildlife Conservation Plan may also be submitted.	Copy of Wildlife Conservation Plan has been uploaded
vii	Kindly make sure that the Form is submitted along with all the required documents and the factual data mentioned in Form, Mine plan and EIA/EMP report are in the same order and do not mismatch. All the documents provided by your good self must be in legible form. Also, along with the corrections mentioned above, please ensure the completeness of the Form and all the documents.	The Form and all supporting documents have been submitted in compliance with the specified requirements. Consistency and completeness have been ensured.

20.20.17: Written Submission: PP submitted the following information during the meeting:

1. Submission of revised environmental management plan budget for transportation of coal from mine to Barabani and Charanpur Railway Siding.

Reply of PP: The estimated EMP budget has been revised activity wise and submitted.

2. Submission of latest air quality data for the proposed transportation route.

Reply of PP: The air quality data has been monitored along the villages on the transportation route between 25.01.2025 to 27.01.2025.

Comparison of Air quality of previously done baseline data (Dec 2017-Feb 2018 2021) with six months routine environment monitoring data (April-September 2024).

(unit in $\mu\text{g}/\text{m}^3$)

		Dec'17- Feb'18		Apr'24 to Sep'24		Coal Mine standards 2000
		Min	Max	Min	Max	
Core Zone	PM ₁₀	51.8	69.5	60.7	245.8	250
	PM _{2.5}	28.4	39.9	18.3	68.4	---

	SO _x	7.8	11.6	BDL*	BDL	120
	NO _x	9.9	13.4	19	34	120

*SO₂ BDL is <10 µg/m³

(unit in µg/m³)

		Dec'17-Feb'18		Apr'24 to Sep'24 (residential areas)		NAAQS 2009	Apr'24 to Sep'24 (mine areas)		Coal Mine standards 2000
		Min	Max	Min	Max		Min	Max	
Buffer Zone	PM ₁₀	45.9	78.0	54.3	194.6	100	123.8	316.4	250
	PM _{2.5}	24.6	45.3	16.3	56.2	60	37.2	74.9	---
	SO _x	6.3	12.1	BDL*	BDL	80	BDL*	BDL	120
	NO _x	8.3	16.7	18	30	80	21	26	120

*SO₂ BDL is <10 µg/m³

3. Submission of Public hearing action plan and budget as per MoEF&CC OM dated 30.09.2020.

Reply of PP: Public hearing action plan and budget as per MoEF&CC OM dated 30.09.2020 is submitted and the same is furnished above.

Observation and deliberation of the EAC:

20.20.18: Committee after deliberations noted the following:

1. The instant proposal is a Greenfield project for grant of EC to Gourangdih ABC Opencast Coal Mining Project (area 356.575 Ha having capacity 2.5 MTPA) of M/s West Bengal Mineral Development and Trading Corporation Limited, located at Villages: Panuria, Kantapahari, Jamgram, Shibdhawra, Banddhawra, Lalbandh, Gourangdih & Bhuiapara; District.
2. ToR for the project was obtained on 29.09.2017.
3. The said project has been earlier appraised in 2nd meeting of EAC (Coal) held on 28-29th September 2020. It was thereafter reconsidered in 6th EAC held on 13th January 2021 and 28th EAC held on 1st April 2022. Proposal was deferred for want of additional information. Now the proposal was again placed for appraisal in the 20th EAC (coal) meeting held on 20th -23rd January 2025.
4. Ministry of Coal allotted the said block to the proponent vide vesting order no. 103/6/2016/NA, dated 29.09.2016. Initially, the Mining Plan and Mine Closure Plan was approved by Ministry of Coal, Government of India vide letter No. 13016/77/2006-CA-I (Part) on 28-06-2011. Thereafter, Mining Plan and Mine Closure Plan (first modification) was approved on 09.10.2023 vide letter no. WBCPA/APP00239/2023 after making the modification in the mine plan as per the observations of the EAC.

5. Total geological reserves as reported are 129.15 MT, out of which mineable reserves are 75.92 MT, and extractable reserves are 69.09 MT. Percentage of extraction will be 53.496 %. Life of mine is 27 years.
6. There are total 8 nos. of seams and thickness of Seams is B-VII-1.46 m, B-VI-8.85 m, B-V- 9.89 m, B-IV- 7.92 m, B-III(T)- 4.92 m, B-III(B)-7.33 m, B-II- 25.07 m, B-I- 2.52 m.
7. Project does not fall in the Critically Polluted Area (CPA)/ Severely Polluted Area (SPA), as per CEPI Assessment 2018.
8. It was apprised by the Member Secretary that instant proposal involves 109.459 ha of forest land for which requisite Stage I FC under the provisions of Van (Sanrakshan Evam Samvardhan) Adhiniyam, 1980 is yet to be obtained. Further, apprised that as per OM dated 09/09/2011, after the EAC has recommended the project for environmental clearance, it would be processed on file for obtaining decision of the Competent Authority for grant of environmental clearance. In the cases, where the Competent Authority approves the proposal for 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.
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.
10. The Wildlife Conservation Plan has been approved by PCCF (Wildlife), West Bengal vide letter no. 3362/WL/ 2M-33(Pt-II)/2021 dated 23.11.2022 for the Schedule I & II species (Indian Rock Python, Sloth Bear, Jungle cat, Jackal, Indian fox, Langur, Red jungle fowl, Spectacled cobra, Rat snake, Indian chameleon, Russell's viper) for budget of Rs. 356.26 lakhs for 27 years.
11. Proposal involves diversion of two existing roads. One is Asansol-Gourangdih road connecting Runakuraghat, passes over the eastern flank of Gourangidh-C quarry. This road is proposed to be diverted towards further east of the quarry. And another is Rupnarayanpur-Gourangdih road, passes over western portion of the Quarry-A, which is proposed to be diverted towards further west of the quarry. Application for obtaining permission for road diversion has been submitted by the proponent. Committee opined that no diversion shall be carried out without obtaining the necessary permission from the competent authority.

No water body is proposed to be diverted and there is no presence of ASI protected archaeological site in close proximity to the ML area.
12. Water requirement for the said project is 984 KLD. NoC for the same has been accorded from Geologist & Member Secretary, SWID, Paschim Bardhaman via Letter no. P2205010022320000001THE dated 09.12.2019. Renewal application submitted on 18.09.2024. The mine is expected to become operational by December 2025. PP submitted that necessary renewal will be obtained before commencing with the mine operations.
13. Total capital cost of the project as submitted by the proponent is Rs. 1011 crores.
14. Committee deliberated on the EMP cost submitted by the proponent and opined that the same should be modified by introducing the protection measures for coal transportation road and the railway siding. Proponent submitted the additional measures

with the additional EMP cost for the same. Now, the revised capital cost for environmental protection measures is Rs. 22.07 Crores and the annual recurring cost towards the environmental protection measures is Rs 10.79 Crores.

15. PP collected the baseline data from 01.12.2017 to 28.02.2018. Committee deliberated on the same and asked the PP to submit the updated data from the secondary sources. Proponent submitted the same. Committee observed that there is no significant change in the monitoring parameters of the previous baseline data submitted by the proponent and the data obtained from the secondary sources.
16. Committee deliberated on the Public Hearing as well as the action plan submitted by the proponent to address the issues raised during public hearing. Committee opined that the same shall be submitted as per the Ministry's OM dated 30.09.2020. Proponent submitted the same and the Committee found it to be satisfactory.
17. Committee deliberated on the plantation plan submitted by the proponent and observed that the proposed greenbelt will be developed in 10.0 ha which is about 2.8% of the total project 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. Total no. of 25000 saplings will be planted and nurtured in 7.52 hectares in 1 years. In addition to this, plantation shall be carried out in External OB Dump (47.069 ha), Top Soil Dump (4.07 ha), backfill area [43.96 non forest +109.50 (returned to forest after closure) = 153.46 ha], reclaimed roads (7.93 ha) and safety zone (10.03 ha).
18. Committee deliberated on the method of transportation of coal proposed by the proponent and observed that, major transportation is proposed through road to consumers. Only where the consumers are connected through railway, the coal will be transported to railway siding through road and further by rail to the consumers. Committee deliberated on the coal transportation road and observed that PP proposed to firm up 2 route nearest to railway siding for linkage and based on traffic impact assessment, EMP measures shall be proposed after deciding and fixing the route of transportation from mine to railway siding.

Committee deliberated and observed that the two routes firmed up are for Barbani railway siding and Charanpur railway siding. Committee opined that since, Charanpur railway siding is near the project area with less habitation and PWD road and no state highway, the same should be used for transportation of coal through rail.
19. Committee opined that no OB shall be dumped on the forestland.
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 Evam Samvardhan) Adhiniyam, Wildlife Protection Act, MMDR Act, Factories Act.
21. 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.
22. The EAC also deliberated on the ADS reply and written submissions of the project proponent and found it satisfactory.

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

A. Specific Conditions:

- i. Project proponent shall submit the Stage –I Forest Clearance (FC) for 109.459 Ha of forest land under the provisions of Van (Sanrakshan Evam Samvardhan) Adhiniyam, 1980 prior to grant of Environment Clearance.
- ii. Project Affected Families (PAFs) in seven villages to be monetarily compensated for loss of dwelling unit are 629, PAFs to be monetarily compensated for loss of land are 377, number of PAFs belonging to either Scheduled Caste or Scheduled Tribe category are 339. The affected families shall be rehabilitated as per R & R plan to be 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.
- iii. The project proponent shall take all precautionary measures during mining operations for the conservation and protection of Schedule I/ endangered fauna, if any, spotted in the study area. Wildlife conservation plan as approved by the competent authority shall be implemented. PP shall deposit the approved amount of Rs. 356.26 lakhs as proposed for wildlife conservation plan to the Govt. of West Bengal, Forest & Environment Department.
- iv. There are two existing roads, which will be diverted. One is Asansol-Gourangdih road connecting Runakuraghat, passes over the eastern flank of Gourangidh-C quarry and another Road is Rupnarayanpur-Gourangdih road, passes over Western portion of the Quarry-A. Project proponent shall take requisite permission from the concerned competent authority of Govt. of West Bengal before diversion of roads and Compliance status in this regard shall be submitted to the concerned Regional Office of MoEF&CC along with the six monthly compliance report.
- v. There is no diversion proposed for any River/ Nallah. However, project proponent shall obtain requisite NoC from the State Water Resource Department, Government of West Bengal in case of any diversion of River/ Nallah.
- vi. Total water requirement for the proposed project is 984 KLD and the same shall be met from groundwater. PP shall obtain requisite NoC for withdrawal of Groundwater from concerned competent authority prior to the commencement of mining operations.
- vii. Greenbelt shall be developed in 10.0 ha which is about 2.8% of the total project 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. Total no. of 25000 saplings will be planted and nurtured in 7.52 hectares in 1 years. In addition to this plantation shall be carried out in External OB Dump (47.069 ha), Top Soil Dump (4.07 ha), backfill area [43.96 non forest +109.50 (returned to forest after closure) = 153.46 ha], reclaimed roads (7.93 ha) and safety zone (10.03 ha). In addition to this, Project proponent shall carry out community plantation with incentive

- by distributing 50,000 plant saplings with 4 feet tall fruit bearing plants to farmers for plantation in barren and agriculture lands in the study area every year for 5 years to improve the green cover in and around the mine lease area.
- viii. PP shall conduct Carbon Sequestration Study including carbon emissions from coal mining. Compliance status in this regard shall be submitted along with the six monthly compliance to the concerned Regional Office and also kept on the web portal of the company.
 - ix. The proposed project shall be operated on closed water circuit with a concept of 'Zero Liquid Discharge' (ZLD). 100% water will be recycled and no treated & untreated wastewater shall be discharged outside the boundaries of mine lease area.
 - x. PP shall carry out a survey of the impact of blasting in the nearby area/villages by involving a reputed institute and take remedial measures as proposed by the respective institute. Further, provide compensation if any for any damage caused. PP must give crop compensation to the farmers in case there is decrease in the production due to the mining activities. Compliance status in this regard shall be submitted along with the six monthly compliance to the concerned Regional Office
 - xi. Management of top soil and overburden shall be as per the approved mining plan. No OB dumping should be done outside the ML area. No OB shall be dumped on the forestland.
 - xii. The proposed budget of Rs 46.06 Crores for PH action plan shall be kept in a separate account and audited annually. Project proponent shall implement the action plan to address the issues raised during public hearing within a time frame of 5 years from the date of grant of EC. PP shall submit the progress report regarding the implementation of action plan to concerned RO along with the six monthly compliance report. Further, PP shall provide basic facilities to the nearby schools such as drinking water, sanitation facilities and shall also develop green belt around the nearby schools. Regular watering of saplings planted in the nearby schools will be carried out by Project Proponent to mitigate the air and noise pollution. Further, PP shall organize quarterly awareness programs for school students to educate them on the significance and preservation of trees.
 - xiii. PP shall strengthen the existing Primary Health Center (PHC) & Community Health Center (CHC) in the study area for better public health. As committed by the PP, PHCs & CHCs within the core and buffer zone will be supported with adequate budget over 5 years, 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.
 - xiv. 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. 22.07 Crores (Capital) and Rs 10.79 Crores (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.
 - xv. To control the production of dust, three tier plantations shall be done along the coal transportation road. PP shall distribute of trees among the villagers with a bonus of survival (Rs. 50 for each tree). Sprinkling of water shall be done using 2 no of Water sprinklers of 20 kl throughout the coal transportation road. Total 10 no of fog cannon

- shall be installed throughout the coal transportation road. Dust shield shall be provided along the transportation road crossing the village area (3000 meter). Dust sweeping machine shall be used during summer and winter season. Washing of tires shall be done in a concrete platform of the loaded dumpers before approaching the transport road.
- xvi. To control the production of dust at the source, the crusher and in-pit belt conveyors shall be provided with mist-type sprinklers. PP shall install fixed fog cannon (mist sprayer) and fixed sprinkler all along the haul road/ CHP, and OB dump till Railway siding is completed. The sufficient number of fog cannons with 40 mts jet length shall be installed within 6 months from the commencement of mining operations. It should be ensured that air pollution level confirm to the standards prescribed by the MOEF&CC/CPCB. Also PP shall install Mist Cannon Dust Suppression Systems (80-100 mtrs.) at Coal Stock Yard to suppress the dust particles.
 - xvii. Raw coal shall be stored in covered storage facility. Fixed-type high pressure sprinkler shall be installed in this storage yards.
 - xviii. Check dams shall be constructed at required locations within drains to arrest eroded materials and settling ponds shall be constructed to treat mine discharge water inside the mine block.
 - xix. PP shall make use of advanced computer simulation techniques for design and execution of blasting operation in the mine. PP shall make use of Electronic Delay Detonators for optimal blasting in coal and OB rock to minimize the environmental impacts of blasting such as ground vibration, fly rocks and excessive dust generation.
 - xx. PP shall create a “Public Grievance Redressal and Monitoring System” for resolving any issues related to the pollution of mines and complaint has to resolve as soon as possible not beyond 30 days. In this regard, adequate awareness to be spread among the public to address their grievance to company with simple and easy manner and for which company needs to devise the mechanism. The same shall be reported to IRO within 3 months. A logbook to be maintained by PP on “Public Grievance Redressal and Monitoring System.
 - xxi. Third-party audit (by NEERI/CIMFR/IIT/NITs/any reputed govt. organizations or institute) 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.
 - xxii. The status of mine closure activities must be included in every six months compliance report submitted to the state pollution control board and RO of MoEF&CC.
 - xxiii. Hon’ble Supreme Court in an Writ Petition(s) Civil No. 114/2014, Common Cause vs Union of India &Ors vide its judgement dated 8th January, 2020 has directed the Union of India to impose a condition in the mining lease and a similar condition in the environmental clearance and the mining plan to the effect that the mining lease holders shall, after ceasing mining operations, undertake re-grassing the mining area and any other area which may have been disturbed due to their mining activities and restore the land to a condition which is fit for growth of fodder, flora, fauna etc. Compliance of this condition after the mining activity is over at the cost of the mining lease holders/Project Proponent”. The implementation report of the above said condition shall be sent to the Regional Office of the MoEF&CC.
 - xxiv. 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.

- xxv. PP shall ensure that all types of plastic waste generated from the plant shall be stored separately in isolated area and disposed of strictly adhering to the Plastic Waste Management Rules 2016 (as amended). In pursuant to the Ministry's OM dated 18/07/2022. PP shall also create awareness among the people working in the project area as well as in its surrounding area on the ban on Single Use Plastic (SUP) in order to ensure compliance of Ministry's Notification published by the Ministry on 12/08/2021. A report along with photograph on the measures taken shall also be included in the six monthly compliance report being submitted by PP.
- xxvi. Two numbers of Continuous Ambient Air Quality monitoring system shall be set up to monitor common/criteria pollutants such as PM₁₀, PM_{2.5}, SO₂, NO_x within the lease area in consultation with concerned SPCB. The monitoring of other locations (at least three locations outside the lease area covering upwind and downwind directions at an angle of 120° each) shall be carried out manually.
- xxvii. Project proponent is advised to implement the 'Ek Ped Maa Ke Naam' Campaign which was launched on 5th June 2024 on the occasion of the World Environment Day to increase the forest cover across the Country. This plantation drive is other than Green belt development. The action in this regard shall be submitted concerned RO in six monthly report.

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. The project proponent shall obtain clearance from the National Board for Wildlife, if applicable.
- iii. 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.
- iv. The maximum production or peak production at any given time shall not exceed the limit as prescribed in the EC.
- v. Validity of EC is as per life of the mine mentioned in EC letter or 30 years as per EIA Notification, 2006 and its amendments therein.

2. Air Quality Monitoring and Mitigation Measures

- i. Project proponent shall obtain requisite consent from State Pollution Control Board for 2.5 MTPA coal mining.
- ii. Adequate ambient air quality monitoring stations shall be established in the core zone as well as in the buffer zone for monitoring of pollutants, namely particulates, SO₂ and

- NOx. Location of the stations shall be decided based on the meteorological data, topographical features and environmentally and ecologically sensitive receptors in consultation with the State Pollution Control Board.
- iii. The Ambient Air Quality monitoring in the core zone shall be carried out to ensure the Coal Industry Standards notified vide GSR 742 (E) dated 25th September, 2000 and as amended from time to time by the Central Pollution Control Board. Data on ambient air quality and heavy metals such as Hg, As, Ni, Cd, Cr and other monitoring data shall be regularly reported to the Ministry/Regional Office and to the CPCB/SPCB.
 - iv. Effective control measures such as regular water sprinkling/rain gun/ Fog cannon /mist sprinkling etc., shall be carried out in critical areas prone to air pollution with higher level of particulate matter all through the coal transport roads, loading/unloading and transfer points. Fugitive dust emissions from all sources shall be controlled regularly. It shall be ensured that the ambient air quality parameters conform to the norms prescribed by the Central/State Pollution Control Board.
 - v. Major approach roads shall be black topped and properly maintained.
 - vi. Vehicular emissions shall be kept under control and regularly monitored. All the vehicles engaged in mining and allied activities shall operate only after obtaining 'PUC' certificate from the authorized pollution testing centres.
 - vii. PP should Install Wind breaker/shield arrangement along the railway siding for reducing the dust propagation in upwind direction.
 - viii. The raw coal, shall be stacked properly at earmarked site (s) within stockyards fitted with wind breakers/shields. Adequate measures shall be taken to ensure that the stored mineral does not catch fire
 - ix. PP shall submit an action plan for using and developing Renewable Energy for its consumption in its utilities/machinery/equipment instead of using electricity from Grid/generated from Thermal Power Plants. PP shall explore to install additional solar power generation units.

3. Water Quality Monitoring and Mitigation Measures

- i. The effluent discharge (mine waste water, workshop effluent) shall be monitored in terms of the parameters notified under the Water Act, 1974 Coal Industry Standards vide GSR 742 (E) dated 25th September, 2000 and as amended from time to time by the Central Pollution Control Board.
- ii. The monitoring data shall be uploaded on the company's website and displayed at the project site at a suitable location. The circular No.J-20012/1/2006-1A.11 (M) dated 27th May, 2009 issued by Ministry of Environment, Forest and Climate Change shall also be referred in this regard for its compliance.
- iii. The project proponent shall not alter major water channels around the site. Appropriate embankment shall be provided along the side of the river/nallah flowing near or adjacent to the 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.
- iv. Garland drains (of suitable size, gradient and length) around the critical areas i.e. mine shaft and low lying areas, 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
- v. The water pumped out from the mine, after siltation, shall be utilized for industrial purpose viz. watering the mine area, roads, green belt development etc. The drains shall be regularly desilted particularly after monsoon and maintained properly
 - vi. Industrial wastewater from coal handling plant and mine water shall be properly collected and treated so as to conform to the standards prescribed under the Environment (Protection) Act, 1986 and the Rules made thereunder, and as amended from time to time. Oil and grease trap shall be installed before discharge of workshop effluent. Sewage treatment plant (STP) of adequate capacity shall be installed for treatment of domestic wastewater.
 - vii. An integrated surface drainage plan including surface water conservation plan for the area of influence affected by the said mining operations and coal washery shall be prepared, considering the presence of any river/rivulet/pond/lake etc., with impact of mining activities on it, and implemented by the project proponent. The surface drainage plan and/or any diversion of natural water courses shall be as per the provisions of the approved Mining Plan/ EIA-EMP submitted to this Ministry and the same should be done with due approval of the concerned State/GoI Authority. The construction of embankment to prevent any danger against inrush of surface water into the mine should be as per the approved mining plan and as per the permission of DGMS.
 - viii. 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.
 - ix. Construction of Sewage Treatment Plant (STP)/Effluent treatment Plant (ETP) with latest technology should be completed within 2 years and treated water shall be reused for plantation.

4. Noise and Vibration Monitoring and Prevention

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

5. Mining Plan

- i. Project proponent shall obtain star rating as per the guidelines of Ministry of Coal.
- ii. Mining shall be carried out under strict adherence to provisions of the Mines Act 1952 and subordinate legislations made there-under as applicable.
- iii. No change in mining method, calendar programme and scope of work shall be made without obtaining prior approval of the Ministry of Environment, Forest and Climate

Change (MoEF&CC).

- iv. 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 circulars issued by Directorate General Mines Safety (DGMS).
- v. Environmental conditions of mining place shall be rendered ergonomic and air breathable with adequate illumination in conformance with DGMS standards.
- vi. No mining shall be carried out in forest land without obtaining Forestry Clearance as per Forest (Conservation) Act, 1980 and also adhering to the Scheduled Tribes and Other Traditional Forest Dwellers (Recognition of Forest Rights) Act, 2006 read with provisions of Indian Forest Act, 1927.

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) from time to time shall be submitted to MOEFCC/Regional Office (RO).
- ii. The final mine void depth should preferably be as per the approved Mine Closure Plan, and in case it exceeds 40 m, adequate engineering interventions shall be provided for sustenance of aquatic life therein. The remaining area shall be backfilled and covered with thick and alive top soil. Post-mining land be rendered usable for agricultural/forestry purposes and shall be diverted. Further action will be treated as specified in the guidelines for Preparation of Mine Closure Plan issued by the Ministry of Coal dated 27th August, 2009 and subsequent amendments.
- iii. The entire excavated area, backfilling, external OB dumping (including top soil) and afforestation plan shall be in conformity with the “during mining”/“post mining” land-use pattern, which is an integral part of the approved Mining Plan and the EIA/EMP submitted to this Ministry. Progressive compliance status vis-a-vis the post mining land use pattern shall be submitted to the MOEFCC/RO.
- iv. Further, it may be ensured that as per the time schedule specified in mine closure plan it should remain live till the point of utilization. The topsoil shall temporarily be stored at earmarked site(s) only and shall not be kept unutilized. 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.
- v. Post-mining land be rendered usable for agricultural/forestry purposes and shall be handed over to the respective State Government, as specified in the Guidelines for Preparation of Mine Closure Plan, issued by the Ministry of Coal dated 27th August, 2009 and subsequent amendments.

- vi. 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.

7. Public Hearing and Human Health Issues:

- i. Adequate illumination shall be ensured in all mine locations (as per DGMS standards) and monitored.
- ii. The project proponent shall undertake occupational health survey for initial and periodical medical examination of the personnel engaged in the project and maintain records accordingly as per the provisions of the Mines Rules, 1955 and DGMS circulars. Besides regular periodic health check-up, 20% of the personnel identified from workforce engaged in active mining operations shall be subjected to health check-up for occupational diseases and hearing impairment, if any, as amended time to time
- iii. 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.
- iv. 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.
- v. Effective arrangement shall be made to provide and maintain at suitable points conveniently situated, a sufficient supply of drinking water for all the persons employed.
- vi. The project proponent shall follow the mitigation measures provided in this Ministry's OM No.Z11013/5712014-IA.II (M) dated 29th October, 2014, titled 'Impact of mining activities on habitations-issues related to the mining projects wherein habitations and villages are the part of mine lease areas or habitations and villages are surrounded by the mine lease area'.
- vii. PP should conduct epidemiology study for analysis of the distribution, patterns and determinants of health and disease conditions in defined populations.

8. Corporate Environment Responsibility:

- 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 and/or shareholders/stake holders
- ii. A separate Environmental Cell both at the project and company head quarter level, with qualified personnel shall be set up under the control of senior Executive, who will directly 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.

- iv. Self-environmental audit shall be conducted annually. Every three years third party environmental audit shall be carried out.

9. Miscellaneous:

- i. The project proponent shall make public the environmental clearance granted for their project along with the environmental conditions and safeguards at their cost by prominently advertising it at least in two local newspapers of the District or State, of which one shall be in the vernacular language within seven days and in addition this shall also be displayed in the project proponent's 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 environment clearance portal.
- v. 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.
- vi. The project authorities shall inform to the Regional Office of the MOEFCC regarding commencement of mining operations.
- vii. The project authorities must strictly adhere to the stipulations made by the State Pollution Control Board and the State Government.
- viii. 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.
- ix. No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment, Forests and Climate Change (MoEF&CC).
- x. 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.
- xi. The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.
- xii. The Ministry reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.
- xiii. 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
- xiv. 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 No. 20.21

20.21: Baranj Opencast Mining Project (expansion in capacity from 3.00 MTPA to 3.50 MTPA in the existing ML area of 1457.2 ha) by M/s Karnataka Power Corporation Ltd, located at Villages: Baranj Mokasa, Bonthala, Chek Baranj, Chinchordi, Kadholi, Kesurli and Somnala; District: Chandrapur; State: Maharashtra – Environmental Clearance for expansion from 20-40% capacity as per the provisions of Ministry's OM dated 11/04/2022 – reg.

[Online Proposal No. IA/MH/CMIN/516109/2024; Consultant: Srushti Seva Pvt. Ltd: NABET/EIA/21-24/SA 0229 Valid till 12/05/2025]

20.21.1: M/s. Karnataka Power Corporation Limited (KPCL) has made an online application vide proposal no. IA/MH/CMIN/516109/2024 dated 26/12/2024 along with copy of EIA/EMP report prepared based on standard ToRs, 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) of the Schedule of the EIA Notification, 2006 and does not attract general condition and is appraised at Central Level.

The said project is for seeking expansion in the production capacity of environment clearance for Baranj Opencast Mining Project from 3.00 MTPA to 3.50 MTPA (phase – II i.e., 20-40%) within the existing mine lease area of 1457.2 ha, located at villages: Baranj Mokasa, Bonthala, Chek Baranj, Chinchordi, Kadholi, Kesurli and Somnala; district: Chandrapur; state: Maharashtra, as per Ministry's OM dated 11/04/2022.

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

20.21.2: Details of Previous Approvals in chronological orders: PP submitted the details of previous approvals in the chronological order as follows:

Sl. No	Details of Letter No.	EC/Expansion EC / Amendment in EC / Validity extension / Transfer of EC	Capacity	Area (Ha)	Remarks if any
1	J-11015/400/2005-IA.II(M) dated 18.05.2006	EC	2.5 MTPA	1457.20	
2	J-11015/400/2005-IA.II(M) dated 06.07.2015	Transfer of EC	2.5 MTPA	1457.20	Transfer of EC to KPCL
3	EC Identification No.EC23A001MH110399 dated 11.09.2023	Expansion EC	3.00	1457.20	20 % expansion EC under the provisions of clause 7(ii) of the OM dated 11.04.2022

20.21.3: Production details of existing EC: W.r.t the previous approvals, PP submitted the actual production details of the concerned mine and submitted that the mine became operational from 2008-09 onwards. CTO renewal has been obtained from the SPCB and is valid up to 31.03.2025. Details of the same are as follows:

Year	EC sanctioned Capacity (MTPA)	Actual production (MTPA)	Excess production beyond the EC sanctioned capacity
2008-09	2.50	0.99	-
2009-10	2.50	2.25	-
2010-11	2.50	2.27	-
2011-12	2.50	2.19	-
2012-13	2.50	2.50	-
2013-14	2.50	2.50	-
2014-15	2.50	2.48	-
2015-16	2.50	0.00	-
2016-17	2.50	0.00	-
2017-18	2.50	0.00	-
2018-19	2.50	0.00	-
2019-20	2.50	0.00	-
2020-21	2.50	0.01	-
2021-22	2.50	1.26	-
2022-23	2.50	1.61	-
2023-24	3.00	2.50	-
2024-25 (till December)	3.00	2.87	

20.21.4: Certified Compliance Report: The Status of compliance of earlier EC was obtained from Regional Office, Nagpur vide letter no. EC-1852/RO/2022-NGP/13899 dated 09.01.2025 in the name of M/s. KPCL. The Action taken report regarding the partially/non-complied condition was submitted to Regional Officer, MoEF&CC (RO) Nagpur vide letter no. CEBOCM/816 dated 15.01.2025. MoEF&CC. Further, revised ATR was submitted vide letter dated 27.01.2025. Details of the same are as follows:

S. No	Details of the EC and the condition	Condition as per EC	Observations of RO vide CCR dated 09.01.2025 (abridged)	Action Taken Report submitted by the proponent vide letter dated 15.01.2025	Revised Action Taken Report submitted by the proponent vide letter dated 27.01.2025
1	EC dated 11.09.2023 – Specific Condition No. ii	PP shall construct permanent boundary wall all along the boundary wall of Ordinance factory within 1 year. SPCB shall grant the CTO accordingly.	Not complied. PP informed that during the 12th EAC meeting dated 05.06.2024 for EC amendments, the Committee instructed to discuss the matter and obtain NOC from Ordinance	As instructed by the EAC during the appraisal of the EC amendments at the 12th EAC meeting, we discussed with the Chief General Manager of the Ordinance Factory Chanda (OFC) and submitted our application	As instructed by the EAC during the appraisal of the EC amendments at the 12 th EAC meeting, we have applied to Ordinance factory, Chanda (OFC) vide application dated 27th November 2024 seeking its approval for construction of barbed wire fencing instead of permanent boundary wall all along the boundary of

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			<p>Factory. Accordingly, an application was submitted by PP to the Chief General Manager of the Ordinance Factory Chanda (OFC) on 27.11.2024 after discussions with OFC. Reply from OFC is awaited.</p>	<p>concerning this matter on November 27, 2024. We are currently awaiting a response from OFC. Upon receiving their approval, we will promptly proceed to complete the necessary activities.</p> <p>Time required is 6 months.</p> <p>Provision for budget will be made after receipt of confirmation from OFC</p>	<p>OFC. However, as directed by the EAC during 20th meeting dated 22.01.2025 we agree to construct of permanent boundary wall at a distance of 3 km all along the boundary of OFC.</p> <p>Time required is 3 months.</p> <p>Provision for budget will be approx.. Rs. 200 lakhs</p>
2	EC dated 11.09.2023 – Specific Condition No. iii	PP shall revise the mining plan as per latest guidelines of Ministry of Coal (issued in 2019 or 2020) including the incorporation of latest mining method and safety norms and excluding 200 ha of mine lease area declared as non-mining zone locating near to Ordnance Factory. Accordingly, SPCB shall issue the CTO.	<p>Not complied</p> <p>The revision of the mining plan is currently underway as per latest guidelines of Ministry of Coal (issued in 2019 or 2020). Copy of work order for preparation of Revised Mining Plan/Mine Closure Plan is submitted.</p>	<p>The revision of the mining plan is currently underway as per latest guidelines of Ministry of Coal (issued in 2019 or 2020) (copy of work order for preparation of Revised Mining Plan/Mine Closure Plan is submitted)</p> <p>Time required is 6 months and budget for the same is 35 Lakhs.</p>	<p>As per the Guidelines of Ministry of Coal (29th May 2020), Mining Plan needs to be updated every five years. As the mine commenced operation in 2021-2022, the existing mining plan needs to be updated accordingly. Meanwhile, work order for updating the existing Mining Plan/Mine Closure Plan has been issued to accredited Mine Planner on 07.12.2024 and the work is under progress. Copy of Work order is submitted.</p> <p>It shall be completed before 31st December 2025 and budget for the same shall be Rs. 35</p>

S. No .	Details of the EC and the condition	Condition as per EC	Observations of RO vide CCR dated 09.01.2025 (abridged)	Action Taken Report submitted by the proponent vide letter dated 15.01.2025	Revised Action Taken Report submitted by the proponent vide letter dated 27.01.2025
					Lakhs.
3	EC dated 11.09.2023 – Specific Condition No. vi	PP shall obtain No Objection Certificate from Archeological Survey of India for blasting for its impact on Bhadrawati Fort and Vijasan Ancient Caves. Further install the vibration monitoring facilities at these locations. DGMS shall ensure that vibration values are within the stipulated guidelines of Archeological Survey of India (if any)	Not Complied. PP had submitted the request to the Archeological Survey of India, Nagpur on 30.10.2024 for seeking NOC. The ASI Team has visited the site on 11.12.2024 and their report/NOC is awaited.	As per the directives we had submitted an application to the Superintending Archaeologist, Archeological Survey of India, Nagpur dated 30.10.2024 for seeking No Objection Certificate. The ASI Team has visited the site on 11.12.2024 and their reply is awaited. Time required is 3-4 months.	<ul style="list-style-type: none"> It may kindly be noted that, as per the Ancient Monuments and Archaeological Sites and Remains. (Amendment and Validation) Act 2010 under Section 20(A) and 20(B) an area up to 100 meters from the protected limits and further beyond it up to 200 meters in all directions to be Prohibited and Regulated Areas respectively for purposes of both mining operation and construction. No construction/excavation whatsoever is permitted in the prohibited area. However, any construction/ excavation within regulated area need prior approval of competent authority of National Monument Authority. It may be noted that the Bhadrawati Fort and Vijasan caves are located at a distance of 1km and 2.94km respectively from the mining lease boundary and hence, NOC may not be required. However, as per the directives of EAC an application dated

S. No .	Details of the EC and the condition	Condition as per EC	Observations of RO vide CCR dated 09.01.2025 (abridged)	Action Taken Report submitted by the proponent vide letter dated 15.01.2025	Revised Action Taken Report submitted by the proponent vide letter dated 27.01.2025
					<p>30th October 2024 was submitted to the Superintending Archaeologist, Archaeological Survey of India, Nagpur seeking NOC. Accordingly, a team of ASI Officials have conducted the site visit on 11.12.2024 & recently on 21.01.2025. Hence, NOC is awaited and shall be submitted immediately after its receipt.</p> <p>Time required for the same is 3 months and the budget will be as per the demand raised by ASI.</p>
4	EC dated 11.09.2023 – Specific Condition No. viii	PP shall establish Environmental Laboratory at project site and Environmental Management Cell to monitor the issues related environmental degradation.	<p>Not Complied.</p> <p>PP has appointed the consultant M/s Neo Consultancy and Calibration Services, New Delhi for assistance in establishment of Environmental Laboratory at the site of Baranj OC Mines.</p> <p>Environmental Laboratory will commence shortly at the site.</p>	<p>In this regard, we have appointed the consultant Neo Consultancy and Calibration Services, New Delhi for assistance in establishment of Environmental Laboratory at the site of Baranj OC Mines.</p> <p>Environmental Laboratory will commence shortly at the site.</p> <p>Time required is 6 months. Budget provision is 150 lakhs.</p>	<p>The construction of environmental laboratory has been completed and the process for the procurement of necessary equipment required for the environmental laboratory setup shall be completed/commissioned within 15 days.</p> <p>Meanwhile, PP have appointed consultant M/s Neo Consultancy and Calibration Services, New Delhi vide work order dated 23.12.2024 for providing assistance in establishment of Environmental Laboratory at the Baranj Open Cast Mine site. Copy of work order is submitted.</p> <p>Time required for the</p>

S. No	Details of the EC and the condition	Condition as per EC	Observations of RO vide CCR dated 09.01.2025 (abridged)	Action Taken Report submitted by the proponent vide letter dated 15.01.2025	Revised Action Taken Report submitted by the proponent vide letter dated 27.01.2025
					same shall be 15 days and budget is approximately Rs. 150 Lakhs
5	EC dated 11.09.2023 – Specific Condition No. ix	PP shall construct Sewage Treatment Plant (STP) within one year.	Partly Complied. STP of 50 KLD is already installed however not in operation.	The necessary pipeline connection to make it operation are in progress. Time required is 3-4 months and the budget provision will be as per the final offer received from the selected vendor.	The Sewage Treatment Plant (STP) has been installed in the colony outside our mining lease boundary. However, there are no occupants at present and as such there is no generation of domestic effluent. Meanwhile, as per the observation of IRO, MoEF&CC Nagpur, PP has commenced activities to make it operational. Time required for the same is 1 month and budget for the same is Rs. 50 Lakhs.
6	EC dated 11.09.2023 – Specific Condition No. xi	PP shall deploy at least 20% of overall fleet of dumpers/trucks as electrical or CNG/LNG based dumpers/trucks for transportation of coal/OB etc. and deploy e-vehicles for workers/staff in/out of the mine.	Partly Complied. PP has approached to Indigenous manufacturer to explore the possibilities for supply of 40 tonner CNG / LNG dumpers suitable for transport route. PP has deployed 3nos. electric vehicles for the transportation of staff in and out of the mines.	The indigenous manufacturer have been approached to explore the possibilities for supply of 40 tonner CNG/LNG dumpers suitable for transport route. Required time is 3-4 months and the budget will be as per final offer received from the selected vendor.	PP obtained quotation from Propel Industries Pvt Ltd. for procurement of EV for mining and procurement will be done shortly. Meanwhile, PP has already deployed 3nos. EV for transportation of manpower and these nos. will be increased further in due course of time. Time required for the same is 3 months and budget for the same is proposed to be Rs. 815 Lakhs (for 3 nos of EV dumpers/ tippers)
7	EC dated 11.09.2023 – Specific	PP shall conduct feasibility studies for assessment of	Not Complied.	Work Order for conducting feasibility	• Work Order for conducting the feasibility studies for

S. No .	Details of the EC and the condition	Condition as per EC	Observations of RO vide CCR dated 09.01.2025 (abridged)	Action Taken Report submitted by the proponent vide letter dated 15.01.2025	Revised Action Taken Report submitted by the proponent vide letter dated 27.01.2025
	Condition No. xiii	voids for backfilling of ash and mixing of ash with overburden, taking up backfilling ash and OB mixing activities during operations as well post closure of mines in line with the Fly Ash Utilization Notification, 2021.	<p>PP informed that, Work Order for conducting feasibility studies for assessment of voids for backfilling of ash and mixing of ash with overburden, taking up backfilling ash and OB mixing activities during operations as well post closure of mines in line with the Fly Ash Utilization Notification, 2021 is issued to Visvesvaraya National Institute Technology (VNIT) Nagpur on 13.12.2024.</p> <p>4 nos. Power Plants (CTPS Chandrapur, Dhariwal Power Plant Chandrapur, GMR Warora & Wardha Power Plant Warora) in the vicinity of the mine have been contacted to assess the availability of fly ash for the purpose.</p>	<p>studies for assessment of voids for backfilling of ash and mixing of ash with overburden, taking up backfilling ash and OB mixing activities during operations as well post closure of mines in line with the Fly Ash Utilization Notification, 2021 is issued to Visvesvaraya National Institute Technology (VNIT) Nagpur. (Annexure-5 WO of VNIT).</p> <p>4nos. Power Plants (CTPS Chandrapur, Dhariwal Power Plant Chandrapur, GMR Warora & Wardha Power Plant Warora) in the vicinity of the mine have been contacted to assess the availability of fly ash for the purpose.</p> <p>Time required is 6 months and budget provision is 15 Lakhs.</p>	<p>assessment of voids for backfilling of ash and mixing of ash with overburden taking up backfilling ash and OB mixing activities during operations as well post closure of mines in line with the Fly Ash Utilization Notification, 2021 is issued to the Visvesvaraya National Institute of Technology (VNIT), Nagpur. (enclosure submitted)</p> <ul style="list-style-type: none"> • Four power plants (CTPS Chandrapur, Dhariwal Power Plant Chandrapur, GMR Warora, and Wardha Power Plant Warora) in the vicinity of the mine have been contacted to assess the availability of fly ash for the purpose. (enclosure submitted) <p>Time required for the same is 6 months and budget shall be 15 Lakhs.</p>

S. No .	Details of the EC and the condition	Condition as per EC	Observations of RO vide CCR dated 09.01.2025 (abridged)	Action Taken Report submitted by the proponent vide letter dated 15.01.2025	Revised Action Taken Report submitted by the proponent vide letter dated 27.01.2025
8	EC dated 11.09.2023 – Specific Condition No. xv	PP shall conduct third party audit of compliance of EC conditions at an interval six months and its report shall be submitted to IRO, MOEF&CC.	Not Complied	Third-party audit of compliance of EC conditions at an interval of six months will be conducted. Time required is 1-2 months and budget provision is 2.50 lakhs.	A third-party audit works is under progress and it will be completed in given timeframe. Time required for the same is 15 days and budget provision for the same is Rs. 2.50 lakhs.
9	EC dated 11.09.2023 – Specific Condition No. xvii	No coal transportation shall be done through sensitive locations such as villages, hospitals schools etc.	Partly Complied. There is one village namely Konda through which coal is being transported.	In order to explore alternate route to avoid transport of coal from existing route, a scientific study has been initiated with the help of VNIT. In the meanwhile, a traffic density study has been conducted by NABET Accredited Agency Srushti Seva Pvt Limited to study the impact of transportation through locations such as villages, hospitals, schools etc. Recommendations of the study are being implemented. These are ongoing activities and the budget will be included in the mining cost.	<ul style="list-style-type: none"> In order to explore alternate route to avoid transport of coal from existing route, a scientific study has been initiated with the help of VNIT, Nagpur. The Director of Projects, RITES along with representatives of Karnataka Power Corporation Limited (KPCL) conducted site visit on dated 5th December 2024, for implementation of first mile connectivity of Baranj I-IV, Manoradeep and Kiloni coal mines. Pursuant to the visit, KPCL has floated enquiry to RITES for Preparation of Pre-Feasibility Report and DPR for installation of Tube Conveyor System from Baranj Mines to KECM Majri Railway Siding. In the meanwhile, a traffic density study has been conducted by NABET Accredited Agency Srushti Seva Pvt Limited to study the

S. No .	Details of the EC and the condition	Condition as per EC	Observations of RO vide CCR dated 09.01.2025 (abridged)	Action Taken Report submitted by the proponent vide letter dated 15.01.2025	Revised Action Taken Report submitted by the proponent vide letter dated 27.01.2025
					impact of transportation through locations such as villages, hospitals, schools etc. Recommendations of the study are being implemented. It is an ongoing activity and approx. budget for the same is Rs. 20,000 Lakhs
1	EC dated 11.09.2023 – Specific Condition No. xviii	PP shall explore with details technical report regarding implementation of inpit conveyor belt with silo loading facility till nearest railway siding and submit the status to Ministry's IRO.	Not Complied. PP informed that a technical study has been initiated for inpit conveyor belt with silo loading facility to nearest railway siding through VNIT. Site visit by VNIT was conducted on 12.12.2024 and their final report is awaited.	Visveswaraya National Institute of Technology, Nagpur (VNIT) has been entrusted to prepare feasibility report and Detailed Project Report for implementation of inpit conveyor belt with silo loading facility till Majri Siding. Site visit by VNIT undertaken on 12.12.2024. Time required is 8 months and amount will be decided based on final offer received from VNIT.	<ul style="list-style-type: none"> The Visveswaraya National Institute of Technology (VNIT), Nagpur, has been entrusted to prepare feasibility report and a Detailed Project Report (DPR) for implementation of inpit conveyor belt with a silo loading facility extending till Majri Siding. VNIT had conducted the site visit on 12th December 2024 and accordingly Work Order has been issued to VNIT (work order submitted) The Director of Projects, RITES along with representatives of Karnataka Power Corporation Limited (KPCL) conducted site visit on dated 5th December 2024, for implementation of first mile connectivity of Baranj I-IV, Manoradeep and Kiloni coal mines. Pursuant to site visit, KPCL has floated enquiry to RITES for Preparation of Pre-Feasibility Report and DPR for

S. No .	Details of the EC and the condition	Condition as per EC	Observations of RO vide CCR dated 09.01.2025 (abridged)	Action Taken Report submitted by the proponent vide letter dated 15.01.2025	Revised Action Taken Report submitted by the proponent vide letter dated 27.01.2025
					installation of Tube Conveyor System from Baranj Mines to KECM Majri Railway Siding. Time required for the same is 8 months and budget provision for the same is Rs. 25 lakhs.
1	EC dated 11.09.2023 – Specific Condition No. xix	Tree plantation along the periphery of Check Baranj, BaranjMokasa, Chichordi and Manora within mine lease area shall be conducted within one year.	Partly Complied. PP informed that 1100, 15,500, 4,500 Nos. of plants have been planted along periphery of Check Baranj, BaranjMokasa, and Chichordi villages respectively. Plantation at Manora Village will be carried out in another three months.	Since Manora block of this project will be excavates after the 12th year. The plantation in this village is proposed to be commence in the 11th year. Time required will be 2-3 months and the budget provision will be 2.5 lakhs.	Complied
1	EC dated 11.09.2023 – water quality monitoring and preservation – condition no. x	The surface drainage plan including surface water conservation plan for the area of influence affected by the said mining, operations, considering the presence of river/rivulet/pond/lake etc., shall be prepared and implemented by the project proponent. The surface drainage plan and/or any diversion of natural water courses shall be as per the	Partially Complied. The surface drainage plan and surface water conservation plan for the area falling under the influence of the said mining activity has been prepared and the same is being submitted for approval to state authorities. PP	The surface drainage plan and surface water conservation plan for the area falling under the influence of the said mining activity has been prepared and will be implemented in the phased manner as par approved mine plan and due approvals of the concerned State Govt.	Complied

S. No	Details of the EC and the condition	Condition as per EC	Observations of RO vide CCR dated 09.01.2025 (abridged)	Action Taken Report submitted by the proponent vide letter dated 15.01.2025	Revised Action Taken Report submitted by the proponent vide letter dated 27.01.2025
		approved Mining Plan/EIA/EMP report and with due approval of the concerned State/Gol Authority. The construction of embankment to prevent any danger against inrush of surface water into the mine should be as per the approved Mining Plan and as per the permission of DGMS or any other authority as prescribed by the law.	consented to implement it in the phased manner as per approved state authority directives /mine plan/EMP and due approvals of the concerned State Govt. Embankments have also been constructed as per approved mine plan to ensure safety of mining operations.	authorities. Embankments have also been constructed as per approved mine plan to ensure safety of mining operations. This will be carried out in a phased manner as per the approved mining plan/ receipt of approval and the budget will be as per the demand raised by the concerned state authority.	
1	EC dated 11.09.2023 – Land reclamation – condition no. 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 (MOEFCC) from time to time shall be submitted to MOEFCC/Regional Office (RO).	Not Complied.	Digital Survey of entire lease hold area/core zone using Satellite Remote Sensing technic has been completed. Survey report is submitted. Complied.	Complied.
1	EC dated 11.09.2023 – Land reclamation – condition no. iv	Fly ash shall be used for external dump of overburden, backfilling or stowing of mine as per provisions contained in clause (i) and (ii) of subparagraph (8) of fly ash notification	Partly Complied. Work Order for conducting feasibility studies for assessment of voids for	Work Order for conducting feasibility studies for assessment of voids for backfilling of ash and mixing of ash with overburden,	Work Order for conducting the feasibility studies for assessment of voids for backfilling of ash and mixing of ash with overburden, taking up backfilling ash and OB mixing activities during operations as well post

S. No	Details of the EC and the condition	Condition as per EC	Observations of RO vide CCR dated 09.01.2025 (abridged)	Action Taken Report submitted by the proponent vide letter dated 15.01.2025	Revised Action Taken Report submitted by the proponent vide letter dated 27.01.2025
		issued vide SO, 2804 (E) dated 3rd November, 2009 as amended from time to time. Efforts shall be made to utilize gypsum generated from Flue Gas Desulfurization (FGD), if any, along with fly ash for external dump of overburden, backfilling of mines. Compliance report shall be submitted to Regional Office of MoEF&CC, CPCB and SPCB.	backfilling of ash and mixing of ash with overburden, taking up backfilling ash and OB mixing activities during operations as well post closure of mines in line with the Fly Ash Utilization Notification, 2021 is issued to Visvesvaraya National Institute Technology (VNIT) Nagpur. (Annexure-XIII WO of VNIT). 4nos. Power Plants (CTPS Chandrapur, Dhariwal Power Plant Chandrapur, GMR Warora & Wardha Power Plant Warora) in the vicinity of the mine have been contacted to assess the availability of fly ash for the purpose.	taking up backfilling ash and OB mixing activities during operations as well post closure of mines in line with the Fly Ash Utilization Notification, 2021 is issued to Visvesvaraya National Institute Technology (VNIT) Nagpur. 4nos. Power Plants (CTPS Chandrapur, Dhariwal Power Plant Chandrapur, GMR Warora & Wardha Power Plant Warora) in the vicinity of the mine have been contacted to assess the availability of fly ash for the purpose. Time required is 6 months and the budget provision shall be 15 lakhs.	closure of mines in line with the Fly Ash Utilization Notification, 2021 is issued to the Visvesvaraya National Institute of Technology (VNIT), Nagpur. Four power plants (CTPS Chandrapur, Dhariwal Power Plant Chandrapur, GMR Warora, and Wardha Power Plant Warora) in the vicinity of the mine have been contacted to assess the availability of fly ash for the purpose. Time required for the same shall be 6 months and the budget for the same shall be Rs. 15 lakhs.
1	EC dated 11.09.2023 – Greenbelt – condition no. ii	Greenbelt consisting of 3-tier plantation of width not less than 7.5 m shall be developed all along the mine lease area as soon as possible.	Partly Complied. The plantation program is being carried	The plantation program is being carried out in accordance with approved Mining Plan & Progressive	The plantation program is being carried out near the safety zone between Ordnance Factory and mining lease in accordance with approved Mining Plan &

S. No .	Details of the EC and the condition	Condition as per EC	Observations of RO vide CCR dated 09.01.2025 (abridged)	Action Taken Report submitted by the proponent vide letter dated 15.01.2025	Revised Action Taken Report submitted by the proponent vide letter dated 27.01.2025
		The green belt comprising a mix of native species (endemic species should be given priority) shall be developed all along the major approach/ coal transportation roads.	out in accordance with approved Mining Plan & Progressive Mine Closure Plan. Afforestation efforts on external dumps and vacant land are undertaken each monsoon.	Mine Closure Plan. Afforestation efforts on external dumps and vacant land are undertaken each monsoon. This also covered the safety zone area of 7.5 m width. Plantation activities are ongoing and the budget is as per the approved EMP.	Progressive Mine Closure Plan. A total 8,43,500 plants have planted and is covering approximately 344.64 Ha land and it also covers the safety zone area of 7.5 m in width. Afforestation on external dumps and vacant land is undertaken every monsoon. Representative photographs of plantation are submitted. Time required for the same is 6 months and budget for the same shall be as approved in EMP.
1	EC dated 11.09.2023 – Miscellaneous – condition no. v	The project proponent shall submit six-monthly reports on the status of the compliance of the stipulated environmental conditions on the website of the ministry of Environment, Forest and Climate Change at environment clearance portal.	Partially Complied. Six-monthly status report including compliances with the stipulated environmental conditions have been uploaded regularly on the website of the ministry of Environment, Forest and Climate Change. However, it has been observed that this Six-monthly compliance was done for the EC received on 18.05.2006. PP has been suggested to	The six monthly compliance report for the EC of 2023 shall be submitted within 30 days. Time required for the same is 30 days.	Complied Six monthly compliance report has been submitted on Parivesh portal.

S. No.	Details of the EC and the condition	Condition as per EC	Observations of RO vide CCR dated 09.01.2025 (abridged)	Action Taken Report submitted by the proponent vide letter dated 15.01.2025	Revised Action Taken Report submitted by the proponent vide letter dated 27.01.2025
			submit Six-monthly compliance report for the EC obtained on 11.09.2023 online within one month.		

20.21.5: Compliance of Ministry’s OM dated 11/04/2022:

S. No.	Condition as per Ministry’s OM dated 11.04.2022	Compliance
1.	The Project should have gone through the Public Hearing Process at least once for its existing EC capacity on which expansion is being sought.	The Public Hearing for 2.50 MTPA Capacity was held on 18-06-2005.
2.	There should not be change in Category of the Project due to proposed expansion	The Project is a Category “A” Project since beginning.
3.	There is no additional land acquisition or forest land diversion involved for the proposed expansion. Further, there is no increase in Lease Area vis-à-vis the area mentioned in the EC.	In Phase-1, there will be no change in the leasehold area, forest land, displacement of people / villages, diversion of roads / power lines / water channels etc.
4.	The proposed expansion shall not be more than 50% of the production capacity and the same shall be allowed in minimum three phases.	The proposed expansion of 3.75 MTPA in is 50% of the existing EC Capacity in three stages.
5.	Predicted environmental quality parameters arising out of proposed expansion shall be within the prescribed norms.	The Predicted environmental quality parameters arising out of expansion up to 3.75 MTPA are within the prescribed norms.
6.	The proposed expansion should not result in reduction in Greenbelt Area as stipulated in earlier EC or below 33%.	There is no reduction in Greenbelt Area.
7.	The PP should have satisfactorily complied the conditions stipulated in existing EC and satisfactorily fulfilled all the commitments made during the Public Hearing (to be certified in IRO/CPCB/SPCB Compliance Report).	Certified compliance Report from Regional Office is submitted.

S. No.	Condition as per Ministry's OM dated 11.04.2022	Compliance
8.	Public Consultation shall be undertaken by obtaining response in writing as per Para 7 III (ii)(b) of EIA Notification 2006.	Public Consultation shall be undertaken after directives in this regard are issued, by obtaining response in writing as per Para 7 III (ii)(b) of EIA Notification 2006
9.	Effluent Monitoring including Air Quality Monitoring Systems as specified in the existing EC should have been installed.	This has been complied with and the systems are in place for carrying out regular monitoring. Valid CTO obtained from MPCB is submitted.

20.21.6: Environmental Site Settings: The project area is covered under Survey of India Topo sheet No 56 P/4 & is bounded by geographical coordinates ranging from Latitude 200 6'43" E to 200 8'59" E and Longitude 790 5'47" N to 7908'28" N. Project does not fall in the Critically Polluted Area (CPA)/ Severely Polluted Area (SPA), as per CEPI Assessment 2018. PP has submitted a distance map and email of Sub-Regional Officer, MPCB, wherein, it is mentioned that the project is located in the Bhadrawati Taluka of Chandrapur District, which does not fall in CEPI area.

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

S. No.	Govt. Order/Notifications as the case may be	Area (ha)
1	Initially, Govt. of India, Ministry of Coal no. 47011/1(1)2002-CPAM/CA dated 10/11/2003.	1457.20
2	Subsequently, Ministry of Coal vide its Allotment Order No. 103/14/2015/NA dated 31st March 2015 allotted all the six coal blocks to M/s KPCL under Rule 7(2)(c) and Rule 13(1) of the Coal Mines (Special Provisions) Rules, 2014. Lease valid till 2033	1457.20
Total-1		1457.20
3	Outside lease area, Private Negotiations	20.00
Grand Total		1477.20

Forest Area: The project involved total 84.41 Ha of forest land the details of the approval already obtained or applied for is as follows:

S. No.	Obtained vide letter No.	Area (ha)	Stage I/II	Validity
1	8-52/2011-FC dated 09-12-2011 (Stage-I)	84.41	Stage -I	Five Years (up to 08-12-2016)
2	8-52/2011-FC dated 22-12-2021 (Stage-II)	84.41	Stage -II	Co-Terminus with the period of Mining Lease.
Total		84.41		

PP submitted that there is no forestland broken and there is no violation of Van (Sanrakshan Evam Samvardhan) Adhiniyam, 1980.

Protected Area: The project is not located within 10 KM of any ESZ/ ESA/ national park/ wildlife sanctuary/ biosphere reserve/ tiger reserve/ elephant reserve/tiger corridor/elephant corridor etc. The boundary of Eco-Sensitive Zone of Tadoba-Andheri Tiger Reserve notified vide Notification No. S.O. 3249(E) dated 11th Sept. 2019 is located at a distance of about 12.60 km in East direction from the Block. The boundary of Core Zone of TATR is located at a distance of about 22.52 km in North-East direction from the Project. PP has submitted the

approved Wildlife Conservation Plan and the same has been approved on 10.01.2023 by DFO. The plan also includes the distance map of ESZ projecting distance of ESZ from project site.

Other Sensitive Receptors: Within the mine block area, there are three nallas: Nalla-1 situated in the Northeast, Nalla-2 in the Northwest, and Nalla-3 in the Southwest. Presently Nalla-2 has been diverted by previous allottee. Nalla -1 and Nalla-3 will be diverted after obtaining permission from concerned competent authority in the Maharashtra State Government. The 7 km NH passing to the block has been diverted in 2014 by PWD and wherein the necessary deposit made by the proponent. Apart from this, there is a Bhadrawati Fort and Vijasan Ancient Caves (archaeological site) located at a distance of 1 km and 2.94 km from the project site.

20.21.7: Method of Mining & Mining Plan: Approval of revised Mining Plan (April 2011) including Mine Closure Plan (June 2011) was obtained from the Ministry of Coal vide letter No.13016/18/2004-CA-I (Part) dated 24/8/2011 for capacity of 5 MTPA. The present proposal is for expansion of 20-40% capacity (Phase - II) as per Ministry's OM dated 11/04/2022.

- i. Total geological reserves are reported to be 157.72 MT out of which mineable reserves are 128.52 MT and extractable reserves are 128.52 MT. Percentage of extraction is 100%.
- ii. There is just one seam reported with thickness ranging between 8-11 m. Grade of coal is G-9 and stripping ratio is 7.17.
- iii. Life of mine is 27 years.
- iv. Method of mining to be adopted shall be opencast mining.
- v. The project has 1 internal OB dump and 2 external OB dumps. One of the external OB dump within an area of 70 ha is outside the ML area. However, the same is not being used by the proponent presently.
- vi. Land use details:
 - a. Pre mining land use:

S. No.	Land Use	Within ML Area (ha)	Outside ML Area (ha)	Total (ha)
1	Agricultural Land	1276.21	-	1276.21
2	Forest Land	84.41	-	84.41
3	Waste land	96.58	-	96.58
4	Grazing Land	-	-	-
5	Surface Water Bodies	-	-	-
6	Settlements	-	-	-
7	Others (specify) For Staff Colony	-	20	-
Total		1457.2	20	1457.2

- b. Post mining land use:

S. No.	Type	Total Area	Reclaimed Area	Un-reclaimed area
1.	Excavation/Quarry Area:		-	-
	(a) Backfilled areas	911.00	911.00	

S. No.	Type	Total Area	Reclaimed Area	Un- reclaimed area
	(b) Excavated Void	190.00	-	190.00
2.	External Dump	240	240	
3.	Safety Zone	95.20	30.99	64.21
4.	Road and infrastructure	6.00	3.00	3.00
5.	Garland Drains	-	-	-
6.	Embankment	15.00		15.00
7.	Others	-	-	-
Total		1457.2	1184.99	272.21

- vii. Transportation:
- In Pit: By road
 - Surface to Siding: By road
 - Siding to loading: By Wheel Loader
 - Quantity being transported by Road/ Rail/ Conveyor: 9590 tons per day by road from mine to siding and then by rail to Bellary Thermal Power Plant. Distance covered by road is 7 km.
- viii. Reclamation: Afforestation shall be done progressively covering an area of 1184.99 Ha at the end of mining. This will include, reclaimed external OB dump 240 ha, internal dump 911 ha and greenbelt of 33.99 ha. Density of the plantation will be 2500 saplings per ha. Void of 190 ha will be converted into a water body of 45 m depth.

20.21.8: Baseline data:

Period	March 2022 to May 2022
AAQ parameters at 13 Locations (min and max)	PM _{2.5} = 19.7 To 37.4 µg/m ³ PM ₁₀ = 45.4. To 74.5 µg/m ³ SO ₂ = 13.1 to 25.2 µg/m ³ NO _x = 18.3. To 37.7 µg/m ³ CO = 196 To 512 mg/m ³
Incremental GLC Level	PM ₁₀ = 4.12 µg/m ³ (Level at 5.5.km in SW Direction) SO ₂ = 1.19 µg/m ³ (Level at 5.5.km in SW Direction) NO _x = 3.00 µg/m ³ (Level at 5.5.km in SW Direction)
Ground water quality at 5 (Five) Locations	pH: 7.48 to 7.65, Total Hardness: 274.to 372 mg/l, Chlorides: 292.7 to 402.5 mg/l, Fluoride:0.72 to 1.18 mg/l.
Surface water quality at 5 (five) Locations	pH: 7.48.to 8.14; DO: 4.6.to 5.4. mg/l and BOD: 4.6 to 8.4.mg/l. COD from 1.8 to 2.6 mg/l
Noise levels Leq (Day and Night)	36 to 55.6 dBA for the day time and 36.6. to 52.9 dBA for the Night time.

Period	March 2022 to May 2022										
Traffic assessment study findings	<p>Traffic study has been conducted at SH-264 which approximately 1.2 km distance from the mine site.</p> <p>Transportation of mineral will be done 100 % by road. Existing PCU is 1055 PCU/hr on SH-264 (NH/SH/MDR) and existing level of service (LOS) is: A</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>SH-264</td> <td>1806</td> <td>15000</td> <td>0.12</td> <td>A</td> </tr> </tbody> </table>	Road	V (Volume in PCU/hr.)	C (Capacity in PCU/hr.)	Existing V/C Ratio	LOS	SH-264	1806	15000	0.12	A
Road	V (Volume in PCU/hr.)	C (Capacity in PCU/hr.)	Existing V/C Ratio	LOS							
SH-264	1806	15000	0.12	A							
	<p>PCU load after proposed project will be 1055(Existing) + 1203 (Additional) PCU/hr and level of service (LOS) will be:</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>SH-264</td> <td>2258</td> <td>15000</td> <td>0.14</td> <td>A</td> </tr> </tbody> </table> <p>Note: Capacity as per IRC Manual (IRC: 64-1990) Guide line for capacity for roads.</p> <p>Conclusion: The level of service will still remain in A Category 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	SH-264	2258	15000	0.14	A
Road	V (Volume in PCU/hr.)	C (Capacity in PCU/hr.)	Existing V/C Ratio	LOS							
SH-264	2258	15000	0.14	A							
Flora and fauna	<p>Wildlife Conservation Plan for the said project has been approved on 10.01.2023 by DFO. Schedule – I species observed in the study area are Blackbuck, Indian Gaur/ Bison, Indian Wolf, Sloth bear, MouseDeer, Leopard, Tiger, LeopardCat, Four Horned Antelope, Common Blind snake, Russel’s Viper, Shikra, Indian Peafowl.</p>										

20.21.9: Water Requirement: PP submitted that the water required for the project is 600 KLD. And the source of water shall be rainwater and ground water. PP submitted that NoC for groundwater has been obtained for 294 KLD. Application for renewal of CGWA permission has been submitted vide application no. 21-4/7542/MH/MIN/2022, dated 25.08.2024. Within the mine block area, there are three nallas: Nalla-1 situated in the Northeast, Nalla-2 in the Northwest, and Nalla-3 in the Southwest. Presently Nalla-2 has been diverted. The said nallah has been diverted by the prior allottee with due permission from the State Government.

20.21.10: Power Requirement and details of diversion of Hi-Tension/ Transmission Line: The Power Requirement based on the proposed expansion shall be in the range of 6 MVA at 33 kV which will be sourced from MSEDCL (Maharashtra State Electricity Distribution Company Limited). No Hi-tension line/ Transmission line is proposed to be diverted.

20.21.11: Solid and Hazardous Waste:

S. No.	Type of Waste	Source	Quantity (TPA)	Mode of Treatment	Disposal	Remarks
1	Oil & grease	Workshop, Store	33	Oil & grease trap	By road	Through authorized recycler

20.2.12: Status of implementation of action plan as per the Public Consultation held on 18.08.2005: Public Hearing was held on 18/06/2005, for the proposed Baranj Opencast Coal Mining Project of M/s. Karanataka EMTA Coal Mines Ltd (later the EC got transferred). PP submitted that the advertisement for public hearing was given on 18.05.2005 in Sakal (Nagpur),

Hitavada (Nagpur), and Mahavidarbha (Chandrapur) (3 newspapers) and public hearing held on 18.06.2005 at Bhachat Safalya Bhavan, Collector Office, Chandrapur Maharashtra under the Chairmanship of Collector, Chandrapur. Total more than 200 nos of people attended the public hearing from the district and outside the district. The major issues raised during the PH were Employment, Land acquisition, R&R, Ground Water Depletion, Plantation, environment pollution etc.

S. No	Physical activity and action plan		Year of implementation (Budget INR in CR)					Total Expenditure (Rs. Crores)	
	Name of the Activity	Physical Targets	1 st (2020 - 2021)	2 nd (2021 -22)	3 rd (2022- 23)	4 th (2023- 24)	5 th (2024 -25)		6 th (2025-26)
			Completed Activities						Proposed
1	Employment	Providing direct / indirect employment to local villagers of villages Somnala, Bonthala, Chak Baranj, Kadholi, Kesurli, Chichordi & Baranj Mokasa and also adjoining villages in Chandrapur district. Business opportunity for local entrepreneurs.	<ul style="list-style-type: none"> • Direct employment 160 • Indirect employment 1051 & • Entrepreneurs 15-20 					Additional 100	
2	Land Acquisition	The prior allottee had acquired 1408 ha of land with 239 Crores. This acquired land was transferred to KPCL as per the Vesting Order.	<ul style="list-style-type: none"> • After the allotment, no additional land was acquired by M/s KPCL. • However, process for acquisition of 185 Ha land has been initiated. 					185 ha proposed to be acquired as per the LARR 2013 Act & Amendments	
3	R & R	Project Affected Families (PAF) 1381 out of which 719 families have been provided compensation. Remaining 662 families will be compensated in next two years.	Rs. 95.17 Crores					Rs. 10.35 Crores is proposed for 87 PAF's out of 662 PAF's	105.52 is spent/earmarked towards R & R for 806 PAF's
4	Ground water Depletion / RWH	Construction/repairing of village pond. Preparation of ground water recharge shaft. RWH for village GP, Anganwadi buildings.	-	0.03	0.05	0.05	0.10	0.80	1.03
5	Environment degradation / pollution	Implementation of Environment Management Plan including control of air pollution, water pollution, noise and vibration, plantation etc.	0.20	0.26	0.23	0.30	0.35	0.45	1.84
6	Plantation	Plantation programme and green belt development programme has been drawn and is under implementation. The company had given	0.10	0.15	0.18	0.20	0.26	0.50	1.39

S. No	Physical activity and action plan		Year of implementation (Budget INR in CR)						Total Expenditure (Rs. Crores)
	Name of the Activity	Physical Targets	1 st (2020 - 2021)	2 nd (2021 -22)	3 rd (2022- 23)	4 th (2023- 24)	5 th (2024 -25)	6 th (2025-26)	
			Completed Activities						
		detailed plantation programme during the presentation. Since inception about 8,43,500 number of trees covering an area of 344.64 Ha has been already covered by plantation.							
7	Dust Suppression	Mist Spray, Dust suppression by tanker,		0.50			0.10	0.30	0.90
	Total								110.68

20.21.13: EMP Budget: Existing capital cost of project was Rs. 524.67 Crores. The capital cost of the proposed project is Rs. 650.39 Crores and the capital cost for environmental protection measures is proposed as Rs. 26.90 Crores. The annual recurring cost towards the environmental protection measures is proposed as Rs. 1.00 Crores. The employment generation from the proposed project / expansion is 425 (Direct).

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

S. No.	Description of Item	Existing (In Rs. crore)		Proposed (In Rs. crore)	
		Capital Cost	Recurring Cost	Capital Cost	Recurring Cost
(i)	Air Pollution Control/ Noise Management	0.60	0.05	4.70	0.25
(ii)	Water Pollution Control	0.60	0.08	3.30	0.15
(iii)	Environmental Monitoring and Management	0.50	0.05	2.50	0.15
(iv)	Green Belt & Plantation Development	2.00	10.00	14.81	0.20
(v)	Other heads as proposed in EIA / committed during the EAC	0.25	0.03	1.59	0.25
	Total	3.95	0.31	26.90	1.00

20.21.14: Plantation: Existing green belt has been developed in 344.64 ha area which is about 24 % of the total project area of 1457.20 ha with total sapling of 8,43,500 Trees. Proposed greenbelt will be developed in 835.38 ha which is about 57 % of the total project area. Thus total of 1184.99 ha area (81 % of total project area) 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&CC, New Delhi guidelines. Local and native species will

be planted with a density of 2500 trees per hectare. Total no. of 29,62,475 saplings will be planted and nurtured in 1184.99 hectares in 27 years. The plantation details proposed above include biological reclamation of 240 Ha of External dumps, 911 Ha of reclaimed quarry area and 33.99 Ha of Safety Zone & rationalization area.

20.21.15: Rehabilitation and Resettlement: The Project involves shining of two village's viz. Chak Baranj and Baranj Mokasa located within the Project Area to the resettlement site near Kudrara village. All the facilities as per statute shall be provided at this resettlement site. The 'Award' was declared for two villages namely Baranj Mokasa and Chak Baranj on 07/02/2013 and 06/02/2013 respectively through Govt. of Maharashtra. At Baranj Mokasa, a total 400 (including 16 Government structures) and at Chak Baranj total 140 (including 03 Government structures) households and families were enlisted as per award. Total 319 Families were paid compensation of Rs. 21,11,26,119.00/- towards R&R benefit till March 2015. One member of the affected family was offered job as per vacancy at BOCM or got one time compensation extra in lieu of service. Total 145 nos. PAF were offered jobs till 31st March 2015.

The coal block was cancelled pursuant to the order of the Supreme Court w.e.f. 31st March 2015 and the R&R process too was suspended. After re-allocation of the coal block to KPCL, fresh R&R Agreement was signed between KPCL and Govt. Of Maharashtra on 15.12.2016 and the same is being implemented. The revised nos. of PAF/PAPs in the project is 1381, out of which 719 nos. have been paid R&R compensation of Rs. 95.17Cr. Payment of R&R package to remaining 662 nos. PAF/PAPs is under progress.

20.21.16: Project Cost: Existing capital cost of project was Rs. 524.67 Crores. The capital cost of the proposed project is Rs. 650.39 Crores.

20.21.17: Details of pending litigation: PP reported that there is no legal issue/violation w.r.t i) Environment (Protection) Act, ii) Air(P&CP) Act, Water (P&CP) Act, Van (Sanrakshan Evam Samvardhan) Adhinyam, Wildlife Protection Act, MMDR Act, Factories Act. Further, there is no court case on the project.

20.21.18: Undertaking and Affidavit: PP submitted an undertaking vide an affidavit, stating that, there is no construction done at the site or the construction done without any deviation as per previous EC obtained EC letter No. J-11015/400/2005-IA.II (M) for 3.0 MTPA. dated 11.09.2023, there is no litigation on the project either at NGT or any other court of Law, the land has been purchased by M/s Karnataka Power Corporation Ltd. The land is in our possession and there is no R&R issue, there is no difference in the documents submitted i.e. Form 1. Mining Plan. EIA/EMP report and presentation being made to the EAC, reason for submitting the project at MoEF&CC - To obtain the Environment Clearance for 20% expansion in production capacity from 3.0 MTPA to 3.5 MIPA in Phase-II in accordance with the OM No. IA3-22/10/2022-1A.III [E 177258] dated 11 April 2022 under Para 7ii(a) of EIA 2006 Notification.

20.21.19: Written Submission: PP submitted the following during the meeting:

S. No.	Point Raised	Reply of the Proponent
1.	Proponent was asked to submit a revised Action Taken Report as per the latest developments made in compliance of the partially complied and non-complied conditions and was also asked to reduce the timeline of complying with other conditions.	Pursuant to the said meeting PP has taken proactive measures and submitted Revised Action Taken Report (ATR) regarding CCR dated 09.01.2025 on Environmental Clearance in respect of Baranj OC Project of M/s Karnataka Power Corporation Limited, located in District-Chandrapur, Maharashtra (ML area-1457.20 ha) wherein out of total 8 nos. non compliances, PP has fully complied with 1 nos. EC condition and 2 nos. EC conditions will be

S. No.	Point Raised	Reply of the Proponent
		<p>complied within a short span of 15 days. Also, out of the 8 nos. partial compliances, PP has fully complied with 3 nos. EC conditions.</p> <p>For the remaining 5 nos. non compliances and 5 nos, partial compliances, Action Taken Report along with time- lines and financial provisions have been submitted to IRO, Nagpur. (Revised ATR submitted)</p>

Observation and deliberation of the EAC:

20.21.20: Committee after deliberations noted the following:

1. Baranj Opencast Mining Project was originally granted EC vide letter no. J-11015/400/2005-IA.II(M) dated 18.05.2006 for the production capacity of 2.5 MTPA within the ML area of 1457.20 ha as the project of M/s Karnataka Emta Coal Mines Ltd. The said EC was transferred to M/s Karnataka Power Corporation Ltd. vide letter no. J-11015/400/2005-IA.II(M) dated 06.07.2015. Thereafter, proponent obtained EC for first 20% expansion in production capacity as per the provisions of Ministry's OM dated 11.04.2022 vide EC Identification No. EC23A001MH110399 dated 11.09.2023.
2. The above EC is under implementation and the proponent has achieved the production capacity of 2.87 MTPA till December 2025.
3. 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.
4. Instant proposal under consideration for expansion of production capacity of Baranj Opencast Mining Project from 3 MTPA to 3.5 MTPA (Phase – II; i.e., 40%), within the same lease area of 1457.20 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.
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. Project does not fall in the Critically Polluted Area (CPA)/ Severely Polluted Area (SPA), as per CEPI Assessment, 2018. The project site falls in Chandrapur District. PP has submitted a distance map and email of Sub-Regional Officer, MPCB, wherein, it is mentioned that the project site is located in the Bhadrawati Taluka of Chandrapur District, which is 15.9 km from the CEPI area.
7. The project is not located within 10 KM of any ESZ/ ESA/ national park/ wildlife

sanctuary/ biosphere reserve/ tiger reserve/ elephant reserve/tiger corridor/elephant corridor etc. The boundary of Eco-Sensitive Zone of Tadoba-Andheri Tiger Reserve notified vide Notification No. S.O. 3249(E) dated 11th Sept. 2019 is located at a distance of about 12.60 km in East direction from the Block. The boundary of Core Zone of TATR is located at a distance of about 22.52 km in North-East direction from the Project. PP has submitted the approved Wildlife Conservation Plan and the same has been approved on 10.01.2023 by DFO. The plan also includes the distance map of ESZ projecting distance of ESZ from project site.

8. The project involves total 84.41 ha of forestland on which PP accorded Stage – II FC vide letter no. 8-52/2011-FC dated 22-12-2021.
9. Approval of revised Mining Plan (April 2011) including Mine Closure Plan (June 2011) was obtained from the Ministry of Coal vide letter No.13016/18/2004-CA-I (Part) dated 24/8/2011 for capacity of 5 MTPA. The present proposal is for expansion of 20-40% capacity (Phase - II) as per Ministry's OM dated 11.04.2022.
As per the specific condition no. iii of EC dated 11.09.2023, PP was asked to revise the mine plan according to the latest guidelines of Ministry of Coal (issued in 2019 or 2020) including the incorporation of latest mining method and safety norms and excluding 200 ha of mine lease area declared as non-mining zone locating near to Ordnance Factory. PP submitted that as per the Guidelines of Ministry of Coal (29th May 2020), Mining Plan needs to be updated every five years. As the mine commenced operation in 2021-2022, the existing mining plan needs to be updated accordingly. Meanwhile, work order for updating the existing Mining Plan/Mine Closure Plan has been issued to accredited Mine Planner on 07.12.2024 and the work is under progress. Copy of Work order is submitted. It shall be completed before 31st December 2025.
Life of mine is 27 years.
10. The project has 1 internal OB dump and 2 external OB dumps. One of the external OB dump within an area of 70 ha is outside the ML area and the same is not being used by the proponent presently. Committee opined that no OB dumping shall be done outside the ML area and the Mine Plan shall be accordingly revised.
11. Committee deliberated on the baseline data submitted by the proponent and observed all the parameters within the permissible limits.
12. Committee observed that the water required for the project is 600 KLD. And the source of water shall be rain water and ground water. PP submitted that NoC for groundwater has been obtained for 294 KLD. Application for renewal of CGWA permission has been submitted vide application no. 21-4/7542/MH/MIN/2022, dated 25.08.2024.
13. Committee observed that there are 3 Nallah within the ML area. Out of which Nallah – 2 is already diverted by the previous allottee with due permission. Nallah – 1 and Nallah – 3 are also proposed to be diverted at the later stage. Committee opined that necessary shall be accorded for the same from the competent authority, before diverting these nallahs.

14. Committee also observed that The 7 km NH passing to the block has been diverted in 2014 by PWD and wherein the necessary deposit are made by the proponent. Apart from this, there is a Bhadrawati Fort and Vijasan Ancient Caves (archaeological site) located at the distance of 1 km and 2.94 km from the project site. PP submitted that as per the directions of EAC an application has been submitted to the Superintending Archaeologist, Archaeological Survey of India, Nagpur seeking NOC. Accordingly, a team of ASI Officials have conducted the site visit on 11.12.2024 & recently on 21.01.2025. NOC is awaited and shall be submitted immediately after its receipt.
15. Committee deliberated on the plantation activities done by the proponent and observed that the existing greenbelt has been developed by the PP is in 344.64 ha area which is about 24 % of the total project area of 1457.20 ha with total sapling of 8,43,500 Trees. Proposed greenbelt will be developed in 835.38 ha which is about 57 % of the total project area. Thus total of 1184.99 ha area (81 % of total project area) 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&CC, New Delhi guidelines. Local and native species will be planted with a density of 2500 trees per hectare. Total no. of 29,62,475 saplings will be planted and nurtured in 1184.99 hectares in 27 years. The plantation details proposed above include biological reclamation of 240 Ha of External dumps, 911 Ha of reclaimed quarry area and 33.99 Ha of Safety Zone & rationalization area. Committee opined that the proponent should distribute the saplings of fruit bearing plants to the nearby villagers and should incentivise them for its survival. Committee also opined that 3-tier plantation with native species shall be developed on both the sides of the coal transportation road.
16. Committee deliberated on the method of transportation of coal and observed that the coal is being transported from surface to siding by road and then by rail to Bellary Thermal Power Plant. Distance from Mine to railway siding which is used to transport coal by road is 7 km. Committee opined that dense plantation shall be developed with native species on both the sides of the coal transportation road. Committee also observed that rain guns and wind barriers have been installed at the railway siding.
17. Committee deliberated on the compliance of public hearing action plan submitted for the public hearing held on 18.06.2005. Wherein, PP submitted the status of completed activities and proposed budget proposed for the year 2025-26, i.e, Rs. 12.4 crore.
18. The budget submitted by the proponent for Environment Management Plan for the proposed expansion is Rs. 26.90 crore (capital cost) and Rs. 1.00 crore (recurring cost).
19. Committee deliberated on the Certified Compliance Report and the Action Taken Report thereon. Committee observed that there are a few partially complied and non-complied conditions on part of the proponent. Committee deliberated on each of it and asked the proponent to submit a revised Action Taken Report to the Ministry's RO by reducing the timeline to comply with the partially complied and non-complied conditions. PP submitted the revised ATR according to which out of total 8 non-complied conditions 1 nos of condition is complied and revised timeline for rest of the non-complied conditions is submitted. Out of 8 partially complied conditions 3

nos of conditions are complied and revised timeline for completion of the rest of the partially complied conditions is submitted. Committee opined that the timeline submitted by the PP shall be strictly adhered to.

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

21. The EAC also deliberated on written submission of the project proponent and found it satisfactory.

Recommendations of the Committee:

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

A. Specific Conditions:

- i. 1381 Project Affected Families (PAFs) & Project Affected Persons(PAPs) is being affected due to the project. The affected families/persons should be rehabilitated as per R & R plan to be 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.
- ii. Project proponent shall not divert any water body and road without the permission of the competent authority.
- iii. Project proponent shall comply with the following non-conformities as reported by the Regional Office as per the timeline given below as committed. Compliance in this regard shall be submitted along with the six-monthly compliance report to the concerned Regional Office and also kept on the web portal of the company.

Description of Condition	Timeline	Estimated expenditure
PP shall construct permanent boundary wall all along the boundary wall of Ordinance factory within 1 year.	3 months	Rs. 200 Lakhs.
PP shall revise the mining plan as per latest guidelines of Ministry of Coal (issued in 2019 or 2020)	31.12.2025	Rs. 35 Lakhs.
PP shall obtain No Objection Certificate from Archeological Survey of India for blasting for its impact on Bhadrawati Fort and Vijasan Ancient Caves.	3 months	As per the demand raised by ASI
PP shall establish Environmental Laboratory at project site and Environmental Management Cell to monitor the issues related environmental degradation.	15 days	Rs. 150 Lakhs
PP shall construct Sewage Treatment Plant (STP) within one year.	1 month	Rs. 50 lakhs

Description of Condition	Timeline	Estimated expenditure
PP shall deploy at least 20% of overall fleet of dumpers/trucks as electrical or CNG/ LNG based dumpers/trucks for transportation of coal/OB etc. and deploy e-vehicles for workers/staff in/out of the mine.	3 months	Rs. 815 Lakhs
PP shall conduct feasibility studies for assessment of voids for backfilling of ash and mixing of ash with overburden, in line with the Fly Ash Utilization Notification, 2021.	6 months	Rs. 15 Lakhs
PP shall conduct third party audit of compliance of EC conditions at an interval six months and its report shall be submitted to IRO, MOEF&CC.	15 days	Rs. 2.50 lakhs
No coal transportation shall be done through sensitive locations such as villages, hospitals schools etc.	1year	Rs. 20,000 Lakhs
PP shall explore with details technical report regarding implementation of inpit conveyor belt with silo loading facility till nearest railway siding and submit the status to Ministry's IRO.	8 months	Rs. 25 Lakhs
Greenbelt consisting of 3-tier plantation of width not less than 7.5 m shall be developed all along the mine lease area	6 months	As approved in EMP

- iv. Continuous Ambient Air Quality monitoring system set up at the ML area shall be equipped to monitor common/criteria pollutants such as PM₁₀, PM_{2.5}, SO₂, NO_x within the lease area. The monitoring of other locations (at least three locations outside the lease area covering upwind and downwind directions at an angle of 120° each) shall be carried out manually.
- v. 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.
- vi. To control the production of dust at the source, the crusher shall be equipped with mist-type sprinklers. PP shall install fixed fog cannon (mist sprayer) and fixed sprinkler all along the haul road, Coal transportation road, and OB dump. The sufficient number of fog cannons with 40 mts jet length shall be installed within 6 months. It should be ensured that air pollution level confirm to the standards prescribed by the MOEF&CC/CPCB.
- vii. A detailed water harvesting plan may be prepared by the project proponent for water augmentation and submitted to Regional Office of MoEF&CC.
- viii. Total water requirement for the proposed project is 600 KLD and the same shall be met from rain water harvesting, groundwater and mine water. PP shall obtain requisite NoC for withdrawal of water from the concerned competent authority.
- ix. Greenbelt shall be developed in total of 1184.99 ha area (81% of total project area). A 7.5 m wide greenbelt, consisting of at least 3 tiers around mine boundary shall be developed 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 29,62,475 saplings will be planted and nurtured in 1184.99 hectares in 27 years. Plantation shall also be done on both the sides of the coal transportation road with native species. In addition to this, PP shall provide 50,000 plant saplings with 4 feet tall fruit bearing plants to

farmers for plantation in barren and agriculture lands in the study area every year for 5 years with incentive to improve the green cover in and around the mine lease area. Besides, project proponent shall carry out three tier plantation along the coal transportation route. Compliance in this regard shall be submitted along with the six monthly compliance to the concerned Regional Office and also kept on the web portal of the company.

- x. 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. 26.90 Crore 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.
- xi. The budget proposed for compliance to the PH held on 18.08.2005 (FY 2025-26) is Rs 12.4 crore. The budget proposed shall be kept in a separate account. Project proponent shall implement the action plan to address the issues raised during public hearing within the stipulated time frame. PP shall submit the progress report regarding the implementation of action plan to concerned RO along with the six-monthly compliance report. In addition to this, PP shall strengthen the existing Primary Health Center (PHC) & Community Health Center (CHC) in the study area for better public health. As committed by the PP, PHCs & CHCs within the core and buffer zone shall be supported with adequate budget over 5 years, 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.
- xii. No OB dumping shall be done outside the ML area.
- xiii. Hon'ble Supreme Court in an Writ Petition(s) Civil No. 114/2014, Common Cause vs Union of India & Ors vide its judgement dated 8th January, 2020 has directed the Union of India to impose a condition in the mining lease and a similar condition in the environmental clearance and the mining plan to the effect that the mining lease holders shall, after ceasing mining operations, undertake re-grassing the mining area and any other area which may have been disturbed due to their mining activities and restore the land to a condition which is fit for growth of fodder, flora, fauna etc. Compliance of this condition after the mining activity is over at the cost of the mining lease holders/Project Proponent". The implementation report of the above said condition shall be sent to the Regional Office of the MoEF&CC.
- xiv. PP shall ensure that all types of plastic waste generated from the plant shall be stored separately in isolated area and disposed of strictly adhering to the Plastic Waste Management Rules 2016 (as amended). In pursuant to the Ministry's OM dated 18/07/2022. PP shall also create awareness among the people working in the project area as well as in its surrounding area on the ban on Single Use Plastic (SUP) in order to ensure compliance of Ministry's Notification published by the Ministry on 12/08/2021. A report along with photograph on the measures taken shall also be included in the six-monthly compliance report being submitted by PP.
- xv. Project proponent is advised to implement the 'Ek Ped Maa Ke Naam' Campaign which was launched on 5th June 2024 on the occasion of the World Environment Day to increase the forest cover across the Country. This plantation drive is other than Green belt development. The action in this regard shall be submitted concerned RO in six monthly report.

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. The project proponent shall obtain clearance from the National Board for Wildlife, if applicable.
- iii. 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.
- iv. The maximum production or peak production at any given time shall not exceed the limit as prescribed in the EC.
- v. Validity of EC is as per life of the mine mentioned in EC letter or 30 years as per EIA Notification, 2006 and its amendments therein.

2. Air Quality Monitoring and Mitigation Measures

- i. Project proponent shall obtain requisite consent from State Pollution Control Board for 3.5 MTPA coal mining.
- ii. Adequate ambient air quality monitoring stations shall be established in the core zone as well as in the buffer zone for monitoring of pollutants, namely particulates, SO₂ and NO_x. 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.
- iii. The Ambient Air Quality monitoring in the core zone shall be carried out to ensure the Coal Industry Standards notified vide GSR 742 (E) dated 25th September, 2000 and as amended from time to time by the Central Pollution Control Board. Data on ambient air quality and heavy metals such as Hg, As, Ni, Cd, Cr and other monitoring data shall be regularly reported to the Ministry/Regional Office and to the CPCB/SPCB.
- iv. Effective control measures such as regular water sprinkling/rain gun/ Fog cannon /mist sprinkling etc., shall be carried out in critical areas prone to air pollution with higher level of particulate matter all through the coal transport roads, loading/unloading and transfer points. Fugitive dust emissions from all sources shall be controlled regularly. It shall be ensured that the ambient air quality parameters conform to the norms prescribed by the Central/State Pollution Control Board.
- v. Major approach roads shall be black topped and properly maintained.
- vi. Vehicular emissions shall be kept under control and regularly monitored. All the vehicles engaged in mining and allied activities shall operate only after obtaining 'PUC' certificate from the authorized pollution testing centres.
- vii. PP should Install Wind breaker/shield arrangement along the railway siding for reducing the dust propagation in upwind direction.

3. Water Quality Monitoring and Mitigation Measures

- i. The effluent discharge (mine waste water, workshop effluent) shall be monitored in terms of the parameters notified under the Water Act, 1974 Coal Industry Standards vide GSR 742 (E) dated 25th September, 2000 and as amended from time to time by the Central Pollution Control Board.
- ii. The monitoring data shall be uploaded on the company's website and displayed at the project site at a suitable location. The circular No. J-20012/1/2006-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.
- iii. Garland drains (of suitable size, gradient and length) around the critical areas i.e. mine shaft and low lying areas, 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
- iv. The water pumped out from the mine, after siltation, shall be utilized for industrial purpose viz. watering the mine area, roads, green belt development etc. The drains shall be regularly desilted particularly after monsoon and maintained properly
- v. Industrial wastewater from coal handling plant and mine water shall be properly collected and treated so as to conform to the standards prescribed under the Environment (Protection) Act, 1986 and the Rules made thereunder, and as amended from time to time. Oil and grease trap shall be installed before discharge of workshop effluent. Sewage treatment plant of adequate capacity shall be installed for treatment of domestic wastewater.
- vi. The surface drainage plan including surface water conservation plan for the area of influence affected by the said mining operations shall be prepared, considering the presence of any river/rivulet/pond/lake etc., with impact of mining activities on it, and implemented by the project proponent. The surface drainage plan and/or any diversion of natural water courses shall be as per the provisions of the approved Mining Plan/ EIA-EMP submitted to this Ministry and the same should be done with due approval of the concerned State/GoI Authority. The construction of embankment to prevent any danger against inrush of surface water into the mine should be as per the approved mining plan and as per the permission of DGMS.
- vii. 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 revarian /riparian ecosystem conservation and management plan should be prepared and implemented in consultation with the irrigation / water resource department in the state government.
- viii. Industrial effluent and domestic wastewater shall be treated in the Effluent treatment Plant (ETP) and Sewage Treatment Plant (STP). After treatment, treated water shall be reused for plantation.

4. Noise and Vibration Monitoring and Prevention

- i. Adequate measures shall be taken for control of noise levels as per Noise Pollution Rules, 2016 in the work environment. Workers engaged in blasting and drilling operations, operation of HEMM, etc shall be provided with personal protective equipments (PPE) like ear plugs/muffs in conformity with the prescribed norms and guidelines in this regard. Adequate awareness programme for users to be conducted. Progress in usage of such accessories to be monitored.

- ii. The noise level survey shall be carried out as per the prescribed guidelines to assess noise exposure of the workmen at vulnerable points in the mine premises, and report in this regard shall be submitted to the Ministry/RO on six-monthly basis.

5. Mining Plan

- i. Project proponent shall obtain star rating as per the guidelines of Ministry of Coal.
- ii. Mining shall be carried out under strict adherence to provisions of the Mines Act 1952 and subordinate legislations made there-under as applicable.
- iii. No change in mining method, calendar programme and scope of work shall be made without obtaining prior approval of the Ministry of Environment, Forests and Climate Change (MoEFCC).
- iv. 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 circulars issued by Directorate General Mines Safety (DGMS).
- v. Efforts should be made to reduce energy and fuel consumption by conservation, efficiency improvements and use of renewable energy.

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) from time to time shall be submitted to the Regional Office of MoEF&CC.
- (ii) The final mine void depth should preferably be as per the approved Mine Closure Plan, and in case it exceeds 40 m, adequate engineering interventions shall be provided for sustenance of aquatic life therein. The remaining area shall be backfilled and covered with thick and alive top soil. Post-mining land be rendered usable for agricultural/forestry purposes and shall be diverted. Further action will be treated as specified in the guidelines for Preparation of Mine Closure Plan issued by the Ministry of Coal dated 27th August, 2009 and subsequent amendments.
- (iii) The entire excavated area, backfilling, external OB dumping (including top soil) and afforestation plan shall be in conformity with the “during mining”/ “post mining” land-use pattern, which is an integral part of the approved Mining Plan and the EIA/EMP submitted to this Ministry. Progressive compliance status vis-a-vis the post mining land use pattern shall be submitted to the MOEFCC/RO.
- (iv) Further, it may be ensured that as per the time schedule specified in mine closure plan it should remain live till the point of utilization. The topsoil shall temporarily be stored at earmarked site(s) only and shall not be kept unutilized. 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.

- (v) 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.

7. Public Hearing and Human Health Issues:

- i. Adequate illumination shall be ensured in all mine locations (as per DGMS standards) and monitored.
- ii. The project proponent shall undertake occupational health survey for initial and periodical medical examination of the personnel engaged in the project and maintain records accordingly as per the provisions of the Mines Rules, 1955 and DGMS circulars. Besides regular periodic health check-up, 20% of the personnel identified from workforce engaged in active mining operations shall be subjected to health check-up for occupational diseases and hearing impairment, if any, as amended time to time
- iii. 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.
- iv. 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.
- v. Effective arrangement shall be made to provide and maintain at suitable points conveniently situated, a sufficient supply of drinking water for all the persons employed.
- vi. 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. Corporate Environment Responsibility:

- 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 and/or shareholders/stake holders
- ii. A separate Environmental Cell both at the project and company head quarter level, with qualified personnel shall be set up under the control of senior Executive, who will directly to the head of the organization.

9. Miscellaneous:

- i. The project proponent shall make public the environmental clearance granted for their

project along with the environmental conditions and safeguards at their cost by prominently advertising it at least in two local newspapers of the District or State, of which one shall be in the vernacular language within seven days and in addition this shall also be displayed in the project proponent's 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 environment clearance portal.
- v. 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.
- vi. The project authorities shall inform to the Regional Office of the MOEFCC regarding commencement of mining operations.
- vii. The project authorities must strictly adhere to the stipulations made by the State Pollution Control Board and the State Government.
- viii. 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.
- ix. No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment, Forests and Climate Change (MoEF&CC).
- x. 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.
- xi. The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.
- xii. The Ministry reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.
- xiii. 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
- xiv. 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 No. 20.22

20.22: Kulda Expansion Opencast Project (area 634.205 ha having capacity 21 MTPA) by M/s Mahanadi Coalfields Limited, located at Villages: Karlikachhar, Siarmal, Tiklipada, Tumulia, Balinga, Bankibahal, Barapali & Hushara; District: Sundargarh; State: Odisha– Regarding amendment in EC for extension in timeline for road transportation and implementation of in-pit belt conveyor system with silo loading facility till railway siding.

[Online Proposal No.: IA/OR/CMIN/442462/2023; Consultant: CMPDIL; NABET/EIA/22-25/SA0223 valid till 08/04/2025]

20.22.1: The instant proposal is for amendment in Environment Clearance granted to M/s Mahanadi Coalfields Limited accorded vide File No.: J-11015/10/1995-IA-II(M) dated 24.05.2022 for Kulda Opencast Project (area 634.205 ha having capacity 21 MTPA), located at Villages: Karlikachhar, Siarmal, Tiklipada, Tumulia, Balinga, Bankibahal, Barpalli & Hushara; District: Sundargarh; State: Odisha.

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

Sl. No.	Details of Letter No.	EC/Expansion EC/Amendment in EC/ Validity Extension of EC	Capacity in (MTY)	Area in ha	Date	Status of Implementation
1.	J/11015/10/95-IA.II(M)	Fresh EC	10.00	878.290	24/12/2002	Implemented
2.	J-11015/10/1995-IA.II(M)	Expansion EC	14.00 (EC validity for one year)	634.205	22/03/2018	Implemented
3.	J-11015/10/1995-IA.II(M)	EC validity extension	14.00 (EC validity for one year)	634.205	28/03/2019	Implemented
4.	J-11015/10/1995-IA.II(M)	EC validity extension	14.00 (Extension/ continuation of EC for 30 years or life of the mine whichever is earlier)	634.205	10/01/2020	Implemented
5.	J-11015/10/1995-IA.II(M)	Expansion EC	16.80 (applied under 7(ii) clause of EIA Notification, 2006 as Ministry's OM dated. 15.09.2017 for first phase 20% expansion in production capacity)	634.205	02/03/2021	Implemented
6.	J-11015/10/1995-IA.II(M)	Expansion EC	19.60 (applied under 7(ii) clause of EIA Notification, 2006 as per Ministry's OM dated 15.09.2017 for second phase of 20% expansion in the production capacity)	634.205	14/02/2022	Being Implemented

Sl. No.	Details of Letter No.	EC/Expansion EC/Amendment in EC/ Validity Extension of EC	Capacity in (MTY)	Area in ha	Date	Status of Implementation
7.	J-11015/10/1995-IA.II(M)	Expansion EC	21.00 (applied under 7(ii) clause of EIA Notification, 2006 as per the Ministry OM dated 07.05.2022 for another 10% expansion in production capacity as Special Dispensation)	634.205	24/05/2022	Being Implemented
8.	J-11015/10/1995-IA.II(M)	Amendment in EC	21.00 (applied for seeking amendment in the condition stipulated in EC dated 14.02.2022, for extension in timeline to implement in-pit conveyor system with silo and allow road transportation.)	634.205	09/01/2023	Being Implemented
9.	J-11015/10/1995-IA-II(M)	Amendment in EC	21.00 (applied for seeking amendment in EC condition stipulated in EC dated 09.01.2023, for extension in timeline to implement in-pit conveyor system with silo loading facility till railway siding as per the directives of EAC is commissioned)	634.205	05/01/2024	Being Implemented

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

20.22.3: PP submitted that the concerned mines became operational from **2007-2008** onward. CTO renewal has been obtained from the SPCB and is valid up to **31.03.2025**. Details of the same are as follows:

Year	Actual Coal Production in MTPA	Planned Coal production in MTPA as per Environmental Clearance	Excess Production
2007-08	10.0	0.15	--
2008-09	10.0	2.47	--
2009-10	10.0	3.43	--
2010-11	10.0	5.02	--
2011-12	10.0	5.54	--

2012-13	10.0	5.50	--
2013-14	10.0	5.27	--
2014-15	10.0	4.80	--
2015-16	10.0	8.02	--
2016-17	10.0	10.00	--
2017-18	14.0	10.07	--
2018-19	14.00	12.81	--
2019-20	14.00	13.62	--
2020-21	16.80	15.73	--
2021-22	19.60	18.49	--
2022-23	21.00	21.00	--
2023-24	21.00	21.00	--

20.3.4: Details regarding amendment sought in the EC dated 24/05/2022 & its subsequent amendment dated 09/01/2023 & 05/01/2024

Details of Condition in which amendment is sought	Existing	Proposed/ Amendment	Reason
Additional Specific condition no. 1.3 in the EC amendment letter dated 05.01.2024	PP shall implement in-pit conveyor system with silo loading facility till railway siding and No road transportation shall be allowed after December, 2024 till Sardega Siding and after December 2025 for Barpalli loop and accordingly, SPCB shall grant CTO for road transportation.	PP shall implement in-pit conveyor system with silo loading facility till railway siding and No road transportation shall be allowed after June 2027 till Sardega Siding and after December 2025 for Barpalli loop.	CTO is linked with the EC condition for ensuring further operation of this mine and to ensure continuous offtake of coal by the consumers to avoid stockpiling of coal and its degradation.
Additional Specific condition no. 1.4 in the EC amendment letter dated 05.01.2024	PP shall complete the implementation of conveyor system of 5.42 km till railway siding by December, 2024. SPCB shall not grant CTO for non-implementation of In-pit belt conveyor system after December, 2024.	PP shall complete the implementation of conveyor system of 4.245 km till railway siding by June 2027 .	

20.22.5: Traffic Assessment Route:

Mine pit to surface: By trucks and tippers

A. Interim transport arrangement

Name of the mine	Capacity of the mine in MTPA	Production target for FY 2024-25 MTPA	Coal evacuation rail arrangements from Coal stock yard			Road sale (From dedicated concrete coal corridor to end users)
			Sardegga Siding to end users	Kanika Siding to end users	Laikera Siding to end users	
			40 MTPA	8 MTPA	6.67 MTPA	
Kulda Opencast project	21	21	8 MTPA	4 MTPA	4 MTPA	5 MTPA
	Through Railway sidings: 21 MTPA		Towards Sardegga siding through road (4.1 km) and belt conveyor (2 km) [Addl. 4.245 Km belt is to be constructed]	Through dedicated concrete coal corridor of 30 km	Through dedicated concrete coal corridor of 12 Km	Through road

B. Transportation arrangement after Barpalli loop completion

Name of the mine	Capacity of the mine in MTPA		Coal evacuation rail arrangements with capacities existing	
			Barpalli Bulb Siding (Capacity: 90 MTPA)	Sardegga Siding (Capacity: 40 MTPA)
Kulda Opencast project	21	21	21 MTPA	--
	Through Railway sidings: 21 MTPA		Through 2.5 km closed conveyor only from surface to Barpalli Bulb siding	Through 6.245 km closed conveyor only from coal surface to Sardegga siding Standby arrangement if Barpalli bulb is put on stall due to maintenance.

20.22.6: Traffic Impact Assessment Report: PP submitted the Traffic Impact Assessment Report for Kulda OCP. Findings of the same are as follows:

Transportation of Coal and Traffic Load:

The coal transportation road from Kulda OCP originates from coal stockyard of Kulda OCP to the truck receiving hopper of Sardegga Siding (stretch of 4.1 km & width 10.5 m). The Coal Transportation (CT) road towards Sardegga Siding is a Pavement Quality Concrete (PQC) Road. This CT road is only for coal transportation and no other vehicle ply on this road. Coal to Sardegga Siding is being dispatched through 40T capacity transportation trucks. This coal is discharged to a truck receiving hopper and further transported to Sardegga Siding through belt (2.0 km) and RLS (20.0 Mty).

The traffic assessment details of the above road as submitted by the PP is detailed below:

Sl. No.	Particulars	Unit
1.	Coal dispatch to Sardega Siding per day	32876.71 Tonne
2.	Considering 40 T trucks no. of trips	822 trips
3.	Considering 21 hours duration of truck movement no. of trucks per hour	39 trucks
4.	No. of Passenger Car Unit (PCU) per hour	145
5.	Considering up and down movement the total PCU per hour	290

The vehicles passing through the road were counted at this route for 24 hrs duration on 19.12.2024. The number of vehicles per hour were counted and converted into Passenger Car Units (PCU's) using factor given in IRC: 106- 1990.

Location	Traffic Assessment		
	No of PCU's/hr	V/C	LoS
Road to Sardega Siding	290	0.19	A
2 lane (Two Way) undivided as per IRC: 106 -1990 - 1500 PCUs			

From above table it can be observed that the CT road towards Sardega Siding falls under "Excellent" category.

The current proposal is only for permission to continue dispatch to Sardega Siding by this dedicated Coal transportation road for the same quantity i.e. 8.0 Mty (for Kulda OCP) which is currently dispatched. There is no increase in dispatch quantity.

Ambient Air Quality Monitoring

Annual data (2024) of 3 nearby CAAQMS i.e CAAQMS at Kulda OCP (0.78 km), CAAQMS at Jagannath Mandir (0.85 km) & CAAQMS at Siarmal OCP (adjacent mine) has been summarised.

PM_{2.5} annual average values were recorded as 23.78 µg/m³, 32.90 µg/m³ and 49.30 µg/m³ at Kulda OCP (0.78 km), CAAQMS at Jagannath Mandir (0.85 km) & CAAQMS at Siarmal OCP (adjacent mine) respectively as compared to Annual Standard of 40 µg/m³.

PM₁₀ annual average values were recorded as 53.91 µg/m³, 52.10 µg/m³ and 72.50 µg/m³ at Kulda OCP (0.78 km), CAAQMS at Jagannath Mandir (0.85 km) & CAAQMS at Siarmal OCP (adjacent mine) respectively as compared to Annual Standard of 60 µg/m³.

SO₂ annual average values were recorded as 3.28 µg/m³, 3.30 µg/m³ and 13.30 µg/m³ at Kulda OCP (0.78 km), CAAQMS at Jagannath Mandir (0.85 km) & CAAQMS at Siarmal OCP (adjacent mine) respectively as compared to Annual Standard of 50 µg/m³.

NO_x annual average values were recorded as 19.75 µg/m³, 22.20 µg/m³ and 16.64 µg/m³ at Kulda OCP (0.78 km), CAAQMS at Jagannath Mandir (0.85 km) & CAAQMS at Siarmal OCP (adjacent mine) respectively as compared to Annual Standard of 40 µg/m³.

It can be observed that out of three CAAQMS at 2 stations annual data is well within prescribed limit whereas at Gopalpur CAAQMS (Core zone of Siarmal OCP) the annual average of PM₁₀ and PM_{2.5} is a little bit higher to NAAQS standard. Apart from these three CAAQMs, REM monitoring will be also be done as per NAAQS to assess the impact of road transportation.

Appropriate mitigation measures are in operation to control the dust suppression and to contain the predicted concentration within prescribed norms. Coal transportation vehicles are allowed to leave the mine premise only after properly covering by the tarpaulin. Round the clock dust suppression is being done by the project on the coal transportation route through 195 nos. mist type sprinklers, 10 nos. of mobile water tankers (4Kl- 28 Kl), 4 numbers of truck mounted cannons, 8 nos. of trolley mounted fog cannons and 2 nos. of mechanical road sweepers 3 nos. of instant shower systems and 3 nos. of wheel washing units. The transportation roads are being maintained properly for smooth road transportation as well as to prevent any spillage of coal, thereby reducing air pollution impact.

Noise Level Monitoring

Noise level monitoring was carried out during day and night at 3 locations, namely Near CT Road ((falling in Core Zone), Near Sardega Siding (6.10 Km) & Teleimal Village (3.37 Km).

The estimated noise levels Near CT road, Near Sardega Siding & Teleimal Village during the day were recorded to be between 56.7 to 66.3 dBA, 58.1 to 71.7 dBA and 47.4 to 54.7 dBA respectively.

The estimated noise levels Near CT road, Near Sardega Siding & Teleimal Village during the night were recorded to be between 50.1 to 64.7 dBA, 52.7 to 69.4 dBA and 39.1 to 44.1 dBA respectively.

The ambient noise level of existing project is being monitored regularly and noise levels are found to be within the limits of the prescribed standard.

To have proper control over the impact of road transportation on noise levels, avenue plantation is proposed to be enhanced by the project along with routine maintenance of the trucks.

20.22.7: Reason for delay in establishing 5.42 km Conveyor belt: PP submitted that the earlier tender floated for the pipe conveyor on 31.07.2023 has been cancelled due to incorporation and crusher and screening unit in the arrangement along with modifications in belt length from 5.42 Km to 4.245 Km and capacity from 16.5 MTPA to 17.5 MTPA. The reduction of the pipe conveyor length from 5.42 km to 4.245 km is based on optimized routing, engineering considerations, environmental impacts, cost efficiency, and alignment with project objectives. This change will enhance the overall effectiveness of the transportation system while adhering to the environmental and engineering standards. D(T/P&P), MCL further submitted that the conveying arrangements in MCL has been operationalized in MCL from past few years has witnessed tear of the belts due to absence of the crushing and screening unit. In view of above reasons, the establishment of pipe conveyor has been delayed.

20.22.8: Reason for delay in regularisation of EC obtained for 21 MTPA vide letter J-11015/10/1995-IA-II(M) dtd 24.05.2022: EC for Kulda, from 19.6 MTPA to 21.0 MTPA was granted by MoEF&CC vide letter dtd. 24-05-22 under “Special dispensation for consideration of EC for 50% expansion in Coal Mine projects, within existing mine lease area, without additional land acquisition-reg as per Ministry’s OM dated 07.05.2022. EIA/EMP of Kulda OCP Expn. 19.6 to 21.0 MTPA was submitted to MoEF&CC on 31.01.2023. The project was considered in the

40th EAC held on 16-17th February 2023. It was further considered in the 48th EAC held on 28.08.2023. As per 48th EAC, *PP was to submit the application after physical progress of 50% work w.r.t. construction of mechanized system for 16.5 MTPA with CHP by submitting documentary proof with photograph and video footage.* The compliance of this condition is still under compliance by PP based on which regularisation of EC obtained for 21 MTPA is yet to be obtained.

20.22.9: Details of Court Cases: There are no court cases pending on the project.

20.22.10: Written Submission: PP during the meeting submitted an undertaking that the timeline for completion of work for implementation of pipe conveyor shall be December 2026.

Observations and deliberation of the Committee:

20.22.11: The EAC noted the following:

1. M/s Mahanadi Coalfields Limited originally accorded EC for Kulda Expansion Opencast Project, located at Villages: Karlikachhar, Siarmal, Tiklipada, Tumulia, Balinga, Bankibahal, Barapali & Hushara; District: Sundargarh; State: Odisha vide letter J/11015/10/95-IA.II(M) dated 24.12.2002 for 10 MTPA, within the lease area of 878.290 ha. It further accorded EC for expansion production capacity of 14 MTPA in the reduced ML area of 634.205 ha vide letter dated 22.03.2018 and sought validity extension for the same vide letter dated 28.03.2019 and 10.01.2020. Later the PP accorded EC for increase in production capacity of 16.80 MTPA and 19.60 MTPA as per the provisions of Ministry's OM dated 15.09.2027 respectively. Further PP accorded EC for increase in production capacity of 21 MTPA as per the Ministry's OM dated 07.05.2022, vide letter dated 24.05.2022. Further the PP sought amendment in EC dated 24.05.2022 vide letter dated 09.01.2023 and 05.01.2024.
2. The project involves 227.89 Ha of forestland and PP obtained Stage – II forest clearance on the same on 08.08.2007.
3. EC for 21 MTPA was granted by MoEF&CC for Kulda OCP of M/s Mahanadi Coalfields Limited, vide letter no. J-11015/10/1995-IA.II(M), dated 24.05.2022 under the provisions of Ministry's OM dated 07.05.2022 for special dispensation for consideration of EC for 50% expansion in Coal Mine projects, within the existing mine lease area.
4. Committee observed that the PP has applied for regularization of EC accorded vide letter dated 24.05.2022. The proposal was considered in the 40th EAC Meeting held on 16-17th February 2023 and 48th EAC meeting held on 28th August 2023. As per the ADS raised in 48th EAC meeting held on 28th August 2023, "*PP was to submit the application after physical progress of 50% work w.r.t. construction of mechanized system for 16.5 MTPA with CHP by submitting documentary proof with photograph and video footage.*" The compliance of this condition is yet to be completed. Hence, the proposal for regularisation of EC dated 24.05.2022 is yet to be re-submitted by the proponent along with the said compliance.
5. In condition no. 3(vi) of EC for 21 MTPA granted vide letter dated 24.05.2022, stated that all other terms & conditions as prescribed in Ministry's letter dated 10.01.2020, 02.03.2021 & 14.02.2022 shall remain the same and this enhancement shall be read with EC dated 14.02.2022, which needs to be complied by PP.

6. Specific condition no. (v) of EC dated 14.02.2022, stated that “PP shall implement in-pit conveyor system with silo loading facility till railway siding and no road transportation shall be allowed after December 2022 and accordingly SPCB shall not grant CTO for road transportation after December 2022.”

For the said condition PP sought amendment vide EC letter dated 09.01.2023. Wherein the said condition was amended as “PP shall implement in-pit conveyor system with silo loading facility till railway siding and no road transportation shall be allowed after October 2023 and accordingly SPCB shall not grant CTO for road transportation after October 2023.”

7. PP again sought amendment in the said condition of EC dated 09.01.2023 and the same was amended vide EC letter dated 05.01.2024 as “PP shall implement in-pit conveyor system with silo loading facility till railway siding and No road transportation shall be allowed after December, 2024 till Sardega Siding and after December 2025 for Barpalli loop and accordingly, SPCB shall grant CTO for road transportation.”

8. Now the PP has again submitted the proposal for seeking amendment in EC dated 05.01.2024. The amendment is sought w.r.t. **extension of timeline required for construction of belt conveyor of 4.245 km (instead of 5.42 km) from pit top to existing truck receiving hopper.**

9. The amendment is sought by the proponent in 2 condition of EC amendment letter dated 05.01.2024, i.e., specific condition no. 1.3 and specific condition no. 1.4, which are as follows:

Specific Condition no. 1.3: PP shall implement in-pit conveyor system with silo loading facility till railway siding and No road transportation shall be allowed after December 2024 till Sardega Siding and after December 2025 for Barpalli loop and accordingly, SPCB shall grant CTO for road transportation.

Amendment sought: PP shall implement in-pit conveyor system with silo loading facility till railway siding and No road transportation shall be allowed after June 2027 till Sardega Siding and after December 2025 for Barpalli loop

Specific Condition no. 1.4: PP shall complete the implementation of conveyor system of 5.42 km till railway siding by December 2024. SPCB shall not grant CTO for non-implementation of In-pit belt conveyor system after December 2024.

Amendment sought: PP shall complete the implementation of conveyor system of 4.245 km till railway siding by June 2027.

10. Committee observed that the total distance of Kulda to Sardega Siding is approx. 6.1 km. Out of this 6.1 km, conveyor belt of 2.0 km along with RLS of 20.0 MTPA has already been commissioned. The length of pipe conveyor earlier envisaged i.e 5.42 km, is now reduced to 4.245 km as per latest tender floated and DGPS survey.

11. Committee deliberated on the reasons for delay on implementation of these conditions and observed that the earlier tender floated for the pipe conveyor on 31.07.2023 has been cancelled due to incorporation and crusher and screening unit in the arrangement along with modifications in belt length from 5.42 Km to 4.245 Km and capacity from 16.5 MTPA to 17.5 MTPA. The reduction of the pipe conveyor length from 5.42 km to 4.245 km is based on optimized routing, engineering considerations, environmental impacts, cost efficiency, and alignment with project objectives. This change will enhance the overall effectiveness of the transportation system while adhering to the environmental and engineering standards. Also, the same involves 4.21 ha of forestland and significant amount of time got elapsed in the process of land schedule finalisation, DGPS survey, etc. Forest clearance application was submitted online on 24.11.2024 and the same is under scrutiny at DFO Office Sundargarh. PP submitted that till the time Stage – I FC is accorded on this land, they'll complete the work on their lease area and right after obtaining the Stage – I FC they'll start working on the forestland as well. Since, this is the linear diversion, construction work on the same can be started right after obtaining the Stage – I FC. After due deliberation, Committee opined that the implementation of the said pipe conveyor can be constructed before the time asked by the proponent, hence asked PP to reduce the timeline for the same from June 2027 to December 2026. PP submitted the undertaking that the same shall be completed by December 2026.

12. Committee deliberated on Traffic Impact Assessment report submitted by the proponent and observed that, the coal transportation road from Kulda OCP originates from coal stockyard of Kulda OCP to the truck receiving hopper of Sardega Siding, which is a stretch of 4.1 km. It is a dedicated coal transportation road and no other vehicle other than coal trucks ply on this road. Coal to Sardega Siding is being dispatched through 40T capacity transportation trucks. This coal is discharged to a truck receiving hopper and further transported to Sardega Siding through conveyor belt for next 2 km. Committee observed that total nos of trips of trucks for coal dispatch per day (to and fro) are 822 trips. Committee opined that both sides of the entire coal transportation road shall be planted with native species before the monsoon of 2025.

13. Committee further deliberated on the air quality parameters of the coal transportation road and observed that out of the three CAAQMS, at 2 stations annual data is well within prescribed limit whereas at Gopalpur CAAQMS (Core zone of Siarmal OCP) the annual average of PM₁₀ and PM_{2.5} is a little bit higher to NAAQS standard. PP is taking appropriate mitigation measures to control the dust pollution. Coal is being transported through tarpauline covered trucks. 195 nos. mist type sprinklers, 10 nos. of mobile water tankers (4Kl- 28 Kl), 4 numbers of truck mounted cannons, 8 nos. of trolley mounted fog cannons and 2 nos. of mechanical road sweepers 3 nos. of instant shower systems and 3 nos. of wheel washing units are installed on the CTR to suppress dust pollution. Committee opined that the rain guns shall also be procured for the dust removal from the plantation already developed along the road sides.

14. Committee also deliberated on the noise level monitoring data submitted by the proponent and observed that, noise level of existing project is being monitored regularly and noise levels are found to be within the limits of the prescribed standard.

To control over the impact of road transportation on noise levels, avenue plantation is proposed to be enhanced by the project along with routine maintenance of the trucks.

Committee opined that this avenue plantation proposed by the proponent shall be carried out before the monsoon of 2025.

15. Committee observed that there are no court cases pending on the project.

Recommendations of the Committee:

20.22.12: 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. J-11015/10/1995-IA-II(M) dated 24.05.2022 & its subsequent amendment dated 09/01/2023 & 05/01/2024 as detailed below **subject to stipulation of following additional specific conditions and uploading of written submissions on PARIVESH portal.** Other terms and conditions prescribed in EC dated 24.05.2022, 09.01.2023, and 05.01.2024 shall remain unchanged:

Reference in EC letter dated 05.01.2024	Description as per approved EC letter dated 05.01.2024	Amendment sought in EC	Recommendation of EAC
Specific condition no. 1.3	PP shall implement in-pit conveyor system with silo loading facility till railway siding and No road transportation shall be allowed after December, 2024 till Sardega Siding and after December 2025 for Barpalli loop and accordingly, SPCB shall grant CTO for road transportation.	PP shall implement in-pit conveyor system with silo loading facility till railway siding and No road transportation shall be allowed after December 2026 till Sardega Siding and after December 2025 for Barpalli loop.	Agreed Concerning the changes in specific condition no. 1.3 of EC dated 05.01.2024, Committee recommended to amend specific condition no. 1.3 as follows: “PP shall implement the commissioning of in-pit pipe conveyor system with silo loading facility till the railway siding by December 2026. No road transportation shall be allowed after December 2025 to Barpalli loop and after December 2026 to Sardega Siding.”
Specific condition no. 1.4	PP shall complete the implementation of conveyor system of 5.42 km till railway siding by December, 2024. SPCB shall not grant CTO for non-implementation of In-pit belt conveyor system after December, 2024.	PP shall complete the implementation of conveyor system of 4.245 km till railway siding by December 2026.	Agreed Concerning the changes in specific condition no. 1.4 of EC dated 05.01.2024, Committee recommended to amend specific condition no. 1.4 as follows: “PP shall complete the implementation of the pipe-conveyor of 4.245 km and commission the same till Sardega railway siding by December 2026.”

Additional Specific Conditions:

- i. Ambient Air Quality (AAQ) and Noise quality data along the entire coal transportation route shall be monitored and the data shall be submitted along with the six monthly compliance to the concerned Regional Office and also kept on the web portal of the company.
- ii. All the recommendations made in the Traffic Assessment Study Report regarding coal transportation by road shall be strictly adhered with. PP shall install one CAAQMS along the coal transportation road in consultation with the OSPCB. Compliance in this regard shall be submitted along with the six monthly compliance to the concerned Regional Office and also kept on the web portal of the company.
- iii. Additional air pollution control measures should be taken along roads being used for transport of coal including e-/CNG/LNG vehicles.
- iv. PP shall adopt wildlife protection measures including creating awareness among the drivers, sensitizing the drivers about prevention of road kills and handling of wildlife encounters while driving through forest areas and speed governors must be installed in the coal transporting trucks/dumpers.
- v. Project proponent shall carry out three tier plantation along the coal transportation route during the monsoon season of 2025. Further, PP shall provide 50,000 plant saplings with 4 feet tall fruit bearing plants to farmers for plantation in barren and agriculture lands in the study area every year for 5 years with incentive to improve the green cover in and around the mine lease area. Sufficient nos of rain guns shall be procured for plantation already developed along the road side and other part of the ML area. Compliance in this regard shall be submitted along with the six monthly compliance to the concerned Regional Office and also kept on the web portal of the company.
- vi. Green house emission from the mine operations shall be evaluated and corresponding carbon absorption plan shall be submitted to the concerned RO, MoEF&CC by April, 2025.
- vii. PP shall align its activities to the Sustainable Development Goals (SDG), for which Present status and an action plan shall be submitted to the concerned RO, MoEF&CC by April, 2025.

ANNEXURE-I

GENERIC TOR FOR AN OPEN CAST COAL MINE PROJECT

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

- (xi) Break up of lease/project area as per different land uses and their stage of acquisition should be provided.

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

Sl. No.	Land use	Within MLarea (ha)	OutsideMLarea (ha)	Total
1.	Agriculturalland			
2.	Forestland			
3.	Wasteland			
4.	Grazingland			
5.	Surfacewaterbodies			
6.	Settlements			
7.	Others(specify)			
	TOTAL			

- (xii) Break-up of lease/project area as per mining plan should be provided.
- (xiii) Impact of changes in the land use due to the project if the land is predominantly agricultural land/forest land/grazing land, should be provided.
- (xiv) One-season (other than monsoon) primary baseline data on environmental quality - air (PM₁₀, PM_{2.5}, SO_x, NO_x and heavy metals such as Hg, Pb, Cr,As,etc), noise, water (surface and groundwater), soil - along with one-season met data coinciding with the same season for AAQ collection period should be provided.
- (xv) Map (1: 50, 000 scale) of the study area (core and buffer zone) showing the location of various sampling stations superimposed with location of habitats, other industries/mines, polluting sources, should be provided. The number and location of the sampling stations in both core and buffer zones should be selected on the basis of size of lease/project area, the proposed impacts in the downwind (air)/downstream (surface water)/groundwater regime (based on flow). One station should be in the upwind/upstream/non-impact/non- polluting area as a control station. The monitoring should be as per CPCB guidelines and parameters for water testing for both ground water and surface water as per ISI standards and CPCB classification wherever applicable. Observed values should be provided along with the specified standards.
- (xvi) Study on the existing flora and fauna in the study area (10km) should be carried out by an institution of relevant discipline. The list of flora and fauna duly authenticated separately for the core and study area and a statement clearly specifying whether the study area forms a part of the migratory corridor of any endangered fauna should be given. If the study area has endangered flora and fauna, or if the area is occasionally visited or used as a habitat by Schedule-I species, or if the project falls within 15 km of an ecologically sensitive area, or used as a migratory corridor then a Comprehensive Conservation Plan along with the appropriate budgetary provision should be prepared and submitted with EIA-EMP Report; and comments/observation from the CWLW of the State Govt. should also be obtained and furnished.
- (xvii) Details of mineral reserves, geological status of the study area and the seams to be worked, ultimate working depth and progressive stage-wise working scheme until the end of mine life should be provided on the basis of the approved rated capacity and calendar plans of production from the approved Mining Plan. Geological maps and sections should be included. The Progressive mine development and Conceptual Final

Mine Closure Plan should also be shown in figures. Details of mine plan and mine closure plan approval of Competent Authority should be furnished for green field and expansion projects.

- (xviii) Details of mining methods, technology, equipment to be used, etc., rationale for selection of specified technology and equipment proposed to be used vis- à-vis the potential impacts should be provided.
- (xix) Impact of mining on hydrology, modification of natural drainage, diversion and channeling of the existing rivers/water courses flowing through the ML and adjoining the lease/project and the impact on the existing users and impacts of mining operations thereon.
- (xx) Detailed water balance should be provided. The break-up of water requirement for the various mine operations should be given separately.

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

Table1:Stage-wise Land use and Reclamation Area (ha)

S.N.	LanduseCategory	Present (1 st Year)	5 th Year	10 th Year	20 th Year	24 th Year(end o fminelife)*
1.	Backfilled Area Reclaimed with plantation)					
2.	Excavated Area (not reclaimed)/void					
3.	External OB dump Reclaimed with plantation)					
4.	Reclaimed Top soil dump					
5.	Green Built Area					
6.	Undisturbed area (brought Under plantation)					
7.	Roads (avenue plantation)					
8.	Area around buildings and Infrastructure					
	TOTAL					

*As a representative example

Table2: Stage Wise Cumulative Plantation

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

*As a representative example

(xxxi) Conceptual Final Mine Closure Plan and post-mining land use and restoration of land/habitat to the pre- mining status should be provided. A Plan for the ecological

restoration of the mined out area and post mining land use should be prepared with detailed cost provisions. Impact and management of wastes and issues of re-handling (wherever applicable) and backfilling and progressive mine closure and reclamation should be furnished.

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

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

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

- d. To have proper checks and balances, the company should have a well laid-down system of reporting of non-compliances/ violations of environmental norms to the Board of Directors of the company and/or shareholders or stakeholders at large.
- (xl) Details on Public Hearing should cover the information relating to notices issued in the newspaper, proceedings/ minutes of Public Hearing, the points raised by the general public and commitments made by the proponent and the action proposed with budgets in suitable time frame. These details should be presented in a tabular form. If the Public Hearing is in the regional language, an authenticated English Translation of the same should be provided.
- (xli) Inbuilt mechanism of self-monitoring of compliance of environmental regulations should be indicated.
- (xlii) Status of any litigations/court cases filed/ pending on the project should be provided.
- (xliii) Submission of sample test analysis of Characteristics of coal: This should include details on grade of coal and other characteristics such as ash content, Sand heavy metals including levels of Hg, As, Pb, Cr etc.
- (xliv) Copy of clearances/approvals such as Forestry clearances, Mining Plan Approval, mine closer plan approval. NOC from Flood and Irrigation Dept.(if req.), etc. wherever applicable.

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

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

Annexure – II

GENERIC TORs FOR AN UNDER GROUND COAL MINE PROJECT

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

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

Area under Surface Rights

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

- (ix) Study on the existing flora and fauna in the study area (10 km) should be carried out by an institution of relevant discipline. The list of flora and fauna duly authenticated separately for the core and study area and a statement clearly specifying whether the study area forms a part of the migratory corridor of any endangered fauna should be given. If the study area has endangered flora and fauna, or if the area is occasionally visited or used as a habitat by Schedule-I species, or if the project falls within 15 km of an ecologically sensitive area, or used as a migratory corridor then a Comprehensive Conservation Plan along with the appropriate budgetary provision should be prepared and submitted with EIA-EMP Report; and comments/observation from the CWLW of the State Govt. should also be obtained and furnished.
- (x) Details of mineral reserves, geological status of the study area and the seams to be worked, ultimate working depth and progressive stage-wise working scheme until the end of mine life should be provided on the basis of the approved rated capacity and calendar plans of production from the approved Mining Plan. Geological maps and section should be included. The Progressive mine development and Conceptual Final Mine Closure Plan should also be shown in figures. Details of mine plan and mine closure plan approval of Competent Authority should be furnished for green field and expansion projects.
- (xi) Details of mining methods, technology, equipment to be used, etc., rationale for selection of specified technology and equipment proposed to be used vis-à-vis the potential impacts should be provided.
- (xii) Impact of mining on hydrology, modification of natural drainage, diversion and channelling of the existing rivers/water courses flowing through the ML and adjoining the lease/ project and the impact on the existing users and impacts of mining operations there on.
- (xiii) One-season (other than monsoon) primary base line data on environmental quality-air (PM10, PM2.5, SO_x, NO_x and heavy metals such as Hg, Pb, Cr, As, etc), noise, water (surface and groundwater), soil - along with one-season met data coinciding with the same season for AAQ collection period should be provided.
- (xiv) Map (1: 50, 000 scale) of the study area (core and buffer zone) showing the location of various sampling stations superimposed with location of habitats, other industries/mines, polluting sources, should be provided. The number and location of the sampling stations in both core and buffer zones should be selected on the basis of size of lease/project area, the proposed impacts in the downwind (air)/downstream (surface water)/groundwater regime (based on flow). One station should be in the upwind/upstream/non-impact/non- polluting area as a control station. The monitoring should be as per CPCB guidelines and parameters for water testing for both ground water and surface water as per ISI standards and CPCB classification wherever applicable. Observed values should be provided along with the specified standards.
- (xv) Impact of mining and water abstraction from the mine on the hydrogeology and

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

(xxviii) CSR Plan along with details of villages and specific budgetary provisions (capital and recurring) for specific activities over the life of the project should be given.

(xxix) Corporate Environment Responsibility:

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

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

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

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

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

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

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

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

Annexure - III

LIST OF PARTICIPANTS OF EAC (COAL) IN 20th MEETING HELD ON 20th – 23rd JANUARY 2025, THROUGH PHYSICAL MODE

S. No.	Name & Address	Role	20.01.2025	21.01.2025	22.01.2025	23.01.2025
1.	Shri Inder Pal Singh Matharu, IFS (Retd.)	Chairman	Present	Present	Present	Present
2.	Shri Lalit Kapur	Member	Present	Present	Present	Present
3.	Dr. Umesh Jagannathrao Kahalekar	Member	Present	Absent	Present	Present
4.	Dr. Santosh Kumar Hampannavar	Member	Present	Present	Present	Present
5.	Shri Savalge Chandrasekhar	Member	Present	Present	Present	Absent
6.	Shri K. B. Biswas	Member	Present	Present	Present	Present
7.	Prof. Shyam Shanker Singh	Member	Present	Present	Present	Present
8.	Dr. Vinod Agrawal	Member	Present	Present	Present	Present
9.	Dr Nazimuddin, Scientist - F	Representative of Central Pollution Control Board	Present	Absent	Absent	Absent
10.	Shri Mahi Pal Singh, Chief Engineer	Representative of Central Electricity Authority (CEA)	Present	Present	Present	Present
11.	Shri Harmeet Sahaney	Representative of Indian Meteorological Department (IMD)	Absent	Absent	Absent	Absent
12.	Prof. R M Bhattacharjee	Representative of IIT/ISM Dhanbad	Present	Present	Present	Present
13.	Shri Sundar Ramanathan	Scientist 'F' & Member Secretary	Present	Present	Present	Present
MOEF&CC						
1.	Dr. Rajesh Prasad Rastogi	Scientist 'D'	Present	Present	Present	Present

Approval of Chairman

Re: Day 1 to 4 Draft MoM of EAC - Coal held on 20/01/2025 to 23/01/2025

IS Inderpal Singh Matharu <matharu0204@gmail.com>
Thu, 06 Feb 2025 7:29:21 PM +0530 •
To "Sundar Ramanathan" <r.sundar@nic.in>
Cc "RAJESH PRASAD
RASTOGI" <rp.rastogi@gov.in>, "ia2.coalmining" <ia2.coalmining@gmail.com>

Approved.

On Thu, Feb 6, 2025 at 6:46 PM Sundar Ramanathan <r.sundar@nic.in> wrote:

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