

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

Date of zero draft MoM sent to Chairman: 30/07/2025

Approval by Chairman: 31/07/2025

Uploading on PARIVESH: 31/07/2025

SUMMARY RECORD OF THE TWENTY-NINTH (29TH) MEETING OF EXPERT APPRAISAL COMMITTEE (EAC) HELD ON 22-23RD JULY 2025 FOR ENVIRONMENT APPRAISAL OF COAL MINING SECTOR PROJECTS THROUGH VIRTUAL MODE.

22ND JULY 2025 [TUESDAY]

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

Confirmation of the minutes of the 28th meeting of the EAC (Coal): The minutes of the 28th meeting of the EAC (Coal) held on 30th June 2025 through virtual mode have been confirmed by the EAC, along with the following corrections:

A. Agenda Item No. 28.3:

| Minutes uploaded on PARIVESH | | | | To be read as | | | |
|--|--------------------------------|---------------------------|--|--|--------------------------------|---------------------------|--|
| <u>Para no. 28.3.2:</u> W.r.t. the previous approvals, project proponent submitted the actual production details of the concerned mine and submitted that the mine became operational from February 2010 onwards. CTO renewal has been obtained from the SPCB vide letter no. AWH-61151 and is valid up to 31.12.2025. Details of the same are as follows: | | | | <u>Para no. 28.3.2:</u> W.r.t. the previous approvals, project proponent submitted the actual production details of the concerned mine and submitted that the mine became operational from February 2010 onwards. CTO renewal has been obtained from the SPCB vide letter no. AWH-61151 and is valid up to 31.12.2025. Details of the same are as follows: | | | |
| Year | EC Sanctioned Capacity in MTPA | Actual production in MTPA | Excess production (MTPA) beyond the EC sanctioned capacity | Year | EC Sanctioned Capacity in MTPA | Actual production in MTPA | Excess production (MTPA) beyond the EC sanctioned capacity |
| 2009-10 | 0.1300 | 1.15 | NIL | 2009-10 | 1.15 | 0.1300 | NIL |
| 2010-11 | 0.4800 | 1.15 | NIL | 2010-11 | 1.15 | 0.4800 | NIL |
| 2011-12 | 0.6300 | 1.15 | NIL | 2011-12 | 1.15 | 0.6300 | NIL |
| 2012-13 | 1.1499 | 1.15 | NIL | 2012-13 | 1.15 | 1.1499 | NIL |
| 2013-14 | 1.1499 | 1.15 | NIL | 2013-14 | 1.15 | 1.1499 | NIL |
| 2014-15 | 1.1499 | 2.15 | NIL | 2014-15 | 2.15 | 1.1499 | NIL |
| 2015-16 | 2.0520 | 2.15 | NIL | 2015-16 | 2.15 | 2.0520 | NIL |
| 2016-17 | 2.1500 | 2.15 | NIL | 2016-17 | 2.15 | 2.1500 | NIL |
| 2017-18 | 1.93 | 2.15 | NIL | 2017-18 | 2.15 | 1.93 | NIL |
| 2018-19 | 1.90 | 2.15 | NIL | 2018-19 | 2.15 | 1.90 | NIL |

| Minutes uploaded on PARIVESH | | | | To be read as | | | |
|--|-------|------|-----|---|------|-------|-----|
| 2019-20 | 1.64 | 2.15 | NIL | 2019-20 | 2.15 | 1.64 | NIL |
| 2020-21 | 1.27 | 2.15 | NIL | 2020-21 | 2.15 | 1.27 | NIL |
| 2021-22 | 1.66 | 2.15 | NIL | 2021-22 | 2.15 | 1.66 | NIL |
| 2022-23 | 0.887 | 4.0 | NIL | 2022-23 | 4.0 | 0.887 | NIL |
| 2023-24 | 2.75 | 4.0 | NIL | 2023-24 | 4.0 | 2.75 | NIL |
| 2024-25 | 3.068 | 4.0 | NIL | 2024-25 | 4.0 | 3.068 | NIL |
| 2025 (up to 19.06.2025) | 0.8 | 4.0 | NIL | 2025 (up to 19.06.2025) | 4.0 | 0.8 | NIL |
| Para no. 28.3.14: Additional Specific Condition No. 2: | | | | Para no. 28.3.14: Additional Specific Condition No. 2: | | | |
| Project proponent shall erect the closely spaced pillars to clearly demarcate the land area of 24 Ha reduced from the EC dated 18/02/2022. All officers, supervisors, overman, mate, workers, operators, persons employed in the mine should be made aware about the unutilised land and its boundaries so that there is no disturbance of the same. | | | | This condition stands deleted. | | | |

Agenda item no. 29.1:

29.1: Baranj Opencast Coal Mining Project (area: 1457.2 Ha, with increase in production capacity from 3.5 MTPA to 5 MTPA) by **M/s Karnataka Power Corporation Limited**, located at villages: Baranj Mokasa, Bonthala, Chek Baranj, Chinchordi, Kadholi, Kesurli and Somnala; **District: Chandrapur; State: Maharashtra – Prescribing of Terms of Reference – reg.**

[Online Proposal no. IA/MH/CMIN/543777/2025; Consultant: M/s. Srushti Seva Pvt. Ltd - NABET/EIA/21-24/SA 0229 Valid till 12/08/2025]

29.1.1: M/s Karnataka Power Corporation Limited (KPCL) has made an online application vide proposal no. IA/MH/CMIN/543777/2025 dated 05.07.2025 along with the application in prescribed format (CAF & Form-I), copy of pre-feasibility report and proposed ToRs for undertaking detailed EIA study as per the EIA Notification, 2006 for the project mentioned above. The proposed project activity is listed at Item No. 1(a) under Category “A” of the schedule of the EIA Notification, 2006 and being appraised at Central Level. The project does not attracts General Condition.

Baranj Opencast Coalmine project is proposed for increase in production capacity from 3.5 MTPA to 5 MTPA within the same ML area of 1457.2 Ha, located at villages: Baranj Mokasa, Bonthala, Chek Baranj, Chinchordi, Kadholi, Kesurli and Somnala; District: Chandrapur; State: Maharashtra.

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

29.1.2: Previous approvals in chronological order:

| S. No. | Details of Letter No. | EC/Expansion /Amendment /Validity /Transfer of EC | EC in extension | Capacity (MTPA) | Area (Ha) | Remarks if any |
|--------|---|---|-----------------|-----------------|-----------|---|
| 1 | J-11015/400/2005-IA.II(M) dated 18.05.2006 | EC | | 2.5 | 1457.20 | In the name of earlier Allottee M/s KEMCL |
| 2 | J-11015/400/2005-IA.II(M) dated 06.07.2015 | Transfer of EC | | 2.5 | 1457.20 | Transfer of EC to M/s KPCL |
| 3 | EC Identification No.EC23A001MH110399 dated 11/09/2023 | Expansion EC | | 3.00 | 1457.20 | EC under the provisions of 7(ii) vide OM dated 11.04.2022 |
| 3 | EC Identification No.EC24A0101MH5506020N dated 20/02/2025 | Expansion EC | | 3.50 | 1457.20 | EC under the provisions of 7(ii) vide OM dated 11.04.2022 |

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

Production details:

| Financial Year | Actual Coal Production (MTPA) | Planned Coal production in MTPA as per EC | Excess Production / Remarks |
|---|-------------------------------|---|---|
| 2008-2009 | 0.99 | 2.50 | 0 |
| 2009-2010 | 2.25 | 2.50 | 0 |
| 2010-2011 | 2.27 | 2.50 | 0 |
| 2011-2012 | 2.19 | 2.50 | 0 |
| 2012-2013 | 2.50 | 2.50 | 0 |
| 2013-2014 | 2.50 | 2.50 | 0 |
| 2014-2015 | 2.48 | 2.50 | Coal Block Allocation cancelled in September, 2014 and thereafter there was no any production |
| 2015-2016 | 0.00 | 2.50 | |
| 2016-2017 | 0.00 | 2.50 | |
| 2017-2018 | 0.00 | 2.50 | |
| 2018-2019 | 0.00 | 2.50 | |
| 2019-2020 | 0.00 | 2.50 | |
| 2020-2021 | 0.01 | 2.50 | Production started in March 2021, Excess - Nil |
| 2021-2022 | 1.26 | 2.50 | 0 |
| 2022-2023 | 1.60 | 2.50 | 0 |
| 2023-2024 | 2.50 | 3.00 | EC granted under provision of 7(ii) for 3 MTPA capacity on 11.09.2023, Excess- Nil |
| 2024-2025 | 3.50 | 3.50 | EC granted under provision of 7(ii) for 3.5 MTPA capacity on 20.02.2025, Excess- Nil |
| 2025-2026 (Production till 24.06.2025) | 1.12 | 3.50 | 0 |

29.1.3: 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 20° 6'43" E to 20° 8'59" E and Longitude 79° 5'47" N to 79°8'28" 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 Bhadravati Taluka of Chandrapur District, which does not fall in CEPI area.

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.

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 |

Other Sensitive Receptors:

| Project site proximity to sensitive area | Distance in km (within 5 km from the ML area) | | |
|--|---|-------------------------------|-----------|
| i. Habitation | Habitation (Village) | Distance (km) | Direction |
| | Chek Baranj | Within ML Area | |
| | Baranj Mokasa | Within ML Area | |
| | Bonthala | Adjoining in NE direction | |
| | Somnala | Within ML Area | |
| | Kadholi | 0.5 | W |
| | Kesurli | 1 | SW |
| | Chichordi | Adjoining in NE direction | |
| ii. School | Bhadravati Town | Adjoining in S & SE direction | |
| | Schools | Distance(km) | Direction |

| Project site proximity to sensitive area | Distance in km (within 5 km from the ML area) | | |
|--|---|---|--|
| | Primary School Chek Baranj | | Within The lease |
| | Primary School Baranj Mokasa | | Within the lease |
| | Kendriya Vidyalaya, Ordinance Factory, Bhadravati | 3.5 | E |
| | Bhadravati Public School, Bhadravati | 1.75 | SE |
| | Narayan Vidyalayam Pre Primary School, Bhadravati | 1.80 | SE |
| | Bhadravati Public School, Bhadravati | 1.40 | SE |
| | St Annes High School, Bhadravati | 1.50 | SE |
| | Kramaveer Vidyalaya, Bhadravati | 1.0 | S |
| | Glorious Academy School, Bhadravati | 1.3 | S |
| | Lokmanya Vidaylaya, Bhadravati | 1.25 | S |
| | Z P School, Chichordi Guru Nagar, Chichordi | 1.5 | S |
| | Nilkanthrao Shinde Science Collge, Bhadravati | 1.25 | S |
| | Vivakanad Mahavidayalaya, Bhadravati | 1.5 | S |
| | Gamanai Ashram School | 3.0 | NW |
| | Zila Prathamc Primary Pathsala Kadholi Village | 1.0 | NW |
| | Shri Ram International School, Kadholi Village | 1.0 | W |
| | Zila Prathamc Primary Pathsala, Bonthala | 2.0 | NE |
| | Yashwant Rao Sinde junior college | 1.5 | NW |
| iii. River/ Waterbody | Water body | Distance (Km) | Direction |
| | Three seasonal water Channel | Within ML Area | |
| | Konda Nallah | Along the western boundary of the project area. | |
| | Shirna Nallah | 3.54 | W |
| | Takli Nallah | 2.74 | W |
| iv. Forest | Particulars | Direction | Distance (In km) |
| | Mixed Forest Patches | Falling within mine Lease Area | 0 |
| | Bhandak Reserved Forest | NE | Adjacent to Boundary Extending up to 4.8 |
| | Open Mixed Jungle | E | 4.8 |
| v. Archaeological Survey of India (ASI) protected site | Vijasan- Ancient Caves Located 2.94 km. South West. Bhadravati Fort is located 1.0 km SW. | | |
| vi. Any other | No | | |

Following diversions are proposed for the said project:

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 from the State Government of Maharashtra. 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, a total of nine numbers of power lines are proposed to be diverted after obtaining due permissions in the instant proposal under consideration.

29.1.4: Mining Plan and Mine Closure 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.

- i. Excavation of Coal is through Surface Miner Technology and the waste/OB handling is with shovel/dumper combination/dragline etc.
- ii. Total geological reserves are reported to be 156.91 MT out of which mineable reserves are 127.70 MT and extractable reserves are 104.59 MT. Percentage of extraction is 81.38%.
- iii. There is 1 composite coal seams with thickness ranging from 0.11 m – 13.24 m is workable. Grade of coal is generally G-9, while gradient is generally varying from 1 in 3 to 1 in 11 in the lease area.
- iv. Life of mine is 27 years, as on 01.11.2024.
- v. The project has two external OB dumps in an area of 78.50 ha with 55.0 m height and 50.86 Mm³ of OB (at present). The additional Quantity of 50.82 Mm³ of OB covering an area of 240 ha with maximum height of 60 m thus totaling 101.68 Mm³ of OB in external dump. There are six internal OB in an area of 911.00 ha with 776.06 Mm³ of OB is envisaged in the project.
- vi. Land use details:

a. Pre mining land use pattern:

| 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 pattern:

| S. No. | Type | Total Area | Reclaimed Area | Un- reclaimed area |
|--------------|-------------------------|---------------|----------------|--------------------|
| 1. | Excavation/Quarry Area: | | - | - |
| | (a) Backfilled areas | 911.00 | 911.00 | |
| | (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:
 - a. In Pit to surface: By road
 - b. Surface to Siding: By road (distance covered by road is 7 km)

- c. Siding to loading: By Front end loader
- d. Quantity being transported by Road/ Rail/ Conveyor: Presently 10606 TPD (3.50 MTPA) - 18-22cum tippers are being used for transporting the coal from pit to the surface bunkers. The entire coal produced is dispatched to the Thermal Power Plant of Karnataka Power Corporation Ltd, at Bellary (Karnataka State) by rail. The Railway siding will have an ultimate capacity of stocking (ground storage) 50,000 tonnes of coal from where it will be rehandled by Front End Loaders and loaded in Railway Wagons for onwards for onwards transport to Bellary Thermal Power Plant. Proposed quantity – 15151 TPD.
- 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.

29.1.5: Baseline Data:

| Period | March to May 2025 |
|--|---|
| AAQ parameters at 13 Locations (min and max) | PM _{2.5} = 17.2 To 33.6 µg/m ³ PM ₁₀ = 40.1 To 66.8 µg/m ³ SO ₂ = 12.4 to 20.2 µg/m ³ NO _x = 14.6. To 24.3 µg/m ³ CO = 0.16 To 0.8 mg/m ³ |
| Incremental GLC Level | The incremental values will be determined after numerical Modelling AERMOD and the same will be incorporated in draft EIA/EMP. |
| Ground water quality at 5 (Five) Locations | pH: 7.48 to 7.65, Total Hardness: 192 to 272 mg/l, Chlorides: 263.9 to 384.8 mg/l, Fluoride:0.65 to 0.89 mg/l. Heavy metals: BDL |
| Surface water quality at 5 (five) Locations | pH: 7.28.to 7.84; DO: 4.8.to 6.6 mg/l and BOD: 2 to 4.1 mg/l. COD from 10.2 to 30.2 mg/l |
| Noise levels Leq (Day and Night) | 41.4 to 57.0 dBA for the day time and 38.8. to 47.6 dBA for the Night time. |
| Traffic assessment study findings | Traffic study report will be submitted along with the EIA/EMP report. |
| Flora and fauna | Wild Life Conservation Plan (WLCP) has already been prepared by DFO, Chandrapur and has been approved on 10.01.2023 The necessary demand of Rs 149.57 lakhs raised by Forest department has been deposited on 20.01.2023 |
| Water Requirement | Source of Water: Strata seepage water through the cross drainage along the OB – Benches is guided at the floor of the coal seam and gets accumulated in the Main Mine Sump which act as Primary Settlement Pond. The supernatant water then pumped out from underground is allowed to get settled in settling Tanks on the surface. The treated is then reused for continuous miner operations and other industrial uses. Ground Water Intersection: 4 m bgl Water Requirement: 780 m ³ /day NOC (Ground Water): 486 m ³ /day. Existing NOC for ground water abstraction has been obtained vide no. CGWA/NOC/MIN/REN/1/2025/10503 (valid up to 24.0 8.2026). The CGWA permission for the remaining quantity 294 m ³ /day is yet to be obtained. |

29.1.6: Details of Water Requirement: The water requirement submitted by the PP for the said project is 780 KLD, out of which 386 KLD will be used for industrial use, 50 KLD will be used for domestic use and remaining 50 KLD will be used for other miscellaneous purpose. The source of water shall be groundwater and PP has obtained NoC from CGWA for the same vide no. CGWA/NOC/MIN/REN/1/2025/10503 valid up to 24.08.2026. NoC for remaining 294 KLD is yet to be obtained. Apart from this, PP submitted that, 3 nallas are proposed to be diverted out of which, one has already been diverted by Previous allottee and the remaining two shall be diverted after obtaining due permissions from competent authority.

29.1.7: Details of Power Requirement and diversion of High-Tension/Transmission Line: The estimated connected load and maximum demand for the project for the targeted production of 5.0 MTY comes to the tune of approximately 6 MVA (max.) with Sector-A (Baranj-II1 group) using 1400 KVA, Sector-B (Baranj-I group) using 2164 KVA, S00KVA used each for pumping & workshop and 630KVA for colony. To meet the above power demand, one main sub-station of capacity 33/3.3 kV, 2x1.5 MVA for Baranj-111 group and another substation of capacity 33/3.3 kV, 2x2.S MVA for Baranj-I has been envisaged for catering to the power demand.

There are 12 No's of various capacity power lines passing through the block. These include 400KV Double Circuit (D/C) – Bhilali to Chandrapur of the Power Grid Corporation, 220KV D/C, 33 KV, 66 KV of Chandrapur – Warora Lines of MSEB which is already diverted and other power lines with capacity of 33 KV(4 nos.) and 11KV (4 nos.) Single Circuits (S/C) which will need to be diverted. As such a total of nine no. of power lines are proposed to be diverted after obtaining due permissions in the instant proposal under consideration.

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

| S. No. | Type of Waste | Source | Quantity (TPA) | Mode of Treatment | Disposal | Remarks |
|--------|---------------|-----------------|----------------|--|----------|-----------------------------|
| 1 | Oil & grease | Workshop, Store | 30 | Oil & grease trap | By road | Through authorized recycler |
| 2 | Over Burden | Excavation | 22.5 | Internal backfilling of decoaled voids, stacking in external dumps and proposed for crushing to prepare M Sand | | |

29.1.9: 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 8,44,000 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.

29.1.10: Rehabilitation & Resettlement Plan: The mining block includes land from seven villages viz: Chek Baranj, Baranj Mokasa, Somnala, Bonthala, Kadholi, Kesurli, and Chichordi. Among these, within the scope of this expansion proposal, only Chek Baranj, Baranj Mokasa, and Chichordi are required for Rehabilitation and Resettlement (R&R). The R&R activities of said village are currently under progress.

29.1.11: Project Cost: The capital cost of the project (including proposed expansion) is Rs. 996.97 Crores.

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

29.1.13: Undertaking/ Affidavit: PP submitted vide an undertaking that, the information provided in Form-1. in pdf format in PARIVESH, to the Ministry/EAC members have no deviation in respect of the proposal no. IA/MH/CMIN/543777/2025 dated 05-07-2025 for grant of ToR for Baranj Opencast Mining Project having 1457.20 ha of ML area/Project area and proposed for expansion in capacity from 3.50 MTPA to 5.00 MTPA located at village Somnala, Bonthala, Chek Baranj, Kadholi, Kesurli, Chichordi & Baranj Mokasa Villages in Bhadravati Tehsil of Chandrapur District, in Maharashtra State. 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 ToR.

Further, PP submitted an Affidavit that, there is no construction done at the site or the construction done without any deviation as per previous EC obtained. There is no litigation on the project on environmental matters either at NGT or any other court of Law. The land has been allotted by in favour of M/s KPCL. The land is in our possession and there are R&R issue (3 villages) and currently in progress. There is no difference in the documents submitted i.e., Form 1, PFR and presentation being made to the EAC. The application is submitted for obtaining ToR leading to prior Environmental Clearance for expansion in production capacity as per provisions of EIA Notification 2006 under Category A.

Deliberations and Observation of the Committee:

29.1.14: The Committee 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 under the provisions of EIA Notification, 2006. Thereafter, proponent obtained EC for first 20% and second phase of 20% expansion in production capacity as per the provisions of Ministry's OM dated 11.04.2022 vide EC letter dated 11.09.2023 and 20.02.2025.
2. The above EC is under implementation and the proponent has achieved the production capacity of 3.50 MTPA in the FY 2024-25.

3. The instant proposal under consideration is for grant of terms of reference for increase in production capacity from 3.5 MTPA to 5 MTPA, within the same ML area of 1457.2 Ha for undertaking EIA/EMP study.
4. The EAC took into consideration the project site through KML file on the Google Earth presented by the project proponent along with DSS of the project site on PARIVESH.
5. Project does not fall in the Critically Polluted Area (CPA)/ Severely Polluted Area (SPA), as per CEPI Assessment, 2018. 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 does not fall in CEPI area.
6. The project is not located within 10 KM of any ESZ/ ESA/ national park/ wildlife sanctuary/ biosphere reserve/ tiger reserve/ elephant reserve/ tiger corridor/ elephant corridor etc. 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.
7. 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.
8. 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.
9. Excavation of Coal is through Surface Miner Technology and the waste/OB handling is with shovel/dumper combination/dragline etc.
10. Total geological reserves are reported to be 156.91 MT out of which mineable reserves are 127.70 MT and extractable reserves are 104.59 MT. Percentage of extraction is 81.38%.
11. There is 1 composite coal seams with thickness ranging from 0.11 m – 13.24 m is workable. Grade of coal is generally G-9. Life of mine is 27 years, as on 01.11.2024.
12. The project has two external OB dumps in an area of 78.50 ha with 55.0 m height and 50.86 Mm³ of OB (at present). The additional quantity of 50.82 Mm³ of OB covering an area of 240 ha with maximum height of 60 m thus totaling 101.68 Mm³ of OB in external dump. There are six internal OB in an area of 911.00 ha with 776.06 Mm³ of OB is envisaged in the project. Committee opined that the area of OB dump is higher and can be reduced by increasing the height of the OB dumps. Committee suggested to accordingly modify the mine plan in order to make optimum utilization of land.
13. During the deliberation Committee observed that PP has submitted another Mine Plan and Mine Closure Plan to Ministry of Coal, GoI for approval, with no major changes in the existing Mine Plan. Committee opined that, in case there are changes in any factual information as per the newly approved Mine Plan and Mine Closure Plan, PP shall seek amendment in ToR accordingly and then only submit the application for EC.

14. Committee further deliberated on the mode of transportation proposed for the said project and observed that, The entire coal produced is dispatched to the Thermal Power Plant of Karnataka Power Corporation Ltd, at Bellary (Karnataka State) by rail. From surface to siding, the coal is transported through road, at a distance of 7 km. Committee opined that the PP shall make adequate provisions for the control of air pollution which will be caused due to road transportation of coal. Special emphasis shall be given on the plantation activities along the coal transportation road.
15. Committee deliberated on the baseline data submitted by the proponent and observed all the parameters within the permissible limits.
16. Committee observed that the water required for the project is 780 KLD, out of which 386 KLD will be used for industrial use, 50 KLD will be used for domestic use and remaining 50 KLD will be used for other miscellaneous purpose. The source of water shall be groundwater and PP has obtained NoC from CGWA for the same vide no. CGWA/NOC/MIN/REN/1/2025/10503, valid up to 24.08.2026. NoC for remaining 294 KLD is yet to be obtained.
17. 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.
18. Committee opined that PP shall submit an integrated watershed management plan along with the application for environment clearance.
19. Committee opined that PP shall carryout ecosystem services study through some NABET accredited institute and submit the action plan on the recommendations of the same along with the application for Environment Clearance.
20. Committee also opined that PP shall carryout hydrological study through some NABET accredited institute and submit the action plan on the recommendations of the same along with the application for Environment Clearance.
21. Committee also observed that a 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, Committee observed that, there are 12 nos of various capacity power lines passing through the coal block. Out of which 9 nos. of such power lines are proposed to be diverted with the due permission of competent authority.
22. Committee further observed that 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, a team of ASI Officials have conducted the site visit on 11.12.2024 & 21.01.2025. NOC is awaited and shall be submitted immediately after its receipt. Committee opined that the ASI clearance shall be submitted along with the application for environment clearance.
23. 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.

24. Committee observed that, as per the information submitted by the PP, in the expansion proposal the villages proposed to be rehabilitated are only Chek Baranj, Baranj Mokasa, and Chichordi and R&R activities for the said villages is under process.
25. The capital cost of the project (including proposed expansion) is Rs. 996.97 Crores.
26. PP reported that there is no legal issue/violation w.r.t i) Environment (Protection) Act, ii) Air (P&CP) Act, Water (P&CP), Act, Forest Conservation Act, Wildlife Protection Act, CRZ Notification, MMDR Act, Factories Act. Further, there is no court case on the project.
27. Committee opined that PP shall align its activities with the sustainable development goals.
28. EAC opined that there should be a site visit by the Sub-committee of EAC to see the various environmental issues pertaining to the instant project before consideration of EC proposal.

Recommendations of the Committee:

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

1. Project Proponent shall seek amendment in ToR if any arising out from the mining plan to be approved by the Ministry of Coal.
2. Project Proponent shall submit the drone video & photographs of the ML area and transportation route proposed for this project with special focus on the sensitive receptors in the ML area and in the transportation route.
3. Project proponent shall prepare integrated Watershed management plan for the nallahs proposed to be diverted through a reputed institutions having NABET accreditation. Project proponent shall submit the same along with the matrix containing action plan to comply with the recommendations of the study report with physical & financial outlay.
4. Project proponent shall explore the feasibility to decrease the area of OB dump and simultaneously increase the height of the same. Accordingly the mine plan shall be modified and in case there are changes in the factual information of the mine, PP shall seek ToR amendment for the same.
5. Project proponent shall obtain NoC from CGWA for remaining 294 KLD water requirement.
6. Project proponent shall obtain the permission from the concerned authority of Maharashtra for diversion of Nallah 2&3 and 9 number of Power lines.

7. Project proponent shall carryout eco – system services for the water bodies, present within and in close vicinity of the ML area, through some NABET accredited institute.
8. Project proponent shall carryout hydrological study through some NABET accredited institute and submit the action plan on the recommendations of the same along with the application for Environment Clearance.
9. Project proponent shall submit the ASI clearance for the Bhadrawati Fort and Vijasan Ancient Caves (archaeological site) located at the distance of 1 km and 2.94 km from the project site.
10. The plan for plantation shall separately be made for road side plantation with native species. A plan for distribution of 50,000 plants mainly fruit bearing species to the local villagers and farmers till the end of life of mine shall be made along with the budgetary provision for yearly incentive for 5 years to them to support the survival of those plants.
11. Necessary coordination shall be made with concerned SPCB (who is responsible for Compliance of OM dated 14.01.2025) regarding streamlining the implementation of GSR 702 and GSR 703 dated 12.11.2024 through which projects requiring prior EC were exempted from requirement of CTE.
12. Certified compliance report for the existing ECs as per MoEF&CC O.M. dated 08/06/2022 shall be submitted.
13. 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.
14. A Cumulative Environmental Impact Assessment study of all the coal mines situated adjacent to the mine lease area shall be conducted and the same shall be included in the EIA/EMP report. Details of industrial units present in 10 Km radius of the ML area shall be earmarked in map and submitted.
15. Project proponent shall prepare the EIA-EMP report and thereafter conduct the Public Consultation, including public hearing, through concerned SPCB in the Chandrapur District as per the provisions/procedure contained in the EIA Notification, 2006.
16. PP shall submit the EIA/EMP report after the plagiarism check using authenticated plagiarism software.
17. Project Proponent should clearly bring out that what is the specific diesel consumption ~ (Liters/Tonne of total material handled) and steps to be taken for reduction of the same. The year-wise target for reduction in the specific diesel consumption needs to be submitted. PP shall also explore the possibility of using e-vehicles/LPG/CNG-based machinery and trucks for the operation and transportation of coal.
18. Details on renewable energy proposed to be installed as energy conservation measures shall be submitted.
19. PP shall submit the action plan to adhere to the Plastic Waste Management Rules 2016 and to adhere Ministry's OM dated 18/07/2022.
20. A site visit is proposed before EC regarding OB dumps, green belt created so far in

the ML area and also in the safety zone area.

Agenda item no. 29.2:

29.2: Ramagundam Opencast-I Coal Mine Project Expansion- Phase-II (area: 923.88 Ha having production capacity of 5.3 MTPA) by M/s Singareni Collieries Company Limited, located at villages: Nagepalli, Mandal Ramagiri; District: Peddapalli; State: Telangana – Amendment in Environment Clearance – reg.

[Online Proposal no. IA/TG/CMIN/542494/2025; Consultant: Environment Protection & Training Research Institute – NABET/EIA/24-27/RA0337 valid up to 21.01.2027]

29.2.1: The instant proposal is for amendment in Environment Clearance granted to M/s Singareni Collieries Company Limited (SCCL) accorded vide letter no. 23-71/2018-IA (III), dated 16.01.2023, for Ramagundam Opencast-I Coal Mine Project Expansion- Phase-II (area: 923.88 Ha having production capacity of 5.3 MTPA), located at villages: Nagepalli, Mandal Ramagiri; District: Peddapalli; State: Telangana.

29.2.2: 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 | Ramagundam Opencast -I Coal Mine Project: No. J-11015/142/2005-IA.II(M) | EC | 1.5 | 710.13 | 11.09.2006 | Implemented |
| | Ramagundam Opencast -I Coal Mine Expansion Project-Phase-II: No. J-11015/534/2007.IA.II(M), | EC Expansion | From 1.50 to 3.0 (peak 3.30) | 923.88 | 31.07.2008 | Implemented |
| | Ramagundam Opencast -I Coal Mine Expansion Project-Phase-II: F.No. 23-71/2018-IA (III) and EC Identification No. EC23A042TG157307 | EC Expansion under violation category [S.O. 804 (E) dated 14/03/2017] | From 3.30 to 5.30 | | 16.01.2023 | Being implemented |

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

29.2.3: W.r.t the previous approvals, the actual production details of the mine since 1993-94 is furnished below and CTO renewal has been obtained from the SPCB on 19.01.2023 and is valid up to 31.03.2026:

| Year | EC sanctioned capacity (MTPA) | Actual production (MTPA) | Excess production beyond the EC sanctioned capacity (MTPA) |
|---------|-------------------------------|--------------------------|--|
| 1993-94 | 3.3 | 2.33 | 0.00 |
| 1994-95 | 3.3 | 2.20 | 0.00 |
| 1995-96 | 3.3 | 2.33 | 0.00 |
| 1996-97 | 3.3 | 2.32 | 0.00 |
| 1997-98 | 3.3 | 2.06 | 0.00 |
| 1998-99 | 3.3 | 2.34 | 0.00 |

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

29.2.4: Certified Compliance Report: The Regional Office, Hyderabad vide letter dated 19.06.2025, issued a monitoring report on the status of compliance of conditions stipulated in the EC letter dated 11.09.2006, 31.07.2008 and 16.01.2023, 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.

29.2.5: Details regarding amendment sought in EC dated 16.01.2023:

I. Brief of EC dated 16.01.2023:

MoEF&CC has accorded EC for expansion of project from 3.30 MTPA to 5.30 MTPA under the violation category based on Ministry's Notification dated 14.03.2017, vide file no. 23-71/2018-IA (III), dated 16.01.2023. 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 (RP & NCRAP).

- i. EAC recommended an amount of Rs. 162.00 Lakh towards Remediation plan and Rs 205 Lakh towards Natural and Community Resource Augmentation plan, which should be spent within a span of 2 years. The details of Remediation plan, Natural resource Augmentation plan and Community Resource Augmentation plan with budgetary provision are mentioned below:

A. Remediation plan along with the action plan with a budget of Rs. 162.00 lakhs.

| S. No | Component | Activity | Item description | Location | Unit Rate in Rs. | Qty. | Cost | Year I | Year II |
|-------|-----------|----------|------------------|----------|------------------|------|------|--------|---------|
|-------|-----------|----------|------------------|----------|------------------|------|------|--------|---------|

| | | | | | | | In Rs. lakh | | |
|---------------|----------------------|-------------------|--|---|------------------|----------------------|-------------|-------|-------|
| 1a | Air, Noise & Ecology | Dust Suppression | Providing Wind Barrier/ Greenbelt of 8m height for RG OCP-1 CHP | RG OCP-1 CHP | 30,00,000/ 100 m | 400 m | 120.0 | 60.00 | 60.00 |
| 1b | | Avenue Plantation | Plantation of total 3,000 nos. of native plants at Rs. 1000 per sapling including maintenance for 3 years in nearby villages | In surrounding villages: •Julapalli •Mulakalapalli •Pannuru •Nagepalli •Ratnapur | 1,000/one plant | 4,200 nos. of plants | 42.00 | 21.00 | 21.00 |
| Sub-Total (A) | | | | | | | 162.0 | 81.0 | 81.0 |

B. Natural and Community Resource Augmentation Plan:

Natural Resource Augmentation Plan

| Sl. No | Activity | Description | Location | Unit Rate in Rs. | Qty. | In Rs. lakh | | |
|----------------------|--------------------------|---|--|--------------------|---------|--------------|--------------|--------------|
| | | | | | | Cost | Year I | Year II |
| 2a | Ground Water Recharge | Providing Rain Water Harvesting Pits (2.5 m × 2.5 m × 2 m size) in surrounding villages and in SCCL lease area. | In surrounding villages: • Julapalli • Mulakalapalli • Pannuru • Nagepalli • Ratnapur | 2,00,000/one unit | 20 nos. | 40.00 | 20.00 | 20.00 |
| 2b | | Construction of two nos. of check dams across Bokkala vagu. | Across Bokkala vagu | 15,00,000/one unit | 2 nos. | 30.00 | 15.00 | 15.00 |
| 3b | Green Energy Initiatives | Providing 30 W Pole mounted Solar Street Lights (complete set) in nearby villages @ Rs. 28,000 per unit with three years maintenance. | In surrounding villages: •Julapalli •Mulakalapalli •Pannuru •Nagepalli •Ratnapur | 28,000/ one unit | 81 nos. | 22.68 | 11.34 | 11.34 |
| Sub-Total (B) | | | | | | 92.68 | 46.34 | 46.34 |

Community Resource Augmentation Plan

| Sl. No | Activity | Description | Location | Unit Rate in Rs. | Qty. | In Rs. Lakh | | |
|----------------------|-------------------------------|-------------------|--|--------------------------------|---------|---------------|--------------|--------------|
| | | | | | | Cost | Year I | Year II |
| 3 | Development of infrastructure | Laying of CC Road | •Julapalli (1.0 Km) •Ratnapur (1.25 Km) | Rs. 50 lakh/km (width: 10 ft.) | 2.25 km | 112.32 | 60.00 | 52.32 |
| Sub-Total (C) | | | | | | 112.32 | 60.00 | 52.32 |

| Sl. No | Activity | Description | Location | Unit Rate in Rs. | Qty. | Cost | Year I | Year II |
|----------------------------|----------|-------------|----------|------------------|------|---------------|--------------|---------------|
| | | | | | | In Rs. Lakh | | |
| Grand – Total (B+C) | | | | | | 205.00 | 92.68 | 112.32 |

Total amount of RP& NCRAP is worked out to be INR 367 Lakhs

- ii. Remediation Plan and Natural & Community Resource Augmentation Plan (RP&NCRAP) works shall be completed and bank guarantee, submitted to TGPCB, will be released after successful implementation of RP&NCRAP and after recommendation by Regional Office of the Ministry, EAC 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 Remediation Plan, Natural and Community Resource Augmentation Plan 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 dated 19.06.2025 |
|----------------------------------|--|-------------------------------|---|--|
| | Activities | Allocated Fund (Rs. In Lakhs) | Expenditure incurred (Rs. In Lakhs) | |
| Air, Noise & Ecology | Dust suppression - Providing Wind Barrier / Greenbelt of 8m height for RG OCP-I CHP. | 120.00 | 140.057 | Complied Construction of wind barrier and Greenbelt of 8m height at RG OCP-I CHP for a length of 400 m completed and spent amount of Rs. 140.05 Lakhs. |
| | Avenue Plantation - Plantation of total 3,000 nos. of native plants at Rs.1000 per sapling including maintenance for 3 years in Julapalli, Mulkalpalli, Pannur, Nagepalli and Ratnapur villages. | 42.00 | 45.708 | Complied Plantation of 3000 plants with native species completed in all villages. Spent amount of Rs. 45.708 Lakhs. |
| Total of Remediation Plan | | 162.00 | 185.765 | |

Natural Resource Augmentation Plan with budgetary provisions:

| 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) | |

| 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) | |
| Ground Water Recharge | Providing rainwater harvesting pits (2.5 m x 2.5 m x 2 m size) in Julapalli, Mulkalpalli, Pannur, Nagepalli and Ratnapur villages and in SCCL lease area. | 40.00 | 46.470 | Complied Construction of 20 rainwater harvesting pits completed in all villages. Spent amount of Rs. 46.47 Lakhs. |
| | Construction of two nos. of check dams across Bokkala Vagu. | 30.00 | 30.024 | Complied Constructed 2 nos. of check dams across Bokkala vagu. Spent an amount of Rs.30.02 Lakhs. |
| Green Energy initiatives | Providing 30 w pole mounted solar lights (complete set) in Julapalli, Mulkalpalli, Pannur, Nagepalli and Ratnapur villages @ Rs.28,000 per unit with three years maintenance. | 22.68 | 25.266 | Complied Erection of 81 nos. of 30 W pole mounted solar lights completed in all villages. Spent amount of Rs. 25.26 Lakhs. |
| Total of Natural Resource Augmentation Plan | | 92.68 | 101.750 | |

Community Resource Augmentation Plan:

| 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) | |
| Development of infrastructure | Laying of CC Road in Julapalii (1.0 km) and Ratnapur (1.2) villages | 112.32 | 112.314 | Complied Laying of CC Road at Julapalli Village for a length of 1.0 km and at Ratnapur for a length of 1.25 km completed. Spent amount of Rs.112.314 Lakhs. |
| Total of Community Resource Augmentation Plan | | 112.32 | 112.314 | |

IV. Amendment sought in the EC dated 16.01.2023:

| Conditions as per EC dated 16.01.2023 | Description as per approved EC dated 16.01.2023 | Details of amendment sought | Justification |
|---------------------------------------|---|-----------------------------|---------------|
| | | | |

| | | | |
|------------------------------|---|--|---|
| Specific condition no.4 (i) | EAC recommended an amount of Rs.162.00 Lakh towards Remediation plan and Rs. 205 Lakh towards Natural and Community Resource Augmentation Plan, which should be spent within a span of 2 years. The details of Remediation plan, Natural Resource Augmentation Plan and Community Resource Augmentation Plan with budgetary provision are mention above. | All the RP and NCRAP works completed with budgetary provision of Rs.185.76 Lakhs and Rs.214.07 lakhs respectively. Hence, an amendment is sought for this condition. | All the Remediation plan and Natural and Community Resource Augmentation Plan works have been completed. The same have been verified and certified by the Sub-office of MoEF&CC, Hyderabad in the CCR dated 19.06.2025. |
| Specific condition no.4 (ii) | Remediation plan shall be completed within two years from date of issue of EC only, whereas bank guarantee shall be for 3 years. The bank guarantee submitted by PP vide no 0416822BG0000560 dated 17.11.2022 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. | Request for release of bank guarantee submitted to TGPCB. | All the Remediation plan and Natural and Community Resource Augmentation Plan works have been completed. The same have been verified and certified by the Sub-office of MoEF&CC, Hyderabad in the CCR dated 19.06.2025. |

29.2.6: Details of court cases: There are no court cases pending on the project.

Observations and deliberation of the Committee:

29.2.7: The EAC noted the following:

1. MoEF&CC has initially granted EC to M/s Singareni Collieries Company Limited (SCCL), vide letter no. J-11015/142/2005-IA.II(M), dated 11.09.2006, for the production capacity of 1.5 MTPA, within the ML area of 710.13 Ha. Further issued another EC vide letter no. J-11015/534/2007-IA.II(M), dated 31.07.2008 for the production capacity of 3.30 MTPA within the ML area of 923.88 Ha for Ramagundam Opencast-I Coal Mine Project Expansion- Phase-II located at villages: Nagepalli, Mandal Ramagiri; District: Peddapalli; State: Telangana.
2. Later, MoEF&CC accorded another EC vide letter no. 23-71/2018-IA (III), dated 16.01.2023, under violation category for the increased production capacity of 5.30 MTPA for Ramagundam Opencast-I Coal Mine Project Expansion- Phase-II.
3. The project is implemented and the mine is under operation.
4. The instant proposal is now placed before the EAC for seeking amendment in conditions pertaining to release of bank guarantee deposited for implementation of Remediation Plan (RP) and Natural and Community Resource Augmentation Plan (NCRAP) and release of bank guarantee.

5. It is observed that as per the specific condition no. 4(i) and 4(ii), of Environment Clearance dated 16.01.2023, “EAC recommended an amount of Rs. 162.00 Lakh towards Remediation plan and Rs. 205 Lakh towards Natural and Community Resource Augmentation Plan, which should be spent within a span of 2 years. The details of Remediation Plan, Natural Resource Augmentation Plan and Community Resource Augmentation Plan with budgetary provision are mention above” and “Remediation plan shall be completed within two years from date of issue of EC only whereas bank guarantee shall be for 3 years. The bank guarantee submitted by PP vide no 0416822BG0000560 dated 17.11.2022 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” respectively.
6. 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.
The amount actually spent by the proponent is Rs. 399.829 Lakhs, while the amount allotted by the Ministry was Rs. 367 Lakhs. Committee observed that, the amount actually spent by the proponent is Rs. 32.829 Lakhs more than that allotted by the Ministry. The Committee is of the opinion that, PP shall carry out regular maintenance of the developments done as part of RP and NCRAP.
7. Committee also deliberated on the certified compliance report obtained by the PP from the Ministry’s RO, vide letter dated 19.06.2025. As per the said report, the PP has spent a total of Rs. 399.829 Lakhs on the implementation of Remediation plan and Natural and Community Resource Augmentation plan (RP & NCRAP) and all the activities have been implemented. Committee also observed that the said RP & NCRAP was supposed to be implemented within a period of 2 years from 16.01.2023 and the bank guarantee was to be deposited for 3 years from 17.11.2022. Committee observed that the PP had completed the implementation of RP & NCRAP within the validity period of bank guarantee.

Recommendations of the Committee:

29.2.8: 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. 23-71/2018-IA (III), dated 16.01.2023 as detailed below:

| Conditions as per EC dated 16.01.2023 | Description as per approved EC dated 16.01.2023 | Recommendation of EAC |
|---------------------------------------|---|---|
| Specific Condition No 4(i) | EAC recommended an amount of Rs. 162.00 Lakh towards Remediation plan and Rs 205 Lakh towards Natural and Community Resource Augmentation plan, which should be spent within a span of 2 years. The details of Remediation plan, Natural resource Augmentation plan and Community Resource Augmentation plan with budgetary provision are mention above | Activities envisaged under Remediation Plan (RP) and Natural and Community Resource Augmentation Plan (NCRAP) has been completed with a financial out lay of Rs. 399.829 Lakhs and the same has been mentioned in Certified Compliance Report (CCR) dated 19.06.2025 of RO, MoEF&CC, Hyderabad. |

| Conditions as per EC dated 16.01.2023 | Description as per approved EC dated 16.01.2023 | Recommendation of EAC |
|---------------------------------------|--|---|
| Specific Condition No 4(ii) | Remediation plan shall be completed within two years from date of issue of EC only whereas bank guarantee shall be for 3 years. The bank guarantee submitted by PP vide no 0416822BG0000560 dated 17.11.2022 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. | Remediation plan and the natural and community resource augmentation plan has been completed. The bank guarantee submitted by the PP vide no. 0416822BG0000560 dated 17.11.2022, shall be released as the Remediation Plan and Natural and Community Resource Augmentation Plan has been successfully implemented and the same has been certified by the Regional office of the Ministry. |

Agenda item no. 29.3:

29.3: Cluster of Godavarikhani No. 1&3 Inclines (0.486 MTPA in 541.66 Ha), Godavarikhani No. 2&2A Inclines (0.648 MTPA in 282.76 Ha) and Godavarikhani No.5 Incline (0.6 MTPA in 532.43 Ha) with overall production capacity of 1.734 MTPA in total mine lease area of 1356.85 Ha by **M/s Singareni Collieries Company Limited** located in villages: Janagaon, MusthyaIa, Jallaram, Sundilla, Mandal Ramagundam; **District: Peddapalli; State: Telangana – Amendment in Environment Clearance – reg.**

[Online Proposal no. IA/TG/CMIN/541204/2025; Consultant: Environment Protection & Training Research Institute – NABET/EIA/24-27/RA0337 valid up to 21.01.2027]

29.3.1: The instant proposal is for amendment in Environment Clearance granted to M/s Singareni Collieries Company Limited (SCCL) accorded vide letter no. 23-78/2018-IA.III(V), dated 13.11.2020 for Cluster of Godavarikhani No. 1&3 Inclines, Godavarikhani No. 2&2A Inclines and Godavarikhani No.5 Incline Underground project located at villages: Janagaon, MusthyaIa, Jallaram, Sundilla, Mandal Ramagundam; District: Peddapalli; State: Telangana.

29.3.2: 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 (Ha) | Date of issuance of EC | Status of implementation |
|--------|-------------------------------|--|-----------------|-----------|------------------------|--------------------------|
| 1 | File No. 23-78/2018-IA.III(V) | EC under violation category (UG project) | 1.734 | 1356.85 | 13.11.2020 | Implemented |

CTO was obtained vide Order no. 210523059666, dated 02.07.2021 valid up to 31.03.2026.

| Year | Actual Production (MTPA) | | | EC capacity in MTPA | Excess production (MTPA) | | |
|-------------|--------------------------|----------|-------|--|--------------------------|----------|-------|
| | GDK 1&3 | GDK 2&2A | GDK 5 | | GDK 1&3 | GDK 2&2A | GDK 5 |
| 1993 - 94 | 0.344 | 0.450 | 0.360 | No EC. Mines were operated on 1993-94 base level | -- | -- | -- |
| 1994 - 95 | 0.393 | 0.486 | 0.324 | | 0.049 | 0.036 | -- |
| 1995 - 96 | 0.349 | 0.384 | 0.267 | | 0.005 | -- | -- |
| 1996 - 97 | 0.379 | 0.427 | 0.300 | | 0.035 | -- | -- |
| 1997 - 98 | 0.351 | 0.386 | 0.301 | | 0.007 | -- | -- |
| 1998 - 99 | 0.371 | 0.415 | 0.290 | | 0.027 | -- | -- |
| 1999 - 2000 | 0.367 | 0.386 | 0.308 | | 0.023 | -- | -- |
| 2000 - 01 | 0.406 | 0.427 | 0.331 | | 0.062 | -- | -- |

| Year | Actual Production (MTPA) | | | EC capacity in MTPA | Excess production (MTPA) | | |
|-----------|--------------------------|----------|-------|---|--------------------------|----------|-------|
| | GDK 1&3 | GDK 2&2A | GDK 5 | | GDK 1&3 | GDK 2&2A | GDK 5 |
| 2001 - 02 | 0.375 | 0.395 | 0.405 | production till 2019-20. | 0.031 | -- | 0.045 |
| 2002 - 03 | 0.343 | 0.327 | 0.443 | | -- | -- | 0.083 |
| 2003 - 04 | 0.300 | 0.310 | 0.478 | | -- | -- | 0.118 |
| 2004 - 05 | 0.338 | 0.325 | 0.462 | | -- | -- | 0.102 |
| 2005 - 06 | 0.304 | 0.306 | 0.512 | | -- | -- | 0.152 |
| 2006 - 07 | 0.162 | 0.307 | 0.363 | | -- | -- | 0.003 |
| 2007 - 08 | 0.271 | 0.368 | 0.443 | | -- | -- | 0.083 |
| 2008 - 09 | 0.298 | 0.367 | 0.478 | | -- | -- | 0.118 |
| 2009 - 10 | 0.307 | 0.451 | 0.501 | | -- | 0.001 | 0.141 |
| 2010 - 11 | 0.342 | 0.550 | 0.485 | | -- | 0.100 | 0.125 |
| 2011 - 12 | 0.264 | 0.452 | 0.437 | No EC. Mines were operated on 1993-94 base level production till 2019-20. | -- | 0.002 | 0.077 |
| 2012 - 13 | 0.272 | 0.467 | 0.495 | | -- | 0.017 | 0.135 |
| 2013-14 | 0.290 | 0.364 | 0.475 | | -- | -- | 0.115 |
| 2014-15 | 0.287 | 0.339 | 0.443 | | -- | -- | 0.083 |
| 2015-16 | 0.255 | 0.338 | 0.382 | | -- | -- | 0.022 |
| 2016-17 | 0.228 | 0.292 | 0.303 | | -- | -- | -- |
| 2017-18 | 0.236 | 0.312 | 0.310 | | -- | -- | -- |
| 2018-19 | 0.210 | 0.294 | 0.290 | | -- | -- | -- |
| 2019-20 | 0.214 | 0.283 | 0.018 | | -- | -- | -- |
| 2020-21 | 0.124 | 0.197 | 0.000 | 1.734 | -- | -- | -- |

Subsequently, another EC (OC cum UG) was obtained by converting Godavarikhani No.5 Incline underground mine into opencast and continuing Godavarikhani No.1&3 Inclines and Godavarikhani No. 2&2A Inclines as underground mines on 01.12.2021 with increase in production capacity from 1.734 MTPA to 5.134 MTPA (OC:4.00 MTPA, UG:1.134 MTPA) and increase in project area from 1356.85 ha to 1927.13 ha under the name of cluster of Godavarikhani No.1&3 incline and Godavarikhani coal Mine (No.2&2A and No.5).

| Year | Actual Production (MTPA) | | | Total | EC capacity in MTPA | Excess production (MTPA) | | |
|---------|--------------------------|----------|--------------------|-------|---------------------|--------------------------|----------|--------------------|
| | GDK 1&3 | GDK 2&2A | GDK Coal Mine (OC) | | | GDK 1&3 | GDK 2&2A | GDK Coal Mine (OC) |
| 2021-22 | 0.171 | 0.273 | 0.412 | 0.856 | 5.134 | -- | -- | -- |
| 2022-23 | 0.183 | 0.240 | 3.460 | 3.883 | 5.134 | -- | -- | -- |
| 2023-24 | 0.168 | 0.214 | 3.500 | 3.882 | 5.134 | -- | -- | -- |
| 2024-25 | 0.135 | 0.132 | 3.990 | 4.257 | 5.134 | -- | -- | -- |

29.3.3: Certified Compliance Report: The Regional Office, Hyderabad vide letter dated 19.02.2025, issued a monitoring report on the status of compliance of conditions stipulated in the EC letter dated 13.11.2020, granted by MoEF&CC. As per the said report there are following partial compliances and non-compliances, for which PP submitted an action taken report vide letter dated 17.01.2025.

| Cond. No. | EC Condition | Observation | Compliance Status |
|----------------------------|---|--|--|
| Specific condition No. (I) | Specific condition No. (I) EAC recommended for an amount of Rs 277.1 Lakhs towards Remediation plan and | Partial Compliance of Specific condition (I) All the activities are complied while implementing the Remediation plan and Natural | It is to submit that, some of the activities have been completed with lesser amount than the recommended amount due to |

| Cond. No. | EC Condition | Observation | Compliance Status |
|--------------------------------------|---|---|--|
| | Natural and Community Resource Augmentation plan to be spent within a span of three years | and Community Resource Augmentation plan and spent Rs.283.37 Lakhs, which is above the total budgetary provision of Rs.277.10 Lakhs. However, concerning the activity condition (i) [2] PP has spent Rs.19.09 Lakhs in completing the activity instead of Rs.20.60 Lakhs. Similarly, with respect to RWH construction activity condition (i) [3], PP paid Rs.16.00 Lakhs to complete the activity instead of Rs.25 Lakhs. | <p>better negotiations in tender process and actual execution of the work amount. However, 2060 no's avenue plantation and 10 no's of RWHS as recommended in the EC were completed.</p> <p>Further, excess amount has also been spent than recommended for some of the other activities on account of price variations in the material/manpower cost, etc.</p> <p>On a whole Rs.283.37 lakhs has been spent towards implementation RP&NCRAP works against the recommended amount of Rs.277.10 lakhs which is Rs.6.27 lakhs in excess.</p> <p>It is requested to kindly consider the works as "Fully completed" in view of the justification furnished in implementation of RP&NCRAP.</p> |
| Specific condition No. (VIII) | Specific condition No. (VIII) Approved wildlife conservation plan shall be implemented in toto | Partial Compliance of Specific condition No. (VIII) as PP has not provided information on the ground implementation of works and financial utilization, which may be sought from the forest Department. | <p>A Wildlife conservation Plan & mitigation measures for Siwaram Wild Life sanctuary and scheduled-I species present under cluster of Ramagundam region mines, including Cluster of GDK No.1&3 Incline, GDK No.2&2A Incline and GDK No.5 Incline was prepared by District Forest Officer and was approved by the PCCF&CWW, Telangana vide reference no. 3505/2020/WL-1 dated 08.04.2021 for an amount of Rs.335.68 Lakhs (Peddapally District: Rs. 164.34 lakhs and Chennur Division: Rs.171.31Lakhs).</p> <p>Accordingly, SCCL paid the amount to state forest department (Rs.164.34 Lakhs for Peddapally district on 24.09.2022 and an amount of Rs. 171.31 Lakhs for Chennur division on 02.05.2023) for implementation of WLCP. SCCL requested the concerned DFO's vide Lr.No.RG.1/EST/K/WLS/837, Dt: 20.12.2024 for peddapally & RG.1/EST/K/WLS/838, Dt: 20.12.2024 for Mancherial to provide the status of on-ground implementation of the WLCP. Copies of the letters are submitted.</p> |
| Standard Condition No. (III) | Standard Condition No. (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 State Forest Department. The implementation report shall be furnished along with the six-monthly compliance report (in case of the presence of schedule-I species in the study area). | Partial Compliance of Standard Condition No. (III) as PP has not provided information on the ground implementation of works and financial utilization, which may be sought from the forest Department. | |

| Cond. No. | EC Condition | Observation | Compliance Status |
|-------------------------------------|---|--|--|
| | | | The supporting documents on implementation of wild life conservation plan and its status will be submitted to Director, Sub Office, MoEF&CC, Hyderabad as soon as it is received from the concerned DFO's. |
| Specific condition No (XIII) | Specific condition No (XIII) STP of 17 MLD capacity with a cost of Rs 29.04 Crores shall be constructed in the township and completed by October,2021 | Non Compliance with Specific condition No (XIII) The 17 MLD STP construction is in the final stage and will be commissioned by March 2025. | STP has been constructed, and the same will be commissioned by September 2025. |

29.2.4: Details regarding amendment sought in EC dated 13.11.2020:

I. Brief of EC dated 13.11.2020:

MoEF&CC has accorded EC for Cluster of Godavarikhani No. 1&3 Inclines (0.486 MTPA in 541.66 Ha), Godavarikhani No. 2&2A Inclines (0.648 MTPA in 282.76 Ha) and Godavarikhani No.5 Incline (0.6 MTPA in 532.43 Ha) with overall production capacity of 1.734 MTPA in total mine lease area of 1356.85 Ha, under the violation category under the provisions of EIA Notification, 2006 and subsequent amendments/ circulars, vide file no. F.No.23-78/2018-IA-III(V), dated 13.11.2020. As per the EC accorded, the proponent has to comply with the following conditions with respect to Remediation Plan (RP) and Natural and Community Resource Augmentation Plan (NCRAP).

- i. EAC recommended for an amount of Rs 277.1 lakhs towards Remediation plan and Natural and Community Resource Augmentation plan to be spent within a span of three years. The details are given below:

Table 1: Remediation Plan along with budgetary provision:

| S No. | Component Remediation | Remediation proposed | Description | Location | Unit Rate in Rs. | Total Qty. | Total Cost (Lkhs) | Yr-I (Lkhs) | Yr-II (Lkhs) | Yr-III (Lkhs) |
|-------|-----------------------|----------------------|-----------------------|------------------|------------------|------------|-------------------|-------------|--------------|---------------|
| 1 | Air Environment | Roads | Laying of 10' CC road | Mustyala Jangaon | 50,00,000 | 1000 m | 50.0 | 20.00 | 15.0 | 15.0 |

| S No . | Component Remediation | Remediation proposed | Description | Location | Unit Rate in Rs. | Total Qty. | Total Cost (Lkh s) | Yr-I (Lkh s) | Yr-II (Lkh s) | Yr-III (Lkh s) |
|--------------|-------------------------------|---|---|--|------------------|------------|--------------------|--------------|---------------|----------------|
| 2 | Noise Environment and Ecology | Plantation | Plantation of total 2060 nos. of native plants at Rs. 1000 per sapling including maintenance for 3 years in nearby villages and peripheral area immediately outside mine boundary | Sundilla Jangaon Periphery area immediately outside mine boundary area | 1,000 | 2060 | 20.6 | 10.60 | 5.0 | 5.0 |
| 3 | Water Environment | Construction and annual maintenance of 10 Nos. Rain Water Harvesting Structure in nearby villages | Construction of RWH-10 Nos @ 2,50,000/p per RWH (including raw material, labour, construction and maintenance for one year | Sundilla Gunjapadugu Mustyala NAgaram Ranapur | 2,50,000 | 10 | 25.0 | 10.0 | 10.0 | 5.0 |
| Total | | | | | | | 95.60 | 40.60 | 30.0 | 25.0 |

Table 2: Natural and Community Resource Augmentation Plan with budgetary provision:

| S No . | Component | Activity proposed | Description | Locations | Rate | Total Qty. | Total Cost (Lakh s) | Yr-I (Lakh s) | Yr-II (Lakh s) | Yr-III (Lakh s) |
|--------|------------------------------------|---|---|--|--------|------------|---------------------|---------------|----------------|-----------------|
| 1 | Natural Resource augmentation Plan | Energy Conservation by adapting Green Energy technology | Providing 1 kw Solar Street Lighting (including panels, inverters, wiring, structure, connectors, junction boxes, | Jangaon Sundilla Mustyala Peddampeta Godavari khani | 50,000 | 225 | 112.50 | 37.50 | 37.50 | 37.50 |

| S No . | Component | Activity proposed | Description | Locations | Rate | Total Qty. | Total Cost (Lakh s) | Yr-I (Lakh s) | Yr-II (Lakh s) | Yr-III (Lakh s) |
|--------|-----------|-------------------|---|-----------|------|------------|---------------------|---------------|----------------|-----------------|
| | | | etc.) in nearby 5 villages as per the requirement of villages Panchayats @ Rs. 50,000 per unit. | | | | | | | |

Table 3: Community Resource Augmentation Plan along with the budgetary provision:

| S No . | Component | Activity proposed | Description | Locations | Rate | Total Qty. | Total Cost (Lakh s) | Yr-I (Lakh s) | Yr-II (Lakh s) | Yr-III (Lakh s) |
|--------------|---|-------------------------------|--|---|------|------------|---------------------|---------------|----------------|-----------------|
| 1 | Community Resource Augmentation on Plan | Development of Infrastructure | Construction of Toilets and renovation of school building in nearby villages | Sundilla Bestapalli Siripuram Chandana puram Malkapur Chillapalli Dubbapalli Jangaon | LS | LS | 69.0 | 23.00 | 23.0 | 23.0 |
| Total | | | | | | | 277.10 | 92.50 | 92.30 | 92.30 |

Summary:

| S. No. | Description | Estimated cost (Rs. In Lakhs) |
|--------------|---------------------------------------|-------------------------------|
| 1 | Remediation Plan | 95.60 |
| 2 | Natural Resources Augmentation Plan | 112.50 |
| 3 | Community Resources Augmentation Plan | 69.0 |
| Total | | 277.10 |

- Total budgetary provision with respect to Remediation plan and Natural & Community Resource Augmentation plan is Rs. 277.1 lakhs.
- Therefore, project proponent shall be required to submit a bank guarantee of an amount of Rs. 277.1 lakhs towards Remediation plan and Natural and Community Resource

Augmentation plan with the SPCS prior to the grant of EC.

- iii. Remediation plan shall be completed in 3 years whereas bank guarantee shall be for 5 years. The bank guarantee shall be released after successful implementation of the EMP, followed by recommendations of the EAC 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 Remediation Plan, Natural and Community Resource Augmentation Plan 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) |
| Air Environment | Laying of 10' CC roads of 500m length in 2 Villages | 50,00,000.00 | 65,42,243.00 |
| | | | Complied All the Remediation and Natural and Community Resource Augmentation plan work is completed. Details of RP and NCRAP work, work order copies, and payment details certified by the accounts department are submitted. Complied Laying of CC roads at Jangaon and Musthyala villages work completed. Spent amount of Rs.65.42 lakhs |
| Noise Environment & Ecology | Plantation of 2060 No's native plants in nearby 2 villages and peripheral area outside the mine boundary including 3 years maintenances | 20,60,000.00 | 19,09,496.00 |
| | | | Activity Complied The financial target spent is partially complied. Plantation of 2060 No of plants with native species completed. Spent amount Rs. 19.09 lakhs |
| Water Environment | Construction and maintenance of 10 no's of Rain water Harvesting structures in nearby villages | 25,00,000.00 | 15,99,198.00 |
| | | | Activity Complied The financial target spent is partially complied. Construction of Rainwater 10 no's of Rainwater Harvesting structures in nearby villages completed. Spent amount Rs. 16 lakhs |
| Total of Remediation Plan (Rs. In lakhs) | | 95.60 | 100.50937 |

Natural Resource Augmentation Plan with budgetary provisions:

| 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) | |
| Natural Resource augmentation Plan | Energy conservation by adapting green energy technology. Providing 225 No's of Solar Street Lighting in nearby villages. | 112,50,000.00 | 112,95,812.00 | Complied Erection of 225 No's of Solar lights completed in all villages. Spent amount Rs. 112.95 Lakhs. |
| Total of Natural Resource Augmentation Plan (Rs. In lakhs) | | 112.50 | 112.95 | |

Community Resource Augmentation Plan:

| 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) | |
| Community Resource Augmentation Plan | Development of infrastructure. Construction of Toilets / Renovation of school buildings in nearby villages | 69,00,000.00 | 69,90,608.00 | Complied Construction of toilets/ renovation of buildings in school all the specified villages was completed. Spent amount Rs. 69.9 lakhs. |
| Total Natural Resource Augmentation Plan (Rs. In lakhs) | | 69 | 69.90 | |

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

Observations and deliberation of the Committee:

29.3.6: The EAC noted the following:

1. MoEF&CC has initially granted EC to M/s Singareni Collieries Company Limited (SCCL), vide letter no. 23-78/ 2018-IA.III(V), dated 13.11.2020 for the production capacity of 1.734 MTPA, within the ML area of 1356.85 Ha, under the violation category, as per S.O. 804 (E) dated 14.03.2017. Prior to that, all the 3 mines, namely Godavarikhani No. 1&3 Inclines, Godavarikhani No. 2 & 2A Inclines and Godavarikhani No.5 Incline Underground project were operating on the 1993-94 base level production till 2019-20. However, the proponent had exceeded the production beyond the base level production of 1993-94 in various years. Hence, the EC under violation category was granted vide letter dated 13.11.2020 by the MoEF&CC.
2. The project is implemented and the mine is under operation.

3. The instant proposal is now placed before the EAC for seeking amendment in conditions pertaining to release of bank guarantee deposited for implementation of Remediation Plan (RP) and Natural and Community Resource Augmentation Plan (NCRAP) and release of bank guarantee.
4. It is observed that as per the specific condition no. 4(i), of Environment Clearance dated 13.11.2020, it is stated that, *“EAC recommended for an amount of Rs 277.1 lakhs towards Remediation plan and Natural and Community Resource Augmentation plan to be spent within a span of three years. The details are given below:”* PP has submitted that the same has been implemented and the Ministry’s RO has issued an inspection report in this regard, vide letter dated 19.02.2025.

As per specific condition no. 4(ii), of the Environment Clearance dated 13.11.2020, it is stated that, *“Total budgetary provision with respect to Remediation plan and Natural & Community Resource Augmentation plan is Rs. 277.1 lakhs.”* PP has submitted that a total of Rs. 2,83,37,357.00/- has been done in this regard, in place of Rs. 2,77,10,000.00/- as stated by the Ministry.

As per specific condition no. 4(iii), of the Environment Clearance dated 13.11.2020, it is stated that, *“Therefore, project proponent shall be required to submit a bank guarantee of an amount of Rs. 277.1 lakhs towards Remediation plan and Natural and Community Resource Augmentation plan with the SPCS prior to the grant of EC.”* PP submitted that bank guarantee no.0416820BG0000187, dated 08.06. 2020 for Rs. 277.1 lakhs submitted to TSPCB towards the Remediation plan and Natural and Community Resource Augmentation plan with a validity of 5 years. The same has been verified by the inspection report of Ministry’s RO vide letter dated 19.02.2025.

Another amendment sought by the PP is in specific condition no. 4(iv) of the EC dated 13.11.2020, wherein it is stated that, *“Remediation plan shall be completed in 3 years whereas bank guarantee shall be for 5 years. The bank guarantee shall be released after successful implementation of the EMP, followed by recommendations of the EAC and approval of the regulatory authority.”* PP has submitted that the Remediation plan and Natural and Community Resource Augmentation Plan has been implemented and the same has been approved by the Ministry’s RO vide inspection report dated 19.02.2025.

5. 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 in the EC dated 13.11.2020 and the same has been verified by the Ministry RO, vide its inspection report dated 19.02.2025. 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.
The total amount actually spent by the PP is Rs. 2,83,37,357/- , while the amount allotted by the Ministry was Rs. 2,77,10,000/-. Committee observed that, the amount actually spent by the proponent is Rs. 6,27,357/- Lakhs more than that allotted by the Ministry.
6. Committee also deliberated on the certified compliance report obtained by the PP from the Ministry’s RO, vide letter dated 19.02.2025. Committee observed that there are certain partially complied conditions, out of which one was pertaining to the implementation of RP & NCRAP. Wherein it was mentioned that, concerning plantation activity condition (i) [2] PP has spent Rs. 19.09 lakhs in completing the activity instead of Rs. 20.60 lakhs. Similarly, with respect to RWH construction activity condition (i) [3], PP paid Rs. 16 lakhs to complete the activity instead of Rs. 25 lakhs.

Justifying the same PP submitted that, some of the activities have been completed with lesser amount than the recommended amount due to better negotiations in tender process and actual execution of the work amount.

7. Committee deliberated on another non-complied condition, which stated that STP of 17 MLD capacity with a cost of Rs 29.04 Crores, is yet to be constructed. PP submitted that, the same has been constructed and will be commissioned by September 2025.
8. Committee also observed that the said RP & NCRAP was supposed to be implemented within a period of 3 years and the bank guarantee was to be deposited for 5 years from 13.11.2020. Committee observed that, the RP & NCRAP has been implemented in a period beyond 3 years. For the same PP justified that, due to onset of COVID-19 from March 2020, the implementation of the activities were delayed. Despite the said delay M/s SCCL has completed the activities within the BG validity period and requested the regional office for site inspection.

Recommendations of the Committee:

29.3.7: 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. 23-78/ 2018-IA.III(V), dated 13.11.2020 as detailed below:

| Conditions as per EC dated 13.11.2020 | Description as per approved EC dated 16.01.2023 | Recommendation of EAC |
|---------------------------------------|--|--|
| Specific Condition No 4(i) | EAC recommended for an amount of Rs 277.1 lakhs towards Remediation plan and Natural and Community Resource Augmentation plan to be spent within a span of three years. The details are given below: | Activities envisaged under Remediation Plan (RP) and Natural and Community Resource Augmentation Plan (NCRAP) has been completed with a financial out lay of Rs. 283.37 lakhs and the same has been mentioned in Certified Compliance Report (CCR) dated 19.02.2025 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. 277.1 lakhs. | Total budgetary provision with respect to Remediation plan and Natural & Community Resource Augmentation plan is Rs. 283.37 lakhs and the same has been implemented, as also verified in the Certified Compliance Report (CCR) dated 19.02.2025 of RO, MoEF&CC, Hyderabad. |
| Specific Condition No 4(iii) | Therefore, project proponent shall be required to submit a bank guarantee of an amount of Rs. 277.1 lakhs towards Remediation plan and Natural and Community Resource Augmentation plan with the SPCB prior to the grant of EC. | Bank Guarantee No.0416820BG0000187, dated 08.06.2020 for Rs. 277.1 lakhs submitted to TSPCB towards the Remediation plan and Natural and Community Resource Augmentation plan with a validity of 5 years. The same has been verified by the Certified Compliance Report (CCR) dated 19.02.2025 of RO, MoEF&CC, Hyderabad. |
| Specific Condition No 4(iv) | Remediation plan shall be completed in 3 years whereas bank guarantee shall be for 5 years. The bank guarantee shall be released after successful implementation of the EMP, followed by recommendations of the EAC and approval of the regulatory authority | Remediation plan and the natural and community resource augmentation plan has been completed. The bank guarantee submitted by the PP vide no. 0416820BG0000187, dated 08.06.2020, shall be released as the Remediation Plan and Natural and Community Resource Augmentation Plan has been successfully implemented and the same has been certified by the Regional office of the Ministry. |

Agenda item no. 29.4:

29.4: Mugoli Nirguda Extension Deep OC Mine (area: 1267.55 Ha having the production capacity of 5.25 MTPA) by M/s **Western Coalfields Limited** located at villages: Mugoli; Tehsil: Wani; **District: Yavatmal; State: Maharashtra – Amendment in Environment Clearance – reg.**

[Online Proposal no. IA/MH/CMIN/538456/2025; Consultant: CMPDI - NABET/EIA/25-28/RA 0412 valid up to 08.04.2028]

29.4.1: M/s. Western Coalfields Limited has made an online application vide proposal no. IA/MH/CMIN/538456/2025 dated 23.06.2025 for amendment in Environmental Clearance granted vide letter no. J-11015/299/2010–IA(II)M, dated 11.01.2022 and its subsequent amendments.

The instant proposal is for seeking amendment in EC specific condition no. vi of EC dated 11.01.2022 and its further amendment dated 29.07.2024. Another amendment sought is in specific condition no. x of EC dated 11.01.2022.

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

29.4.2: Details of previous approvals:

| S. No. | Details of Letter No. | EC/ Expansion EC/ Amendment in EC/ Validity extension/ Transfer of EC | Capacity (MTPA) | Area (Ha) | Date of issuance | Status of implementation |
|--------|---|---|-----------------|-----------|------------------|--------------------------|
| 1. | J-11015/299/2010 – IA(II)M dated 26.02.2020 Mugoli Nirguda Extn Deep OC for 4.375 MTPA | EC | 4.375 | 1317.55 | 26.02.2020 | Implemented |
| 2. | J-11015/299/2010- IA.II(M) dated 11.01.2022 Mugoli Nirguda Extn Deep OC for 5.25 MTPA | Expansion EC | 5.25 | 1267.55 | 11.01.2022 | Implemented |
| 3. | J-11015/299/2010- IA.II(M) dated 29.07.2024 EC Amendment for 5.25 MTPA | Amendment EC | 5.25 | 1267.55 | 29.07.2024 | Implemented |

W.r.t the previous approvals, PP submitted the actual production details of the concerned mine and submitted that the mine became operational from FY 2019-20 onwards. CTO renewal has been obtained from the SPCB and is valid up to 31.03.2026. Details of the same are as follows:

| Year | Actual Coal Production in MTPA | Planned Coal Production in MTPA as per Environmental Clearance | Excess production |
|------|--------------------------------|--|-------------------|
|------|--------------------------------|--|-------------------|

| Year | Actual Coal Production in MTPA | Planned Coal Production in MTPA as per Environmental Clearance | Excess production |
|---------|--------------------------------|--|-------------------|
| 2019-20 | 3.78 | 4.375 | NIL |
| 2020-21 | 4.11 | 4.375 | NIL |
| 2021-22 | 4.31 | 5.25 | NIL |
| 2022-23 | 4.16 | 5.25 | NIL |
| 2023-24 | 4.30 | 5.25 | NIL |
| 2024-25 | 5.25 | 5.25 | NIL |

29.4.3: 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 |
|---|--|---|--|
| Specific condition no. vi of EC dated 11.01.2022, further amended vide EC letter dated 29.07.2024 | As per the latest amendment accorded vide letter dated 29.07.2024, it was stipulated as follows: <i>“PP shall complete the work of Railway Siding, Silo Loading System (SLS) and belt conveyor to transport coal from pit to SLS by June 2025 and till then PP is allowed for the road transportation. PP shall undertake planting of trees along roads to be used for transport during 2024 monsoon season and submit details to Regional Office by October 2024.”</i> | <i>“PP shall transport coal by road till June 2026 and accordingly transportation through off-pit conveyor system and by silo loading at Railway siding should be installed by June 2026”</i> | <p>Railway siding – The work order for construction of Railway Siding was awarded to RITES on 15.01.2021 for Route length - 9.3 km and Track length - 13.9 km with proposed capital investment Rs. 218.31 Crores.</p> <p>Physical progress of work- 64% and financial progress of work- 62.75% as on 02.06.2025.</p> <p>The tentative timeline for commissioning of Railway Siding is proposed to be June, 2026.</p> <p>Silo Loading System- The work of construction of Silo Loading system was awarded on 16.02.2022 to contractor M/s Hamtek Technologies India Private Limited with capital investment of Rs 252.61 Crore. Till date expenditure of Rs. 182.23 Cr has been incurred.</p> <p>Physical progress of work- 70% and financial progress of work- 78.35% as on 03.06.2025.</p> <p>The tentative timeline for commissioning of Silo Loading system is proposed to be June 2026.</p> <p>The construction of Railway Siding and Silo loading could not be completed within the time limit of contract due to</p> |

| Specific/General Condition No | Details of Conditions as per EC | Amendment Sought | Justification |
|---|---|--|---|
| | | | <p>site constraint, removal of overburden, rainfall, availability of labour with contractor etc.</p> <p>Plantation of trees along transportation was done in monsoon 2024 and compliance of the same was submitted to Regional Office, MoEF&CC Nagpur vide letter no. WCL/WA/SAM(M)/ MSA/ Civil/ 2024-25/ 205 dtd. 29/10/24. The same has been submitted.</p> |
| Specific condition no. x of EC dated 11.01.2022 | <p>As per EC letter dated 11.01.2022, it was stipulated as follows: <i>“PP shall install sand/aggregate segregation plant from Overburden (OB) for suitable capacity to extract sand and construction aggregate within 2 years of issue of this letter.”</i></p> <p>As per the latest amendment accorded vide letter dated 29.07.2024, the condition was not agreed to and further it was stipulated as follows: <i>“PP shall first seek the Comments of State PWD Department on the quality of sand available and whether the same can be used for construction purpose or not.”</i></p> | <i>“Exemption is sought for the same.”</i> | <p>Market Dynamics and Volatility: There are no underground mines in jurisdiction of Wani Area, thus sand is not required in the area for stowing purpose. Moreover, the local market of sand is highly dynamic and sale price of sand is also very volatile. Installing sand segregation plant would lead to challenges in liquidating or selling the sand in the open market becomes very competitive with dealers/operators of sand Ghats in Chandrapur district.</p> <p>OB Analysis: As per the sand analysis test report, the percentage of sand in overburden is 61.3%. The Sand Segregation plant could be installed in Overburden having high sand content (more than 65%) in order to have techno-commercial viability of segregation from the plant. There are no underground mines in jurisdiction of Wani Area where the segregated sand can be utilized for the purpose of Sand Stowing. The sand content in OB is less than 65% and there is no utility of produced sand, so installation of Sand Segregation Plant is not found to be viable. In continuation to this, there already exists a Sand segregation plant (Capacity:2000 m³/day) in Ballarpur OC mine, Ballarpur</p> |

| Specific/General Condition No | Details of Conditions as per EC | Amendment Sought | Justification |
|-------------------------------|---------------------------------|------------------|--|
| | | | <p>area where sand content in OB is adequate for generation of sand.</p> <p>Comments from PWD was sought. Correspondence with Executive Engineer, PWD, Pandharkawda, Yavatmal was done vide letter No. WCL/WA/MSA/2024-25/2103 dtd. 06/09/2024 and WCL/Wani/Mungoli/Civil/2025-26/57 dtd. 29.30/05/2025. Reply from PWD Pandharkawda has been obtained vide letter No. 2385/2025 dtd. 04/07/2025 stating that PWD Pandharkawda office does not possess laboratory facility for testing construction material including sand. Further for expert evaluation and detailed report, Office of the Superintending Engineer, Vigilance and Quality Control Circle, Amravati PWD. Thus, a letter and email to Office of the Superintending Engineer, Vigilance and Quality Control Circle, Amravati PWD has been sent vide letter No. WCL/MSA/WA/SAM/109 dtd.10/07/2025 has been sent. Copy of the same has been submitted.</p> <p>In view of above reasons, the project proponent requests to reconsider and exempt the condition requiring the installation of a sand segregation plant from the existing EC.</p> |

29.4.4: Traffic Assessment Study Report:

1. Coal Production and Dispatch of Coal in 2024-25

The coal production from the mine was 5.25 MTPA in 2024-25. The dispatch of coal in 2024-25 from the mine was 5.25 MTPA. The coal transportation is through Ghughus Railway siding. The traffic study has been conducted considering the transportation of 5.25 MTPA of coal.

2. Coal Transportation Route:

The existing coal transportation from the existing Mugoli nirguda extension (deep) OC is through road from the pit head to Ghughus Railway siding, 100% of which is within the mine lease area of Mugoli nirguda extension (deep) OC & Ghughus OC. This road is catering transportation load from the Mugoli nirguda extension (deep) OC, Kolgaon expansion OC & Penganga OC with environmental control measures already in place.

Till the Conveyor belt is developed and becomes operational, it is proposed to transport 5.25 Mt of coal from mine by the proposed route till June 2026 for which amendment in EC is sought. Traffic impact assessment studies were conducted to understand and assess the impact on infrastructure for coal transportation by the road. The objective of the traffic impact assessment is to evaluate the impacts due to transportation of coal by proposed road from Mugoli nirguda extension (deep) OC to Ghughus Railway Siding. The Traffic impact assessment study includes the following tasks:

Inspection of the road network between coal loading and unloading points and its surrounding areas.

- Review of existing road network operations including survey of existing traffic on the roads connecting Coal Stockyard of Mugoli nirguda extension (deep) OC to Ghughus Railway Siding.
- Identifying the adequacy of proposed coal transportation route as per IRC guidelines.

Traffic assessment of coal transportation route from Coal Stock Yard of Mugoli nirguda extension (deep) OC to Ghughus Railway Siding was done and it was found that the same route has been shared by other projects for coal transportation. The coal from nearby mines i.e. Penganga OC and Kolgaon OC also goes to ghughus railway siding, the following quantities of coal are carried through road:

Coal from Mugoli nirguda extension (deep) OC (5.25 MTPA)

Coal from Kolgaon OC (0.60 MTPA)

Coal from Penganga OC (1.30 MTPA)

Traffic studies were carried out on the existing road to estimate the existing traffic load. Manual traffic count has been carried out. 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.

The result of the study is as follows: -

| S. No. | Sections | Maximum PCU/ Hr | V/C* |
|--------|---|-----------------|------|
| 1 | Coal stockyard of Mugoli OC to Junction point | 269.35 | 0.18 |
| 2 | Junction point to Ghughus railway siding | 446.35 | 0.30 |

From the results it is observed that for section Junction point to Ghughus railway siding having highest traffic, with considering the trucks used for coal transportation, the level of service falls under category 'very good'.

To assess the ambient air quality impact from Mugoli Nirguda Deep Extension OC to Ghughus Railway siding, data from regular environmental monitoring all around the CT road is

assessed. Total 4 Nos. air monitoring station data (Data from Mar 2025 to May 2025) has been incorporated and details of the same are given below.

Air quality monitoring data for PM₁₀ , PM_{2.5}, NO_x & SO₂ (Unit in µg/m³)

| S. No. | Name of monitoring station | Distance from road in km | Observed Maximum PM ₁₀ | Observed Maximum PM _{2.5} | Observed Maximum NO _x | Observed Maximum SO ₂ |
|--------|-------------------------------|--------------------------|-----------------------------------|------------------------------------|----------------------------------|----------------------------------|
| 1 | Kailashnagar Township | 0.3 | 92 | 44 | 18 | 12 |
| 2 | Tubewell near Sakhara Village | 0.4 | 92 | 47 | 19 | 12 |
| 3 | Ram Nagar colony | 0.7 | 92 | 47 | 18 | 12 |
| 4 | Ghugus Village (GP office) | 0.2 | 88 | 45 | 18 | 12 |
| | NAAQS, 2009 limit | | 100 | 60 | 80 | 80 |

From above table it can be observed that air quality monitoring data at all the locations are well within permissible limit.

Details of existing control measures

| S. No. | Control measures adopted at mine and along CT road to railway siding | Nos./ units | Coverage | Total cost incurred in ₹ lakhs |
|---|--|-------------|----------|--------------------------------|
| Within mine premises | | | | |
| 1 | Fixed Rainguns | 12 | 30 m | 15 |
| 2 | Mobile water tankers (28 kl) | 2 | 5-10 m | 1200 |
| 3 | Trolley mounted fog cannon | 8 | 100 m | 56 |
| Coal transportation road from mine to Railway siding | | | | |
| 1. | Mobile water tankers (12 kl) hiring | 2 | 5-10 m | 60 |
| 2. | Mobile water tanker (8 kl) | 2 | 5-10 m | 100 |
| 3. | Truck mounted fog cannon | 2 | 40 m | 70 |
| 4. | Trolley mounted fog cannon | 4 | 100 m | 28 |
| | Total | | | 1529.00 |

Details of additional control measures proposed

| S. No. | Control measures to be adopted on CT roads | Nos. /units | Coverage | Budget in Rs. lakhs |
|--------|--|--------------------|------------------------------------|---------------------|
| 1 | Tyre washing system | 1 | 30 m | 115 |
| 2 | Wind Barrier | As per requirement | Between railway route and villages | 200 |
| | Total | | | 315.00 |

Ambient Noise Quality:

To assess the ambient noise quality 2 station in residential area have been selected. The data of the same is given in following table:

Day time noise data (in dB (A))

| S. No. | Location Name | Min Day (Leq) | Max Day (Leq) | Standard |
|--------|---------------|---------------|---------------|----------|
| 1 | Mugoli colony | 44.2 | 44.7 | 55 |
| 2 | Ghugus colony | 45.4 | 45.5 | 55 |

Night time noise data (in dB (A))

| S. No. | Location Name | Min Day (Leq) | Max Day (Leq) | Standard |
|--------|---------------|---------------|---------------|----------|
| 1 | Mugoli colony | 43.4 | 43.5 | 45 |
| 2 | Ghugus colony | 42.8 | 44.2 | 45 |

From above table it can be observed that day time and night time data at both the locations are well within permissible limit.

29.4.5: Reasons for delay in installation of conveyor belt, Silo Loading System and Railway Siding:

Status of construction activities:

Completed activities:

- Hindrance of 6.44 lakh cum OB removed.
- Soil investigation completed.
- Engineering Drawing of Silo approved.
- Out of 96 drawings, the agency has submitted 96 drawings and all the drawings has been approved.
- The drawings of Silo, Ground Bunker, TRS and Conveyor are approved.

Ongoing activities:

- Piles for SILO completed, Pile Cap work completed, Column work in progress upto 217m. Backfilling completed.
- Piling for Bunker is completed (393 Nos. Pile) and Pile Cap completed (124 Nos.). Column casting and PCC of Grade Slab completed. Hopper wall work in progress.
- CRS foundation work completed and wall work upto 9th lift completed and balance work is in progress.
- Fabrication work from Galleries C1 to C6 completed. Erection work under progress.
- Slab work of Non plant building- Substation building 1 completed. Cable trenches work under progress.
- Excavation work for Substation 2 completed and CHP plinth beam work under progress is in progress.
- Civil and fabrication work of TH1 and DH1 completed, erection work under progress.
- Pump and reservoir erection work completed.

Physical progress of work- 70% and financial progress of work- 78.35% till 03.06.2025. The tentative timeline for commissioning of Silo Loading System is proposed to be June 2026.

The construction of Railway Siding and Silo loading could not be completed within the time limit of contract due to site constraint, removal of overburden, rainfall, availability of labour with contractor etc.

29.4.6: Details of Court Cases: There are no court cases pending on the project as per the submitted affidavit by the project.

29.4.7: Written Submission: PP vide an undertaking dated 21.07.2025, submitted that Plantation of 1,00,000 Nos. saplings will be done within 3 months in mining lease area of Mugoli Nirguda Extension Deep OC.

Observations and deliberation of the Committee:

29.4.8: The EAC noted the following:

1. MoEF&CC has originally granted EC to M/s Western Coalfields Limited for Mugoli Nirguda Extn Deep OC for the production capacity of 4.375 MTPA within the ML area of 1317.55 Ha vide letter dated 26.02.2020. Another EC was accorded for the same project with increase in the production capacity up to 5.25 MTPA within the reduced ML area of 1267.55 Ha, vide EC letter dated 11.01.2022. Later amendment in the same was granted vide letter dated 29.07.2024.
2. The instant proposal is submitted by the PP for seeking amendment in EC Specific Condition no. vi of EC letter dated 11.01.2022, which was later amended vide letter dated 29.07.2024. And another amendment is sought for seeking exemption in the specific condition no. x, which pertains to installation of sand/ aggregate segregation plant from Overburden (OB) for suitable capacity to extract sand and construction aggregate.
3. The above project is implemented and under operation.
4. EC specific condition no. vi of EC letter dated 11.01.2022, stipulated that “PP shall transport coal by road only for two years from the date of issue of this letter and accordingly transportation through in-pit conveyor system and by silo loading at Railway siding should be installed (as proposed) within 2 years.”
The same was granted extension by EC letter dated 29.07.2024 till June 2025.
5. Now, the PP has sought further extension for the same till June 2026. EAC sought the justification for the continuous delay being caused in the implementation of the in-pit conveyor belt and the SILO and railway siding and observed that, the construction of Railway Siding and Silo loading could not be completed within the time limit of contract due to site constraint, removal of overburden, rainfall, availability of labour with contractor etc.
6. Committee further deliberated on the plantation activities carried out by the PP as stipulated in the EC amendment letter dated 29.07.2024 and found the plantation to be in adequate. Committee opined that PP shall carry out 3 tier plantations on both the sides of the road with atleast 1,00,000/- saplings.
7. Committee further deliberated on the air quality parameters on the coal transportation road and observed that all the AAQ parameters are within the permissible limits and PP is taking various control measures for the same. Committee opined that all the measures being taken shall be continued with and PP shall carryout regular maintenance of the potholes on roads, repair and maintenance of roads, scrapping of material fallen on roads, and removal of scraps from mining areas. Along with this, PP shall make sure that all the pollution control equipments are in good working condition and maintenance of those equipments is regularly carried out.
8. Committee further deliberated on the noise quality parameters of the coal transportation road and observed the same to be within the permissible parameters. However, Committee opined that PP shall develop thick plantation on the transportation route wherever the habitation falls.

9. Another amendment sought by the PP is for seeking exemption in the condition pertaining to installation of sand/ aggregate segregation plant from OB. Committee observed that, previously, when this amendment was sought and deliberated in the 12th EAC meeting held on 05.06.2024 – 06.06.2024, it was asked by the PP to seek the comments of the PWD in this regard. PP submitted that, multiple letters have been written to PWD for seeking the comments on the same, however, no response has been received. Committee opined that the condition pertaining to installation of sand/ aggregate segregation plant from OB may be exempted.

Recommendations of the Committee:

29.4.9: In view of the foregoing and after the detailed deliberations, the Committee **recommended** the instant proposal for grant of amendment in the EC granted vide letter no. J-11015/299/2010–IA(II)M, dated 11.01.2022 and its subsequent amendments, as detailed below, subject to uploading of written submissions:

| Conditions as per EC dated 11.01.2022 and its subsequent amendment dated 29.07.2024 | Description as per approved EC dated 16.01.2023 | Recommendation of EAC |
|---|---|---|
| Specific condition no. vi of EC dated 11.01.2022, further amended vide EC letter dated 29.07.2024 | “PP shall complete the work of Railway Siding, Silo Loading System (SLS) and belt conveyor to transport coal from pit to SLS by June 2025 and till then PP is allowed for the road transportation. PP shall undertake planting of trees along roads to be used for transport during 2024 monsoon season and submit details to Regional Office by October 2024.” | Agreed. With regard to the changes in the said condition, Committee is of the opinion to amend it as follows: <i>“Project Proponent shall implement the Railway Siding, Silo Loading System (SLS) and belt conveyor to transport coal from pit to SLS by June 2026, and no transportation of coal shall be allowed by road thereafter.”</i> |
| Specific condition no. x of EC dated 11.01.2022 | “PP shall install sand/aggregate segregation plant from Overburden (OB) for suitable capacity to extract sand and construction aggregate within 2 years of issue of this letter.” | Agreed. With regard to the same, Committee agreed to delete the said condition. |

Additional Specific Conditions:

1. Project proponent shall carryout the plantation with the at least 1,00,000 saplings of native species of not less than 2 meter height, on both the sides of the coal transportation route in the monsoon of 2025. Along with this, PP shall also carry out the community plantation within the villages and habitation area on the transportation road with fruit bearing species and ensure the survival of the same. This plantation shall be carried out in Monsoon 2025 itself and compliance of the same shall be submitted to the Ministry’s RO along with the six monthly compliance report.
2. Project proponent shall carryout regular maintenance of the potholes on roads, repair and maintenance of roads, scrapping of material fallen on roads, and removal of scraps from mining areas. Along with this, PP shall make sure that all the pollution control equipments are in good working condition and maintenance of those equipments is regularly carried out.

3. Project proponent shall install a tyre washing system, as committed within 1 year from the date of grant of this EC amendment letter.
4. Project proponent shall install wind barriers between the Sakhra village and the railway siding and the same shall be completed on or before June, 2026 as committed by the project proponent.

Agenda item no. 29.5:

29.5: Proposed Coal Washery of 2.5 MTPA Capacity by **M/s. Alpha Coal Beneficiation & Infrastructure LLP** located at Khasra No. 14/4/1/(Part), 14/4/2/(Part), 4S/(Part), 160/1/1/(Part) **Pidartali Industrial Area MPIDC, District - Singrauli, Madhya Pradesh – Prescribing of Terms of Reference – reg.**

[Online Proposal no. IA/MP/CMIN/539472/2025; File No. IA-J-11015/14/2025-IAII(M)]

Project proponent vide email dated 21.07.2025 expressed their inability to participate in the EAC meeting held on 22-23rd July, 2025 due to unavoidable circumstances and requested for deferment. In view of this, Committee recommended to *return the proposal in its present form.*

Agenda item no. 29.6:

29.6: Mahan underground coal mine of 1.2 MTPA rated production capacity, over an area of 981.75 ha by **M/s. J.K. Cement Limited located at villages: Amiliya and Budher; Tehsil: Manda and Sarai; District: Singrauli; State: Madhya Pradesh – Prescribing of Terms of Reference – reg.**

[Online Proposal no. IA/MP/CMIN/539369/2025; Consultant: Vardan Environet LLP - NABET/EIA/2326/RA 0284_Rev.01 – valid up to 04.05.2026]

29.6.1: M/s JK Cement Limited has made an online application vide proposal no. IA/MP/CMIN/539369/2025 dated 27.06.2025 along with the application in prescribed format (Form-I), copy of pre-feasibility report and proposed ToRs for undertaking detailed EIA study as per the EIA Notification, 2006 for the project mentioned above. The proposed project activity is listed at 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. Hence is being appraised at Central Level.

Mahan Underground Coal Mine is proposed for the production of 1.2 MTPA within an area of 981.75 Ha, located at villages: Amiliya and Budher; Tehsil: Manda and Sarai; District: Singrauli; State: Madhya Pradesh.

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

29.6.2: Environmental Site Settings: The project area is covered under Survey of India Topo-sheet no. F44E5, G44W8 & G44W12 and is bounded by the geographical coordinates ranging from 24°00’28” N to 24°02’32” N and Longitude 82°22’30” E to 82°24’49” E.

Project does not fall in the Critically Polluted Area (CPA)/Severally Polluted Area (SPA), as per CEPI Assessment, 2018. The proposed project is approx. 17.8 km away from the certified SPA. PP has submitted a map showing distance of CEPI region, Singrauli from the project site.

Forest Area: The project involves total 975.497 Ha of forestland. Application for forest land diversion for 975.497 ha has been made vide application no. FP/MP/MIN/QRY/536130/2025 dated 27.06.2025. There is no broken forestland and the project does not involve the violation of Van (Sanrakshan Evam Samvardhan) Adhiniyam, 1980.

Protected Area: The project is not located within 10 KM of any ESZ/ ESA/ national park/ wildlife sanctuary/ biosphere reserve/ tiger reserve/ elephant reserve/tiger corridor/elephant corridor etc. PP submitted that, there are Schedule – I species present within the ML area and the Wildlife Conservation Plan is yet to be prepared.

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

| S. No. | Govt. Order/Notifications as the case may be | Area (ha) |
|--------|---|---------------|
| 1. | Vesting Order No. NA-104/18/2024-NA; dated 18 th December 2024 | 981.75 |
| | Total | 981.75 |
| 2. | Details of LOI (for area outside lease area) | 0 |
| | Grand Total | 981.75 |

Other Sensitive Receptors:

| Project site proximity to sensitive area | Distance in km (within 5 km from the ML area) | | |
|--|---|----------------------------------|-----------|
| i. Habitation | Village | Distance (km) | Direction |
| | Budheri | Adjacent | W |
| | Karwahi | 0.8 | SW |
| | Badhaura | 1.3 | SE |
| | Amilia | 2.4 | ESE |
| | Khairahi | 2.4 | SE |
| | Barwatola | 2.4 | W |
| | Bhalyatola | 2.7 | WSW |
| | Suhira | 3.4 | ENE |
| | Raila | 4.6 | ESE |
| | Karsua | 3.9 | SE |
| | Nagwa | 4.5 | SE |
| | Dhiraui | 3.8 | SW |
| | Sarbahara | 4.4 | SW |
| | Pertali | 4.0 | SW |
| | Bandha | 4.3 | N |
| | Badanmara | 3.2 | NE |
| | Badratola | 4.5 | NE |
| ii. School | Schools | Distance (km) | Direction |
| | UEGS, Budher | 0.3 | West |
| | UEGS, Semua | 0.9 | SSE |
| | Government Middle school, Bandhaura | 1.4 | SE |
| | Amiliya M.S. school | 1.7 | ENE |
| | P.S public school, suhira | 2.6 | ESE |
| | Government Primary school Jamgadi | 4.7 | NW |
| | Middle school Jamgadi | 4.9 | NW |
| iii. River/ Waterbody | Water body | Distance (km) | Direction |
| | Nallah | Passing through the Project Site | |
| | Mahan Nala | 3.9 | NW |
| | Hurdul Nala | 4.8 | SW |
| | Sukhra Nala | 6.4 | SE |

| Project site proximity to sensitive area | Distance in km (within 5 km from the ML area) | | |
|--|---|-------------------------|-----------|
| iv. Forest | Reserved/Protected forests | Distance (km) | Direction |
| | Mohanban RF | Inside the Project Site | |
| | Pidarwah PF | 3.3 | North |
| v. Archaeological Survey of India (ASI) protected site | No | | |
| vi. Any other | No | | |

29.6.3: Mining Plan and Mine Closure Plan: Mine Plan and Mine Closure Plan has been approved by the Ministry of Coal, GoI vide Application No. MAHAN COAL MINE MPMP051/APP00319/2025 dated 11.06.2025, for the rated capacity of 1.2 MTPA within the ML area of 981.75 Ha.

1. Method of Mining to be adopted shall be underground. The Capacity of the mine applied for normative capacity peak capacity as per approved mining plan is 1.2 MTPA. Excavation of Coal is through Bord and Pillar with Caving by deploying Continuous Miner and Drilling and Blasting with LHDs.
2. Total geological reserve reported in the mine lease area is 107.06 MT with 53.51 MT mineable reserves. Out of total mineable reserve of 53.51 MT, 40.30 MT are available for extraction. Percent of extraction is 37.64%.
3. 10 seams with thickness ranging from 0.5 m to 8.37 m are workable. Grade of coal is G-8, while gradient is 2° to 3°.
4. The waste generated from the proposed project during incline drivages and shaft sinking in the sub-soil and hard rocks for mine entries and also from drivages of cross-cuts in hard rock is estimated to be about 60,000 Cum of waste. The waste produced during these drivages will be separately stacked on the surface and used for filling of low-lying areas, development of the land for infrastructure and development of greenery. Cumulative 0.03 mm³ topsoil will be removed and will be used for development of green belt/plantation.
5. Life of mine is 41 years (Including Construction Period).
6. Details of land use pattern:
 - a. Pre – mining land use pattern:

| S. No. | Land Use | Within ML Area (ha) | Outside ML Area (ha) | Total |
|--------------|--------------------------------------|---------------------|----------------------|---------------|
| 1. | Agricultural Land | 6.253 | Nil | 6.253 |
| 2. | Forest land | 975.497 | Nil | 975.497 |
| 3. | Barren Land | - | Nil | - |
| 4. | Grazing Land | - | Nil | - |
| 5. | Surface Water Bodies | - | Nil | - |
| 6. | Habitation/Settlements | - | Nil | - |
| 7. | Other (Roads & Other infrastructure) | - | Nil | - |
| 8. | Other (Industrial Use) | - | Nil | - |
| Total | | 981.75 | - | 981.75 |

- b. Post – mining land use pattern:

| S. No. | Type | Total Area | Reclaimed Area | Un-reclaimed area |
|--------|-------------------------|------------|----------------|-------------------|
| 1. | Excavation/Quarry Area: | - | - | - |
| | (a) Backfilled areas | - | - | - |
| | (b) Excavated Void | - | - | - |
| 2. | Top Soil Dump | - | - | - |
| 3. | Safety Zone | - | - | - |

| S. No. | Type | Total Area | Reclaimed Area | Un-reclaimed area |
|--------------|----------------------------------|---------------|----------------|-------------------|
| 4. | Road and Infrastructure | 23.0 | 23.0 | - |
| 5. | Green belt | 14.808 | 14.808 | - |
| 6. | UG Entry | 1.0 | 1.0 | - |
| 7. | Undisturbed/ Mining right for UG | 942.942 | - | 942.942 |
| Total | | 981.75 | 38.808 | 942.942 |

7. **Details of transportation:**

- In pit (UG) to surface:** by Conveyor belts
- Surface to siding:** by tippers
- Siding to consumer:** rail

8. Reclamation: The afforestation plan shall be done progressively covering an area of 38.808 ha at the end of mining. This will include, greenbelt of 14.808 Ha. Apart from this 23 Ha for road and infrastructure area and 1 Ha for UG entry area will also be reclaimed. Density of plantation will be 2500 plants per Ha.

29.6.4: Baseline Data:

| Period | December, 2024 to February, 2025 |
|--|---|
| AAQ parameters at 10 Locations (min and max) | Core Zone PM ₁₀ = 32.7 to 44.2 µg/m ³ PM _{2.5} = 19.6 to 26.4 µg/m ³ SO ₂ = 7.0 to 14.4 µg/m ³ NO _x = 12.0 to 24.6 µg/m ³ CO = BLQ (Below Limit of Quantification) Buffer Zone PM ₁₀ = 32.4 to 58.6 µg/m ³ PM _{2.5} = 18.8 to 34.9 µg/m ³ SO ₂ = 7.1 to 18.6 µg/m ³ NO _x = 11.9 to 31.5 µg/m ³ CO = 0.5 to 0.61 mg/m ³ |
| Ground water quality at 10 Locations | pH: 7.22 to 7.65, Total Dissolved solids: 292 to 396 mg/l; Hardness: 196 to 254 mg/l; Chlorides: 40.12 to 92.65 mg/l, Fluoride: 0.47 to 0.64 mg/l. Heavy metals Fe: 0.2 to 0.33 mg/l, Zinc as Zn: 0.89 to 1.65 mg/l, Copper as Cu: <0.002mg/l, Cyanide as CN: <0.002mg/l, Aluminium as Al: <0.005mg/l, Boron: <0.01 mg/l, Chromium as Cr: <0.002mg/l, Phenolic Compound: <0.0005mg/l, Manganese as Mn: <0.01 mg/l, Cadmium as Cd: <0.002 mg/l, Lead as Pb: <0.002 mg/l, Selenium as Se: <0.001 mg/l, Arsenic as As: <0.005 mg/l, Mercury as Hg: <0.0005mg/l, Total Coliform: <1.8 MPN/100ml. |
| Surface water quality at 10 Locations | All the Parameters Like pH varies from 7.39 to 7.85, Total Hardness varies from 92.4 to 138.48mg/l, Total Dissolved Solids varies from 190 to 295mg/l, Dissolved Oxygen varies from 5.8 to 6.6mg/l, BOD: 2.1 to 18 mg/l. COD from 13 to 59 mg/l. Fe: 0.18 to 0.36 mg/l, Aluminium as Al: BLQ(LOQ-0.005)mg/l, Boron: 0.11 to 0.82 mg/l, Chromium as Cr: <0.002mg/l, Phenolic Compound:<0.0005mg/l, Zinc as Zn: 0.29 to 2.28 mg/l, Copper as Cu:0.11 to 0.67 mg/l, Manganese as Mn: <0.01 mg/l, Cadmium as Cd: <0.002 mg/l, Total Coliform: 700 to 1500 MPN/100ml., E. Coli: 330 to 840 MPN/100ml etc. are found within the permissible limits. |
| Noise levels Leq (Day and Night) | Core Zone (Residential Zone) 38.52 to 38.52 dB(A) for the day time and 30.68 to 30.68 dB(A) for the Night time. Buffer Zone (Silent Zone) 39.87 to 39.87 dB(A) for the day time and 32.25 to 32.25 dB(A) for the Night time. Buffer Zone (Residential Zone) 43.96 to 51.25 dB(A) for the day time and 37.85 to 41.25 dB(A) for the Night time. |

| Period | December, 2024 to February, 2025 |
|--------------------------|---|
| Flora and fauna | There are no wildlife sanctuaries in 10 km radius of the project. The Site Specific Wildlife Conservation Plan will be prepared for conservation of Schedule-I species. |
| Water Requirement | <p>Source of Water: The source of water proposed for mine use is ground water / makeup water of UG mine, which will be pumped to surface and suitably treated for project use.</p> <p>Ground Water Intersection: Yes, permission from CGWA will be obtained after grant of ToR.</p> <p>Water Requirement: 2620 KLD</p> <p>NOC (For Surface Water): Not Applicable</p> <p>NOC (Ground Water): Permission from CGWA will be obtained after grant of ToR.</p> |

29.6.5: Details of Water Requirement: The water requirement submitted by the PP for the said project is 2620 KLD out of which 104 KLD will be used for drinking & domestic purpose which will be sourced from borewell, 30 KLD will be used for water sprinkling & plantation will be sourced from treated STP/ ETP/ Seepage water and 2486 KLD will be used for mining process including workshop which will be sourced from mine sump water. Permission from CGWA for the same will be obtained from CGWA after the grant of ToR. PP also submitted that no nallah/ river or any other water body is proposed for diversion.

29.6.6: Details of Power Requirement and diversion of High-Tension/Transmission Line: The Installed power of the mines will be at 12 MW of which the maximum demand may reach up to 10 MW. The power will be catered from the available 33KV Sub-station located at an aerial distance of approximately 10 km from mines. A 1.5 ha solar plant has been proposed to use renewable energy and reduce dependency on substations.

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

| S. No | Type of Waste | Source | Quantity (TPA) | Mode of Treatment | Disposal |
|-------|---|----------------------------------|----------------|--|--|
| 1. | Plastic Waste | Site office, Canteen etc. | 61 | CPCB/SPCB Authorized recycling Vendors | Plastic Waste Management (Amendment) Rules, 2024 |
| 2. | Electronic Waste | Computers, switches, cables etc. | 2.45 | Authorized Vendors | As per E- Waste (Management) Rules, 2022 |
| 3. | Used Batteries | Vehicles at sites | 1 | Authorized Vendors | As per Batteries Management rules 2022, sold to authorize vendors for recycling/refurbishment. |
| 4. | Biomedical Waste | Primary Health Center | 0.8 | Tie up with Community health center | Yellow & Red |
| 5. | Used Oils, Waste Oil, Empty Oil barrels | Mine Workshop | 4.0 | Authorized Vendors | Handed over to CPCB/SPCB authorized vendor |

29.6.8: Plantation: Mahan Coal Block is underground coal mine hence; minimum surface area will be disturbed. A total 14.808 Ha area of Greenbelt will be developed by planting

2500 nos. of trees per Ha. i.e. 37,020 nos. of trees will be planted. Greenbelt/Plantation will be done as per the CPCB or SPCB guidelines.

29.6.9: Rehabilitation & Resettlement Plan: It is an underground mine with limited surface activity. Hence, R&R plan will not be applicable.

29.6.10: Project Cost: Cost of the project is Rs. 880 crores.

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

29.6.12: Undertaking/ Affidavit: PP through an undertaking submitted that, the information provided in Form-I in PARIVESH, to the Ministry/EAC members and PPT presentation during the EAC meeting held on 22.07.2025 have no deviation in respect of the Proposal no. IA/MP/CMIN/539369/2025 for grant of Terms of Reference (ToR) of "Mahan Underground Coal Mine of M/s JK Cement Limited with 1.2 MTPA production capacity over ML area 981.75 ha located at villages (s) Amiliya and Budher, Tehsil Manda and 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 Terms of Reference (TOR).

Further, vide and affidavit, PP submitted that, this is a proposed Underground Coal Mine and there is no construction done at site. There is no litigation on the project either at Hon'ble NGT or any other court of Law. The Mahan Coal Mine has been allotted by Government of India, Ministry of Coal, New Delhi to M/s JK Cement Limited as per Vesting Order No. NA-104/18/2024-NA; dated 18th December 2024 through auction. The land acquisition is under process and there is no R&R issue. That there is no difference in the documents submitted i.e., Common Application Form, Form 1. Conceptual Plan, Pre- Feasibility Report and presentation being made to the EAC. 5. That 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' (Mining of Minerals), Project or Activity'1 [a]'. Thus, the Mahan Underground Coal Mine project having an area of 981.75 ha falls under Category "A". Therefore, the project is being submitted to MoEF&CC.

The company, further undertook that the contents of this declaration are true and correct to best of their knowledge and belief, that nothing has been concealed.

Deliberations and Observations of the Committee:

29.6.13: The Committee noted the following:

1. The instant proposal is for grant of terms of reference for Mahan underground coal mine of 1.2 MTPA rated production capacity, over an area of 981.75 ha by M/s. J.K. Cement Limited located at villages: Amiliya and Budher; Tehsil: Manda and Sarai; District: Singrauli; State: Madhya Pradesh.
2. It is a Greenfield project.
3. Project does not fall in the Critically Polluted Area (CPA)/Severally Polluted Area (SPA), as per CEPI Assessment, 2018. The proposed project is approx. 17.8 km away

from the certified SPA. PP has submitted a map showing distance of CEPI region, Singrauli from the project site.

4. The project involves total 975.497 Ha of forestland. Application for forest land diversion for 975.497 ha has been made vide application no. FP/MP/MIN/QR/536130/2025 dated 27.06.2025. There is no broken forestland and the project does not involve the violation of Van (Sanrakshan Evam Samvardhan) Adhiniyam, 1980.
5. The project is not located within 10 KM of any ESZ/ ESA/ national park/ wildlife sanctuary/ biosphere reserve/ tiger reserve/ elephant reserve/tiger corridor/elephant corridor etc. Committee observed that there is presence of Schedule – I species in the study area and the Wildlife Conservation Plan is yet to be prepared. Committee opined that the same shall be prepared and shall be got approved from CWW.
6. The said coal block has been allotted by the Ministry of Coal, GoI, vide Vesting Order No. NA-104/18/2024-NA, dated 18.12.2024.
7. Mine Plan and Mine Closure Plan has been approved by the Ministry of Coal, GoI vide Application No. MAHAN COAL MINE MPMP051/APP00319/2025 Dated 11.06.2025, for the rated capacity of 1.2 MTPA within the ML area of 981.75 Ha.
8. Method of Mining to be adopted shall be underground. Excavation of Coal is through Bord and Pillar with Caving by deploying Continuous Miner and Drilling and Blasting with LHDs.
9. Total geological reserve reported in the mine lease area is 107.06 MT with 53.51 MT mineable reserves. Out of total mineable reserve of 53.51 MT, 40.30 MT are available for extraction. Percent of extraction is 37.64%.
10. Seams with thickness ranging from 0.5 m to 8.37 m are workable. Grade of coal is G-8. Life of mine is 41 years (including construction period).
11. Committee observed that, since this is an underground mine, OB generation will only be limited during construction of incline drivages and shaft sinking. The waste produced during these drivages will be separately stacked on the surface and used for filling of low-lying areas, development of the land for infrastructure and development of greenery. Cumulative 0.03 mm³ topsoil will be removed and will be used for development of green belt/ plantation.
12. Committee during the deliberation observed that, the Mine entries and mine shaft are proposed to be installed in the forestland. Committee further observed that, the entire area will be reclaimed and returned to the forestland.
13. Committee deliberated on the method of transportation of coal and observed that, from in-pit to surface, the coal will be transported through conveyor belt, from surface to siding the coal will be transported by road and from siding to the final consumer the coal will be transported through railway. Committee opined that the PP shall make adequate provisions for the control of air pollution which will be caused due to road transportation of coal. Special emphasis shall be given on the plantation activities along the coal transportation road.
14. Committee deliberated on the baseline data submitted by the PP and observed the same to be within the prescribed limits. Committee further opined that PP shall also obtain a letter from the state forest department for the impact of mining related activities on the forest area due to the said project.

15. Committee deliberated on the water requirement of the said project and observed that, the total water required for the said project is 2620 KLD out of which 104 KLD will be used for drinking & domestic purpose which will be sourced from borewell, 30 KLD will be used for water sprinkling & plantation will be sourced from treated STP/ ETP/ Seepage water and 2486 KLD will be used for mining process including workshop which will be sourced from mine sump water. Committee observed that the permission from CGWA shall be obtained for the same.
16. Committee opined that, PP shall carryout the eco-system services for the water bodies present within the close vicinity of the ML area, through some NABET accredited institution.
17. Committee opined that PP shall carryout detailed bio-diversity study for both aquatic & terrestrial bio-diversity through some NABET accredited institution.
18. The installed power of the mines will be at 12 MW of which the maximum demand may reach up to 10 MW. The power will be catered from the available 33KV Sub-station located at an aerial distance of approximately 10 km from mines. A 1.5 Ha solar plant has been proposed to use renewable energy and reduce dependency on substations.
19. Committee deliberated on the plantation activities proposed by the PP and observed that, a total of 14.808 Ha area of Greenbelt will be developed by planting 2500 nos. of trees per Ha. i.e. 37,020 nos. of trees will be planted, as per the guidelines of CPCB or SPCB. Committee opined that, apart from this, PP shall undertake the plantation activities on the transportation route and focus on agro-forestry and fruit bearing species shall be distributed and planted on the periphery of the agricultural farms of the villagers (of the agricultural land involved in the project), by developing a plan to compensate the farmers/ villagers for survival of these fruit bearing trees.
20. Committee opined that the project proponent shall explore the feasibility of developing safe and adequate lighting facilities in the underground mines.
21. The project does not involve the rehabilitation and resettlement issues.
22. The capital cost for the said project is Rs. 880 Crores.
23. The project does not have any legal issue/violation w.r.t i) Environment (Protection) Act, ii) Air (P&CP) Act, Water (P&CP), Act, Van (Sanrakshan Evam Samvardhan) Adhiniyam, Wildlife Protection Act, MMDR Act, Factories Act. Further, there is no court case on the project.
24. Committee opined that PP shall align its activities with the sustainable development goals.
25. Committee opined that a detail watershed base plan should be submitted of the forest area in the M.L.area with construction of water harvesting structures and gap plantation.
26. A plan for distribution of 50,000 plants mainly fruit bearing species to the local villagers and farmers till the end of life of mine shall be made along with the budgetary provision for yearly incentive for 5 years to them to support the survival of those plants.

Recommendations of the Committee:

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

following specific ToRs for undertaking detailed EIA and EMP study and conduct Public Consultation (along with the public hearing) in addition to generic ToR given at Annexure-I.

Specific ToRs:

1. Project proponent shall obtain a letter from the state forest department regarding the impact of the mining activities of the said mine on the forestland and the same shall be submitted along with the application of Environment Clearance.
2. Project proponent shall carryout eco – system services for the water bodies, present within and in close vicinity of the ML area, through some NABET accredited institute.
3. Project proponent shall submit the plan along with the budgetary provisions for installation of solar power plant on 1.5 Ha land area, as committed.
4. The plan for plantation shall separately be made for road side plantation with native species.
5. Project proponent shall explore the feasibility of developing safe and adequate lighting facilities in the underground mines.
6. A plan for distribution of 50,000 plants mainly fruit bearing species to the local villagers and farmers till the end of life of mine shall be made along with the budgetary provision for yearly incentive for 5 years to them to support the survival of those plants.
7. Necessary coordination shall be made with concerned SPCB (who is responsible for Compliance of OM dated 14.01.2025) regarding streamlining the implementation of GSR 702 and GSR 703 dated 12.11.2024 through which projects requiring prior EC were exempted from requirement of CTE.
8. A detailed watershed management plan should be submitted for the forest area in the M.L.area with construction of water harvesting structures and gap plantation.

Agenda Item No. 29.7:

29.7: Rajendra UG project (reduction in ML area from 590 Ha to 524.3 Ha having the production capacity of 0.625 MTPA) by **M/s South Eastern Coalfields Limited** located at village: Khannath, Chirihati, Navgaowna, Sironja; Tehsil: Khairaha via Burhar; **District: Shahdol; State: Madhya Pradesh – Revalidation of Environmental Clearance based on ADS Reply – reg.**

[Online Proposal No. IA/MP/CMIN/79714/2005; Consultant: CMPDIL - NABET/EIA/25-28/RA 0412 valid up to 08.04.2028]

29.7.1: M/s South Eastern Coalfields Limited has made an online application vide proposal no. IA/MP/CMIN/79714/2005 dated 21.09.2018 along with copy of Form, Certified compliance report (as part of ADS reply) and sought for revalidation of Environment Clearance (EC) accorded Rajendra UG project vide letter no. J-11015/64/2005-IA-II(M) on 24.05.2005 for production capacity of 0.625 MTPA under EIA notification, 1994. The proposed project activity is listed at Item. No. 1(a) (Mining of Minerals) Under Category “A”

of the schedule of the EIA Notification, 2006 and does not attract general condition being appraised at Central Level. The instant proposal is for obtaining re-validation of EC under EIA notification, 2006, in compliance of the Gazette Notification S.O. No. 1530(E) dated 06/04/2018 for existing project with reduction in ML area from 590 Ha to 524.3 Ha. The proposal was initially considered in 44th meeting of EAC (Coal Mining Sector) held on 24-25/04/2019. Proposal was deferred for want of additional information.

Proponent submitted the additional information on 27.05.2025 and 05.07.2025 on PARIVESH 1.0 Portal. Now, the project is now again placed before the EAC for consideration on 23.07.2025.

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

29.7.2: Previous Approvals in chronological orders:

| S. No. | Details of Letter No. | EC/Expansion EC/Amendment in EC/Validity extension/Transfer of EC | Capacity (MTPA) | Area (Ha) | Remarks |
|--------|---|---|--------------------|--------------|---------------------|
| 1 | J-11015/64/2005-IA-II(M) dated 24.05.2005 | Fresh EC under EIA Not. 1994 | 0.625 | 590 | Project implemented |

W.r.t. the previous approvals, PP submitted the actual production details of the concerned mine and submitted that the mine became operational from FY 1993-94 onwards. CTO renewal has been obtained from MPPCB and is valid upto 31.03.2026. Details of the same are as follows:

| Year | EC/CTO sanctioned capacity (MTPA) | Actual production (MTPA) | Excess production beyond the EC/ CTO sanctioned capacity | Remarks |
|-----------|-----------------------------------|--------------------------|--|--|
| 1993-94 | 0.36 | 0.068 | Nil | Mine was running based on CTO capacity |
| 1994-95 | 0.36 | 0.135 | Nil | |
| 1995-96 | 0.36 | 0.160 | Nil | |
| 1996-97 | 0.36 | 0.163 | Nil | |
| 1997-98 | 0.36 | 0.178 | Nil | |
| 1998-99 | 0.36 | 0.487 | 0.127 | |
| 1999-2000 | 0.76 | 0.576 | Nil | |
| 2000-01 | 0.76 | 0.614 | Nil | |
| 2001-02 | 0.76 | 0.437 | Nil | |
| 2002-03 | 0.76 | 0.406 | Nil | |
| 2003-04 | 0.76 | 0.552 | Nil | |
| 2004-05 | 0.76 | 0.333 | Nil | |
| 2005-06 | 0.625 | 0.194 | Nil | EC for 0.625 MTPA was obtained on 24.05.2005. As per the Ministry's letter dated 31.07.2024, regarding renewal of CTO by the |
| 2006-07 | 0.625 | 0.278 | Nil | |
| 2007-08 | 0.625 | 0.198 | Nil | |
| 2008-09 | 0.625 | 0.161 | Nil | |
| 2009-10 | 0.625 | 0.277 | Nil | |
| 2010-11 | 0.625 | 0.319 | Nil | |
| 2011-12 | 0.625 | 0.432 | Nil | |
| 2012-13 | 0.625 | 0.471 | Nil | |
| 2013-14 | 0.625 | 0.419 | Nil | |
| 2014-15 | 0.625 | 0.441 | Nil | |
| 2015-16 | 0.625 | 0.437 | Nil | |
| 2016-17 | 0.625 | 0.370 | Nil | |

| Year | EC/CTO sanctioned capacity (MTPA) | Actual production (MTPA) | Excess production beyond the EC/ CTO sanctioned capacity | Remarks |
|---------|-----------------------------------|--------------------------|--|--|
| 2017-18 | 0.625 | 0.338 | Nil | SPCBs, the SPCB granted CTO for the production capacity of 0.36 MTPA vide letter dated 09.06.2025. |
| 2018-19 | 0.625 | 0.302 | Nil | |
| 2019-20 | 0.625 | 0.239 | Nil | |
| 2020-21 | 0.625 | 0.234 | Nil | |
| 2021-22 | 0.625 | 0.164 | Nil | |
| 2022-23 | 0.625 | 0.159 | Nil | |
| 2023-24 | 0.625 | 0.158 | Nil | |
| 2024-25 | 0.360 | 0.162 | Nil | |

There is no excess production since EC issued for capacity 0.625 MTPA on 24.05.2005 before than mine was running on CTO.

29.7.3: Certified Compliance Report: The mine was inspected on 26.11.2024 by IRO, MOEF&CC, Bhopal and compliance status of earlier EC (CCR) was obtained vide letter No.3-39/2005(Env) Dated: 27.02.2025 in the name of M/s. Rajendra UG Project. And the same was submitted to MoEF&CC vide PARIVESH portal on 27.05.2025 i.e. well within the time frame of 1 year. The Action report regarding the EC conditions has been submitted. The details of the observations made by IRO in the CCR report with ATR/compliance status as furnished by PP is given:

| S. No. | Condition | Compliance status | Comments/ Observations of IRO | ATR on the Observation |
|--------|--|--|--|---|
| xiii | The Project proponent shall effectively implement measures outlined in the conservation plan for schedule –I fauna such as the sloth bear and python in consultation with the concerned forest officials. The effectiveness of the conservation measures shall be monitored with inputs obtained from Forest Department and report furnished to this Ministry and its Regional Office. | For conservation, restoration and rehabilitation of sloth bear, python and monitor lizard a study has been conducted by TFRI, Jabalpur. The report is submitted for approval of wildlife warden. | Observation during the site visit: It is noted that study has been conducted by TFRI, Jabalpur for conservation, restoration and rehabilitation of sloth bear, python and monitor lizard. It is informed that the report is submitted for approval of wild life warden. In view of the information furnished by the Project Proponent and as per the site observations noted above, the stipulated condition is considered as Compliance in progress w.r.t. said site visit. COMPLIANCE IN PROGRESS. | The wild life conservation plan has been prepared by TFRI, Jabalpur. The final report has been submitted to the DFO, South Shahdol via letter no. 337 dated 06.11.23 and to the Chief Wild Life Warden via letter no. 288 dated 15.09.2023. After scrutiny of the plan by SDO, Jaithari, the DFO, South Shahdol recommended and forwarded the plan to Chief Conservator of Forest (CCF), Shahdol vide letter no. 1938 dated 27.06.2025. The report is under scrutiny at CCF, Shahdol for onward submission to PCCF (Wildlife), Bhopal for approval. |

29.7.4: Environmental Site Settings:

The project area is covered under Survey of India Toposheet No. 64E/8 and is bounded by

the geographical coordinates ranging from Latitude: 23° 08'12'' to 23°10'10'' N Longitude: 81°28'05'' to 81°30'50'' E.

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

Mining Lease: PP submitted that said coal block of 2081.674 Ha was acquired under the CBA Act, 1957 vide S.O. 801 dated 31.03.1990. The rights are vested with the coal producing company perpetually. The EC vide letter dated 24.05.2005 was granted for the production capacity of 0.625 MTPA within the ML area of 590 Ha. However, the mining activity is restricted to 524.3 Ha only. The 65.7 Ha of area being reduced is entirely the forestland.

Forest Area: The project involves 138.485 Ha forest land, the details of the permission applied for is as follows:

| Total FC land (In ha) | Forest land falling under proposed EC boundary (In ha) | Status of FC | FC letter no. and validity | Remarks |
|-----------------------|--|--------------|--|--|
| 113.11 | 100.91 | Stage -II | F.No.8-220/1991-FC(Pt.) dtd 26/08/2011, Valid up to 26.08.2031 | 12.20 Ha of 113.11 Ha FL patch is falling outside of EC boundary. |
| 36.364 | 36.364 | Stage.II | F.No.8-42/98-FC dtd. 31/07/1998 valid upto 31.07.2028 | |
| 1.211 | 1.211 | Stage -II | F.No.8-B/53/95-FCW/1329, Dtd. 06/09/1995- land for Road | |
| 36* | 0 | Stage -II | F.No.8-2/2000/FC, Dtd.19/07/2000 | Excluded from mine boundary due to geological disturbance |
| 17.5* | 0 | | | Excluded from mine boundary due to geological disturbance. Further, a letter from DFO has been submitted by the PP wherein, it is mentioned that, 17.5 Ha of FL has not been diverted, neither any application for the same has been submitted by the user agency. |
| 204.185 | 138.485 | | | |

PP further submitted that 138.485 Ha of forestland is broken up (on which Stage- II forest clearance has been obtained) and the project does not involve the violation of Van (Sanrakshan Evam Samvardhan) Adhiniyam, 1980.

Protected Area: The project is not located within 10 KM of any ESZ/ ESA/ national park/ wildlife sanctuary/ biosphere reserve/ tiger reserve/ elephant reserve/tiger corridor/elephant corridor etc. There are presences of Schedule – I species (namely: Monitor Lizard, Sloth Bear and Leopard), and a wildlife conservation plan has been prepared and submitted to Chief Wildlife Warden, Bhopal, MP, which is under technical sanction at CF, Shahdol after scrutiny of SDO, Jaitpur and DFO, South Shahdol. The same is yet to be approved.

Other Sensitive Receptors:

| Project site proximity to sensitive area | Distance in km (within 5 km from the ML area) | | | |
|--|---|----------------------|--|------------|
| i. Habitation | Particulars | Distance | Direction | |
| | KhannathVillage | Within mine boundary | - | |
| | Chirihati Village | Within mine boundary | - | |
| | Navgaowna Village | Within mine boundary | - | |
| | Sironja Village | Within mine boundary | - | |
| | Khairaha Village | 3 km | west | |
| ii. School | Particulars | | Distance | Direction |
| | Govt. Middle School (Chirhati Village) | | 1 km | North East |
| | Private primary school (Chirhati Village) | | 1 km | North East |
| | Anganwadi (Chirhati Village) | | 1 km | North East |
| | Govt High School (Sironja Village) | | 1 km | East |
| | Anganwadi (Sironja Village) | | 1 km | East |
| | Private primary school (Sironja Village) | | 1 km | East |
| | Shishu Mandir Middle school (Sironja Village) | | 1 km | East |
| | Govt High School (Kannath Village) | | 2 km | South |
| | Govt primary School (Kannath Village) | | 2 km | South |
| iii. River/ Waterbody | Particulars | | Distance | Direction |
| | Baisaha nallah | | West Near the edge of Mine Lease (HFL-484 m) | |
| | Sarpha Nallah | | 2 km | West |
| | Kudari Nallah | | Over the mine Lease towards North | |
| | Kathaha River | | 4.5 km (HFL: 490.20m) | Northwest |
| | Naragara River | | 4.5 km (HFL: 489.40m) | Northeast |
| iv. Forest | Particulars | | Distance/Direction | |
| | Burhar RF | | West Near Mine Lease Boundary | |
| v. Archaeological Survey of India (ASI) protected site | No | | | |
| vi. Any other | No | | | |

29.7.5: Method of Mining and Mining Plan: Mining plan along with mine closure plan approved in the 294th Meeting of CoFD, SECL held on 21.05.2025 for the ML area of 524.3 Ha, for the production capacity of 0.625 MTPA. As per the originally approved project report submitted at the time of grant of EC during 2005, the life of the mine was 27 years. However, now the PP has submitted a fresh mining plan and mine closure plan for the reduced ML area of 524 Ha. The life of the mine as stated in the newly approved mine plan and mine closure plan is within the overall life of the previously approved mine plan.

1. Method of Mining to be adopted shall be Underground mining, with bord and pillar method.
2. There is no coal washery proposed in the project.
3. Net geological reserve reported in the mine lease area is 20.58 MT with 15.00 MT mineable reserves. Out of total mineable reserve of 12.312 MT, 12.212 MT are available for extraction. The percentage of extraction is 59.83 % of geological reserve.
4. There are 03 workable seams with thickness ranging from 0.33 m to 4.75 m. Grade of coal is G-7.
5. Life of mine is 07 years (as on 01.04.2025)
6. Details of Land use pattern:

a. Pre- mining land use:

| Land Category | Within ML Area (in ha) | Outside ML Area (in ha) | Total (in ha) |
|----------------------|------------------------|-------------------------|---------------|
| Agriculture Land | 342.99 | 0 | 342.99 |
| Forest Land | 138.485 | 0 | 138.485 |
| Waste land | 7.16 | 0 | 7.16 |
| Grazing land | 0 | 0 | 0 |
| Surface water bodies | 3.9 | 0 | 3.9 |
| Settlements | 0 | 0 | 0 |
| Others (Govt. land) | 31.765 | 0 | 31.765 |
| Total | 524.3 | 0 | 524.3 |

b. Post – mining land use pattern:

| Type | Total Area (in ha) | Reclaimed Area (in ha) | Undisturbed Area (in ha) |
|---|--------------------|------------------------|--------------------------|
| Excavation/Quarry (UG Working) Area: | 501.36 | 0 | 501.36* |
| Mine infrastructure including Safety Zone | 12.84 | 12.84 | 0 |
| Road | 6.2 | 0 | 6.2 |
| Others (Water body) | 3.9 | 0 | 3.9 |
| Total | 524.3 | 12.84 | 511.46* |

**UG mine has minimum surface disturbance; this land will be gainfully utilized for plantation (about 75 ha. plantation already completed) solar panel installation, agriculture and other purposes.

7. Details of transportation:

- In-pit (UG) to surface:** Transportation of coal from underground to Bunkers (located on surface) is being done through series of conveyor belts.
- Surface to siding:** The transportation of coal from stock yard/ bunker to Burhar Railway Siding by tarpaulin covered trucks/ tippers (distance -13 km)
- Siding to loading:** Coal from Burhar Railway siding will be loaded into railway wagons by mechanical means (i.e. payloaders).
- Quantity being transported by Road and rail:** 0.944 MTPA

8. **Details of reclamation:** 12.84 ha area of mine infrastructure will be reclaimed and afforested post closure. Density of plantation will be 2500 trees per hectare.

29.7.6: Water Requirement: PP submitted that the total water required for the said project is 164 KLD (154 KLD for industrial use + 10 KLD for potable use). The source of water is mine seepage water. NoC from CGWA has been obtained by the PP vide no. CGWA/NOC/MIN/REN/1/2025/11288 dtd 01.04.2025 valid till 01.11.2025. PP further submitted that, excess mine water after treatment in being released in to Sarpha Nallah for irrigation and use to Shahdol Town residents. There is no water body proposed for diversion.

29.7.7: Power Requirement and details of diversion of Hi-Tension/ Transmission Line: A 33KV feeder, length 32 Km has been drawn from MPEB Chachai, 1 Nos. Transformers of 1.6 and 2.5 MVA and 1 Nos. station transformer of 100 KVA are presently installed at the main surface substation. Total power requirement of the mine is 2300 KVA. There is no diversion of Hi – tension / transmission line proposed for the said project.

29.7.8: Solid and Hazardous Waste:

| S. No. | Type of Waste | Source | Quantity (TPA) | Mode of Treatment | Disposal |
|--------|--|-----------------------------------|----------------|--|--|
| 1. | Used oil. (Cat. 5.1) | UG mining and ancillary machinery | 3.45 MT | Collected and stored in steel barrels and kept in covered shed with elevated pucca platform. | Through e-auction |
| 2. | Wastes containing residues of oil (Cat. 5.2) | UG mining and ancillary machinery | 0.2 MT | Collected and stored in steel barrels and kept in covered shed with elevated pucca platform. | Agreement made for disposal through MPPCB approved common disposal facility. |

29.7.9: Details of Public Consultation:

| Title | Old public hearing | Public Notice for revalidation |
|---|--|--|
| Details of advertisement given | In Dainik Bharti and Dainik Bhaskar on 29.07.2003 | Published on 09.07.2022 in National edition – Pradesh Today Newspaper, Local edition – Pradesh Today edition and Samay Newspaper |
| Date of public consultation | 30.08.2003 | 09.07.2022 |
| Venue | PWD Rest House, Budhar Dist-Shahdol (MP) | NA |
| Presiding Officer | SDM, Sohagpur Area, Shahdol, RO, MPPCB, Rewa | NA |
| Number of Person Attended Hearing | 45 | NA |
| Number of representations received in writing from the district and outside of district, please give details: | NIL (No written representation received in writing. All the issues were raised in the public hearing at site.) | No representation received (as confirmed by RO MPPCB Shahdol vide letter no. 4057 Dated 07.02.2024) |
| Major issues raised | Issues raised for supply of drinking water, Air & water pollution, health, employments, blasting and plantation in around the mine area. | NIL |

Action plan as per MoEF&CC O.M. dated 30.09.2020 – This is a running mine and PH was held on 30.08.2003. All the issues raised during the public hearing have been implemented and expenditure are covered under mine revenue head.

Action plan as per MoEF&CC O.M. dated 30.09.2020.

| S. No. | Physical activity and action plan | Year of implementation (Budget in Lakh) | | | | | | | Total Expenditure (in Rs Lakhs) |
|--------|---|---|-------------|-------------|-------------|-------------|-------------|-----------|---------------------------------|
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | |
| 1 | Infrastructure creation for drinking water Supply | 3 | 2 | 2 | 2 | 2 | 2 | 2 | 15 |
| 3 | Education and skill development | 3 | 2 | 2 | 2 | 2 | 2 | 2 | 15 |
| 4 | Encouraging sports in village | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 2 |
| 6 | Road Infrastructure | 3 | 3 | 3 | 3 | 3 | 3 | 2 | 20 |
| 7 | Lighting arrangement | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1 | 10 |
| 8 | others | 7 | 7 | 7 | 7 | 7 | 7 | 5 | 47 |
| | Total | 18.5 | 16.5 | 15.5 | 15.5 | 15.5 | 15.5 | 12 | 109 |

29.7.10: EMP Budget: Existing capital cost of project was Rs. 85.26 crores as per mining plan approved on 21.05.2025. The EIA EMP cost is Rs. 183.126 Lakhs (capital) and Rs. 141.41/Annum (Revenue). The employment generation from the project is approximately 237 nos. The details of cost for environmental measures are as follows.

| S. No. | Description of Item | Existing (In Lakh) | | Proposed (in Lakhs) | |
|--------------|---|--------------------|--------------------------|---------------------|--------------------------|
| | | Capital (In Lakh) | Recurring (In Lakh/year) | Capital (In Lakh) | Recurring (In Lakh/year) |
| (i) | Air Pollution Control/ Noise Management | 45.374 | 0 | 35 | 70 |
| (ii) | Water Pollution Control | 13.342 | 0 | 10 | 20 |
| (iii) | Environmental Monitoring and Management | 0 | 2.5 | 0 | 0 |
| (iv) | Green Belt & Plantation Development | 16.03 | 1 | 0 | 0 |
| (v) | Other heads as proposed in EIA/committed during the EAC | 8.38 | 2.91 | 55 | 45 |
| Total | | 83.126 | 6.41 | 100 | 135 |

29.7.11: Plantation: Existing green belt/Plantation in the mine premises has been done in approx. 2.0 ha area which is about 15.6 % of the infrastructure area i.e. 12.84 ha with total sapling of 5000 Trees. About 75 ha plantation has been done upon the UG mining area. Thus, total of 77 Ha area (14.7 % of total ML area) is developed as Plantation.

29.7.12: Rehabilitation and Resettlement (R&R): No rehabilitation and resettlement are involved in the Rajendra UG project, a total of 237 land outsee are affected due to the acquisition of agricultural land, about Rs. 2 crores in compensation has been paid, and 102 nos. out of the total 237 nos, of employment have already given. The employment process of the remaining 135 nos of land outsees is under process.

29.7.13: Project Cost: The total capital cost of the project is Rs. 85.26 Crores.

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

29.7.15: Undertaking and Affidavit: PP submitted the following affidavit:

- This is to undertake with respect to Rajendra UG project that there is no construction/ mining done at the site or the construction/mining done at the site or the construction done without any deviation as per the EC obtained (vide F. No.J-11015/64/2005-IA-II(M) Date 24.5.2005).
- This is to undertake with respect to the Rajendra UG project 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.
- This is to undertake with respect to Rajendra UG project that the mining activity is restricted to 524.30 ha. as per the provision of Coal Bearing Areas (Acquisition and Development) Act 1957 vide Gazette notification S. O. No. 801, date 31.03.1990, Total notified Area- 2081.674 ha. under Karkati block.
- This is to undertake with respect to Rajendra UG project that there is no difference in the documents submitted i.e., Form 1, Mining Plan, and presentation being made to the EAC.

- This is to undertake with respect to Rajendra UG project that the project is being submitted for granted of revalidation of EC under the provisions of MoEF&CC S.O. 1530E dated 06.04.2018.

29.7.16: ADS Reply: The proposal was initially considered in 44th meeting of EAC (Coal Mining Sector) held on 24-25/04/2019 and the proposal was deferred for want of additional information. The proponent submitted the ADS reply vide letter uploaded on PARIVESH portal. Point-wise reply of ADS is given as below:

| S. No. | | Points of the EAC Meeting held on 24-25/04/2019 – Agenda Item No. 44.12 | Reply of PP | | | | | | | | | | | | | | |
|--|---|--|--|---------|--|--|--|----------|---------------------------|-------------------|--------------|---------|--|--|--|--|--|
| 1 | Public notice shall be issued through concerned SPCB for information of the stakeholders about the present coal mining operations inviting comments and their redressal. | The public notice seeking suggestions/objections were published on 09.07.2022 in National edition – Pradesh Today Newspaper, Local edition – Pradesh Today edition and Samay Newspaper. No comments/suggestions/objections were received. The same is also communicated by the regional officer (RO), MP Pollution Control Board, Shahdol vide his letter no. 4057 Dated 07.02.2024. | | | | | | | | | | | | | | | |
| 2 | Mining Plan and Progressive Mine Closure Plan duly approved by the competent authority. | The Mining plan including mine closure plan for Rajendra UG Mine with 0.625 MTPA (project area 524.3 ha.) has been approved by the CoFD of South Eastern Coalfields Limited (SECL) in its 294th meeting held on 21.05.2025. | | | | | | | | | | | | | | | |
| 3 | Compliance status of the conditions stipulated in the environmental clearance from the concerned Regional Office of the Ministry. | The IRO inspection of the mine was done on 26.11.2024 and Certified Compliance Report (CCR) of the EC condition was provided by the Regional Officer vide its letter dated letter 3-39/2005(Env) dated 27.02.2025. | | | | | | | | | | | | | | | |
| 4 | Valid Consent to operate from the State Pollution Control Board for the present mining operations. | The Rajendra UG Mine is having a valid Consent to Operate (CTO) which was issued vide order no. AW- by MPPCB, Bhopal which is valid AW-62329 up to 31.03.2026. | | | | | | | | | | | | | | | |
| 5 | Redressal of issues raised during the public hearing conducted by the SPCB | The PH was held on 12.10.2003. The point wise compliance and action taken on the issues raised during public hearing is submitted. | | | | | | | | | | | | | | | |
| 6 | Coal production realized from the mine from 1993-94 vis-à-vis capacity stipulated in the environment clearance. | The year wise coal production detail of the Mine is submitted. | | | | | | | | | | | | | | | |
| 7 | Need assessment survey for the activities proposed under the CSR and the comprehensive plan to be prepared accordingly for implementation by the project proponent. Also, impact of the CSR activities undertaken at an interval of 5 years to be evaluated and a report to be submitted. | The need-based assessment survey has been conducted for the village falling in core zone, i.e. Chirhati Village, Sironja Village, Navgaon Village and Khannath Village which is enclosed. The impact assessment report of CSR activities is also undertaken at the interval of 05 years period. | | | | | | | | | | | | | | | |
| 8 | Forest clearance for diversion of 17.50 ha of forest land as required under the Forest, (Conservation) Act, 1980. | <div>The mining area as per EC dated 24.05.2005 was 590 Ha which includes 204.185 Ha Forest land.</div> <div>The mining area has been restricted to 524.30 ha as per latest approved mine plan (Approval dt: 21.05.2025) due to geological disturbed area-fault. The revised land use details are provided below:</div> <table><tr><th colspan="5">Land use status – Rajendra UG (0.625 MTPA)</th></tr><tr><th>Land use</th><th>As per EC 24.05.2005(Area</th><th>Present status as</th><th>Present Land</th><th>Remarks</th></tr><tr><td></td><td></td><td></td><td></td><td></td></tr></table> | Land use status – Rajendra UG (0.625 MTPA) | | | | | Land use | As per EC 24.05.2005(Area | Present status as | Present Land | Remarks | | | | | |
| Land use status – Rajendra UG (0.625 MTPA) | | | | | | | | | | | | | | | | | |
| Land use | As per EC 24.05.2005(Area | Present status as | Present Land | Remarks | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |

| S. No. | Points of the EAC Meeting held on 24-25/04/2019 – Agenda Item No. 44.12 | Reply of PP | | | | |
|--------|--|---|--|---|---|---|
| | | type | in ha) | per tehsil records (Area in ha) | status as per revised mine plan | |
| | | Tenancy land | 385.815 | 342.99 | 342.99 | |
| | | Govt. land | | 42.825 | 42.825 | |
| | | Forest land | 204.185 | 204.185 | 138.485 | 65.70 ha forest land has been reduced due to geological disturbed area – fault. |
| | | Total | 590.000 | 590.000 | 524.300 | |
| | | The details of diversion of FL and restricting mining in forest land is detailed below: | | | | |
| | | FC land (in ha) as per EC | Details of FC Permission | FL Land as per revised mining plan (in Ha.) | Remarks | |
| | | 113.11 | Stage-II F.No.8-220/1991-FC(Pt.) dtd. 26/08/2011, Validity -20 years | 100.91 | 12.20 Ha of 113.11 Ha FL patch is falling outside of EC boundary. | |
| | | 36.364 | Stage-II F.No.8-42/98-FC dtd. 31/07/1998, Validity -30 years | 36.364 | | |
| | | 1.211 | Stage-II F.No.8-B/53/95-FCW/1329, dtd. 06/09/1995, Land for Road | 1.211 | | |
| 36 | Stage-II F.No.82/2000/FC, dtd.19/07/2000 Land surrender to DFO, Shahdol (MP), Validity -10 years | - | Excluded because of geological disturbed area- fault | | | |
| 17.5 | Not diverted, not workable due to major downthrow fault | - | Excluded because of geological disturbed area- fault | | | |
| | | 204.185 | | 138.485 | | |
| 9 | Details of court cases and the compliance of the orders, if any. | There is no litigation pending on the project at NGT or any other court of law under EP Act, 1986, Air act 1981 or Water Act, 1974. An undertaking for the same is submitted. | | | | |

| S. No. | Points of the EAC Meeting held on 24-25/04/2019 – Agenda Item No. 44.12 | Reply of PP |
|--------|---|---|
| 10 | Compliance of the Ministry's OM dated 30th May 2018. | The project proponent has submitted the application for revalidation of EC to MOEF&CC, New Delhi in compliance of the Gazette Notification issued by MOEF&CC, New Delhi on dated 06.04.2018. The proposal was considered in the EAC meeting held on 24-25 April 2019. |

Again, an ADS raised on 04.06.2025, The ADS reply was submitted via PARIVESH portal on 05.07.2025.

| S. N. | Additional Details Sought on 04.06.2025 | Reply of PP |
|-------|--|--|
| 1. | The proposal was deferred by the EAC in its meeting held on 24-25th April 2019. Reply to the same is being submitted by the proponent after the span of 6 years. The proponent may kindly justify the reasons for delay in the submitted of ASD reply after the span of 6 years. | <p>The delay of approximately six years in submission of the reply to the queries raised during the EAC meeting held on 24–25 April 2019 is regretted and may kindly be considered in light of the following justifications:</p> <ol style="list-style-type: none"> 1. The COVID-19 outbreak (2020–2022) severely affected operations, manpower availability, field work, and coordination with statutory authorities, resulting in unavoidable delays. 2. In compliance with the EAC instruction, the paper publication regarding the mining operations of the Rajendra UG Mine was issued on 09.07.2022, but the official response from the Regional Officer, MPPCB Shahdol, regarding queries/comments/ response from the project-affected people was received on 07.12.2024 (vide letter no. 4057). 3. Due to delay in Revised Mining Plan: The mine management was required to prepare a revised mining plan as out of the total 204.185 Ha of Forest land, 65.7 Ha of Forest land was excluded due to non-workability-geological disturbed area/FL surrender to the state government/ non-diverted FL. The reassessment, preparation, and approval of the revised Mining plan were delayed and approved on 21.05.2025. 4. Certified Compliance Report (CCR): After requesting the Regional Office of the Ministry for inspection and providing a certified compliance report of the EC conditions of the Rajendra UG Mine, the mine was inspected by the IRO on 13.07.2023, and the final report was issued on 01.01.2024. But its validity lapsed due to a delay in receiving MPPCB's response in respect of public notice publication. A second inspection was requested and carried out in December 2024, and the final CCR was received on 27.02.2025. |
| 2. | From the ADS reply it is observed that the PP has proposed to reduce 65.7 Ha of forestland from the ML area of the instant proposal. Out of this 65.7 Ha of forestland, it is submitted that 36 ha of forestland has been surrendered to the DFO and 17.5 Ha of forestland is not diverted and not workable. It is requested to submit the letter of DFO for 36 Ha of forestland which has been surrendered and another letter of DFO verifying that the 17.5 Ha of forestland is not diverted till date by the proponent along with a map depicting the | <p>A letter from the DFO South Shahdol is attached as Annexure – II certifying that the PP has requested the surrender of 36 Ha of Forest land of Rajendra UG Mine and is under consideration at the State Forest Department.</p> <p>Regarding 17.5 Ha Forest land of Rajendra UG Mine has not been diverted, nor has any application/proposal been submitted in this regard. (DFO letter vide no. 6168 dated 02.07.2025 is submitted)</p> |

| S. N. | Additional Details Sought on 04.06.2025 | Reply of PP |
|-------|--|--|
| | extent of forest land in the ML area. | |
| 3. | It is requested to submit the present quality of environmental parameters from secondary monitored data being collected by the PP. | Routine environmental monitoring is being carried out in the project and the data for the same has been submitted for a period from April 2024 to March 2025 |

29.7.17: Written Submission: PP submitted the following undertakings during the meeting:

1. Undertaking for additional EMP Cost.
2. Undertaking for reduction in forestland.
3. Undertaking for additional plantation.

Observation and deliberation of the EAC:

29.7.18: The Committee noted the following:

1. The instant proposal is for revalidation of EC accorded by M/s South Eastern Coalfields Ltd for Rajendra UG project vide letter no. J-11015/64/2005-IA-II(M) on 24.05.2005 for production capacity of 0.625 MTPA within the ML area of 590 Ha, under EIA Notification, 1994. In the instant proposal, the ML area is being reduced from 590 Ha to 524.3 Ha. The revalidation of EC granted is under EIA Notification 2006 (as amended) as per the provision of S.O 1530(E) dated 06.04.2018 read with OM dated 16.02.2021.
2. PP applied for revalidation of EC in PARIVESH Portal on 21.09.2018, i.e., well within the window period of 6 months (i.e. before 5.10.2018) and also submitted Form-1 as required under S.O 1530(E) dated 06.04.2018 for the re-validation of EC under EIA Notification 2006 (as amended).
3. Committee observed that the said project was earlier apprised in 44th meeting of EAC (Coal Mining Sector) held on 24-25/04/2019 and the same was deferred for want of additional information. PP submitted the same vide letter dated 27.05.2025 and 05.07.2025 on PARIVESH 1.0 Portal.
4. Committee observed that the coal produced from the said mines is well within the EC capacity, since the EC is granted and there is no excess production.
5. Committee deliberated on the certified compliance report obtained by the PP. Committee observed that status of compliance of earlier EC was obtained from Regional office of Bhopal vide letter no. 3-10/2004(Env) Dated: 03.01.2025 in the name of M/s. Rajendra UG Project and the same was submitted to MoEF&CC vide PARIVESH portal on 27.05.2025. There were no non-complied conditions observed in the said CCR. However, there is one partially complied condition pertaining to preparation of Wildlife Conservation Plan, for which PP has submitted the ATR informing that the wildlife conservation plan has been prepared and submitted to Chief Wildlife Warden, Bhopal, MP for approval.
6. Project does not fall in the Critically Polluted Area (CPA)/ Severely Polluted Area

(SPA), as per CEPI Assessment 2018.

7. Committee observed that as per the EC dated 24.05.2005, the project involved 204.185 Ha of forestland. However, in the instant proposal the forestland is being reduced from 204.185 Ha to 138.485 Ha. Committee observed that, PP has obtained Stage – II forest clearance on 186.685 Ha. The forestland being retained in the said project has stage – II forest clearance. Committee further observed that, 17.5 Ha of forestland (which is also being reduced from the instant project) does not have forest clearance. PP also submitted a letter from DFO in this regard that the said forestland is not diverted and the PP had never submitted any application for obtaining clearance on the same.
Committee opined, that the 65.7 Ha of forestland which is being reduced shall be returned to the forest department.
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. Committee observed that there is presence of Schedule – I species and Wildlife Conservation Plan has been prepared by the PP and submitted to Chief Wildlife Warden, Bhopal, MP. The same is yet to be approved. Committee opined that the same shall be approved and the required amount shall be deposited with the competent authority in this regard.
9. Mining plan along with mine closure plan for the said mine was approved in the 294th Meeting of CoFD, SECL held on 21.05.2025 for the ML area of 524.3 Ha, for the production capacity of 0.625 MTPA.
10. Method of Mining to be adopted shall be Underground mining, with bord and pillar method. Net geological reserve reported in the mine lease area is 20.58 MT with 15.00 MT mineable reserves. Out of total mineable reserve of 12.312 MT, 12.212 MT are available for extraction. The percentage of extraction is 59.83 % of geological reserve.
11. There are 03 workable seams with thickness ranging from 0.33 m to 4.75 m. Grade of coal is G-7. Life of mine is 07 years (as on 01.04.2025).
12. Committee deliberated on the mode of transportation proposed for the said project and observed that, from in – pit to surface the coal is being transported through series of conveyor belts. Then from surface to Burhar railway siding the coal is being transported from by tarpaulin covered trucks at a distance of approx. 13 km. Committee opined that PP shall take adequate measures to control the pollution being done due to road transportation of coal and PP shall carryout regular maintenance of the potholes on roads, repair and maintenance of roads, scrapping of material fallen on roads, and removal of scraps from mining areas. Along with this, PP shall make sure that all the pollution control equipments are in good working condition and maintenance of those equipments is regularly carried out.

Committee also opined that PP shall develop thick plantation with native and fruit bearing species on both the sides of the coal transportation road.
13. Committee deliberated on the routine monitoring data of the AAQ parameters of the said mine and observed that all the parameters are within the permissible limits.

14. Committee deliberated on the water requirement of the said mines and observed that, the total water requirement for the said mine is 164 KLD (154 KLD for industrial use + 10 KLD for potable use). The source of water is mine seepage water. NoC from CGWA has been obtained by the PP vide no. CGWA/NOC/MIN/REN/1/2025/11288 dtd 01.04.2025 valid till 01.11.2025. PP further submitted that, excess mine water after treatment is being released in to Sarpha Nallah for irrigation and use to Shahdol Town residents. There is no water body proposed for diversion.
15. Total power requirement of the mine is 2300 KVA. A 33KV feeder, length 32 Km has been drawn from MPEB Chachai, 1 Nos. Transformers of 1.6 and 2.5 MVA and 1 Nos. station transformer of 100 KVA are presently installed at the main surface substation. There is no diversion of Hi – tension/ transmission line proposed for the said project.
16. Committee observed that, advertisement for public consultation through written submissions was given in accordance to Ministry's OM dated 16.02.2021, in National edition – Pradesh Today Newspaper, Local edition – Pradesh Today edition and Samay Newspaper of 09.07.2022. As per the confirmation letter received from RO MPPCB Shahdol vide letter no. 4057 Dated 07.02.2024, no representations were received from public for the same. However, since the said mine is a running mine and first public hearing for the same took place on 30.08.2003, in which the major issues raised by the public were related to supply of drinking water, Air & water pollution, health, employments, blasting and plantation in around the mine area. PP also submitted an action plan for those issues as per MoEF&CC O.M. dated 30.09.2020, with the budgetary provision of Rs. 109 Lakhs. Committee opined that the same shall be implemented efficiently in a time bound manner.
17. Further, Committee deliberated on EMP budget submitted by the PP and observed that, the capital cost proposed including the existing cost is Rs. 85.26 crores. The capital cost for environmental protection measures is proposed as Rs. 183.126 Lakhs and the annual recurring cost towards the environmental protection measures is proposed as Rs. 141.41/Annum. Committee opined that the same shall be efficiently implemented in a time – bound manner.
18. Committee deliberated on the plantation activities done by the PP till date and observed that, proposed greenbelt has been developed in approx. 2.0 ha area which is about 15.6 % of the infrastructure area i.e. 12.84 ha with total sapling of 5000 Trees. About 75 ha plantation has been done upon the UG mining area. Thus, total of 77 Ha area (14.7 % of total ML area) is developed as Plantation. Committee opined that, the PP shall focus on agro-forestry and fruit bearing species shall be distributed and planted on the periphery of the agricultural farms of the villagers, by developing a plan to compensate the farmers/ villagers for survival of these fruit bearing trees. Plantation shall also be developed on both the sides of the coal transportation road with the native species. Further, on the suggestion of the EAC, PP submitted an undertaking stating that, additional plantation with atleast 40,000 saplings, will be done additional 16 Ha area.
19. Committee deliberated on the R&R Plan for the said mine and observed that no rehabilitation and resettlement are involved in the Rajendra UG project, a total of 237 land outsee are affected due to the acquisition of agricultural land, about Rs. 2 crores in compensation has been paid, and 102 nos. out of the total 237 nos, of employment

have already given. The employment process of the remaining 135 nos of land outsees is under process. Committee opined that the same shall be completed at the earliest.

20. There is no legal issues / violation w.r.t i) Environment (Protection) Act, ii) Air(P&CP) Act, Water (P&CP), Act, Van (Sanrakshan Evam Samvardhan) Adhiniyam, Wildlife Protection Act, MMDR Act, Factories Act. Further, there is no court case on the project.
21. Committee opined that the PP shall align its activities with the sustainable development goals.
22. The EAC also deliberated on the ADS reply and written submissions of the project proponent and found it satisfactory.
23. The EAC noted that the Project Proponent has given an undertaking that the data and information given in the application and enclosures are true to the best of his knowledge and belief and no information has been suppressed in the EIA/EMP reports. If any part of data/information submitted is found to be false/ misleading at any stage, the project will be rejected and Environmental Clearance given, if any, will be revoked at the risk and cost of the project proponent.

Recommendations of the Committee:

29.7.19: In view of the foregoing and after detailed deliberations, the committee **recommended** the instant proposal for grant of revalidation of EC dated 24.05.2005 as per provisions of S.O. 1530(E) dated 06.04.2018 read with OM dated 16.02.2021. Grant of revalidation of EC is subject to the compliance of the following specific conditions and standard conditions in addition to the conditions granted in earlier EC:

Specific Conditions:

1. The excess mine water shall be discharged after proper treatment and in consultation with MPPCB (adequate for use of local villagers for irrigation purpose) in the Sarpha nallah.
2. Only 138.485 Ha of forestland shall be utilized for mining activities in the instant project, against the 204.185 Ha of forest clearance accorded in the name of Rajendra UG. PP shall clearly demarcate the 65.7 Ha of forestland, in consultation with the State forest department, not included in the instant proposal. All officers, supervisors, overman, mate, workers, operators, persons employed in the mine should be made aware about the unutilised forestland and its boundaries so that there is no disturbance of the same.
3. Project proponent shall surrender the 65.7 Ha of forestland to the forest department, which is being excluded from the ML area of the instant proposal within one month from the date of issue of revalidated EC and compliance in this regard shall be submitted to the Regional Office of the MoEF&CC along with the six monthly compliance report.
4. Project proponent shall obtain the Wildlife Conservation Plan approved by the PCCF (Wildlife). The final Wildlife conservation plan duly approved by the CWLW shall be submitted to RO, MoEF&CC within a time frame of three months from the date of grant of revalidation of EC and the budget approved by the concerned authority shall be deposited in government account.

5. PP shall monitor the subsidence and take necessary measures/ steps for filling the subsidence area as per subsidence plan.
6. The budget proposed for Public Hearing is Rs. 109 Lakhs. The budget proposed shall be kept in a separate account and shall be audited annually. Project proponent shall implement the action plan to address the issues raised during public hearing within a time frame of 7 years from the date of grant of revalidation of EC. PP shall submit the progress report regarding the implementation of the action plan to concerned RO along with the six-monthly compliance report.
7. Project proponent shall implement the protective measure proposed in Environment Management Plan (EMP) in a time-bound manner. The budget earmarked for the same is Rs 183.126 Lakhs (Capital) and Rs 141.41 Lakhs per annum (recurring) and should be kept in separate accounts and audited annually. The implementation status along with the amount spent with documentary proof shall be submitted to the concerned Regional Office for the activities carried out during the previous year.
8. Total plantation by the end of the mine life shall be done in at least 93 Ha of ML area. Apart from this agro forestry and community plantation shall be carried out on the land purchased for surface rights. Dense plantation shall also be carried out on both the sides of coal transportation roads with at least of 2 meter height saplings in this monsoon of 2025. Plantation shall be done with the mainly native species.
9. Project proponent shall complete the process of providing employment to the remaining 135 nos of land outsees.
10. Proponent shall carryout regular maintenance of the potholes on roads, repair and maintenance of roads, scrapping of material fallen on roads, and removal of scraps from mining areas. Along with this, PP shall make sure that all the pollution control equipments are in good working condition and maintenance of those equipments is regularly carried out.
11. Project Proponent shall ensure that all types of plastic waste generated from the mines shall be stored separately in isolated areas and disposed of strictly adhering to the Plastic Waste Management Rules 2016. In pursuant to the Ministry's OM dated 18/07/2022, PP shall also create awareness among the people working in the project area as well as in its surrounding area on the ban on Single Use Plastic (SUP) in order to ensure compliance of the Ministry's Notification published by the Ministry on 12/08/2021. A report along with the photographs of the measures taken shall also be included in the six monthly compliance reports being submitted by PP.
12. PP should establish an Environment Management Cell at its mines in order to make sure that all the compliances related to environment are being complied efficiently. PP should conduct the monthly review meeting with the environment management cell shall be carried out at mine level and quarterly at with environment management committee of the company. The record of the same shall be maintained.
13. The proponent shall obtain all necessary clearances/approvals that may be required before the start of the project.
14. The Ministry or any other competent authority may stipulate any further condition for environmental protection.
15. The Environmental Clearance to the aforementioned project is under provisions of EIA Notification, 2006. It does not tantamount to approvals/consent/permissions etc. required to be obtained under any other Act/Rule/regulation.

16. The Project Proponent is under obligation to obtain approvals /clearances under any other Acts/Regulations or Statutes, as applicable, to the project.
17. The PP is under obligation to implement commitments made in the Environment Management Plan, which forms part of this EC.
18. Validity of EC is as per the para 9 of EIA Notification 2006 read with its subsequent amendment dated 12th April 2022.
19. Any appeal against this environmental clearance shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.
20. The coal company/project proponent shall be liable to pay the compensation against the illegal mining, if any, and as raised by the respective State Governments at any point of time, in terms of the orders dated 2nd August, 2017 of Hon'ble Supreme Court in WP (Civil) No.114/2014 in the matter of Common Cause Vs Union of India & others.
21. The concerned State Government shall ensure no mining operations to commence till the entire compensation for illegal mining, if any, is paid by the project proponent through their respective Department of Mining & Geology in strict compliance of the judgment of Hon'ble Supreme Court. This environmental clearance shall not be operational till such time the project proponent complies with the above said judgment of Hon'ble Supreme Court, as applicable, and other statutory requirements.
22. All other conditions stipulated in EC dated 24.05.2005 shall remain the same.

General Instructions:

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

revocation of this environmental clearance and attract action under the provisions of Environment (Protection) Act, 1986.

- f. The Regional Office of this MoEF&CC shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer (s) of the Regional Office by furnishing the requisite data/information/monitoring reports.

Agenda No. 29.8.

29.8: Amadand and Kewai (Bartarai) Underground Mine (area 495.6 Ha having capacity 0.465 MTPA) by **M/s South-eastern Coalfields Ltd**, located at **Villages: Amadand, Bartarai, Malga; Tehsil: Kotma; District: Anuppur; State: Madhya Pradesh – Revalidation of EC based on ADS Reply –regarding.**

[Online Proposal No. IA/MP/CMIN/76336/1996; Consultant: CMPDI - NABET/EIA/25-28/RA 0412 Issued on 03.07.2025 valid up to 08.04.2028]

29.8.1: M/s. South Eastern Coalfields Ltd has made an online application vide proposal no. IA/MP/CMIN/76336/1996 dated 05.09.2018 along with copy of EIA/EMP report, Form, Certified compliance report seeking for revalidation of Environment Clearance (EC) issued to Amadand and Kewai (Bartarai) Underground Mine vide letter no J-11015/7/95-IA-II(M) dated 15.03.1996 under EIA Notification, 1994 for the production capacity of 0.465 MTPA in the leasehold area of 495.600 Ha. The instant proposal is now for obtaining re-validation of EC under EIA Notification, 2006, in compliance of the Gazette Notification S.O. No. 1530(E) dated 06/04/2018 for the existing project.

The proposal was initially considered in 38th meeting of EAC (Coal Mining Sector) held on 27.09.2018 and was deferred for the want of additional information sought by the EAC. As per the amendment to EIA Notification, 2006 on 20.04.2022, the proposed project activity is now listed at schedule no. 1(a) “mining of minerals” Under Category “B” of the schedule of the EIA Notification, 2006. However, as per the Ministry’s OM dated 27.09.2022, *“The proposals which have been considered/ appraised once by EAC either for ToR or EC, but final decision has not been taken, shall continue to be appraised at the Central level only, till final disposal for ToR/ EC, even after the amendments in the EIA Notification are issued from to time regarding delegation of projects to SEIAAS”*.

The ADS reply was submitted by the PP on 27.05.2025 and 01.07.2025. Now the proposal has been placed in 29th EAC Meeting held on 23.07.2025 for appraisal based on ADS reply submitted by the PP.

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

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

| S. No. | Details of Letter No. | EC | Capacity (MTPA) | Area (Ha) |
|--------|---|--|-----------------|-----------|
| 1 | File No. J-11015/7/95-IA-II(M) dated 15.03.1996 | EC under the provisions of EIA Notification 1994 | 0.465 | 495.6 |

W.r.t the previous approvals, proponent submitted the actual production details of the concerned mine and submitted that the mine became operational from 1996 onwards. CTO renewal has been obtained from SPCB and is valid up to 31.01.2026. Details of the same are as follows:

| Year | Actual Coal Production in MTPA | Planned Coal Production in MTPA as per Consent/ Environmental Clearance | Excess Production |
|---------|--------------------------------|---|-------------------|
| 1996-97 | 0.465 | 0.013 | NIL |
| 1997-98 | 0.465 | 0.037 | NIL |
| 1998-99 | 0.465 | 0.085 | NIL |
| 1999-20 | 0.465 | 0.116 | NIL |
| 2000-01 | 0.465 | 0.119 | NIL |
| 2001-02 | 0.465 | 0.138 | NIL |
| 2002-03 | 0.465 | 0.2 | NIL |
| 2003-04 | 0.465 | 0.215 | NIL |
| 2004-05 | 0.465 | 0.258 | NIL |
| 2005-06 | 0.465 | 0.292 | NIL |
| 2006-07 | 0.465 | 0.279 | NIL |
| 2007-08 | 0.465 | 0.274 | NIL |
| 2008-09 | 0.465 | 0.322 | NIL |
| 2009-10 | 0.465 | 0.336 | NIL |
| 2010-11 | 0.465 | 0.28 | NIL |
| 2011-12 | 0.465 | 0.317 | NIL |
| 2012-13 | 0.465 | 0.353 | NIL |
| 2013-14 | 0.465 | 0.317 | NIL |
| 2014-15 | 0.465 | 0.308 | NIL |
| 2015-16 | 0.465 | 0.32 | NIL |
| 2016-17 | 0.465 | 0.287 | NIL |
| 2017-18 | 0.465 | 0.253 | NIL |
| 2018-19 | 0.465 | 0.285 | NIL |
| 2019-20 | 0.465 | 0.278 | NIL |
| 2020-21 | 0.465 | 0.181 | NIL |
| 2021-22 | 0.465 | 0.171 | NIL |
| 2022-23 | 0.465 | 0.158 | NIL |
| 2023-24 | 0.465 | 0.17 | NIL |
| 2024-25 | 0.465 | 0.158 | NIL |

29.8.3: Certified Compliance Report: The Status of compliance of earlier EC was obtained from Regional Office, Bhopal vide letter no./file no.3-4/1996(Env), dated 30.01.2025 in the name of Amadand and Kewai (Bartarai) Underground Mine. There are no non-complied or partly complied conditions and only being complied conditions which are of continuous in nature. The Action taken report regarding the status of conditions being complied has been submitted with RO vide letter no. 902 dated 10.03.2025.

29.8.4: Environmental Site Settings:

The project area is covered under Survey of India (1:50000) Toposheet No. 64-I/4 and is bounded by the geographical coordinates ranging from 23° 07' 35" N to 23° 08' 51" N latitudes 82° 03' 21" E to 82° 04' 58" E longitudes

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

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

| S. No. | Govt. Order/ Notifications as the case may be | Area (ha) |
|--------|---|-----------|
| 1 | Mining Rights Acquired 194.927 ha of land under CBA (A&D) Act, 1957, vide SO No. 3372 | 194.927 |

| | | |
|---|---|----------------|
| 2 | Mining Rights Acquired 158.681 ha of land under CBA (A&D) Act, 1957, vide SO No. 1404 | 158.681 |
| 3 | Mining Rights Acquired 141.992 ha of land under CBA (A&D) Act, 1957, vide SO No. 495 | 141.992 |
| | TOTAL | 495.600 |

The validity of mine lease is co-terminus with mine life.

Forest Area: No forest land involved in the project.

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.

Status: In the Amadand and Kewai (Bartarai) Underground Mine area, Schedule-I species— Sloth Bear, Striped hyaena, Jackal, Common Mongoose, Indian Fox, Spectacled cobra, Rat snake, and Russell's Viper are reported in the study area. These species are protected under Schedule I of the Wildlife (Protection) Act, 2022. PP submitted that WLCP shall be prepared within 2 years from the date of grant of revalidation of EC, in consultation with a recognized expert institution such as the Indian Council of Forestry Research and Education (ICFRE).

Other Sensitive Receptors:

| Project site proximity to sensitive area | Distance in km (within 5 km from the ML area) | | |
|--|---|-----------------|------------------|
| i. Habitation | Village | Distance | Direction |
| | Amadand | 1 km | North |
| | bartarai | 3 km | North East |
| | Bhalwai | 4 km | North |
| | Malga | 2 km | North East |
| | Chukan | 1.5 km | South West |
| ii. School | Schools | Distance | Direction |
| | Amadand | 3 km | North |
| | Malga | 4 km | East |
| | bartarai | 3 km | North East |
| | Bhalwai | 4 km | North |
| iii. River/ Waterbody | River /Nallah | Distance | Direction |
| | Bhirawa Nala | < 1.00 km | East |
| | Banki Nalah | < 1.00 km | South West |
| iv. Forest | Reserved / Protected forests | Distance | Direction |
| | Malga RF | < 1.00 km | North East |
| | Kotma RF | 3.8 km | North West |
| v. Archaeological Survey of India (ASI) protected site | No | | |
| vi. Any other | No | | |

No diversion is proposed for the said project, neither any diversion is done previously.

29.8.5: Method of Mining and Mining Plan: PP submitted that the mining plan/ revised Project Report for the project was approved by CoFD SECL Bilaspur for (capacity-0.465 MTPA, Area-495.6 Ha) on 03.03.2025 & progressive mine closure plan approved by CoFD SECL Bilaspur on 03.03.2025. As per the revised project report of February 1999 the life of mine was 29 years. However, now the PP has submitted a fresh mining plan and mine closure plan. The validity of newly approved mine plan is 16 years.

- i. Method of Mining to be adopted shall be underground with a Board and Pillar system and a combination of LHD, LHCM and belt conveyor.

- ii. Total geological reserve reported in the mine lease area is 20.853 MT with 16.20 MT mineable reserves as of 01.04.2024. Out of the total mineable reserve of 6.802 MT are available for extraction. The percentage of extraction is 40%.
- iii. Seams MK (Top), MK (bottom) & LK -II with thickness ranging from 0.44 to 2.11, 0.31 to 1.51 & 0.28 to 1.86 respectively are workable.
- iv. Grade of coal G-8, while the gradient is – MK (Top) 1 in 40, MK (bottom) 1 in 40 and LK -II 1 in 30
- v. Life of mine is 16 years as on 01.04.2024.
- vi. Details of land use

a. Pre-mining land use pattern:

| S. No. | Land Use | Within ML Area | Outside ML Area | Total |
|--------|-------------------|----------------|-----------------|----------------|
| 1 | Agricultural Land | 476.817 | 0 | 476.817 |
| 2 | Forest land | 0 | 0 | 0 |
| 3 | Govt land | 18.783 | 0 | 18.783 |
| | Total | 495.600 | 0 | 495.600 |

b. Post-mining land use pattern:

| S. No. | Type | Total Area (in ha) | Reclaimed Area (in ha) | Undisturbed Area (in ha) |
|---|--|--------------------|------------------------|--------------------------|
| 1 | Excavation/Quarry (UG Working) Area: | 445.600 | 0 | 445.600* |
| 2 | Mine infrastructure | 7.460 | 7.460 | 0 |
| 3 | Others (Colony, road , other infrastructure) | 42.540 | 0 | 42.540 |
| | Total | 495.600 | 7.460 | 488.140 |
| *UG mine has minimum surface disturbance; this land will be gainfully utilized for plantation (about 380 ha.) *In case any subsidence occurs in UG mining area it will be suitably reclaimed. | | | | |

- vii. **Details of transportation of coal:** The coal is proposed to be transported within and outside the mining lease in the following manner:
 - In pit (UG) to surface: Through conveyor belt to surface bunker
 - Surface to siding: Coal is transported from the mine to the coal consumers through covered trucks. (distance upto approx.. 17 km)
 - Siding to consumer: By railway wagons and to local consumers by Covered Trucks
- viii. Details of reclamation: PP submitted that green cover in 12.8 Ha has been developed with 32000 nos of saplings. Density of plantation shall be 2500 nos of trees per Ha. This 12.8 Ha includes plantation done around the mine infrastructure and colony, roads and other infrastructure.

29.8.6: Baseline data: Period of data collection: December 2022 - February 2023

| | | | | | | | | | | | | | | | | | | | | | |
|---|--|-------------------------|-----------------------|-------------------------|--------------------|-----|----------------------|-------|------|--------|---|------|-----------------------|-------------------------|--------------------|-----|--|-------|------|-------|---|
| AAQ parameters at 9 Locations (min and max) | <p>For Buffer Zone: - PM_{2.5} = 28.5 to 36.3 µg/m³ PM₁₀ = 59.5 to 72. µg/m³ SO₂ = 18.0 to 27.8 µg/m³ NO_x = 21.4 to 32.1 µg/m³ CO = 0.24 to 0.31 µg/m³</p> <p>For Core Zone: PM_{2.5} = 62.9 to 81.3 µg/m³ PM₁₀ = 108.7 to 136.8 µg/m³ SO₂ = 25.4 to 35.1 µg/m³ NO_x = 30.1 to 43.9 µg/m³ CO = 0.40 to 0.42 µg/m³</p> <p>Incremental concentrations were observed in the core zone</p> <ul style="list-style-type: none">• PM₁₀: 13.47 µg/m³• PM_{2.5}: 2.22 µg/m³• SO₂: 14.06 µg/m³• NO₂: 14.04 µg/m³ | | | | | | | | | | | | | | | | | | | | |
| Surface water quality at 4 Locations | pH = 7.10 to 7.76 DO = 7.4 to 8.40 mg/l BOD = 2 to 2.4 mg/l COD = 8 to 6 mg/l | | | | | | | | | | | | | | | | | | | | |
| Ground water quality at 4 Locations | pH = 7.13 to 7.76 Total Hardness = 8.60 to 182 mg/l Chlorides = 26.99 to 72.98 mg/l Fluoride = 0.13 to 0.34 mg/l Nitrate = 0.85 to 1.15 mg/l | | | | | | | | | | | | | | | | | | | | |
| Noise levels Leq (Day and Night) (Residential Area) | <p><u>For Buffer Zone:</u> Leq (Day) range between 47 to 48.9 dB(A) and Leq (Night) between 34.1 to 35.8 dB(A).</p> <p><u>For Core Zone:</u> Leq (Day) range between 65.1 to 68.6 dB(A) and Leq (Night) between 54.2 to 57.8.3 dB(A).</p> | | | | | | | | | | | | | | | | | | | | |
| Traffic assessment study findings | <p>Traffic study has been conducted at exit gate of mine on coal transportation road connecting Govinda Railway Siding which is approximately 17 Km (distance) from the mine site.</p> <p>Existing PCU is 343.9 PCU/hr on coal transport road (SH road) and existing level of service (LOS) is:</p> <p>Existing:</p> <table><tr><td>Road</td><td>V (Volume in PCU/hr.)</td><td>C (Capacity in PCU/hr.)</td><td>Existing V/C Ratio</td><td>LOS</td></tr><tr><td>2 Lane of 12 m width</td><td>343.9</td><td>1500</td><td>0.2293</td><td>B</td></tr></table> <p>PCU load after proposed project will be 343.9(Existing) + 324.3 (Additional) PCU/hr and level of service (LOS) will be:</p> <p>Proposed:</p> <table><tr><td>Road</td><td>V (Volume in PCU/hr.)</td><td>C (Capacity in PCU/hr.)</td><td>Proposed V/C Ratio</td><td>LOS</td></tr><tr><td>2 Lane of 12 m width (Modification not Required)</td><td>668.2</td><td>1500</td><td>0.445</td><td>C</td></tr></table> <p>Note: Capacity as per IRC 106-1990 Guideline for capacity for roads. Conclusion: The level of service will not affect after including additional traffic due to proposed project.</p> | Road | V (Volume in PCU/hr.) | C (Capacity in PCU/hr.) | Existing V/C Ratio | LOS | 2 Lane of 12 m width | 343.9 | 1500 | 0.2293 | B | Road | V (Volume in PCU/hr.) | C (Capacity in PCU/hr.) | Proposed V/C Ratio | LOS | 2 Lane of 12 m width (Modification not Required) | 668.2 | 1500 | 0.445 | C |
| Road | V (Volume in PCU/hr.) | C (Capacity in PCU/hr.) | Existing V/C Ratio | LOS | | | | | | | | | | | | | | | | | |
| 2 Lane of 12 m width | 343.9 | 1500 | 0.2293 | B | | | | | | | | | | | | | | | | | |
| Road | V (Volume in PCU/hr.) | C (Capacity in PCU/hr.) | Proposed V/C Ratio | LOS | | | | | | | | | | | | | | | | | |
| 2 Lane of 12 m width (Modification not Required) | 668.2 | 1500 | 0.445 | C | | | | | | | | | | | | | | | | | |

| | |
|-------------------|--|
| Flora and fauna | In the Amadand and Kewai (Bartarai) Underground Mine area, Schedule-I species—Sloth Bear, Striped hyaena, Jackal, Common Mongoose, Indian Fox, Spectacled cobra, Rat snake, and Russell’s Viper are reported in the study area. These species are protected under Schedule I of the Wildlife (Protection) Act, 2022. PP submitted that WLCP shall be prepared within 2 years from the date of grant of revalidation of EC, in consultation with a recognized expert institution such as the Indian Council of Forestry Research and Education (ICFRE). |
| Water Requirement | <p>Sources of water</p> <p>a) Surface Water- Nil b) Ground water- Mine Seepage Water c) Other (if any)- Nil</p> <p>Ground Water Intersection: Yes</p> <p>Water Requirement: Water usage details for the said project as per CGWA renewal NOC, Application, 21-4/612/MP/MIN/2017 is 8776 m³/day.</p> <ul style="list-style-type: none"> • Groundwater inflow seepage 8609 m³/day • Domestic use of mines 167 m³/day (through borewell) • Dust Suppression 20 m³/day • Firefighting 13 m³/day • CHP 50 m³/day • Added for losses 10 m³/day • Excess mine water (8516 m³/day) treated and discharged in nearby villages Malga, Amadand, Bartarai for the purpose of irrigation and other activities. <p>NOC: CGWA NoC obtained as per application no 21-4/612/MP/MIN/2017 for 8776 m³/day has been obtained vide letter dated 22.03.2025, with the validity up to 31.10.2025.</p> |

29.8.7: Water Requirement: PP submitted that the water requirement for the said project is 260 m³/day. However, NoC from CGWA has been obtained vide letter no. 21-4/612/MP/MIN/2017, dated 22.03.2025 for 8776 m³/ day and the same is valid till 31.10.2025.

The excess water is distributed in the nearby villages namely – Malga, Amadnad and Bartarai after due treatment. Further, PP submitted that no water body is proposed for diversion in the said project.

29.8.8: Power Requirement and details of diversion of Hi-Tension/Transmission Line: Power is received from MPPKVCL for a contract demand of 1600 KVA. No HT line/ transmission line is proposed for diversion in the instant project.

29.8.9: 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 | Mode of Treatment | Disposal |
|--------|----------------------|-----------------------------------|--------------|---|-------------------|
| 1. | Used oil. (Cat. 5.1) | UG mining and ancillary machinery | 0.11 KL/Year | Collected and stored in steel barrels and kept in covered shed with pucca platform. | Through e-auction |

29.8.10: Details of Public Consultation:

Amadand & Kewai (Bartarai) UG Mine of SECL was granted Environmental Clearance (EC) under the EIA Notification, 1994, via EC No. J-11015/7/95-IA. II(M), dated 15.03.1996. As,

the public hearing clause was added to EIA Notification 1994 vide Notification S.O 318 (E) dated 10.04.1997 which is after grant of the EC. Hence; the project was not undergone Public hearing earlier. The current proposal for revalidation of the project is being pursued in accordance with the provisions of the Office Memorandum F.No. 22-4/2020-IA.III, dated 16.02.2021, which stipulates that legacy cases require inviting public suggestions and observations in lieu of conducting a public hearing.

In compliance with these provisions, PP has submitted an application (Letter No. SECL/JK/GM/2023/88, dated 12.06.2023) to the Member Secretary, MPPCB, Bhopal, requesting the issuance of a public notice. Approval was granted, and the Member Secretary subsequently issued a directive (Letter No. MPPCB/Bhopal/Headquarters/1749, dated 14.07.2023) to the Regional Officer, MPPCB Shahdol, to initiate the public notice process for the EC revalidation of the Amadand Bartarai UG Mine.

Accordingly, a public notice inviting suggestions and objections was published in *Raj Express* and *The Times of India* newspapers on 09.08.2023. As communicated by the Regional Officer, MPPCB Shahdol vide letter dated 28/12/2023, no written objections/queries were received within 30 days from 09/08/2023.

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

| S. No. | Physical activity and action plan | Year of implementation (Budget in Lakh)- 2025-26 onwards | | | | | | | | | | | | | | | Total Expenditure (in Rs Lakhs) |
|--------------|---|--|---|---|---|---|---|---|---|---|----|----|----|----|----|----|---------------------------------|
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | |
| 1. | Infrastructure creation for drinking water Supply | 1 | 1 | 1 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 2 | 2 | 2 | 2 | 2 | 34 |
| 2. | Sanitation | 1 | 1 | 1 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 2 | 2 | 2 | 2 | 2 | 34 |
| 3. | Education | 1 | 1 | 1 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 39 |
| 4. | Skill Development | 1 | 1 | 1 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 39 |
| 5. | Basic Health Infrastructure | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 27 |
| 6. | Road Infrastructure | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 27 |
| Total | | | | | | | | | | | | | | | | | 200 |

29.8.11: EMP Budget: It is a running mine. The capital cost of the project, including the existing capital cost of Rs 4526.4 lakhs and the proposed capital cost for environmental protection measures is Rs 1345 lakhs. The annual recurring cost towards the environmental protection measures is proposed as Rs 356.25 lakhs, the employment generation from the existing project is 1786 Nos.

The details of cost for environmental measures are as follows:

| S. No. | Description of item | Existing | | Proposed | |
|--------|---|------------------------|--------------------------|------------------------|--------------------------|
| | | Capital Cost (in lakh) | Recurring Cost (in lakh) | Capital Cost (in lakh) | Recurring Cost (in lakh) |
| (i) | Air Pollution Control/ Noise Management | 100 | 40 | 70 | 15 |

| | | | | | |
|-------|---|----------------|---------------|-------------|---------------|
| (ii) | Water Pollution Control | 20 | 40 | 200 | 20 |
| (iii) | Environmental Monitoring and Management | 100 | 15 | 50 | 15 |
| (iv) | Green Belt & Plantation Development | 100 | 10 | 1000 | 300 |
| (v) | Other heads as proposed in EIA/committed during the EAC | 9.135 | 6.25 | 25 | 6.25 |
| | Total | 329.135 | 111.25 | 1345 | 356.25 |

29.8.12: Plantation: Existing greencover in the mine premises has been done in approx. 12.8 Ha area which is about 2.258 % Ha of the total ML area of 495.6 Ha with total sapling of 32000 nos of trees. Proposed plantation will be developed in 367.2 ha which is about 74% of total project area (367.2 Ha is the tenancy land, which will be acquired by the PP, due to subsidence). Thus a total of 380 Ha area (76.6 % of total ML area) will be developed as Plantation. Total no. of 9,497,62 saplings will be planted and nurtured in 380 ha in the form of plantation and greenbelt.

29.8.13: Rehabilitation and Resettlement: Rehabilitation and Resettlement (R&R) details are as follows:

| S. No. | Particulars | Status of R&R |
|--------|---|--|
| 1. | No of Villages | 04 Amadand, Bartarai, Bhalwahi and Malga |
| 2. | Total No of PAFs (Approx.) | Nil |
| 3. | Total No of PAPs | Nil |
| 4. | Total Employment to be given (in Nos) | 140 |
| 5. | Total No of employment given as on 01.04.2025 | 112 |
| 6. | Total Compensation to be given (in Crores) | 0.81 |
| 7. | Total No of Compensation given as on 01.04.2025 | 0.498 Cr. |
| 8. | Status of Balance Employment | 28 |
| 9. | Status of Balance Compensation | 0.312 Cr. |
| 10. | Status of R&R Site | De-pillaring will not be done below the Habitation. Hence, the R&R Site is not required. |

Till date total acquired area after nationalization is 349.27 acres (141.345 hectares), and the total compensation amount is Rs. 0.81 Cr.

29.8.14 Project Cost: It is a running mine. The capital cost of the project, including the existing capital cost of Rs. 4526.4 lakhs and the capital cost for environmental protection measures given in revised mining plan Rs. 184 lakhs. The annual recurring cost towards the environmental protection measures is proposed as Rs. 1320 lakhs, the employment generation from the existing project is 1786 Nos.

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

29.8.16 Undertaking and Affidavit: PP vide an affidavit submitted that there is no litigation on the project either at Hon'ble NGT or any other court of Law, there is no difference in the

documents submitted i.e., Form 1, Mining Plan, EIA/EMP report and presentation being made to the EAC. The land has been acquired as per provisions of Coal Bearing Areas (Acquisition and Development) Act 1957 vide Gazette notification S.O. No. 3372, 1404 and 495 for mining rights. Further it is declared that the land is in SECL possession, the project is being submitted for grant of revalidation of EC under the provisions of S.O. 1530E dated 06.04.2018, that the Project Proponent owns the contents (information and data) of the EIA report pertaining to Amadand and Kewai (Bartarai) UG Mine. Also, it is declared that the contents of EIA report pertaining to Amadand and Kewai (Bartarai) UG mine have not been copied from other EIA reports.

Further, vide an Undertaking, PP submitted that the information provided in Form-I in physical form and in .pdf format in PARIVESH, to the Ministry/EAC members and PPT presentation during the EAC meeting to be held on 23rd July 2025 have no deviation in respect of the Proposal No. **IA/MP/CMIN/76336/1996** for EC revalidation for coal mining having 495.6 ha of ML area and capacity of 0.465 MTPA for Coal Mine Project located at village Amadand, Bartarai, Malga and Bhalwahi; Tehsil: Kotma, District: Anuppur; State: Madhya Pradesh; by M/s South Eastern Coalfields Limited (SECL). It further certified that there are no data entry errors in the information uploaded in PARIVESH system including names/email-id/mobile numbers/address of the project proponent, authorized person, etc. It is also certified that the supporting documents uploaded on PARIVESH portal are correct and duly authenticated by the Authorized Signatory. In case of any deviation in data found in any of the documents, the Authorized Signatory shall be held responsible and furthermore, the above said project shall be rejected for grant of EC.

29.8.17: ADS information in chronology: The proposal was initially considered in 38th EAC meeting held on 27th September 2018 wherein the committee deferred the proposal for additional information. PP submitted the reply vide letter no.161 dated 26.05.2025 and uploaded the same on the PARIVESH portal. Later the ministry further sought ADS which again submitted vide letter no. 734 dated 01.07.2025. Details of the same are as follows:

The proponent submitted the ADS reply vide letter dated 26.05.2025, uploaded on PARIVESH on 27.05.2025. Point-wise reply of ADS is as below –

| S. No. | Points of the EAC meeting held on 27.09.2018- Agenda item no. 38.8 | Compliance Status |
|--------|--|--|
| 1 | Preparation of EIA/EMP report based on one season baseline data along with the details in respect of the following: - | The EIA/EMP report has been prepared based on generic structure specified in Appendix III of EIA notification 2006 and complying Standard TOR for UG mine. The baseline data was collected during Dec to Feb 2023 (non-monsoon period). The EIA/EMP report has been prepared including all the necessary inputs as sought by EAC/MoEF (EIA-EMP report submitted). |
| 2 | Public Consultation, including public hearing, shall be conducted through concerned SPCB as per the provisions/procedure contained in the EIA Notification, 2006 for information of the stakeholders about the present coal mining operations inviting comments and their redressal. | Amadand Bartarai (Kewai) UG mine of SECL was granted EC as per EIA Notification 1994 via EC No. J-11015/7/95-IA. II (M), Dt 15.03.1996. The current proposal of revalidation of the project is as per the provisions of the Office Memorandum F.No. 22-4/2020-IA.III dated 16.02.2021, where in, the legacy cases require inviting public suggestions and observations instead of conducting a public hearing under the EIA Notification, 2006. In compliance, SECL submitted an application (Letter No. SECL/JK/GM/2023/88 dated 12.06.2023) to the Member Secretary, MPPCB, Bhopal, requesting the issuance of a public notice. Approval was granted, and the Member Secretary issued a directive (Letter No. MPPCB/ Bhopal/Headquarters/ 1749 dated 14.07.2023) to the Regional Officer, MPPCB Shahdol, to initiate the public notice for EC revalidation of the Amadand |

| S. No. | Points of the EAC meeting held on 27.09.2018- Agenda item no. 38.8 | Compliance Status |
|--------|---|---|
| | | Bartarai UG Mine. Accordingly, the public notice seeking suggestions/objections was published on 09/08/2023 and no written issues have been received as communicated by Regional Officer, MPPCB Shahdol on dated 28.12.2023. Public notice documents submitted. |
| 3 | Valid Mining Plan and the Progressive Mine Closure Plan duly approved by the competent authority, | The mining plan of the Amadand Bartarai (Kewai) UG Mine for the production capacity of 0.465 MTPA along with the mine closure plan was approved by the CoFD of SECL in its 277th meeting held on 03.03.2025 and same is submitted. |
| 4 | Compliance status of the conditions stipulated in the environmental clearance from the concerned Regional Office of the Ministry. | The report regarding the compliance status of the conditions stipulated in the environmental clearance prepared by the Regional Office, MoEF&CC Bhopal has been received vide letter No.3-4/1996 (Env.) dated 30.01.2025 of MoEF&CC Bhopal after the site inspection was conducted by Scientist "D" MoEF&CC Bhopal on 27.11.2024 (CCR report is submitted). The Action Taken Report (ATR) in respect of the observations of MoEF&CC Bhopal given in their Certified compliance report has been submitted to MoEF&CC Bhopal vide letter No. 902 dated: 11/03/2025. (ATR is submitted). |
| 5 | Consent to operate from the State Pollution Control Board for the present mining operations. | Consent to operate has been obtained by MPPCB and the same is valid upto 31.01.2026 (CTO submitted). |
| 6 | Coal production realized from the mine from 1993-94 vis-à-vis capacity stipulated in the environment clearance. | The year wise coal production details of the mine since inception vis-à-vis capacity stipulated in the environment clearance has been submitted. |
| 7 | Need assessment survey for the activities proposed under the CSR and the comprehensive plan to be prepared accordingly for implementation by the project proponent. Also, impact of the CSR activities undertaken at an interval of 5 years to be evaluated and a report to be submitted. | Need assessment survey for the activities proposed under the CSR has been completed. The report "Need Assessment Survey and Preparation of Comprehensive Plan and Impact Assessment of the CSR Activities for Malga and Bartarai villages (Project affected Villages) of Amadand Bartarai (Kewai) UG" (report is submitted). For the implementation of the recommendations made in the Need base assessment survey report, a comprehensive plan has been prepared and has been included in the need base assessment survey report (plan is submitted). The impact assessment report of CSR activities is submitted. |
| 8 | Details of court cases and the compliance status. | There is no litigation pending on the project at NGT or any other court of law under EP Act, 1986, Air act 1981 or Water Act, 1974. An undertaking for the same is submitted. |

The proponent submitted the ADS reply vide letter dated 01.07.2025, uploaded on PARIVESH on 01.07.2025. Point wise reply of ADS is given as below:

| S. No. | ADS raised | Reply |
|--------|--|--|
| 1 | The proposal was originally considered by the EAC in its meeting held on 27/09/2018 and deferred for want of additional information. The reply to the ADS was submitted on 27/05/2025 after a span of 7 years. Proponent shall justify the reasons for submitting the ADS reply after 7 years. | The detailed justification for delay is submitted. |
| 2 | It is observed that the EC is | The area mentioned in the EIA report and mining plan is accurate |

| S. No. | ADS raised | Reply |
|--------|--|--|
| | granted for 495 ha of ML area vide letter dated 16.03.1996. However, the EIA report and the mine plan has been prepared and submitted for 495.600 Ha. Kindly clarify the same and make the necessary changes. | and correctly stated as 495.6 ha. The discrepancy in the EC letter dated 16.03.1996, which mentions 495 ha, appears to be a typographical error. EC area 495.6 ha is supported by the EIA/EMP prepared in 1995 (Copy of land Land use in EIA-EMP 1995), with area involved as 495.6 ha. Therefore, it is requested that the correct figure of 495.6 ha to be considered and reflected in the revised documentation. |
| 3 | Kindly submit the status of Schedule-I species observed in the study area and Wildlife Conservation Plan for the said project. | Schedule-I species reported in the study area are Sloth Bear, Striped hyaena, Jackal, Common Mongoose, Indian Fox, Spectacled cobra, Rat snake, and Russell's Viper. Since the original EC did not stipulate preparation of a Wildlife Conservation Plan (WCP), it was not undertaken previously. However, the proponent is committed to biodiversity conservation and requests that a period of one year be granted for the preparation of a WCP through an expert institution such as ICFRE. It is requested that a condition to this effect may be included in the EC. (An undertaking for the same is submitted). |
| 4 | Kindly submit the details of water requirement for the said project and the latest status of CGWA application renewal. | Water Requirement: - Total projected groundwater inflow/seepage: 8609 m ³ /day - Industrial Use: 93 m ³ /day (Dust suppression: 20, Fire prevention: 13, CHP: 50, Losses: 10) - Excess mine water (8516 m ³ /day) is discharged to local village ponds in Malga, Amadand, and Bartarai for community use (80% for irrigation, 20% for domestic use). - Domestic/potable use: 167 m ³ /day extracted through tubewell. CGWA NOC Status: - NOC No.: CGWA/NOC/MIN/REN/1/2025/11191 - Date of Issue: 22.03.2025 - Valid for: 01/11/2023 to 31/10/2025 - Permitted Abstraction: 8776 m ³ /day (NOC submitted) |
| 5 | Kindly submit the details of sensitive receptors on the coal transportation road, along with the mitigation measures being followed and further proposed to be followed. | Details of sensitive Receptors on the Coal Transportation Route along with mitigation measures existing and proposed are submitted. |
| 6 | Kindly submit the drone video and the geo-tagged photographs of the coal transportation route. | The drone photographs and geo-tagged photographs is submitted. Due, to size constraints drone video is not uploaded and will be shared at the time of presentation before EAC. |
| 7 | Kindly make sure that the factual data mentioned in Form, Mine plan, presentation and EIA/ EMP Report are in the same order and do not mismatch. All the documents provided by your good self must be legible. Also, along with the corrections mentioned above, please ensure the completeness of the Form and all the documents. | All factual data provided in the Form, Mine Plan, EIA/ EMP Report, and Presentation have been thoroughly cross-verified to ensure consistency, legibility, and completeness. Necessary corrections have been incorporated. All documents are complete in all respects. |

29.8.18: Written Submission: PP vide an undertaking submitted that, 40,000 saplings during FY 2025-26 over an area of 16 Ha at Amadand Bartarai (Kewai) UG will be planted.

Vide another undertaking PP submitted that, Wildlife Conservation Plan for Schedule – I species reported in the study area of Amadand Bartarai (Kewai) UG Mine will be prepared in a period of 2 years.

Observation and deliberation of the EAC:

29.8.19: The Committee noted the following:

1. The instant proposal is for revalidation of EC accorded by M/s South Eastern Coalfields Ltd for Amadand and Kewai (Bartarai) Underground Mine vide letter no. J-11015/7/95-IA-II(M) dated 15.03.1996 under EIA Notification, 1994 for the production capacity of 0.465 MTPA in the leasehold area of 495.600 Ha. The revalidation of EC granted is under EIA Notification 2006 (as amended) as per the provision of S.O 1530(E) dated 06.04.2018 read with OM dated 16.02.2021.
2. PP applied for revalidation of EC in PARIVESH Portal on 05.09.2018, i.e., well within the window period of 6 months (i.e. before 5.10.2018) and also submitted Form-1 as required under S.O 1530(E) dated 06.04.2018 for the re-validation of EC under EIA Notification 2006 (as amended).
3. Committee observed that the said project was earlier apprised in in 38th meeting of EAC (Coal Mining Sector) held on 27.09.2018 and was deferred for the want of additional information sought by the EAC. PP submitted the EDS reply vide letter dated 27.05.2025 and 01.07.2025 on PARIVESH 1.0 Portal.
4. Committee observed that the coal produced from the said mines is well within the EC capacity, since the EC is granted and there is no excess production.
5. Committee deliberated on the certified compliance report obtained by the PP. Committee observed that the status of compliance of earlier EC was obtained from Regional Office, Bhopal vide letter no./file no.3-4/1996(Env), dated 30.01.2025 in the name of Amadand and Kewai (Bartarai) Underground Mine. There are no non-complied or partly complied conditions and only being complied conditions which are of continuous in nature. The Action taken report regarding the status of conditions being complied has been submitted with RO vide letter no. 902 dated 10.03.2025.
6. Project does not fall in the Critically Polluted Area (CPA)/ Severely Polluted Area (SPA), as per CEPI Assessment 2018.
7. Committee observed that there is no forestland involved in the said project.
8. Committee observed that there is presence of Schedule – I species within the study area and Wildlife Conservation Plan for the said project is yet to be prepared for which PP has sought time period of 2 years for the same. Committee opined that the PP shall prepare the Wildlife Conservation Plan in consultation with Indian Council of Forestry Research and Education (ICFRE) and the same shall be approved by the PCCF wildlife.
9. Mining Plan and Progressive Mine Closure Plan for the said project has been approved by CoFD SECL Bilaspur for (capacity-0.465 MTPA, Area-495.6 Ha) on 03.03.2025.
10. Committee during the deliberation observed that, the as per the approved mine plan

submitted by the PP, the reclaimed area as per the post mining land use pattern is 7.6 Ha and 488.140 Ha is unreclaimed area. However, in the instant proposal, proponent reported that there is subsidence in an area of 380 Ha of undisturbed land and the same will be acquired by the proponent for reclamation. In view of this, the land under the post mining shall be 380 Ha and accordingly, EAC opined that the PP shall revise the mine plan indicating 380 ha as reclaimed area in the post mining land use pattern.

11. Method of Mining to be adopted shall be underground with a Board and Pillar system and a combination of LHD, LHCM and belt conveyor.
12. Total geological reserve reported in the mine lease area is 20.853 MT with 16.20 MT mineable reserves as of 01.04.2024. Out of the total mineable reserve of 6.802 MT are available for extraction. The percentage of extraction is 40%. Seams MK (Top), MK (bottom) & LK -II with thickness ranging from 0.44 to 2.11, 0.31 to 1.51 & 0.28 to 1.86 respectively are workable. Grade of coal G-8. Life of mine is 16 years as on 01.04.2024
13. Committee deliberated on the mode of transportation proposed for the said project and observed that, from in – pit to surface the coal is being transported through series of conveyor belts. Then from surface to siding and the local consumers, the coal is being transported from by tarpaulin covered trucks at a distance of approx. 17 km. Committee opined that PP shall take adequate measures to control the pollution being done due to road transportation of coal and PP shall carryout regular maintenance of the potholes on roads, repair and maintenance of roads, scrapping of material fallen on roads, and removal of scraps from mining areas. Along with this, PP shall make sure that all the pollution control equipments are in good working condition and maintenance of those equipments is regularly carried out.
Committee also opined that PP shall develop thick plantation with native and fruit bearing species on both the sides of the coal transportation road.
14. Committee deliberated on the baseline data submitted by the PP and observed that all the AAQ parameters are within the permissible limit.
15. Committee deliberated on the water requirement of the said mines and observed that, the total water requirement for the said mine is 260 m³/day. However, the NoC form CGWA has been obtained for 8776 m³/day and the same is valid till 31.10.2025. The excess water is distributed in the nearby villages namely – Malga, Amadnad and Bartai after due treatment.
16. Power is received from MPPKVVCL for a contract demand of 1600 KVA.
17. Committee observed that, advertisement for public consultation through written submissions was given in accordance to Ministry's OM dated 16.02.2021, in Raj Express and The Times of India newspapers on 09.08.2023. As communicated by the Regional Officer, MPPCB Shahdol, no written objections/queries were received as of 28.12.2023. However, PP has submitted an action plan for giving certain facilities to the affected villagers as per MoEF&CC O.M. dated 30.09.2020, with the budgetary provision of Rs. 200 Lakhs. Committee opined that the same shall be implemented efficiently in a time bound manner.
18. Further, Committee deliberated on EMP budget submitted by the PP and observed

that, the capital cost proposed including the existing cost is Rs. 4526.4 lakhs. The capital cost for environmental protection measures is proposed as Rs. 1345 lakhs and the annual recurring cost towards the environmental protection measures is proposed as Rs. 356.25 lakhs per annum. Committee opined that the same shall be efficiently implemented in a time – bound manner.

19. Committee deliberated on the plantation activities done by the PP till date and observed that, the existing green belt/ Plantation in the mine premises has been done in approx. 12.8 Ha area which is about 2.258 % Ha of the total ML area of 495.6 Ha with total sapling of 32000 nos of trees. Proposed plantation will be developed in 367.2 ha which is about 74% of total project area. Thus a total of 380 Ha area (76.6 % of total ML area) will be developed as Plantation. Total no. of 9,497,62 saplings will be planted and nurtured in 380 ha in the form of plantation and greenbelt.

Committee found the plantation to be inadequate and also observed that no plantation has been carried out by the PP in previous 3-4 years. Committee opined that the PP shall plant atleast 40,000 tree saplings in the on-going monsoon 2025 and further the plantation activities shall be accelerated. Committee opined that, the PP shall focus on agro-forestry and fruit bearing species shall be distributed and planted on the periphery of the agricultural farms of the villagers, by developing a plan to compensate the farmers/ villagers for survival of these fruit bearing trees. Plantation shall also be developed on both the sides of the coal transportation road with the native species.

20. Committee deliberated on the R&R Plan for the said mine and observed that no rehabilitation and resettlement are involved in the Amadand Bartarai UG. However, a total of 140 nos of people were eligible for employment, out of which 112 nos of employments has already been given and employment of remaining 28 nos of people is under process. Similarly, total compensation to be paid is Rs. 0.81 crores, out of which 0.498 crores has already been given and remaining 0.312 crores is yet to be paid. Committee opined that the same shall be completed at the earliest.
21. There is no legal issues / violation w.r.t i) Environment (Protection) Act, ii) Air(P&CP) Act, Water (P&CP), Act, Van (Sanrakshan Evam Samvardhan) Adhiniyam, Wildlife Protection Act, MMDR Act, Factories Act. Further, there is no court case on the project.
22. Committee opined that the PP shall align its activities with the sustainable development goals.
23. The EAC also deliberated on the ADS reply and written submissions of the project proponent and found it satisfactory.
24. The EAC noted that the Project Proponent has given an undertaking that the data and information given in the application and enclosures are true to the best of his knowledge and belief and no information has been suppressed in the EIA/EMP reports. If any part of data/information submitted is found to be false/ misleading at any stage, the project will be rejected and Environmental Clearance given, if any, will be revoked at the risk and cost of the project proponent.

Recommendations of the Committee:

29.8.20: In view of the foregoing and after detailed deliberations, the committee **recommended** the instant proposal for grant of revalidation of EC dated 15.03.1996 as per provisions of S.O. 1530(E) dated 06.04.2018 read with OM dated 16.02.2021. Grant of revalidation of EC is subject to the compliance of the following specific conditions and standard conditions in addition to the conditions granted in earlier EC:

Specific Conditions:

1. The excess mine water shall be distributed after proper treatment to the nearby villagers (adequate for use of local villagers for irrigation purpose) with the prior approval of MPPCB.
2. Project proponent shall submit the approved Mine Plan indicating the post mining land use pattern of 380 Ha as reclaimed area, within 3 months from the date of grant of revalidated EC and compliance in this regard shall be submitted to the Ministry as well as Regional Office of the MoEF&CC.
3. Project proponent shall prepare a wildlife conservation plan in consultation with Indian Council of Forestry Research and Education (ICFRE) and the same shall be approved by the PCCF wildlife, within 2 years from the date of grant of revalidation of EC.
4. Project proponent shall monitor the subsidence and take necessary measures/ steps for filling the subsidence area as per subsidence plan.
5. The budget proposed for Public Hearing is Rs. 200 Lakhs. The budget proposed shall be kept in a separate account and shall be audited annually. Project proponent shall implement the action plan to address the issues raised during public hearing within a time frame of 15 years from the date of grant of revalidation of EC. PP shall submit the progress report regarding the implementation of the action plan to concerned RO along with the six-monthly compliance report.
6. Project proponent shall implement the protective measure proposed in Environment Management Plan (EMP) in a time-bound manner. The budget earmarked for the same is Rs 1345 Lakhs (Capital) and Rs 356.25 Lakhs per annum (recurring) and should be kept in separate accounts and audited annually. The implementation status along with the amount spent with documentary proof shall be submitted to the concerned Regional Office for the activities carried out during the previous year.
7. Total plantation by the end of the mine life shall be done in at least 380 Ha of ML area. Apart from this agro forestry and community plantation shall be carried out on the land purchased for surface rights. Dense plantation shall also be carried out on both the sides of coal transportation roads. Plantation shall be done with the mainly native species of 2 meter height saplings. PP shall plant atleast 40,000 tree saplings in the on-going monsoon 2025.
8. A detailed watershed management plan should be submitted for the forest area in the M.L.area with construction of water harvesting structures and gap plantation.
9. Project proponent shall complete the process of providing employment to the remaining 28 nos of people eligible for employment. Further PP shall complete the compensation disbursement of Rs. 0.312 crores.
10. Proponent shall carryout regular maintenance of the potholes on roads, repair and maintenance of roads, scrapping of material fallen on roads, and removal of scraps from mining areas. Along with this, PP shall make sure that all the pollution control equipments are in good working condition and maintenance of those equipments is regularly carried out.

11. Project Proponent shall ensure that all types of plastic waste generated from the mines shall be stored separately in isolated areas and disposed of strictly adhering to the Plastic Waste Management Rules 2016. In pursuant to the Ministry's OM dated 18/07/2022, PP shall also create awareness among the people working in the project area as well as in its surrounding area on the ban on Single Use Plastic (SUP) in order to ensure compliance of the Ministry's Notification published by the Ministry on 12/08/2021. A report along with the photographs of the measures taken shall also be included in the six monthly compliance reports being submitted by PP.
12. PP should establish an Environment Management Cell at its mines in order to make sure that all the compliances related to environment are being complied efficiently. PP should conduct the monthly review meeting with the environment management cell shall be carried out at mine level and quarterly at with environment management committee of the company. The record of the same shall be maintained.
13. The proponent shall obtain all necessary clearances/approvals that may be required before the start of the project.
14. The Ministry or any other competent authority may stipulate any further condition for environmental protection.
15. The Environmental Clearance to the aforementioned project is under provisions of EIA Notification, 2006. It does not tantamount to approvals/consent/permissions etc. required to be obtained under any other Act/Rule/regulation.
16. The Project Proponent is under obligation to obtain approvals /clearances under any other Acts/Regulations or Statutes, as applicable, to the project.
17. The PP is under obligation to implement commitments made in the Environment Management Plan, which forms part of this EC.
18. Validity of EC is as per the para 9 of EIA Notification 2006 read with its subsequent amendment dated 12th April 2022.
19. Any appeal against this environmental clearance shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.
20. The coal company/project proponent shall be liable to pay the compensation against the illegal mining, if any, and as raised by the respective State Governments at any point of time, in terms of the orders dated 2nd August, 2017 of Hon'ble Supreme Court in WP (Civil) No.114/2014 in the matter of Common Cause Vs Union of India & others.
21. The concerned State Government shall ensure no mining operations to commence till the entire compensation for illegal mining, if any, is paid by the project proponent through their respective Department of Mining & Geology in strict compliance of the judgment of Hon'ble Supreme Court. This environmental clearance shall not be operational till such time the project proponent complies with the above said judgment of Hon'ble Supreme Court, as applicable, and other statutory requirements.
22. All other conditions stipulated in EC dated 15.03.1996 shall remain the same.

General Instructions:

- a. The project proponent shall prominently advertise it at least in two local

newspapers of the District or State, of which one shall be in the vernacular language within seven days indicating that the project has been accorded environment clearance and the details of MoEF&CC website where it is displayed.

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

Annexure - I

STANDARD TERMS OF REFERENCE (TOR) FOR UG COAL MINING

[GREEN FIELD & BROWN FIELD]

- (i) An EIA-EMP Report shall be prepared forMTPA peak rated capacity in a mining lease (ML) area ofha based on the generic structure specified in Appendix-III of the EIA Notification, 2006.
- (ii) The cover page of the EIA report shall consists of project title with location, applicable schedule of the EIA Notification, 2006, ToR letter No. with date, study period along with EIA consultant & laboratory details with reference of QCI/NABET/NABL accreditation certificate.

Introduction about the project:

- (i) Details regarding project capacity (peak rated capacity in MTPA) and mining lease area (ha), details regarding project proponent and project location (including coalfield / coal block & geographical location), significance/need of the project and coal linkage.
- (ii) Details of mine plan and mine closure plan approval from Competent Authority should be furnished for green field and expansion projects. Reference of the Vesting Order should also be provided.
- (iii) Details of the chronology of past EC regarding the project and its implementation status (in case of expansion proposals) shall be provided

Project Details and Description

- (i) Details w.r.t location of the project - Coordinates w.r.t the mining lease boundary (including kml in polygon format) to be provided and submitted as location plan. A toposheet depicting the core zone (mine infrastructural area) and buffer zone (10 kms radius from periphery of the core zone) on 1:25,000 scale. (including all eco-sensitive areas and environmentally sensitive places)
- (ii) Details of sensitive environmental receptors (habitation / school / river or water body / forest / areas of archaeological significance, etc.) within 10 kms from the periphery of the core zone shall be provided. Details w.r.t need for diversion of water body / road / railway / transmission lines to be indicated.
- (iii) Details of mineral reserves, geological status of the mining lease area and the seams to be worked, ultimate working depth, gassiness of seams to be worked and progressive stage-wise working scheme until the end of mine life should be provided on the basis of the approved peak rated capacity and calendar plans of production from the approved Mining Plan. Geological maps and section should be included.
- (iv) 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 on air quality, noise & vibration on account of mineral transportation, coal handling & storage/stockyard, etc. should be provided. Details w.r.t manpower engaged

in the project shall also be included.

- (v) Submission of sample test analysis of characteristics of coal: This should include details on grade of coal and other characteristics such as ash content, sulphur and heavy metals including levels of Hg, As, Pb and Cr.
- (vi) Details w.r.t utilities required for the project including power, fuel, water supply, including source of the utilities.
- (vii) Details w.r.t infrastructural facilities planned as a part of the project including incline, ventilation shafts, CHP, ETP, Stockyard, township/colony, magazine, etc.
- (viii) Project proponent should clearly show the transport route & details of transportation route (*viz.* Type of road, width of road, Pavement Condition Index, V/C of road etc.) of the mineral and protection and mitigative measures to be adopted while transporting the mineral. The coal or lignite evacuation facility should be through conveyor or railway or any environmentally friendly transport other than road transport from mine sites to the railway siding for projects with PRC more than 2 MTPA, as per new Guidelines for preparation of Mining Plan and Mine Closure Plan from MoC dated 31.01.2025. Also, preference to be given to eliminate road transport by adopting environment friendly transport of coal evacuation and opt for mechanized loading for projects with peak rated capacity even upto 2 MTPA.
- (ix) A detailed site plan of the mine showing the proposed break-up of the land for mining operations such as the mine entries / incline, UG seams and panels, 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 thereof in terms of construction of embankments/bunds, proposed diversion/re-channeling of the water courses, etc., approach roads, *etc.* should be indicated.
- (x) Project proponent shall submit the drone video & geo-tagged photographs of mine lease area to be mined, including infrastructural area and proposed transportation route.
- (xi) It must be endeavored to locate the mine inclines and ventilation shafts at least 100 m from habitations. In case such 100 m buffer is not possible, justification for the same shall be provided. Project proponent should ensure that no forestland is diverted to the extent feasible for setting up of the mine infrastructure facilities.
- (xii) Original land use (agricultural land/ forestland (*if applicable*) /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 mining lease area, acquired for mining operations should be analyzed. Extent of area under surface rights and mining rights should be specified. A map depicting the same shall also be submitted.

Pre-Mining Land use

| Sl. No. | ML/Project Land-use | Area under Surface Rights only (ha) | Area under Mining Rights (ha) | Area under Both / All Rights (ha) |
|---------|---------------------|-------------------------------------|-------------------------------|-----------------------------------|
| 1. | Agricultural Land | | | |
| 2. | Forest Land | | | |
| 3. | Grazing Land | | | |
| 4. | Settlements | | | |
| 5. | Water bodies | | | |
| 5. | Others(specify) | | | |
| | TOTAL | | | |

Break-up of Area under Surface Rights only

| Sl. No. | Details | Area (ha) under Surface Rights only |
|---------|-----------------|-------------------------------------|
| 1. | Buildings | |
| 2. | Infrastructure | |
| 3. | Roads | |
| 4. | Water bodies | |
| 4. | Others(specify) | |
| | TOTAL | |

Land Use during Mining Phase

| Sl. No. | Details | Area under Surface Rights only (ha) | | | Area under Mining Rights [beneath surface] (ha) | | | Area under Both/All Rights (ha) | | |
|---------|---|-------------------------------------|-----------------|-------|---|-----------------|-------|---------------------------------|-----------------|-------|
| | | Forest Land | Non-forest land | Total | Forest Land | Non-forest land | Total | Forest Land | Non-forest land | Total |
| 1 | UG Extraction / Working area (beneath surface) | | | | | | | | | |
| 2 | Industrial Infrastructure (Mine entry / incline, stockyard / siding / magazine, etc.) | | | | | | | | | |
| 3 | Other infrastructure (office buildings, utilities, treatment plants, colony etc.) | | | | | | | | | |
| 4 | Roads | | | | | | | | | |
| 5 | Greenbelt | | | | | | | | | |
| 6 | Water body | | | | | | | | | |
| 7 | Undisturbed/vaca | | | | | | | | | |

| Sl. No. | Details | Area under Surface Rights only (ha) | | | Area under Mining Rights [beneath surface] (ha) | | | Area under Both/All Rights (ha) | | |
|---------|-----------------------|-------------------------------------|-----------------|-------|---|-----------------|-------|---------------------------------|-----------------|-------|
| | | Forest Land | Non-forest land | Total | Forest Land | Non-forest land | Total | Forest Land | Non-forest land | Total |
| | nt area / safety zone | | | | | | | | | |
| | TOTAL | | | | | | | | | |

In case of expansion proposals, the above table must be provided for

- (1) Present land use as per existing EC and
- (2) Proposed land use in terms of expansion proposal

Land Use Status - Post Mining Phase

| Sl. No. | Details | Plantation | Water Body | Public Infrastructure | Un-disturbed areas | Subsided Area | Total |
|---------|---|------------|------------|-----------------------|--------------------|---------------|-------|
| 1 | UG Extraction / Working area (beneath surface) | | | | | | |
| 2 | Industrial Infrastructure (Mine entry / incline, stockyard / siding / magazine, etc.) | | | | | | |
| 3 | Other infrastructure (office buildings, utilities, treatment plants, colony etc.) | | | | | | |
| 4 | Roads | | | | | | |
| 5 | Greenbelt | | | | | | |
| 6 | Water body | | | | | | |
| 7 | Undisturbed / vacant area / safety zone | | | | | | |
| | TOTAL | | | | | | |

In case of expansion proposals, the above table must be provided for

- (1) Post mining land use as per existing EC and
- (2) Proposed post mining land use in terms of expansion proposal

- (xiii) A list of major industries within study area (10 km radius from the periphery of the core zone) with name, products manufactured and distance from core zone and the location of the industries shall be depicted in the study area map.

Baseline Data Generation

- (i) A study area map of the core zone (mine infrastructure area) and 10 kms area (1:50,000 scale), from the periphery of core zone, clearly delineating the major topographical features such as the land use, surface drainage pattern including rivers/streams/nallahs/canals, locations of human habitations, major constructions including railways, roads, pipelines, major industries/mines and other polluting sources shall be prepared.
- (ii) In case of ecologically sensitive areas such as ESZ/ESA/National Park/Wildlife Sanctuary/Biosphere Reserve/Tiger Reserve/Elephant Reserve/Tiger Corridor/ Elephant Corridor are found to be within 10 kms from the boundary of the mining lease, the nearest distance from such sites should be duly certified by Chief Wildlife Warden (CWW) and the same shall be included in the EIA/EMP report.
- (iii) The environmental baseline data collection shall be of three months' period and can be for any season except monsoon season, as per the below table:

| Attributes | Sampling, Frequency and Remarks |
|--|--|
| A. Air Environment | |
| Micro-Meteorological <ul style="list-style-type: none"> • Wind speed (Hourly) • Wind direction • Dry bulb temperature • Wet bulb temperature • Relative humidity • Rainfall • Solar radiation • Cloud cover | <p>Minimum 1 site in the core zone Hourly continuous data shall be recorded The sampling shall be as per:</p> <ul style="list-style-type: none"> • IS 5182 Part 1-20 • Site specific primary data is essential • Secondary data from IMD, CPCB guidelines to be considered. <p>Project proponent has to plot the wind rose diagram using the typical meteorological year (TMY) data for the period considered for the study.</p> |
| Pollutants Core Zone: 4 parameters as per Coal Mines, GSR 742 (E) dated 25.09.2000 Buffer zone: 12 parameters as per NAAQS, 2009 | <p>Collection of one season (90 days) AAQ data (except in monsoon season) To be monitored at 10 locations (2 locations within the core zone and 8 locations in the buffer zone) Monitoring stations in the core zone as well as buffer zone should be based on pre-dominant wind direction, habitations and terrain features. The direction and distance of monitoring stations with respect to project location should be clearly specified with geo-coordinates. The monitoring stations should cover upwind, downwind, cross wind directions, human settlements and sensitive</p> |

| Attributes | Sampling, Frequency and Remarks |
|--|--|
| | <p>areas.</p> <p>Sampling and report preparation should be as per:</p> <ul style="list-style-type: none"> National Ambient Air Quality Standards, CPCB Notification and Standards for Coal Mines, GSR 742 (E) dated 25.09.2000. Sampling as per CPCB guidelines Min., max., average and 98% values for each of the AAQ parameters from data of all AAQ stations should be provided as an annexure to the EIA Report. Summary of the air quality along with predicted values of air pollutants should be provided in the EIA Report. NABL accredited laboratory |
| B. Noise | |
| Noise levels | <p>To be monitored at 6 locations (2 locations within the core zone and 4 locations in the buffer zone)</p> <p>Noise levels at outer limits of the core zone during daytime and night time and noise levels within 1 to 3 kms from the core zone & coal transportation route especially at habitation should be monitored. The monitoring locations for sampling shall be selected as per the sources and magnitude of noise pollution.</p> <p>Sampling and report preparation as per:</p> <ul style="list-style-type: none"> As per CPCB norms and Standards for Coal Mines, GSR 742 (E) dtd 25.09.2000. NABL accredited laboratory Summary of the noise level should be provided in the EIA Report. |
| C. Water | |
| For Surface Water <ul style="list-style-type: none"> Arsenic BOD Cadmium Chlorides Copper Dissolved Oxygen Fluoride Hexavalent Chromium, Iron Lead Nitrate pH value Phenolic compounds Selenium | <p>Upstream and downstream sampling of all the relevant surface water bodies (minimum 6 locations) in the core and buffer zone shall be carried out.</p> <p>Samples for water quality should be collected and analysed as per:</p> <ul style="list-style-type: none"> Designated best use water quality criteria, CPCB NABL accredited laboratory Standard methodology for collection of surface water (BIS standards) |

| Attributes | Sampling, Frequency and Remarks |
|---|--|
| <ul style="list-style-type: none"> • Sulphate • Total Dissolved Solids • Total Suspended Solids • Zinc Any other relevant parameters | |
| For Ground Water Relevant parameters as per BIS: 10500 (latest edition) | Ground water monitoring data should be collected at minimum of 6 locations (from existing wells /tube wells) from the core and buffer zone shall be included. Samples for water quality should be collected and analysed as per: <ul style="list-style-type: none"> • NABL accredited laboratory • Standard methodology for collection of ground water (BIS standards) • Summary of surface and ground water quality should be provided in the EIA Report. |
| D. Soil Environment | |
| Soil <ul style="list-style-type: none"> • Texture • pH • Electrical conductivity • Cation exchange capacity • Sodium Absorption Ratio (SAR) • Water holding capacity • Permeability • Available NPK • Available Organic Carbon | Sampling shall be done at various type of soils (agriculture/forest/barren etc.) within the core and buffer zone (across minimum 5 locations). Samples for soil should be collected and analysed as per: <ul style="list-style-type: none"> • NABL accredited laboratory • Standard methodology for collection of soil samples • ICAR standards for available NPK to be followed. |
| E. Land Use | Land use based on Digital Survey of entire study area (including core and buffer zone) using Satellite Remote Sensing survey (1:50000) |
| F. Biological Environment | |
| Flora (both aquatic* and terrestrial) <ul style="list-style-type: none"> • Vegetation-species list, economic importance, forest produce, medicinal value • Importance value index (IVI) of trees • Diversity indices • Rare and endangered species *Aquatic assessment requirement in case of proximity of ML area to river / perennial nallah. | Detailed description of flora and fauna (terrestrial and aquatic) existing in the core and buffer zone shall be given with special reference to rare, endemic and endangered species. Indicator species which indicate ecological and environment degradation should be identified and included to clearly state whether the proposed project would result into any adverse effect on any species. Secondary data to be collected from Government offices, NGOs, published literature. |

| Attributes | Sampling, Frequency and Remarks |
|---|---|
| Fauna (both aquatic* and terrestrial) <ul style="list-style-type: none"> • Enumeration of zoo plankton and benthos • Fisheries • Diversity indices • Rare and endangered species • Avi fauna • Details of Sanctuaries / National Park / • Biosphere reserve Migratory routes/CRZ/ Marine Parks *Aquatic assessment requirement in case of proximity of ML area to river / perennial nallah. | |
| G. Socio-Economic | |
| <ul style="list-style-type: none"> • Demographic structure, traditional skills, sources of livelihood • Socio-economic profile of the people with in 2, 5 and 10 km from the core zone. • Human settlement, health status, sources of livelihood • Data relating to historically, culturally and ecologically important places in core as well as buffer areas • Information on notified tribal settlements, if any • Infrastructure resource base • Health status: Morbidity pattern • Education | <ul style="list-style-type: none"> • Measures for occupational health and safety of the manpower in the mine should be given. • Socio-economic survey shall be based on proportionate, stratified and random sampling method. • Primary data collection through questionnaire • Secondary data from census records, statistical hard books, topo sheets, health records and relevant official records available with Govt. Agencies |

- (iv) 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.
- (v) A contour map showing the area drainage of the core zone and surrounding 10 kms radius should be depicted such as to clearly indicate the water courses and the location where they ultimately join with major rivers / streams.
- (vi) The data generated should be validated through secondary data sources / published literature (example - routine environmental monitoring or CAAQMS, CEQMS data (if available) for mines/projects in vicinity).

- (vii) Summary of the baseline environmental data and inference w.r.t cause of deviations in concentrations of environmental parameters.

Impact assessment and mitigation measures

Air

- (i) In case of expansion proposals, Cumulative Environmental Impact Assessment study of all the existing and proposed projects in the 10 kms radius of the core zone area shall be conducted and the same shall be included in EIA/EMP report. Details of industrial units present in 10 kms radius of the core zone shall be earmarked in map and submitted.
- (ii) The impact of construction (particularly if constructed in forest land) and associated mitigation measures must also be provided.
- (iii) In case of proximity of mining infrastructure to habitation/water bodies, adequate safety measures should be provided as per the Coal Mining Regulations, 2017 and DGMS circulars issued from time to time and environmental protection measures like wind barriers, Vertical Greenery System (VGS), avenue/buffer plantation, etc.
- (iv) Impacts of mineral handling & transportation within the mining area and outside the lease/project along with flow-chart indicating the specific areas generating fugitive emissions should be provided, especially w.r.t impact on habitation in case of transportation through village roads. Impacts of generation of effluents from workshop, sewage, etc. & management plan for maintenance of 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.
- (v) Air quality modelling should be carried out for prediction of impact of the project on air quality of the area. It should *inter alia* take into account the emissions from DG sets if any, impact of movement of vehicles for transportation of coal. The details of the model used and input parameters for modeling should be provided. The air quality contours may be shown on a location map clearly indicating the location of the site, location of sensitive receptors, if any, and habitations. The wind roses showing pre-dominant wind direction may also be indicated on the map.
- (vi) 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 should be provided and details w.r.t frequency of their use/operation to ensure efficient mitigation in terms of air quality should be provided.
- (vii) 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.
- (viii) Project proponent shall explore feasibility for transitioning towards adoption of EVs and eco-friendly mode of transport.

Noise

- (i) Measures for noise control in the work zone and surrounding areas should be

provided. All the DG sets should have proper acoustic measures to reduce noise pollution.

Water

- (i) Impact of mining and water abstraction from the mine on the hydrogeology and groundwater regime (both dynamic and static resources) within the core zone and 10 kms buffer zone including long-term monitoring measures should be provided. Details of rainwater harvesting and measures for recharge of groundwater in the buffer zone should be reflected. Necessary mitigation measures w.r.t quality of mine water, treatment, utilization and discharge of mine water must be provided.
- (ii) Treatment facility should be based on mine water characteristics and domestic waste water characteristics.

Hydrogeology

- (i) Impact of proposed project/activity on hydrological regime of the area shall be assessed and report be submitted. Hydrological studies as per GEC 2015 guidelines to be prepared and submitted.
- (ii) Detailed water balance should be provided (breakup of water requirement as per different activities in the mining operations, including for sand stowing). 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.
- (iii) In case of need for river/nallah diversion, impact assessment and proper mitigation plan is required; diversion plan approved by competent authority is to be submitted.

Land

- (i) Conceptual Final Mine Closure Plan and post mining land use and restoration of land/habitat to the pre-mining status to the extent possible should be provided and submitted with detailed cost provisions.
- (ii) The details regarding Progressive Mine Development and Conceptual Final Mine Closure Plan should also be provided and shown in plans/drawings.
- (iii) The project proponent shall prepare comprehensive plantation plan including number of saplings to be planted, location of plantation, target for survival rate and budget all along the periphery of mine infrastructure. 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 should be provided. The seedling of height not less than 2 meters to be selected and accordingly cost of plantation needs to be decided. The plantation plan should cover areas other than core zone.
- (iv) Project proponent is advised to submit an action plan towards implementation of 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.

Flora & Fauna

- (i) If the study area (core and buffer zone) 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 10 kms 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.

Waste Management

- (i) Quantification of solid and hazardous wastes, including corresponding impacts and management plan to be provided.
- (ii) 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.

Additional studies

- (i) Risk assessment and management as per the Coal Mining Regulations, 2017 and other applicable statutes must be summarized in the EIA/EMP report. Measures for addressing occupational health and safety risks of the personnel and manpower engaged in the mine should be submitted in line with work zone regulations. The risk assessment studies must be undertaken by qualified institutes engaged in mine planning projects and the detailed report may be attached as annexure to the EIA/EMP report. These studies may be aligned with DGMS norms.
- (ii) Study on subsidence including modelling for prediction, mitigation/prevention of subsidence, continuous monitoring measures, and safety issues should be carried out from reputed institutes equipped for the same. The subsidence study should *interalia* include seismic characteristics of the location of the project site. Summary of the same along with the mitigation measures should be included in the EIA/EMP report and detailed report should be attached as Annexure.
- (iii) Traffic assessment study to be done considering transportation of coal from the coal stockyard either upto siding or upto nearest public transport route/highway. Adequacy of existing roads, impact due to additional traffic and proposed management / mitigation measures to be provided.
- (iv) In case of diversion of power line / transmission lines / railway line / roads – the impact assessment of such diversions and corresponding mitigation proposed in line with the permissions/NoC obtained from the competent Authority shall be provided.
- (v) Assessment of carbon emission intensity of the project should be summarized in the EIA/EMP report including measures to reduce the same in line with GoI NDC commitments / SDGs should be provided. The detailed report may be attached as an annexure to the EIA/EMP report.
- (vi) Details w.r.t R&R plan should be summarized in the EIA/EMP report. 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 as annexure to the EIA/EMP report.

- (vii) In case the project is located either in Critically Polluted Area or in Severely Polluted Area, the proponent must submit additional action plan to address environmental safeguards as per OM dated 31st October, 2019 (Ref. F. No. 22-23/2018-IA.III (Pt)).
- (viii) Signed copy of complete Public Hearing Proceedings (forwarding letter to MoEFCC by SPCB, notice issued in newspaper for PH, PH MoM, Attendance sheet, PH photographs, written representations received during public hearing and written communication submitted, notarized copy of English translation of PH proceeding including written representation and response submitted) to be enclosed as Annexures to the EIA/EMP report.
- (ix) Action plan duly addressing the issues raised during the Public Hearing and Consultation with physical and financial outlay as per Ministry's OM dated 30.09.2020 shall be included as per the table given below:

| Proposed Activities under Public Hearing | Place of Implementation (Physical targets) | Year wise financial outlay in, Rs. Lakhs | | | | | |
|--|--|--|----------|----------|----------|----------|-------|
| | | Year - 1 | Year - 2 | Year - 3 | Year - 4 | Year - 5 | Total |
| | | | | | | | |

Environmental Management Plan

- (i) Summary containing mitigation measures to be adopted for each environment component during development and operation phase of UG coal mining shall be submitted.
- (ii) Details of the Environment Management Cell
- (iii) Performance monitoring of pollution control devices and Effluent Treatment Plant shall be furnished.
- (iv) Cost of Environmental Management Plan (capital and recurring) should be included in the project cost and for progressive and final mine closure plan.
- (v) Corporate Environment Policy:
- 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.

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

Environmental Monitoring Plan

(i) Details w.r.t environmental monitoring plan in terms of air (including fugitive emissions), noise, water, soil to ensure effectiveness of mitigation measures deployed shall be provided

(ii) Total capital cost and recurring cost/annum for environmental pollution control measures shall be included.

Project Benefits

(i) Details regarding benefits of the project w.r.t improvements in physical and social infrastructure, employment potential and other tangible benefits to be provided.

Legal and statutory approvals and details w.r.t litigations

(i) Status of any litigations/ court cases filed/pending on the project should be provided in below format

| S. No. | Name of the Court/Tribunal | Name of the specific Court/Bench | Case Category | Status of court case | Orders/Directions of the court, if any, and its relevance with the proposed project |
|--------|----------------------------|----------------------------------|---------------|----------------------|---|
| | | | | | |

(ii) Copy of clearances/approvals such as Forestry Clearance, Mining Plan / Mine Closure Plan approval, NOC from CGWA, NOC from Flood and Irrigation Dept. (if req.), NBWL, NTCA, etc. wherever applicable.

(iii) Details on the Forestry Clearance (*if forest land is involved*) should be given as per the format given:

| Total ML /Project Area (ha) | Total Forest Land (ha) | Status w.r.t FC received | | Status w.r.t balance Forest Land | |
|-----------------------------|------------------------|--------------------------|-----------------------|---|--|
| | | 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 |
| | | | | | |
| | | | | | |

(iv) In case of expansion proposals, Certified Compliance Report (CCR) from RO, MoEF&CC is required to be submitted.

(v) Necessary coordination shall be made with concerned SPCB (who is responsible for

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

- (vi) In case of diversion of water body / road / railway lines / transmission line, approval for the same from competent authority must be submitted.

Summary and conclusion

- (i) An executive summary of the report covering key findings of EIA/EMP study are to be provided.

Details regarding consultant and laboratories engaged

- (i) 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.
- (ii) Project proponent shall submit the EIA/EMP report after the plagiarism check using authenticated plagiarism software.

ANNEXURE-II

GENERIC TOR FOR AN OPEN CAST COAL MINE PROJECT

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

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

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

- (xii) Break-up of lease/project area as per mining plan should be provided.
- (xiii) Impact of changes in the land use due to the project if the land is predominantly agricultural land/forest land/grazing land, should be provided.
- (xiv) One-season (other than monsoon) primary baseline data on environmental quality - air (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.

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

| S.N. | Land use Category | Present (1 st Year) | 5 th Year | 10 th Year | 20 th Year | 24 th Year (end of mine life)* |
|------|--|--------------------------------|----------------------|-----------------------|-----------------------|---|
| 1. | Backfilled Area Reclaimed with plantation) | | | | | |
| 2. | Excavated Area (not | | | | | |

| | | | | | | |
|----|---|--|--|--|--|--|
| | reclaimed)/void | | | | | |
| 3. | External OB dump Reclaimed with plantation) | | | | | |
| 4. | Reclaimed Top soil dump | | | | | |
| 5. | Green Built Area | | | | | |
| 6. | Undisturbed area (brought Under plantation) | | | | | |
| 7. | Roads (avenue plantation) | | | | | |
| 8. | Area around buildings and Infrastructure | | | | | |
| | TOTAL | | | | | |

*As a representative example

Table2: Stage Wise Cumulative Plantation

| S.No. | YEAR* | Green Belt | | External Dump | | Backfilled Area | | Others (Undisturbed Area/etc) | | TOTAL | |
|-------|--|------------|--|---------------|--|-----------------|--|-------------------------------|--|-------|--|
| 1. | 1 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 |

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

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

- (xl) Inbuilt mechanism of self-monitoring of compliance of environmental regulations should be indicated.
- (xli) Status of any litigations/court cases filed/ pending on the project should be provided.
- (xlili) 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 - III

LIST OF PARTICIPANTS OF EAC (COAL) IN 29TH MEETING HELD ON 22-23RD JULY 2025, THROUGH VIRTUAL MODE

| S. No. | Name & Address | Role | 22.07.2025 | 23.07.2025 |
|--------------------|---|--|-------------------|-------------------|
| 1. | Shri Inder Pal Singh Matharu, IFS (Retd.) | Chairman | Present | Present |
| 2. | Shri Lalit Kapur | Member | Present | Present |
| 3. | Dr. Umesh Jagannathrao Kahalekar | Member | Present | Present |
| 4. | Dr. Santosh Kumar Hampannavar | Member | Present | Present |
| 5. | Shri Savalge Chandrasekhar | Member | Present | Present |
| 6. | Shri K. B. Biswas | Member | Present | Present |
| 7. | Prof. Shyam Shanker Singh | Member | Present | Present |
| 8. | Dr. Vinod Agrawal | Member | Present | Present |
| 9. | Shri Prasoon Gargava, Scientist - F | Representative of Central Pollution Control Board | Absent | Absent |
| 10. | Shri Mahi Pal Singh, Chief Engineer | Representative of Central Electricity Authority (CEA) | Present | Present |
| 11. | Shri Harmeet Sahaney | Representative of Indian Meteorological Department (IMD) | Absent | Absent |
| 12. | Prof. R M Bhattacharjee | Representative of IIT/ISM Dhanbad | Present | Present |
| 13. | Shri Sundar Ramanathan | Scientist 'F' & Member Secretary | Present | Present |
| MoEF&CC | | | | |
| 1. | Dr. Rajesh Prasad Rastogi | Scientist 'D' | Present | Present |

Approval of the Chairman

Inderpal Singh Matharu < matharu0204@gmail.com >

Thu, 31 Jul 2025 2:21:51 PM +0530

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

Dear Sundar ji,

I have gone through the final draft MoM of the 29th EAC- Coal held on 22/07/2025 sent by you. In this all the points have been incorporated including the amendments done in Zero draft of it. I agree with the above Final draft of MoM.
Hence I approve the MoM of the 29th EAC- Coal .

Sincerely yours

Inder Pal Singh Matharu

Chairman

EAC Coal mining and Thermal power

MoEF&CC

Gol