

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

**Date of zero draft MoM sent to Chairman: 13/05/2025**

**Approval by Chairman: 14/05/2025**

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**SUMMARY RECORD OF THE TWENTY FIFTH (25<sup>TH</sup>) MEETING OF EXPERT APPRAISAL COMMITTEE (EAC) HELD ON 9<sup>TH</sup> MAY 2025 FOR ENVIRONMENT APPRAISAL OF COAL MINING SECTOR PROJECTS THROUGH VIRTUAL MODE.**

**9<sup>TH</sup> MAY 2025 [FRIDAY]**

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 – I**.

Confirmation of the minutes of the 24<sup>th</sup> meeting of the EAC (Coal): The minutes of the 24<sup>th</sup> meeting of the EAC (Coal) held on 30<sup>th</sup> April 2025 through physical mode have been confirmed by the EAC.

**25.1:** Jawahar Khani Opencast Mine [area: increasing from 1015.1 ha to 1114.507 ha with production capacity of 2.50 MTPA (rated)/ 3.75 MTPA (peak)] **by M/s Singareni Collieries Company Limited** located at Villages: Rompedu, Usirikayalapalli, Yellandu; **District: Bhadradi Kothagudem & Khammam; State: Telangana – Environmental Clearance – regarding.**

**[Online Proposal No. IA/TG/CMIN/533047/2025; Consultant: Environment Protection & Training Research Institute – NABET/EIA/24-27/RA0337 valid up to 21.01.2027]**

**25.1.1:** M/s. Singareni Collieries Company Limited (SCCL) has made an online application vide proposal No. IA/TG/CMIN/533047/2025 dated 19.04.2025 for the proposed Jawahar Khani Opencast Mine [Amalgamation of JK-5 OC and 21 Incline (Conversion to OC)] along with copy of EIA/EMP report, Form and Certified compliance report seeking Environment Clearance (EC) under the provisions of the EIA Notification, 2006 for the project mentioned above. The proposed project activity is listed at item No.1 (a) (Mining of Minerals) under Category “A” of the schedule of the EIA Notification, 2006 and do not attract general conditions of the EIA Notification, 2006. Hence, the project is appraised at Central Level.

Proposed Jawahar Khani Opencast Coal Mine (GK OCM) is an amalgamation of Jawahar Khani-5 Opencast Expansion Project (closed in year 2024-25) and 21 Incline mine (closed) (proposed for conversion from UG to OC). In the proposed amalgamation the balance coal reserves (23 MT) from the 21 Incline Mine will be extracted by open cast method after conversion of mine from UG to OC and the voids of JK-5 OC will be filled by the overburden of 21 Incline Mine. The project of Jawahar Khani Opencast Mine is located in Sudimalla (V) & Rompaid (V), Yellandu Mandal of Bhadradi Kothagudem District and Usirikayalapalle (V)

of Singareni Mandal of Khammam District in Telangana State is an opencast mine with a capacity of 2.50 MTPA (Peak 3.75 MTPA) in mine lease area of 1114.507 ha.

PP submitted the instant proposal of Jawahar Khani Opencast mine earlier vide proposal no. IA/TG/CMIN/501551/2024 dated 27.11.2024 and the same was appraised in the 22<sup>nd</sup> EAC meeting of Coal held on 17 – 18<sup>th</sup> March 2025, wherein the proposal was returned in present form with a recommendation to revisit the entire proposal in totality with respect to surface rights required for the entire forest land involved, reduction in the depth of void proposed in 163.135 ha and revalidation of base line data. Thereafter, proposal shall be submitted for fresh consideration by the EAC. Accordingly, fresh proposal was submitted by the project proponent.

### 25.1.2: Details of previous approvals in chronological order:

S. No.	Details of Letter No.	EC/Expansion EC/Amendment in EC/Validity/extension/Transfer of EC	Capacity (MTPA)	Area (Ha)	Date of issuance	Status of implementation
<b>Jawahar Khani- 5 Opencast Project – No forest land involved in the ML area.</b>						
1	Jawahar Khani- 5 Opencast Coal Mine Project-J-11015/358/2006-IA.II(M).	Original EC	2.00	514.95	18.05.2009	Implemented
2	Expansion of Jawahar Khani- 5 Opencast Coal Mine Project-J-11015/31/2013-IA.II(M).	EC Expansion	2.50	514.95	03.03.2016	Implemented
3	Expansion of Jawahar Khani- 5 Opencast Coal Mine Project-F.No. 23-257/2018-IA (III)	EC Expansion (under violation category)	3.50	490.14	09.06.2022	Being implemented
<b>21 Incline Underground Coal Mine – Involvement of forest land: 124.96 Ha</b>						
4	21 Incline Underground Coal Mine- No. J-11015 /930 / 2007-IA.II(M)	Original EC	0.65	745	27.10.2008	Implemented and the mine is closed.

**Total ML area = 490.14 + 745 = 1235.14 Ha**

### 25.1.3: Production details of the existing EC:

#### A. JK-5 OC:

S. No	Year	As per EC	Actual Production	Excess production beyond the EC sanctioned capacity
1.	2012-13	2.00	1.47	Nil
2.	2013-14	2.00	2.00	Nil
3.	2014-15	2.00	1.39	Nil
4.	2015-16	2.50	2.51	0.01
5.	2016-17	2.50	2.69	0.19

S. No	Year	As per EC	Actual Production	Excess production beyond the EC sanctioned capacity
6.	2017-18	2.50	2.96	0.46
7.	2018-19	2.50	3.30	0.80
8.	2019-20	2.50	3.35	0.85
9.	2020-21	2.50	2.50	Nil
10.	2021-22	2.50	2.49	Nil
11.	2022-23	3.50	1.88	Nil
12.	2023-24	3.50	1.37	Nil
13.	2024-25	3.50	1.27	Nil

EC for the Jawahar Khani- 5 mine was accorded under violation category. Amendment in the said EC with respect of implementation of Remediation Plan and Natural & Community Resource Augmentation Plan (RP&NCRAP) was recommended in the 20<sup>th</sup> EAC meeting held on 22.01.2025. Accordingly, EC amendment was issued on 21.02.2025 for the release of bank guarantee by the TSPCB as the project proponent has completed the implementation of RP & NCRAP.

#### B. 21 Incline:

S. No.	Year	As per EC	Actual production	Excess production beyond the EC sanctioned capacity
1.	2008-09	0.65	0.530	Nil
2.	2009-10		0.374	Nil
3.	2010-11		0.391	Nil
4.	2011-12		0.390	Nil
5.	2012-13		0.332	Nil
6.	2013-14		0.316	Nil
7.	2014-15		0.201	Nil
8.	2015-16		0.203	Nil
9.	2016-17		0.179	Nil
10.	2017-18		0.640	Nil
11.	2018-19		0.363	Nil
12.	2019-20		Nil (Mine Closed)	

**25.1.4: Certified Compliance Report:** The Status of compliance of earlier EC was obtained from Regional Office, Hyderabad vide F. no.1-26/2023/IRO-HYD, dated 24.09.2024 in the name of M/s. Jawaharkhani-5 OC Expansion Project and 21 Incline UG Mine. As per the CCR obtained from Ministry's RO, there were no non-complied or partly complied conditions observed.

#### 25.1.5: Environmental Site Settings:

The project area is covered under Survey of India Topo Sheet No. 65 C/6 and is bounded by the geographical coordinates ranging from Latitudes N 17° 32' 44'' to N 17° 37' 10'' & Longitudes E 80° 17' 38'' to E 80° 20' 27''.

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

**Forest Area:** The project involves 213.0077 Ha of Forest Land and the details of the approvals already obtained are as follows:

S. No.	Obtained vide letter no. & date	Area in ha.	Stage - I/ II	Validity period of FC
1	8-260/1985-FC(Vol.I), dated 14.10.2024.	151.8519	Stage-I-Surface rights	31.12.2034
2	8-54/91-FC (PL), dated 25.07.2008.	42.50	Stage-II-UG Rights	24.07.2028
3	8-260/1985-FC, dated 20.07.2018.(124.96 Ha)	18.6558	Stage-II- UG Rights	31.12.2034
	<b>Total</b>	<b>213.0077</b>		

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

PP submitted that 61.1558 ha of forestland, on which the PP has accorded underground rights for mining shall continue as underground rights only, as the same land will not be disturbed in the opencast mining proposed for the instant project. PP has also submitted a letter obtained in this regard on 24.04.2025 from PCCF, Govt. of Telangana, stating that *“an area of 61.156 ha will be kept undisturbed and continued with UG rights and the State Govt. informed that the area of 61.156 Ha is FL diverted with UG rights and no mining activity is proposed in this area, hence kept as undisturbed. This area is covered in the Approved Mining Plan. There is no mining plan separately to this extent.”*

**Protected Area:** The project is not located within 10 KM of any ESZ/ESA/national Park/Wildlife sanctuary/biosphere reserve/tiger reserve/elephant reserve/Tigre corridor/elephant corridor etc. A Wild life conservation plan for 11 schedule-I species has been prepared and approved by the Principal Chief Conservator of Forests and Chief Wildlife Warden for an amount of Rs.342.05 lakhs. An amount of Rs.342.05 Lakhs has been remitted on 15.09.2022 through RTGS vide UTR No. SBINR 52022091905236839 to, BIOSOT A/c No. 110310100030284, Union Bank of India, Secretariat Branch, Hyderabad.

**Mine lease Details:** Total mine lease area is 1114.507 ha. Details of the same are as follows:

S. No.	Govt. Order/ Notifications as the case may be	Area (ha)	Remarks
1	Yellandu Mining Lease (YML) for an area of 524.96 Ha granted for a period of 20 years vide G.O.MS. No. 5, dated 6 <sup>th</sup> February, 2015 and valid up to 31 <sup>st</sup> December, 2034.	524.96	-
2	Yellandu Additional Mining Lease (YAML) for an area of 1712 Ha granted vide G.O. Rt. No. 57, dated 2 <sup>nd</sup> November, 2024 and valid up to 31.03.2030.	589.547	Out of total 1712 ha of land obtained vide G.O. Rt No. 57, only 589.547 ha is proposed to be used in the instant project. Remaining 1122.543 ha will not be used for the instant project. Out of this 1122.543 ha, 417.854 ha, which is covered under CA land will be surrendered. 651 ha land is covered under township and villages and remaining 53.60 ha land is proposed to be used for future coal extraction. The 704.6 ha (651 + 53.60) is completely non-forest land.
	<b>Total</b>	<b>1114.507</b>	

**Land details of existing and proposed project:**

S. No.	Mine	Existing EC Area (Ha)	Area considered in present proposal (Ha)	Remarks
1	21 Incline	745 (Non-forest land: 440; Forest land: 305)	524.96 (Non-forest land: 354.4523; Forest land: 170.5077)	<ul style="list-style-type: none"> <li>Covered in Yellandu Mining Lease (YML).</li> <li>220.04 ha (Non-forestland: 40 ha; forestland: 180.04 ha) was reduced during 3<sup>rd</sup> renewal of Mining Lease. The forestland was returned to the State Forest Department.</li> </ul>
2	JK 5 Expansion Project	490.14 (No forestland)	487.73 (No forestland)	<ul style="list-style-type: none"> <li>Covered in Yellandu Additional Mining Lease (YAML).</li> <li>2.41 ha was excluded-area (de-coaled by UG Method) from the JK-5 Opencast Project.</li> </ul>
3	Included additional area		101.817 (Non – forestland: 59.317 ha; forestland: 42.50 ha)	<ul style="list-style-type: none"> <li>Covered in Yellandu Additional Mining Lease (YAML).</li> <li>Area (De-coaled by UG Mining) for infrastructure and also subsidence monitoring &amp; fire control.</li> </ul>
	<b>Total</b>	<b>1235.14</b>	<b>1114.507</b>	

**Total ML area = 1114.507 Ha (Forest land: 213.007 Ha + Non forest land: 901.499 Ha)**

**Other Sensitive Receptors:**

Project site proximity to sensitive area		Sensitive receptors within 5 km to the Mine Lease Area		
Project site proximity to sensitive area		i. Habitation (within 5 km)		
		Village	Distance	Direction
		Sudimalla	0.38 Km	S-E
		Usirikayalapalli	0.8 Km	S-W
		Yellandu (Town)	0.1 km	S-E
		Poosapalli	0.80 Km	N-W
		Shanti Nagar	0.36 km	S-W
		Tekulagudem	1.56 km	S
		Bhagyanagar Thanda	1.88 km	S-W
		Pollampalli	1.38 km	S-W
Rompaid	2.99 km	N-E		
ii. School		ii. School: (Within 5 km)		
		Schools	Distance	Direction
		Singareni High School (Yellandu)	0.6 Km	N-E
		Govt.High School (Yellandu)	0.3 km	N-E
		J.B.S. High School (Yellandu)	0.5 km	N-E
		ZPUPS School, (Yellandu)	0.6 Km	N-W
		TTWURJC School (Sudimalla)	0.6 Km	S-E
		TTWRS School (Shanti Nagar)	0.45 Km	S-E
		Usirikayalapalli	1.0 km	S-W
		Tekulagudem	1.70 km	S
Bhagyanagar Thanda	1.92 km	S-W		
Rompaid	3.00 km	N-E		
iii. River/Waterbody		iii. River/Waterbody (Within 5 Km)		

Project site proximity to sensitive area		Sensitive receptors within 5 km to the Mine Lease Area		
iv. Forest		River/Nallah	Distance	Direction
		Masi stream	Flowing adjacent to the ML area.	Drains from the west side of the buffer area and flows northwest
		Bugga vagu, a seasonal nallah	Flowing over the ML area (Undisturbed area)	Drains from the west side of the buffer area and flows south west
		Nalla stream	4.0 km	Flowing towards southeast
		iv. Forest (Within 5 Km)		
v. Archaeological Survey of India (ASI) protected site		Reserve Forest	Distance	Direction
		Yellandu Reserve Forest of Yellandu Division	Within the core zone	-
		v. ASI protected site: None within 10 km radius from ML boundary.		
vi. Any other		vi. Any other: Nil		

A small portion of seasonal nallah flowing adjacent to the ML boundary is proposed to be straightened along the ML boundary and to construct an embankment between the quarry and nallah. NoC has been obtained from Irrigation Department (I&CADD), State Government of Telangana and work will be taken up as per the guidelines of I&CADD. Existing length of the nallah is 352 m and length proposed for straightening is 294 m.

2 Nos of 3.3 kV HT lines (TS Transco), are passing through the excavation area (Pit-2). It is proposed to divert these power lines along the periphery of the quarry (Pit-2).

#### 25.1.6: Details of ToR:

Date of Application	Details	Date of Accord	ToR Validity
03.11.2022	F.No. IA 23-257/2018-IA(III)	13.12.2022	12.12.2026

**25.1.7: Method of Mining and Mine Plan:** Mining Plan (Including Mine Closure Plan) was approved by MoC vide Lr. N.34011/1/2020-CPAM, dated 29.10.2020 for the ML area of 1114.507 Ha of the production capacity 2.50 MTPA (rated)/ 3.75 MTPA (peak).

1. Method of mining proposed is opencast mining using shovel-dumper combination.
2. Total geological reserve reported in the mine lease area is 99.12 MT with 74.68 MT mineable reserves. Out of total mineable reserves of 74.68 MT, 68.57 MT are extractable reserves. Percent of extraction is 91.81%. Till 31.03.2024, about 45.57 MT of coal reserves were already extracted and the balance reserves available for extraction area 23 MT as on 01.04.2024.
3. There are 2 workable seams, with thickness ranging between 0.90 m – 13.67 m.
4. Grade of coal is G-13.

5. Average stripping ratio is 1:11.98.
6. Life of mine is 14 years (as on 01.04.2024).

**7. Top Soil Management:**

- i. **Quantity of Top Soil to be generated:** 5.53 M. Cu.m
- ii. **Storage of Top Soil:** Temporary dumps
- iii. **Handling/Utilization of Topsoil:** External dumps-2.99 M. Cu.m, Internal dumps-2.43 M. Cu.m, Embankment-0.01 M. Cu.m and Green Belt-0.1 M. Cu.m
- iv. **Number of Top Soil Dumps:** 1

**8. Details of OB Dump:**

(i) Dumps Details:

Details	Internal Dumps		External Dumps		Remarks
	Nos	Quantity of Waste/ OB stored (M.Cm)	Nos	Quantity of Waste/ OB stored (M.Cm)	Whether external dump is outside mine lease area
Existing	1	107.29 (Pit-1)	1	82.59	No
Proposed	1	225.28 (Pit-2)	0	-	No
Total	2	<b>332.57</b>	1	82.59	

(ii) Specification of each dump:

S. No.	Area (ha)	Height (m)	Quantity (M. Cm)	Type (Internal/External)
1	368.435	120	332.48	Internal
2	195.556	60	82.59	External

**9. Land use details:**

i. Pre-mining land use:

Type	Land use	Within ML Area (Ha)	Total (Ha)
Tenancy	Agricultural	7.650	7.650
	Township	Nil	Nil
	Grazing	Nil	Nil
	Barren	12.330	12.330
	Water Bodies	Nil	Nil
	Road	Nil	Nil
	Community/Other	Nil	Nil
Govt. Non-Forest	Agricultural	Nil	Nil
	SCCL Quarters	51.0763	51.0763
	Grazing	Nil	Nil
	Barren/Other Use	804.8560	804.8560
	Water Bodies	2.692	2.692
	Road & Railways	22.8950	22.8950
Forest	Reserve	213.0077	213.0077

Type	Land use	Within ML Area (Ha)	Total (Ha)
	Protected	Nil	Nil
Free Hold		Nil	Nil
<b>Total</b>		<b>1114.507</b>	<b>1114.507</b>

ii. Post-mining land use:

S. No	Type	Total area (Ha)	Reclaimed area (Ha)	Unreclaimed area (Ha)
1	Excavation/Quarry area			
	(a) Backfilled areas	368.435	368.435	-
	(b) Excavated void	163.135	-	163.135
2	Top soil dump	11.910	11.910	-
3	External dump	195.556	195.556	-
4	Safety zone	158.726	147.242	11.484
5	Diversion below river/nallah/ canal	1.928	-	1.928
6	Settling Pond	7.978	-	7.978
7	Road and infrastructure	80.327	69.5710	10.7560
8	Garland drains	13.266	-	13.266
9	Embankment	1.409	1.409	-
10	Undisturbed Area	111.837		111.837
<b>Total</b>		<b>1114.507</b>	<b>794.123</b>	<b>320.384</b>

**10. Details of transportation:** The coal is proposed to be transported within and outside the mining lease area in the following manner:

- In pit to surface: Coal from in-pit to surface by conveyor belts for a length of 500 m, within the ML area.
- Surface to siding: By series of belt conveyors for a length of 2.70 km, within the ML area.
- Siding to loading: By belt conveyor from siding to pre-weigh bin for a length of 50m and to customers by Rail.
- Quantity to be transported by Rail: 3.75 MTPA

**11. Reclamation:** Afforestation shall be done progressively covering an area of 794.123 ha at the end of mining. This will include:

- Reclaimed external OB dump:** 195.556 ha
- Internal dump:** 306.477 ha (Backfilled area)
- Green belt:** 159.152 ha
- Density of tree plantation (in no of plants):** 2500 per ha
- Void of 163.135 ha, at a depth of 150 m is proposed to be converted into water body.
- Others:** 70.98 ha (69.571 ha Roads & Infrastructure area and 1.409 ha embankment area)
- Agriculture and horticulture:** 61.958 ha

#### 25.1.8: Baseline Data:

<b>Period</b>	<b>December, 2021 to February, 2022 (Winter ) and revalidated by October to December, 2024 (Post monsoon)</b>
<b>Core Zone</b>	
AAQ parameters at 1	Winter (Dec. 2021 to Feb. 2022)



<b>Period</b>	<b>December, 2021 to February, 2022 (Winter ) and revalidated by October to December, 2024 (Post monsoon)</b>
Location (min and max)	$PM_{2.5} = 41.7 \text{ to } 62.8 \mu\text{g}/\text{m}^3$ $PM_{10} = 134.0 \text{ to } 186.0 \mu\text{g}/\text{m}^3$ $SO_2 = 10.4 \text{ to } 11.8 \mu\text{g}/\text{m}^3$ $NO_x = 15.1 \text{ to } 16.8 \mu\text{g}/\text{m}^3$  <u>Post monsoon Oct. 2024 to Dec. 2024</u> $PM_{2.5} = 33.1 \text{ to } 45.2 \mu\text{g}/\text{m}^3$ $PM_{10} = 181 \text{ to } 143 \mu\text{g}/\text{m}^3$ $SO_2 = 11.9 \text{ to } 14.6 \mu\text{g}/\text{m}^3$ $NO_x = 16.4 \text{ to } 22.4 \mu\text{g}/\text{m}^3$
<b>Buffer Zone</b>	
AAQ parameters at 10 Locations (min and max)	<u>Winter (Dec. 2021 to Feb. 2022)</u> $PM_{2.5} = 14.30 \text{ to } 32.20 \mu\text{g}/\text{m}^3$ $PM_{10} = 35.0 \text{ to } 78.0 \mu\text{g}/\text{m}^3$ $SO_2 = 7.2 \text{ to } 9.7 \mu\text{g}/\text{m}^3$ $NO_x = 13.2 \text{ to } 15.3 \mu\text{g}/\text{m}^3$  <u>Post monsoon Oct. 2024 to Dec. 2024</u> $PM_{2.5} = 19.5 \text{ to } 28.6 \mu\text{g}/\text{m}^3$ $PM_{10} = 45 \text{ to } 87 \mu\text{g}/\text{m}^3$ $SO_2 = 8.6 \text{ to } 11.7 \mu\text{g}/\text{m}^3$ $NO_x = 13.8 \text{ to } 16.5 \mu\text{g}/\text{m}^3$
<b>Core Zone</b>	
Incremental GLC Level	$PM_{10} = 23.59 \mu\text{g}/\text{m}^3$ $PM_{2.5} = 8.72 \mu\text{g}/\text{m}^3$ $SO_2 = 0.5 \mu\text{g}/\text{m}^3$ $NO_x = 0.82 \mu\text{g}/\text{m}^3$
<b>Buffer Zone</b>	
Incremental GLC Level	$PM_{10} = 4.55 \text{ to } 15.28 \mu\text{g}/\text{m}^3$ $PM_{2.5} = 0.71 \text{ to } 5.03 \mu\text{g}/\text{m}^3$ $SO_2 = 0.06 \text{ to } 0.38 \mu\text{g}/\text{m}^3$ $NO_x = 0.18 \text{ to } 4.94 \mu\text{g}/\text{m}^3$
Ground water quality at 8 Locations	<u>Winter (Dec. 2021 to Feb. 2022)</u> <ul style="list-style-type: none"> <li>pH values were in the range between 7.0 to 7.6 in the groundwater samples collected within the study area.</li> <li>TDS concentrations were in the range of 350 – 844mg/lit. The TDS concentration was observed to be within the acceptable limit of 500 mg/L in case of GW-2, 7 (436, 350 mg/L) whereas at other locations the values are within the permissible limit of 2000 mg/L</li> <li>Chlorides concentrations are observed to be within the acceptable limit of 250mg/L at all locations except Yellandu GW-1 (295mg/L) where the value is within the permissible limit of 1000mg/L.</li> <li>Fluorides (0.24-0.85 mg/L), Sulphates (21-78 mg/L), concentrations were observed to be within the acceptable limit at all locations</li> </ul> <u>Post monsoon Oct. 2024 to Dec. 2024</u> <ul style="list-style-type: none"> <li>pH values were in the range between 7.3 to 7.9 in the groundwater samples collected within the study area.</li> <li>TDS concentrations ranged from 365 to 747 mg/l. These are within the permissible limit of 2000 mg/l at all locations, except for Motlagudem GW-6 (485mg/l), Rompedu GW-7 (365mg/l), where the TDS concentrations are within the acceptable limit of 500 mg/l.</li> <li>Chlorides concentrations are observed to be within the acceptable limit of 250mg/L at all locations (22 to 112 mg/L)</li> <li>Fluorides (0.32-0.77 mg/L), Sulphates (18-90 mg/L), concentrations were observed</li> </ul>

<b>Period</b>	<b>December, 2021 to February, 2022 (Winter ) and revalidated by October to December, 2024 (Post monsoon)</b>
	<p>to be within the acceptable limit at all locations.</p> <p>The concentrations of heavy metals Cadmium (Cd), Copper (Cu), Lead (Pb), Selenium (Se), Arsenic (As), Chromium (Cr), and Nickel (Ni) are below the detection limits, whereas Manganese (as Mn) is below the acceptable limit.</p>
Surface water Quality at 6 Locations	<p><u>Winter (Dec. 2021 to Feb. 2022)</u></p> <ul style="list-style-type: none"> <li>SW quality was also compared with CPCB water quality criteria, the following were observed:</li> <li>In accordance with CPCB water quality criteria, parameters studied were pH, DO, BOD and total coliforms. The surface water samples have DO values ranging from 6.8 mg/L to 8.1 mg/L values are satisfactory and meeting CPCB water quality criteria.</li> </ul> <p>surface water samples SW1, SW3, SW4, falls under the category of B category and SW2, SW5, SW6 falls under class D category of CPCB criteria.</p> <p><u>Post monsoon Oct. 2024 to Dec. 2024</u></p> <ul style="list-style-type: none"> <li>SW quality was also compared with CPCB water quality criteria, the following were observed:</li> <li>In accordance with CPCB water quality criteria, parameters studied were pH, DO, BOD and total coliforms. The surface water samples have DO values ranging from mg/L 5.4 to 6.4 mg/L values are satisfactory and meeting CPCB water quality criteria.</li> <li>All the surface water samples are falling under the category of B category</li> <li>Presence of Total coliforms and fecal coliforms shows contamination from fecal matter or sewage entry.</li> </ul>
Noise levels Leq (Day and Night)	<p><u>Winter (Dec. 2021 to Feb. 2022)</u></p> <p>In core zone Leq Day maximum value is 68.0 dB(A) and Leq Night maximum value is 53.3 dB(A)</p> <p>In buffer zone maximum value of Leq Day is 49.7 dB(A) and minimum is 45.3 dB(A) and maximum value of Leq Night is 39.6 dB(A) and minimum is 37.0 dB(A).</p> <p><u>Post monsoon Oct. 2024 to Dec. 2024</u></p> <p>In core zone Leq Day maximum value is 61.7 dB(A) and Leq Night maximum value is 56.4 dB(A)</p> <p>In buffer zone maximum value of Leq Day is 49.9 dB(A) and minimum is 44.9 dB(A) and maximum value of Leq Night is 39.6 dB(A) and minimum is 36.7 dB(A)</p>
Traffic assessment studyfindings	<p>The traffic density study has been carried out for JK OC Project at Yellandu to Mahabubabad Road (near JKOC) Junction Road. The study has been done on a Working day and Non working days for 24 hrs.</p> <p><u>Winter (Dec. 2021 to Feb. 2022)</u></p> <p>The peak PCU/hr for total vehicles during the study was 272.15 PCU/hr at 16.00 - 17-00 hrs during working day and 223.25 PCU/hr at 8.00 - 9.00 hrs during non-working day.</p> <p><u>Post monsoon Oct. 2024 to Dec. 2024</u></p> <p>The peak PCU/hr for total vehicles during the study was 292.95 PCU/hr at 09:00-10:00 hrs during working day and 282 PCU/hr at 15:00-16:00 hrs during non-working day.</p>
Flora and fauna	<p><u>Flora</u></p> <p>A total of 332 plant species belonging to 242 genera and 71 families were documented</p> <p>Native species: Aegle marmelos, Boswellia serrata, Bombax ceiba, Buchanania cochinchinensis, Careya arborea, Cordia dichotoma, Chloroxylon swietenia,</p>

<b>Period</b>	<b>December, 2021 to February, 2022 (Winter ) and revalidated by October to December, 2024 (Post monsoon)</b>		
	<p>Cleistanthus collinus, Cochlospermum religiosum, Dalbergia species, Diospyros species, Ficus species, Givotia moluccana, Lagerstroemia parviflora, Grewia species, Madhuca, Miliusa tomentosa, Phyllanthus species, Strychnos species, Tectona grandis, Xylia xylocarpa, Wrightia tinctoria, Ziziphus and Terminalia species</p> <p><u>Fauna</u></p> <p>10 Species of mammals , 12 Herpetofauna, 66 Aves, 34 Insects &amp; butterflies and 10 are fishes</p> <p>As per the Indian Wildlife (Protection) Act, 1972, Amendment 2023, the following eleven faunal species are listed under Schedule-I: Four-horned Antelope, Common Grey Mongoose, Indian Chameleon, Checkered Keelback, Indian Rat Snake, Indian Cobra, Indian Rock Python, Common Indian Monitor, Shikra, Black Kite, and Indian Peafowl</p> <p>A Wild life conservation plan for schedule-I species was prepared and approved by the Principal Chief Conservator of Forests and Chief Wildlife Warden for an amount of Rs.342.05 lakhs.</p> <p>An amount of Rs.342.05 Lakhs has been remitted on 15.09.2022 through RTGS vide UTR No.SBINR 52022091905236839 to, BIOSOT A/c No. 110310100030284, Union Bank of India, Secretariat Branch, Hyderabad.</p>		
<b>Water Requirement</b>	<b>Source of Water</b>	<b>Other (if any)</b>	<b>Pumped out seepage water</b>
	<b>Ground Water Intersection</b>	3.54 m	
	<b>NOCs (Surface Water/Ground Water)</b>	<p><b><u>JK-5 OC Expansion Project:</u></b></p> <p>GWC was obtained vide Memo No.2182/HgII/2018-1, dated 28.02.2023. An application for renewal was submitted on 09.01.2025 and is under process.</p> <p><b><u>21 Incline</u></b></p> <p>GWC was obtained vide Lr. No.2126/Hg.II(1)/07, dated 11-04-2008.</p> <p>As the mine is closed, fresh GWC application will be submitted by the proponent.</p>	
	<b>Water Requirement</b>	The estimated water to be pumped out from the proposed project is about 2400 m <sup>3</sup> /day. After meeting the mine requirement of 1310 m <sup>3</sup> /day and the balance 1090 m <sup>3</sup> /day will be released into nearby streams/tanks after treatment.	Out of total 1310 m <sup>3</sup> /day mine requirement, 1170 m <sup>3</sup> /day is for Dust suppression, 80 m <sup>3</sup> /day for HEMM washing, 20 m <sup>3</sup> /day is for Plantation, 40 m <sup>3</sup> /day is for domestic purpose.

**25.1.9: Details of water requirement:** PP submitted that the estimated water to be pumped out from the proposed project is 2400 KLD. The water requirement for the said project is 1310 KLD. The balance 1090 KLD will be released in the nearby streams and tanks after treatment.

Out of total 1310 KLD mine requirement, 1170 KLD is for Dust suppression, 80 KLD for HEMM washing, 20 KLD is for Plantation, and 40 KLD is for domestic purpose.

PP submitted that GWC was obtained for the proposed JK OC Mine vide Memo No.2182/HgII/2018-2, dated 28.02.2023. An application for renewal of NOC was submitted on 09.01.2025 and is under process.

PP also submitted that, a seasonal nallah is flowing adjacent to the ML boundary (pit – 2). It is proposed to straighten the nallah along the ML boundary and to construct an embankment between the quarry and nallah as per the guidelines of irrigation department.

**25.1.10: Power requirement:** The source of power for the project will be from 33 KV sub-station of TS Transco, Yellandu. This sub-station is having sufficient capacity to meet the power requirement of the project. The power requirement for this project is about 7.5 MVA. Two Transformers of 33 KV / 3.3 KV (1 No. standby) to feed power to various loads. The Sub-station is established near the entry of the quarry. From this Sub-station, 3.3 KV overhead transmission line is laid along the edge of the quarry to feed power to the equipment inside the quarry. The surface loads of workshop, stores etc., are fed by distribution transformers. The system of power supply at all the voltages in the project i.e., 3.3 KV, 550 V and 230 V is by earthing neutral as per statutory regulations.

PP also submitted that, 2 Nos of 3.3 kV HT lines (TS Transco), are passing through the excavation area (Pit-2). It is proposed to divert these power lines along the periphery of the quarry (Pit-2).

**25.1.11: Public Consultation/ Hearing:**

Details of advertisement given	The project covered in two districts i.e., Bhadradri Kothagudem and Khammam District of Telangana State and hence public hearing conducted in both the districts.  <u>Bhadradri Kothagudem District:</u> On 26.03.2023 advertisement given in Eenadu Telugu Daily Newspaper and Hans India English Daily Newspaper.  <u>Khammam District:</u> On 28.03.2023 advertisement given in Sakshi Telugu Daily Newspaper Indian express English Daily Newspaper.
Date of public consultation	Bhadradri Kothagudem District: 26.04.2023 Khammam District: 29.04.2023
Venue	<u>Bhadradri Kothagudem District:</u> In the premises of Runs & Goals Stadium, Old Colony, 24 Area, Yellandu (V&M), Bhadradri Kothagudem District, of Telangana State.  <u>Khammam District:</u> In the premises of Telangana Tribal welfare residential school (Boys) (Usirikayalapalli), Shantinagar village, Singareni Mandal, Khammam district of Telangana State.
Presiding Officer	<u>Bhadradri Kothagudem District:</u> Additional Collector, Bhadradri Kothagudem District, Telangana State.  <u>Khammam District:</u> Additional Collector, Khammam District, Telangana State
Number of Person Attended Hearing	Bhadradri Kothagudem District: 752 Nos  Khammam District: 540 Nos

Number of representation received in writing from the district and outside of district, please give details:	Bhadradi Kothagudem District: 47 (Within district-44, outside of district-3)  Khammam District: 32 (Within district-31, outside of district-1)
Major issues raised	Employment, Education and Training, Infrastructure Development, Water supply- Irrigation & Drinking, Health & Medical, Environmental measures, CSR and DMFT funds and Re-habitation & Re-settlement (R&R).

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

S. No.	Physical activity and action plan	Year of implementation (Budget in Rs. Lakhs)			Total (Expenditure) (in Rs Lakhs)
	Name of the Activity Physical Targets	1 <sup>st</sup>	2 <sup>nd</sup>	3 <sup>rd</sup>	
1.	Skill development trainings programmes for the un-employed youth of surrounding villages in future also as per the requirement of the local youth.	05.00	10.00	05.00	20.00
2.	Infrastructure development	70.00	70.00	70.00	210.00
3.	Water Supply to the surrounding villagers	15.00	15.00	20.00	50.00
4.	Health & Medical facilities	05.00	10.00	05.00	20.0
	<b>Total</b>	<b>95.00</b>	<b>105.00</b>	<b>100.00</b>	<b>300.00</b>

**Activities:**

Bhadradi Kothagudem District						
S. No.	Particulars	Location	1 <sup>st</sup> Year	2 <sup>nd</sup> Year	3 <sup>rd</sup> Year	Total (In Rs. Lakhs)
1	To arrange skill development training programmes for the un-employed youth for self-sustainability.	Vijaya laxmi nagar, Posapalli village, Videsinagar, Bupeshnagar, Tilaknagar	5	5	5	15
2	Renovation/new school building	Vijayalakshmi Nagar & Poosapalli village and arrange school furniture at 21 Area.	20	0	0	20
3	Repair of 6.5 km length of road, Side drains, Solar lights, Sulabh toilets.	Pakal and Gundala Road	10	0	0	10
4	Laying of CC roads	Alya thanda village, Vijayalaxminagar	10	10	0	20
5	Construction of drains	Vijaya laxmi nagar village, Posapalli village	4.5	4.5	0	9
6	Solar street lighting	Poosapalli village, Videsinagar, Balajinagar, Bupeshnagar	8	8	8	24

Bhadradri Kothagudem District						
S. No.	Particulars	Location	1 <sup>st</sup> Year	2 <sup>nd</sup> Year	3 <sup>rd</sup> Year	Total (In Rs. Lakhs)
7	Construction of Gym	Vijayalakshmi Nagar, Tilak Nagar,Poosapalli	10	0	0	10
8	De-silting of tanks	Pedda Cheruvu , Polampalli tanks for the benefit of surrounding farmers.	10	0	0	10
9		Jendalavagu	10	0	0	10
10	Construction of community hall	Vijayalakshmi Nagar ,Poosapalli Village	10	0	0	10
11	Construction of Anganwadi centre	Rompedu village	10	0	0	10
12	Providing RO Plants	21& 24 area, Poosapalli, Tilak nagar	12.5	12.5	0	25
13	Overhead tank	R&R colony	10	0	0	10
14	Drinking pipe line	Vijayalaxminagar	5	0	0	5
15	Drinking water pipe line	R&R colony, Rompaid, Strut pit, Videsinagar, Poosapaplli, Tilak nagar, 21 & 24 Areas.	5	0	0	5
16	Medical camps	Poosapalli , Tilaknagar, R&R Colony,Vijayalakshmi Nagar	5	5	5	15
17	Development of parks	Poosapalli village ,Vijayalaxmi Nagar	15	0	0	15
18	Construction of Rain Water Harvesting Structures	Strut pit basthi, 21 Area, 24 area, bhupeshnagar, romped village, 18 <sup>th</sup> ward, 19 <sup>th</sup> ward, 20 <sup>th</sup> ward, 21 <sup>st</sup> ward and 22 <sup>nd</sup> ward	10	5	0	15
<b>Total</b>			<b>170</b>	<b>50</b>	<b>18</b>	<b>238</b>

Khammam District						
S. No.	Particulars	Location	1 <sup>st</sup> Year	2 <sup>nd</sup> Year	3 <sup>rd</sup> Year	Total (In Rs. Lakhs)
1	To arrange skill development training programmes for the un- employed youth for self-sustainability.	Usirikayalapalli, Guttakinda gumpu Kommugudem,	2	2	1	5
2	Solar street lighting	Guttakinda gumpu village, Kommugudem	4	4	4	12

Khammam District						
S. No.	Particulars	Location	1 <sup>st</sup> Year	2 <sup>nd</sup> Year	3 <sup>rd</sup> Year	Total (In Rs. Lakhs)
3	Construction of bus shelter	Near Solar plant gate	10	0	0	10
4	Bore well	Usirikayalapalli village	5	0	0	5
5	Medical camps	Usirikayalapalli village, Guttakinda gumpu Kommugudem	2	2	1	5
6	De-silting of tanks	Usirikayalapalli Tank, Seetarampuram tank for the benefit of surrounding farmers.	10	0	0	10
7	Construction of check dams	Guttakinda Gumpu Village, Motla gudem village	10	0	0	10
8	Construction of Rain Water Harvesting Structures	Guttakinda Gumpu Village.	5	0	0	5
<b>Total</b>			<b>48</b>	<b>8</b>	<b>6</b>	<b>62</b>

**25.1.12: EMP Cost:** The capital cost of the proposed project is Rs.29788 Lakhs and the capital cost for environmental protection measures is proposed as Rs.1833 Lakhs. The annual recurring cost towards the environmental protection measures is proposed as Rs 100 Lakhs. The employment generation from the proposed project is 657 (SCCL: 122 & Contractual: 535). The details of cost for environmental protection measures is as follows:

S. No.	Description of Item	Proposed (in Rs. Lakhs)	
		Capital Cost	Recurring Cost Per Annum
1	Air Pollution & Noise Control Measures	620	25
2	Water Pollution Control Measures	445	20
3	Environmental Monitoring and Management	340	30
4	Green Belt Development/ Plantation, Engineering structures & Bio reclamation works	228	25
5	Others	200	0
<b>Total</b>		<b>1833.00</b>	<b>100.00</b>

Activity-wise proposed EMP cost is as follows:

S. No.	Description of Item	Capital Cost in Rs. Lakhs	Timeline for installation	Recurring Cost Per Annum in Rs. Lakhs
<b>A</b>	<b>Air Pollution &amp; Noise Control Measures</b>			
1	Mobile water sprinklers (4 nos.)	150	2 no.s – Before commencement and	8

S. No.	Description of Item	Capital Cost in Rs. Lakhs	Timeline for installation	Recurring Cost Per Annum in Rs. Lakhs
			2 no.s – within 1 year of commencement of the project.	
2	Fixed water sprinklers (1000 units)	100	Within 5 years (200 units per year as the quarry progresses).	5
3	Fog cannons (10 nos.)	200	5 no.s – Before commencement and 5 no.s – within 1 year of commencement of the project.	2
4	Mechanical Sweeping M/c (01 no.)	50	Before commencement of the Project.	2
6	CAAQMS (2 nos.)	120	Before commencement of the Project.	8
<b>Sub total</b>		<b>620</b>		<b>25</b>
<b>B</b>	<b>Water Pollution Control Measures</b>			
1	ETP at CHP (01 no.)	40	Before commencement of the Project	5
2	ETP at Base workshop (01 no.)	40	Before commencement of the Project	3
3	STP (01 no.)	60	Within 1 year from commencement of the Project	2
4	Settling tanks (05 nos.)	75	Within 2 years from commencement of the Project	3
5	Rock toe wall (5 km) and rock fill dams (10 nos.)	150	5 years as the mine progresses.	4
6	1 Cu.m. Excavator (01 no.)	80	Before commencement of the Project	3
<b>Sub total</b>		<b>445.00</b>		<b>20</b>
<b>C</b>	<b>Environmental Monitoring and Management</b>			
1	BLD and LULC studies	45	BLD completed. LULC studies will be carried out once in 3 years.	0
2	Construction of RWHS (60 no.s)	150	Within 2 years after commencement of the Project.	8
3	Construction of Piezometric wells (02 nos.)	45	Within 1 year after commencement of the Project.	5
5	Dozer 320/410 HP (01 no.)	100	Before commencement of the Project.	2
6	Post project environmental monitoring	0	Throughout the life of the mine.	15
<b>Sub total</b>		<b>340.00</b>		<b>30</b>
<b>D</b>	Green Belt Development / Plantation Engineering structures & Bio reclamation works	228	Throughout the life of the mine	25
<b>E</b>	Other	200		0
<b>Grant Total (A+B+C+D+E)</b>		<b>1833.00</b>		<b>100.00</b>

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



S. No.	Type of Waste	Source	Quantity (TPA)	Mode of Treatment	Disposal	Remarks
1	Overburden	Excavation	90000000	Nil	Dumping in External and Internal dump yards	Solid Waste
2	Used oil	HEMM	50	To authorized recyclers	To authorized recyclers	Hazardous Waste
3	ETP sludge	Washing of HEMM	15	To authorized recyclers	To authorized recyclers	Hazardous Waste

**25.1.14: Plantation:** Existing Green Belt has been developed in 110.22 ha which is about 9.8 % of the total ML area with about 2.75 Lakh saplings. Proposed green belt will be developed in 48.932 Ha with about 1.22 Lakh saplings. Thus, total of 159.152 Ha (About 14.28 % of total ML area 1114.507 ha) will be developed as green belt.

A 7.5 m wide greenbelt, consisting of 3 tier plantation 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 19.85 Lakh saplings will be planted and nurtured in 794.123 ha (Total Plantation) in 19 years. A time bound action plan along with the financial outlay, as submitted by the PP is as follows:

Plantation Schedule and Budget			
Year	Plantation in ha	Cumulative Plantation in ha	Budget (in Rs. Cr)
Up to 2024-25	230.15	230.15	3.57
1st Year	38	268.15	1.52
3rd Year	64.02	332.17	3.27
5th Year	144.533	476.703	8.96
10th Year	109.639	586.342	8.00
14th Year	140.34	726.682	11.79
Post Closure	67.441	794.123	6.41
Cumulative budget towards plantation			43.52
Note: Earlier the expenditure towards pre planting activities like levelling, top soil spreading, site preparation, fencing etc., were not included which are part of plantation. These activities have been now included to make revised statement.			

**25.1.15: Project Cost:** The capital cost for the project is Rs. 29788 Lakhs and the capital cost for environmental protection measures is proposed as Rs.1833 Lakhs. The annual recurring cost towards the environmental protection measures is proposed as Rs. 100 Lakhs.

**25.1.16: Rehabilitation & Resettlement issues:** PP submitted the R&R details as follows:

JK-5 OC (2.5 MTPA):

R&R was involved in JK-5 OC project in which R&R was provided to 1429 PDFs with an amount of Rs.65.38 Crores in the year 2012&13 in accordance with G.O.Ms.No.97 dated:29.08.2008.

The project involves evacuation of illegally encroached residents. However, the final decision remains with the district authorities for the same and PP has agreed to comply with the same.

JK 5 OC Expansion Project (3.5 MTPA):

There is no R&R involved in the existing JK-5 OC Expansion project.

21 Incline:

No R&R involved in this project.

**25.1.17: 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.

**25.1.18: Undertaking/ Affidavit:** PP submitted an Undertaking, through which it certified that the information provided in CAF, Form-A,B&C in PARIVESH, and in pdf format to the Ministry/EAC members and PPT presentation during the EAC meeting to be held on 9<sup>th</sup> May 2025 have no deviation in respect of the proposal no IA/TG/CMIN/501551/2024 for EC for coal mining having 1114.507 ha of ML area and capacity of 2.50 MTPA (Peak- 3.75 MTPA) for Jawahar Khani Opencast Mine [Amalgamation of JK-5 OC and 21 Incline (Conversion to OC)] located at Sudimalla & Rompaid Villages of Yellandu Mandal of Bhadrachalam District and Usirikayalapalle Village of Singareni Mandal of Khammam District of Telangana State of M/s. The Singareni Collieries Company Limited.

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.

Further, PP submitted an Affidavit, through which it submitted that there is no construction/mining done at the site for the proposed expansion project or the construction done without any deviation in the existing projects as per previous ECs vide EC Identification EC22A042TG126745 and F.No. 23-257/2018-IA (III), dated 9th June, 2022 and No. 11015/930/2007-IA.II(M), dated 27th October, 2008. There are no litigations on the projects and no cases at NGT or any other court of law pertaining to environment aspects. The land has been acquired as per the approved Mining Plan in accordance with State Govt., guidelines and there is no R&R involved. There is no difference in the documents submitted to MoEF&CC and presentation being made to the EAC. The proposal is for seeking Environmental Clearance (EC) to the "Jawahar Khani Opencast Mine [Amalgamation of JK-5 OC and 21 Incline (Conversion to OC)]" of SCCL, with a production capacity of 2.50 MTPA (Peak- 3.75 MTPA) in the ML area of 1114.507 ha of M/s Singareni Collieries Company Limited. That all the statements made above are true and correct. Sworn and signed on this date 28.04.2025 at Kothagudem.

**25.1.19: Response submitted by the PP for the observations of the EAC, on the basis of what the proposal was previously returned in present form:** The proposal for the instant project was earlier appraised in 22<sup>nd</sup> EAC Meeting held on 17-18<sup>th</sup> March, 2025 and the same was returned in the present form, along with the following observations. PP submitted the response to the same vide a fresh application dated 19.04.2025 on the Parivesh Portal.

S. No.	EAC Observation	Response of PP						
1.	Requirement of surface rights for the entire forest land involved in the project	It is to submit that the total land required for JK OCP is 1114.507 Ha of which, an extent of 213.0077 Ha (124.96 Ha + 42.50 Ha + 45.5477 Ha fresh) is forest land. The details of total forest land and proposed for diversion along with MoEF&CC, GoI sanction order is furnished for kind reference:						
		S. No.	Name of the diversion	(UG/ Surface)	MoEF Ref. no. dt. & Period of Division	Total FL diverted (in Ha)	FL Proposed for diversion with surface rights	Balance FL continued with UG rights (Ha.)
		1.	3rd Renewal of Yellandu Mining Lease	UG	8-26/1985-FC, dt.20.7.2018 & 20 years from 01.01.2015	124.96	106.304	18.656
		2.	1st Renewal of Yellandu Addl. Mining Lease	UG	8-54/1991-FC (pt), dt.25.07.2008 valid for 20 years	42.50	---	42.50
		3.	FL identified outside diverted land				45.5477	0
			Total			167.46	151.8517	61.156
		It is to bring to your kind information that the MoEF&CC, GoI has examined the application and raised EDS on 18.01.2023 regarding 61.156 ha proposed to be continued with UG rights as follows: “The State Govt. is requested to submit the detailed mining plan of the area 124.96 ha and the plan of State govt. wrt to the balance forest land continued with UG rights i.e. 61.156 ha which is also referred as undisturbed area by State.” (Copy submitted)  Accordingly, vide letter dated 14.07.2023, the State Government has submitted its reply to the MoEF&CC, GoI, based on the reply submitted by the Prl. Chief Conservator of Forests, Telangana vide his letter dated 03.07.2023 as follows: “These two areas i.e., 124.96 Ha and undisturbed area of 61.156 Ha of Forest Land are covered in aforesaid Approved Mining Plan. The area of 61.156 ha FL i.e (18.656 ha + 42.50 ha) was extensively worked in UG method. The reserve of coal is not considered for opencast due to uneconomic stripping ratio. Hence, this area has been mentioned as undisturbed. This area is included in the ML area so as to go for expansion in case it becomes viable in future.” (Copy submitted) Further, this was discussed in the Forest Advisory Committee (FAC) meeting held on 23.09.2024 at Agenda No.12, and the Committee has discussed in detail regarding diversion of the proposal and also regarding 61.156 ha which is proposed to be continued with UG rights as per the approved Mining Plan. The Advisory Committee discussed in detail with the Integrated Regional Officer and Nodal Officer (FC) Telangana recommended and Granted Stage-I for diversion of 151.8517 ha for JK OCP. In the discussions the Committee has made the following Noting regarding 61.156 ha (Minutes submitted)						

S. No.	EAC Observation	Response of PP
		<p>“The Committee noted that the proposal is for converting underground mining to open cast and the proposed area is falling in two mining leases namely Yellandu Mining Lease and Yellandu Additional Mining lease. The area of 106.304 ha is the part of 124.96 ha which was already approved for diversion for underground mining in the year 2018. The remaining area i.e. 18.656 of 124.96 ha has been kept for underground mining as per PCCF letter dt 26.04.2022. Further, a new area 45.5477 ha is added to 106.304 ha which accounts to 151.8517 ha. (106.304 +45.5477) in total. The Committee further noted that an area of 61.156 ha will be kept undisturbed and continued with UG rights. In this regard the State Govt. informed that the area of 61.156 Ha is FL diverted with UG rights and no mining activity is proposed in this area, hence kept as undisturbed. This area is covered in the Approved Mining Plan. There is no mining plan separately to this extent.”</p> <p>In this regard, it is submitted that the extent of 61.156 Ha was retained with UG rights as per the approved Mining Plan. The matter was also brought to the notice of the MoEF&amp;CC, GoI, and the Hon’ble Forest Advisory Committee before the grant of Stage-I clearance for JKOC Project. It was however informed by the SCCL that in case there is need to obtain surface rights for this area in future due to any compelling or unavoidable conditions at later date, necessary approval will be obtained from the Competent Authority. An undertaking by the project proponent has been submitted.</p>
4.	Depth of final mine void:	It is to submit that the final mine void was planned to be left as water body at a depth of 190 m in an area of 163.135 Ha. However, as advised by the EAC, the void specifications have been re-worked and proposed to reduce the final void depth up to 150m from surface. An undertaking by the project proponent has been submitted.
5.	Collection of fresh baseline data for one season non-monsoon data and based on this proponent is required to update the forms and EIA/EMP report etc.:	It is to submit that fresh baseline data collected during October-December' 2024 has been incorporated as suggested by the EAC in Form-1, EIA/EMP report etc., and a fresh application in Form-1 (Part-C) along with required documents is being submitted herewith for grant of Environmental Clearance to the project.

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

**1. Time bound action plan for plantation along with the financial outlay:**

The stage-wise, cumulative plantation along with budget provision is furnished hereunder:

Plantation Schedule and Budget			
Year	Plantation in ha	Cumulative Plantation in ha	Budget (in Rs. Cr)
Up to 2024-25	230.15	230.15	3.57
1st Year	38	268.15	1.52
3rd Year	64.02	332.17	3.27
5th Year	144.533	476.703	8.96
10th Year	109.639	586.342	8.00
14th Year	140.34	726.682	11.79
Post Closure	67.441	794.123	6.41
Cumulative budget towards plantation			43.52

Note: Earlier the expenditure towards pre planting activities like levelling, top soil spreading, site preparation, fencing etc., were not included which are part of plantation. These activities have been now included to make revised statement.

## 2. EMP measures to be bifurcated and timelines for installation of the equipment proposed.

The details of EMP measures along with cost and timelines for installation of equipment is furnished hereunder:

S. No.	Description of Item	Capital Cost in Rs.Lakhs	Timeline for installation	Recurring Cost Per Annum in Rs. Lakhs
<b>A</b>	<b>Air Pollution &amp; Noise Control Measures</b>			
1	Mobile water sprinklers (4 nos.)	150	2 no.s – Before commencement and 2 no.s – within 1 year of commencement of the project.	8
2	Fixed water sprinklers (1000 units)	100	Within 5 years (200 units per year as the quarry progresses).	5
3	Fog cannons (10 nos.)	200	5 no.s – Before commencement and 5 no.s – within 1 year of commencement of the project.	2
4	Mechanical Sweeping M/c (01 no.)	50	Before commencement of the Project.	2
6	CAAQMS (2 nos.)	120	Before commencement of the Project.	8
<b>Sub total</b>		<b>620</b>		<b>25</b>
<b>B</b>	<b>Water Pollution Control Measures</b>			
1	ETP at CHP (01 no.)	40	Before commencement of the Project	5
2	ETP at Base workshop (01 no.)	40	Before commencement of the Project	3
3	STP (01 no.)	60	Within 1 year from commencement of the Project	2
4	Settling tanks (05 nos.)	75	Within 2 years from commencement of the Project	3
5	Rock toe wall (5 km) and rock fill dams (10 nos.)	150	5 years as the mine progresses.	4
6	1 Cu.m. Excavator (01 no.)	80	Before commencement of the Project	3
<b>Sub total</b>		<b>445.00</b>		<b>20</b>
<b>C</b>	<b>Environmental Monitoring and Management</b>			
1	BLD and LULC studies	45	BLD completed. LULC studies will be carried out once in 3 years.	0
2	Construction of RWHS (60 no.s)	150	Within 2 years after commencement of the Project.	8
3	Construction of Piezometric wells (02 nos.)	45	Within 1 year after commencement of the Project.	5
5	Dozer 320/410 HP (01 no.)	100	Before commencement of the Project.	2

S. No.	Description of Item	Capital Cost in Rs.Lakhs	Timeline for installation	Recurring Cost Per Annum in Rs. Lakhs
6	Post project environmental monitoring	0	Throughout the life of the mine.	15
<b>Sub total</b>		<b>340.00</b>		<b>30</b>
<b>D</b>	Green Belt Development / Plantation Engineering structures & Bio reclamation works	228	Throughout the life of the mine	25
<b>E</b>	Other	200		0
<b>Grant Total (A+B+C+D+E)</b>		<b>1833.00</b>		<b>100.00</b>

### 3. CAAQMS

It is proposed to install 1 no. CAAQMS in core zone and 1 no. in buffer zone.

### 4. Mining Plan details

The proposed JK OC is an amalgamation of JK-5 OC and 21 Incline. The details of Mining Plan approvals are as follows:

#### JK 5 OC:

Mining Plan & Mine Closure Plan was approved vide Lr.No.38011/12/2017-PCA, dt.12.09.2019 by Ministry of Coal. (Mine Closed).

#### 21 Incline:

Mining Plan was approved vide Lr.No.13016 (3)/88-CA, dt.22.07.1988 by Ministry of Energy, Department of Coal. (Mine Closed).

#### Proposed JK OC:

Mining Plan (Including Mine Closure Plan) was approved by MoC vide Lr. N.34011/1/2020-CPAM, dated 29.10.2020.

**Note:** It is to submit that till now, the existing JK-5 OC was operated based on the MP&FMCP approved in the year 2019. Now, the proposed JK OC Mine will be operated as per the MP&MCP approved in the year 2020.

### 5. Gainful utilization of water body

The proposed mine will result in a final mine void of around 163.135 ha at a depth of around 150m. The life of the mine is 14 years and after completion of post closure activities (5 years), the void will be left as water body which acts as a ground water recharge area.

Additionally, this water can be utilised for cultivation of the surrounding area.

Further, development of pisciculture with self-help groups and installation of Pumped Storage Plant will be explored based on the experience and learnings from the proposed Pumped Storage Plant at Medapalli opencast.

### 6. Difference between percentage of green belt in application and Annexure-III

In application form, existing and proposed green belt percentage shown against the total green belt area to be developed in the project.

The existing Green Belt of 110.22 ha is 69% of the total green belt area of 159.152 ha. Similarly, proposed green belt is 48.932 ha which is 31% of the total green belt area of 159.152 ha.

However, in the Annexure-III (Brief write-up), the existing green belt of 110.22 ha is compared with JK-5 OC project area of 490 ha and hence the percentage was mentioned as 22.48. However, now it is compared with the total project area of 1114.507 ha, thereby the existing percentage became 9.88%. Further, the proposed green belt percentage will be 4.39% (48.932 / 1114.507). Thus, the total green belt will be 14.28% of the total project area of 1114.507 ha.

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

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

1. The instant proposal of Jawahar Khani Opencast Coal Mine (GK OCM) is for amalgamation of Jawahar Khani-5 Opencast Expansion Project (closed in year 2024-25) and 21 Incline mine (closed) (proposed for conversion from UG to OC). In the proposed amalgamation the balance coal reserves (23 MT) from the 21 Incline Mine will be extracted by open cast method after conversion of mine from UG to OC and the voids of JK-5 OC will be filled by the overburden of 21 Incline Mine.
2. The proposal for the instant project of Jawahar Khani Opencast Mine was earlier submitted vide proposal no. IA/TG/CMIN/501551/2024 dated 27.11.2024 in prescribed format and the same was apprised in the 22<sup>nd</sup> EAC meeting of Coal, held on 17 – 18<sup>th</sup> March 2025, wherein the proposal was returned in present form due to certain shortcomings. PP submitted the fresh application for the same, along with the response to the observations of the EAC, vide proposal no. IA/TG/CMIN/533047/2025 dated 19.04.2025.
3. M/s SCCL initially obtained EC for Jawahar Khani- 5 Opencast Project, vide EC letter dated 18.05.2009 for the production capacity of 2 MTPA, in the ML area of 514.95 Ha. Further, PP obtained another EC for expansion in the same ML area for the increased production of 2.50 MTPA. However, the PP exceeded the production capacity from 2016-2020 and Ministry accorded another EC for the said mine under violation category as per S.O. 804 (E), for the production capacity of 3.50 MTPA in the reduced area of 490.14 Ha. Similarly, M/s SCCL obtained EC for 21 Incline Underground Coal Mine, vide letter dated 27.10.2008 and closed the production from the mine during the year 2019-20.
4. As per the EC dated 09.06.2022, issued for Jawahar Khani- 5 Opencast Project, under violation category, Ministry stipulated a condition for implementation of Remediation Plan & Natural and Community Resource Augmentation Plan. Committee observed that the PP implemented the same, got it certified by the concerned RO and got the bank guarantee released for the same after seeking amendment in the EC of Jawahar Khani- 5 Opencast Project, vide EC amendment letter dated 21.02.2025, after the recommendation of EAC.
5. Committee observed that the instant proposal also involves increase in land area from 1012.69 ha to 1114.507 ha. 1114.507 ha involves 524.96 ha (Non-forest land: 400; Forest land: 170.5077 ha) land of 21 Incline, 487.73 ha (non-forestland) of JK 5 Expansion

Project and apart from this, additional 101.817 ha (Non – forestland: 59.317 ha; forestland: 42.50 ha).

6. Committee also observed that the project proponent has total 2236.96 ha of land in possession. 524.96 ha land has been obtained vide G.O.MS. No. 5, as Yellandu Mining Lease on 06.02.2015. In the instant proposal, the entire 524.96 ha land will be used. Remaining 1712 ha has been obtained by the PP vide G.O. Rt. No. 57 as Yellandu Additional Mining Lease on 02.11.2024. Out of this only 589.547 ha will be used for the instant project. Out of remaining 1122.543 ha, 417.854 ha, which is covered under CA land will be surrendered. 651 ha land is covered under township and villages and remaining 53.60 ha land is proposed to be used for future coal extraction. Committee opined that, the 417.854 ha of land covered under compensatory afforestation land shall be surrendered at the earliest and remaining 53.60 ha land, which is proposed to be used for future exploration of coal reserves shall be properly demarcated and not be used for the mining purpose till a fresh mining plan, EC and other applicable statutory permissions are obtained for the same.
7. Committee deliberated on the 213.0077 ha of forest land involved in the said project and observed that PP has accorded Stage – II FC for underground rights on 61.1558 ha of forest land and Stage – I FC for surface rights on 151.8519 ha of forestland. The PP informed that, the forestland for which Stage- II FC has been accorded for underground rights will remain undisturbed throughout the life of the mine for the instant project. The Member Secretary apprised the EAC that as per the suggestions of the Committee in the previous meeting, comments in this regard were sought from the FC Division of Ministry and the FC division gave the following clarification in this regard:  
  
*“fresh FC for 61.156 Ha is not required since, as per the proposal, the area will kept undisturbed and that no mining activity is proposed in the said area. Furthermore, as per the proposal, the said area has already received approval for UG rights as per table above. The UA has also given an undertaking to this effect.”*  
  
Committee observed the letter of PCCF, Govt. of Telangana, obtained by the PP on 24.04.2025, wherein, it is mentioned that the underground rights shall continue for the 61.1558 ha of forestland, which will not be disturbed during the opencast mining operations in the instant project.
8. Committee opined that on the 61.156 ha of forestland, which is part of the mine lease area of the instant project and is not proposed to be disturbed, PP should erect the closely spaced pillars to clearly demarcate the undiverted forest land in the lease area. PP should also construct fireline along undiverted forest land boundary in consultation with State Forest Department. All officers, supervisors, overman, mate, workers, operators, persons employed in the mine should be made aware about the undiverted forest land and its boundaries so that there is no disturbance of the same. Committee also opined that on all the surface plans, production plans used in the project the diverted and undiverted forest areas should be clearly marked in different colours.
9. The PP obtained ToR for the said project vide F.No. IA 23-257/2018-IA(III), dated 13.12.2022 and the said is valid till 12.12.2026.



10. The EAC took into consideration the project site through KML file on the Google Earth presented by the project proponent along with DSS of the project site on PARIVESH.
11. Project does not fall in the Critically Polluted Area (CPA)/ severely polluted Area (SPA), as per CEPI Assessment 2018.
12. The project is not located within 10 KM of any ESZ/ESA/national Park/Wildlife sanctuary/biosphere reserve/tiger reserve/elephant reserve/Tigre corridor/elephant corridor etc.
13. A Wild life conservation plan for 11 schedule-I species has been prepared and approved by the Principal Chief Conservator of Forests and Chief Wildlife Warden for an amount of Rs.342.05 lakhs. An amount of Rs.342.05 Lakhs has been remitted on 15.09.2022 through RTGS vide UTR No. SBINR 52022091905236839 to, BIOSOT A/c No. 110310100030284, Union Bank of India, Secretariat Branch, Hyderabad.

Committee opined that PP shall also prepare and implement a conservation plan for the Schedule – I species of flora, present in the study area and the compliance of same shall be submitted to the Ministry's RO within 1 year from the date of grant of EC, along with the six-monthly compliance report.

14. Mining Plan (Including Mine Closure Plan) was approved by MoC vide Lr. N.34011/1/2020-CPAM, dated 29.10.2020 for the Project Area of 1114.507 Ha of the production capacity 2.50 MTPA (rated)/ 3.75 MTPA (peak). Committee observed that, as per the suggestions of the EAC in the 22<sup>nd</sup> EAC meeting, held on 17 – 18th March 2025, the PP has reduce the depth of the void from 190 m to 150 m and according the height of OB dump will be managed. Committee opined that the PP shall accordingly modify the mine plan and the progressive mine closure plan and get it approved by the competent authority within 6 months from the date of grant of EC.
15. Total geological reserve reported in the mine lease area is 99.12 MT with 74.68 MT mineable reserves. Out of total mineable reserves of 74.68 MT, 68.57 MT are extractable reserves. Percent of extraction is 91.81%. Till 31.03.2024 about 45.57 MT of coal reserves were already extracted and the balance reserves available for extraction area 23 MT as on 01.04.2024.
16. Life of mine is 14 years (as on 01.04.2024).
17. Committee deliberated on the OB dumps proposed for the said project and observed that, there is one existing internal dump and external dump and further one more internal dump is proposed for the said project. Committee opined that no dumping shall be done outside the ML area.
18. Committee deliberated on the transportation of coal proposed for the said project and observed that, the coal from in-pit to surface and further to siding will be transported through series of conveyor and thereafter the entire coal will be transported by railway to the final consumers. Committee opined that adequate safeguards and mitigation measures shall be undertaken during the transportation of coal. Adequate nos of fixed water sprinklers shall be installed alongside the route of conveyor and plantation with native shall be developed on both the sides of the conveyor belt. Committee also opined, that no road transportation of the coal shall be allowed in the instant project.

19. Committee deliberated on the baseline data submitted by the PP. The baseline data was collected during December 2021 to February 2022 (Winter Season) and as per the observation of the 22<sup>nd</sup> EAC meeting held on 17 – 18<sup>th</sup> March 2025, PP submitted additional one season baseline data of October - December 2024 (post monsoon). Committee observed that the particulate matter 10 & 2.5 of the ambient air quality is on the higher side on the prescribed NAAQS. Committee opined that the proponent shall install adequate nos of air pollution mitigation equipment's within and around the ML area. Effective and well-designed dust suppression arrangements at all dust suppression sources and transportation route shall be provided. Proponent shall also install atleast 2 nos of CAAQMS for the instant proposal, 1 in the core zone and 1 in the buffer zone of the said mine and the same shall be connected to the server of SPCB.
20. Committee also observed that the nickel is present in high amount in the air quality of the core zone. The Committee opined that the PP shall carryout regular monitoring nickel as well along with the other AAQ parameters.
21. Committee also observed the noise quality parameters on the higher side and opined that PP shall take adequate measures to control the same. Committee opined that PP shall develop 3 – tier plantation along the periphery of the mine, on both the sides of the coal conveyor, along the periphery of the schools present in the close vicinity of the ML area, on both the sides of the roads on which schools are located and along the village roads. Committee also observed that noise levels are also on the higher side of the permissible limits. Therefore, the PP shall cover all the DG sets and noise generating equipments with the well-designed acoustic enclosures with minimum insertion loss of 20 dB(A).
22. Committee observed that the water requirement for the said project is 1310 KLD (out of total 1310 KLD mine requirement, 1170 KLD is for Dust suppression, 80 KLD for HEMM washing, 20 KLD is for Plantation, and 40 KLD is for domestic purpose) and source of water will be mine seepage water. However water to be pumped out from the said mines is estimated to be 2400 KLD. The balance 1090 KLD will be released in the nearby streams and tanks after treatment. PP has accorded permission for water withdrawal for JK-5 OC Expansion Project vide Memo No.2182/HgII/2018-1, dated 28.02.2023 and for 21 Incline vide Lr. No.2126/Hg.II(1)/07, dated 11-04-2008. However, groundwater withdrawal permission for the amalgamated mine is yet to be obtained. Committee opined that mine operations shall be started only after obtaining a valid groundwater clearance for the same.
23. Committee opined, that as the PP is proposing a water body of 163.135 ha, post closure, PP shall explore the possibility of developing the pisciculture and installation of pumped storage plants, which shall be of help to the villagers in cultivation and livelihood activities.
24. Committee also observed that the project involves diversion of a seasonal nallah flowing adjacent to the project boundary. The same is proposed to be straightened along the project boundary and to construct an embankment between the quarry and nallah. NOC has been obtained from Irrigation Department (I&CADD), Telangana and work will be taken up as per the guidelines of I&CADD. Committee opined that PP shall conduct the aquatic health study for the seasonal nallah proposed to be diverted. Committee observed that the Bugga stream which flows from the ML area of JK OC is not proposed for diversion and the same shall be accordingly protected.

25. Apart from this, 2 nos of 3.3 kV HT lines (TS Transco), which are passing through the excavation area are also proposed to be diverted.
26. Committee further deliberated on the Public Consultation held on 26.04.2023 and 29.04.2023 for Bhadravadi Kothagudem District and Khammam District respectively. The major issues raised during the public hearing were related to Employment, Education and Training, Infrastructure Development, Water supply- Irrigation & Drinking, Health & Medical, Environmental measures, CSR and DMFT funds and Re-habitation & Re-settlement (R&R). The budget for the issues raised in PH has been allocated as Rs. 300 lakhs. Committee also observed that the PP has also introduced the measures to strengthen the Public Health Centers and Community Health Centers in the study area as per the suggestions of the 22<sup>nd</sup> EAC meeting. Committee opined that the same shall be implemented in a time bound manner.
27. The project cost for the said project is Rs. Rs.29788 Lakhs and the capital cost for environmental protection measures is proposed as Rs.1833 Lakhs. The annual recurring cost towards the environmental protection measures is proposed as Rs. 100 Lakhs. Committee opined that all the EMP measures proposed by the PP shall be implemented in a time bound manner and the cost allocated for the same shall be effectively utilized. Committee also suggested that all the equipments to be procured or already have been procured for environment protection shall be in good condition working condition and regular maintenance for the same shall be carried out.
28. Committee further deliberated on the plantation already developed by the PP and further proposed to be planted. Existing Green Belt has been developed in 110.22 ha which is about 9.8 % of the total project area with about 2.75 Lakh saplings. Proposed green belt will be developed in 48.932 Ha with about 1.22 Lakh saplings. Thus total of 159.152 Ha (About 14.28 % of total project area 1114.507 ha) will be developed as green belt. PP also submitted that a 7.5 m wide greenbelt, consisting of 3 tier plantation 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 19.85 Lakh saplings will be planted and nurtured in 794.123 ha (Total Plantation) in 19 years. The details of plantation plan is as follows:

Plantation Schedule and Budget			
Year	Plantation in ha	Cumulative Plantation in ha	Budget (in Rs. Cr)
Up to 2024-25	230.15	230.15	3.57
1st Year	38	268.15	1.52
3rd Year	64.02	332.17	3.27
5th Year	144.533	476.703	8.96
10th Year	109.639	586.342	8.00
14th Year	140.34	726.682	11.79
Post Closure	67.441	794.123	6.41
<b>Cumulative budget towards plantation</b>			<b>43.52</b>
Note: Earlier the expenditure towards pre planting activities like levelling, top soil spreading, site preparation, fencing etc., were not included which are part of plantation. These activities have been now included to make revised statement.			

Committee opined that along with the plantation already done and further proposed, PP shall also develop plantation on both the side of the conveyor belt, mine facilities and

the schools in the close vicinity of the ML area. The entire plantation shall be done with the native species.

29. Committee deliberated on the rehabilitation and resettlement issues for the proposed project and observed that the JK-5 OC project involved R&R of 1429 PDFs and the same has been completed. The expansion project does not involve any R&R. However, there is huge illegal encroachment and same shall be evacuated, as per final decision of the district authorities and state the government norms.
30. There is no legal issue/ violation pending on the project.
31. Committee opined that the PP shall align its activities with the sustainable development goals.
32. The Committee noted that the EIA reports are in compliance of the ToR issued for the project, reflecting the present environmental status and the projected scenario for all the environmental components.
33. The EAC also deliberated on the written submission of the project proponent and found it satisfactory.
34. 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:**

**25.1.22:** In view of the foregoing and after the detailed deliberation, the Committee **recommended** the instant proposal for grant of Environment Clearance in supersession of all existing ECs issued for Jawahar Khani-5 Opencast Expansion Project and 21 Incline mine **subject to uploading of written submission** on PARIVESH Portal under the provisions of EIA Notification, 2006 subject to the stipulation of following specific conditions and general conditions based on project specific requirements:

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

- i. No mining operations shall be undertaken in Forestland, until Stage – II forestry clearance for 151.8519 Ha Forest land is obtained under the provisions of Van (Sanrakshan Evam Samvardhan) Adhiniyam, Act 1980. Project proponent shall erect the closely spaced pillars to clearly demarcate the undiverted forest land of 61.156 ha in the lease area which will continue with the underground forest rights only and the same shall not be disturbed in the instant project. Further, project proponent should also construct fireline along undiverted forest land boundary in consultation with State Forest Department. All officers, supervisors, overman, mate, workers, operators, persons employed in the mine should be made aware about the undiverted forest land and its boundaries so that there is no disturbance of the same. Besides, proponent shall clearly mark on all the surface plans, production plans used in the project regarding the existence of diverted and undiverted forest areas in different colours.

- ii. With respect to Yellandu Additional Mining Lease (YAML) of 1712 Ha, proponent shall surrender the 417.854 Ha of compensatory afforestation land at the earliest and ensure that no mining activity in 53.60 Ha land as committed. This shall be clearly demarcated by erecting the closely spaced pillars prior to commencement of mining activity.
- iii. Project proponent shall take all necessary action to fill the final void with overburden thereby reducing the final depth to 150 m in place of 190 m at post closure stage as committed. In this regard, the Mine Plan and Mine Closure Plan shall be revised as per the Ministry of Coal's "Guidelines for Preparation of Mining Plan and Mine Closure Plan for Coal and Lignite blocks 2025" dated 31.01.2025 and the same shall be approved by the board of M/s SCCL by 30.11.2025. Compliance of the same shall be submitted in the six-monthly compliance report.
- iv. No OB dumping is permitted outside the ML area.
- v. Project proponent shall not divert water body except the diversion of seasonal nallah flowing adjacent to the project boundary in consultation with the State Irrigation Department and the compliance status in this regard shall be submitted to the Regional Office of MoEF&CC along with the six monthly compliance report.
- vi. 2 nos of 3.3 kV HT lines (TS Transco), which are passing through the excavation area and the diversion of the same shall be carried out only after obtaining the permission from the competent authority.
- vii. Four number of Continuous Ambient Air Quality monitoring system shall be set up to monitor common/criteria pollutants such as PM<sub>10</sub>, PM<sub>2.5</sub>, SO<sub>2</sub>, NO<sub>x</sub> within the lease area and outside the mine lease area in consultation with concerned SPCB within one year from the date of issue of EC and the same shall be connected to the SPCB server. The monitoring of other locations (at least three locations outside the lease area covering upwind and downwind directions at an angle of 120° each) shall be carried out manually.
- viii. Project proponent shall carryout regular monitoring of nickel along with the other AAQ parameters as committed.
- ix. Project proponent shall install adequate number of fixed water sprinklers alongside the route of conveyor and plantation with native shall be developed on both the sides of the conveyor belt. No road transportation of coal is allowed for the instant project as committed.
- x. Project proponent shall provide cover to all the DG sets and noise generating equipments with the well-designed acoustic enclosures with minimum insertion loss of 25 dB(A), as per CPCB norms.
- xi. The Seepage water to be pumped out from the proposed project shall not exceed 2400 KLD. After meeting the mine requirement of 1310 KLD the balance 1090 KLD shall be treated in conformity to the prescribed norms and released with prior approval from TSPCB.
- xii. Project proponent shall explore the possibility of developing the pisciculture and installation of pumped storage plants in the 163.135 ha of void, which is proposed to be converted into waterbody, in order to help the villagers in cultivation and livelihood activities.
- xiii. Project proponent shall abide by the final decision of the district collector regarding the rehabilitation of the illegal encroachment on the ML area of JK – OC.
- xiv. Project proponent shall implement the protective measures proposed in EMP in a time-bound manner. The budget earmarked is Rs 1855 lakhs (Capital) and Rs 200 lakhs (atleast 10% of the expenditure) (recurring) and should be kept in separate accounts and

audited annually. The implementation status along with the amount spent with documentary proof shall be submitted to the concerned Regional Office for the activities carried out during the previous year. Project proponent shall comply with the EMP measures as follows:

S. No.	Description of Item	Capital Cost in Rs. Lakhs	Timeline for installation	Recurring Cost Per Annum in Rs. Lakhs
<b>A</b>	<b>Air Pollution &amp; Noise Control Measures</b>			
1	Mobile water sprinklers (4 nos.)	150	2 no.s – Before commencement and 2 no.s – within 1 year of commencement of the project.	8
2	Fixed water sprinklers (1000 units)	100	Within 5 years (200 units per year as the quarry progresses).	5
3	Fog cannons (10 nos.)	200	5 no.s – Before commencement and 5 no.s – within 1 year of commencement of the project.	2
4	Mechanical Sweeping M/c (01 no.)	50	Before commencement of the Project.	2
6	CAAQMS (2 nos.)	120	Before commencement of the Project.	8
<b>Sub total</b>		<b>620</b>		<b>25</b>
<b>B</b>	<b>Water Pollution Control Measures</b>			
1	ETP at CHP (01 no.)	40	Before commencement of the Project	5
2	ETP at Base workshop (01 no.)	40	Before commencement of the Project	3
3	STP (01 no.)	60	Within 1 year from commencement of the Project	2
4	Settling tanks (05 nos.)	75	Within 2 years from commencement of the Project	3
5	Rock toe wall (5 km) and rock fill dams (10 nos.)	150	5 years as the mine progresses.	4
6	1 Cu.m. Excavator (01 no.)	80	Before commencement of the Project	3
<b>Sub total</b>		<b>445.00</b>		<b>20</b>
<b>C</b>	<b>Environmental Monitoring and Management</b>			
1	BLD and LULC studies	45	BLD completed. LULC studies will be carried out once in 3 years.	0
2	Construction of RWHS (60 no.s)	150	Within 2 years after commencement of the Project.	8
3	Construction of Piezometric wells (02 nos.)	45	Within 1 year after commencement of the Project.	5
5	Dozer 320/410 HP (01 no.)	100	Before commencement of the Project.	2
6	Post project environmental monitoring	0	Throughout the life of the mine.	15
<b>Sub total</b>		<b>340.00</b>		<b>30</b>
<b>D</b>	Green Belt Development / Plantation Engineering structures & Bio reclamation works	228	Throughout the life of the mine	25
<b>E</b>	Other	200		0
<b>Grant Total (A+B+C+D+E)</b>		<b>1833.00</b>		<b>100.00</b>

- xv. The budget proposed to address the issues raised during Public hearing is Rs. 5.00 crores. Compliance status in this regard shall be submitted to the concerned Regional Office along with the six monthly compliance report and also be uploaded on the web portal of the

company. In addition to this, PP shall strengthen the existing Primary Health Center (PHC) & Community Health Center (CHC) in the study area for better public health. Compliance status in this regard shall be submitted along with the six monthly compliance to the concerned Regional Office of MoEF&CC.

- xvi. Plantation shall be developed in 794.123 ha area. A 7.5 m wide greenbelt, consisting of at least 3 tiers around mine boundary will be developed as greenbelt (159.152 ha) 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 19.85 lakh saplings shall be planted and nurtured in 1114.507 hectares in 19 years (mine life plus post closure). The plantation shall be done in the following manner:

Plantation Schedule and Budget			
Year	Plantation in ha	Cumulative Plantation in ha	Budget (in Rs. Cr)
Up to 2024-25	230.15	230.15	3.57
1st Year	38	268.15	1.52
3rd Year	64.02	332.17	3.27
5th Year	144.533	476.703	8.96
10th Year	109.639	586.342	8.00
14th Year	140.34	726.682	11.79
Post Closure	67.441	794.123	6.41
<b>Cumulative budget towards plantation</b>			<b>43.52</b>
Note: Earlier the expenditure towards pre planting activities like levelling, top soil spreading, site preparation, fencing etc., were not included which are part of plantation. These activities have been now included to make revised statement.			

In addition to this, Agro forestry shall be encouraged in consultation with the land owners. Further, PP shall provide 50,000 plant saplings with 4 feet tall fruit bearing plants to farmers for plantation in barren and agriculture lands in the study area every year till the life of the mine with incentive to improve the green cover in and around the mine lease area. On identified undisturbed area, plantation should be done in first three years. Along with this, miyawaki plantation shall be carried out and plantation shall also be carried out in the nearby schools. Apart from this, one year in advance, double of 87451 plants will be planted before felling the same from the area. Atleast 15 % of the plants, which are proposed to be felled, should be transplanted to a suitable place.

- xvii. Wildlife conservation plan as approved by the competent authority shall be implemented. Additional, budget shall be added in the plan, in case additional measures suggested by state wildlife department.
- xviii. PP shall carry out a survey of the impact of blasting in the nearby area/villages by involving a reputed institute and take remedial measures as proposed by the respective institute. Further, provide compensation if any for any damage caused. PP must give crop compensation to the farmers in case there is decrease in the production due to the mining activities. Compliance status in this regard shall be submitted along with the six monthly compliance to the concerned Regional Office.
- xix. PP shall make use of advanced computer simulation techniques for design and execution of blasting operation in the mine. PP shall make use of Electronic Delay Detonators for optimal blasting in coal and OB rock to minimize the environmental impacts of blasting such as ground vibration, fly rocks and excessive dust generation.
- xx. PP shall create a “Public Grievance Redressal and Monitoring System” for resolving any issues related to the pollution of mines and complaint has to resolve as soon as possible not

beyond 30 days. In this regard, adequate awareness to be spread among the public to address their grievance to company with simple and easy manner and for which company needs to devise the mechanism. The same shall be reported to IRO within 3 months. A logbook to be maintained by PP on “Public Grievance Redressal and Monitoring System.

- xxi. Third-party audit (by NEERI/CIMFR/IIT/NITs) for air & water quality shall be carried out annually to keep a check on the same. PP shall implement the recommendations of the audit and submit the outcome of the audit to the concerned RO of MoEF&CC.
- xxii. The status of mine closure activities must be included in every six months compliance report submitted to the state pollution control board and RO of MoEF&CC.
- xxiii. PP shall conduct Carbon Sequestration Study including carbon emissions from coal mining. Compliance status in this regard shall be submitted along with the six monthly compliance to the concerned Regional Office and also kept on the web portal of the company.
- xxiv. Hon’ble Supreme Court in an Writ Petition(s) Civil No. 114/2014, Common Cause vs Union of India & Ors vide its judgement dated 8th January, 2020 has directed the Union of India to impose a condition in the mining lease and a similar condition in the environmental clearance and the mining plan to the effect that the mining lease holders shall, after ceasing mining operations, undertake re-grassing the mining area and any other area which may have been disturbed due to their mining activities and restore the land to a condition which is fit for growth of fodder, flora, fauna etc. Compliance of this condition after the mining activity is over at the cost of the mining lease holders/Project Proponent”. The implementation report of the above said condition shall be sent to the Regional Office of the MoEF&CC.
- xxv. PP should establish in house (at project site) environment laboratory for measurement of environment parameter with respect to air quality and water (surface and ground. A dedicated team to oversee environment management shall be setup which should comprise of Environment Engineers, Laboratory chemist and staff for monitoring of air, water quality parameters on routine basis. Any non- compliance or infringement should be reported to the concerned authority.
- xxvi. PP shall ensure that all types of plastic waste generated from the plant shall be stored separately in isolated area and disposed of strictly adhering to the Plastic Waste Management Rules 2016 (as amended). In pursuant to the Ministry’s OM dated 18/07/2022. PP shall also create awareness among the people working in the ML area as well as in its surrounding area on the ban on Single Use Plastic (SUP) in order to ensure compliance of Ministry’s Notification published by the Ministry on 12/08/2021. A report along with photograph on the measures taken shall also be included in the six monthly compliance report being submitted by PP.
- xxvii. Project proponent is advised to implement the 'Ek Ped Maa Ke Naam' Campaign every year, which was launched on 5th June 2024 on the occasion of the World Environment Day to increase the forest cover across the Country. This plantation drive is other than Green belt development. The action in this regard shall be submitted concerned RO in six monthly report.

## **B. Standard Conditions:**

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

- i. The Environmental clearance shall be subject to orders of Hon’ble Supreme Court of India, Hon’ble High Courts, NGT and any other Court of Law, from time to time, and as applicable to the project.



- ii. The project proponent shall obtain clearance from the National Board for Wildlife, if applicable.
- iii. Solid/hazardous waste generated in the mines needs to be addressed in accordance to the Solid Waste Management Rules, 2016/Hazardous & Other Waste Management Rules, 2016.
- iv. The maximum production at any given time shall not exceed the limit as prescribed in the EC.
- v. Validity of EC is as per life of the mine mentioned in EC letter or 30 years as per EIA Notification, 2006 and its amendments therein.

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

- i. Project proponent shall obtain requisite consent from State Pollution Control Board for amalgamated mine with a production capacity of 3.75 MTPA.
- ii. Adequate ambient air quality monitoring stations shall be established in the core zone as well as in the buffer zone for monitoring of pollutants, namely particulates, SO<sub>2</sub> and NO<sub>x</sub>. Location of the stations shall be decided based on the meteorological data, topographical features and environmentally and ecologically sensitive receptors in consultation with the State Pollution Control Board.
- iii. The Ambient Air Quality monitoring in the core zone shall be carried out to ensure the Coal Industry Standards notified vide GSR 742 (E) dated 25th September, 2000 and as amended from time to time by the Central Pollution Control Board. Data on ambient air quality and heavy metals such as Hg, As, Ni, Cd, Cr and other monitoring data shall be regularly reported to the Ministry/Regional Office and to the CPCB/SPCB.
- iv. Effective control measures such as regular water sprinkling/rain gun/ Fog cannon /mist sprinkling etc., shall be carried out in critical areas prone to air pollution with higher level of particulate matter all through the coal transport roads, loading/unloading and transfer points. Fugitive dust emissions from all sources shall be controlled regularly. It shall be ensured that the ambient air quality parameters conform to the norms prescribed by the Central/State Pollution Control Board.
- v. Major approach roads shall be black topped and properly maintained.
- vi. Vehicular emissions shall be kept under control and regularly monitored. All the vehicles engaged in mining and allied activities shall operate only after obtaining 'PUC' certificate from the authorized pollution testing centres.
- vii. PP should Install Wind breaker/shield arrangement along the railway siding for reducing the dust propagation in upwind direction.
- viii. The raw coal shall be stacked properly at earmarked site (s) within stockyards fitted with wind breakers/shields. Adequate measures shall be taken to ensure that the stored mineral does not catch fire
- ix. PP shall submit an action plan for using and developing Renewable Energy for its consumption in its utilities/machinery/equipment instead of using electricity from Grid/generated from Thermal Power Plants. PP shall Install additional solar power generation units.
- x. PP shall install the weather monitoring system along with two CAAQMS shall be installed in which all the parameters like PM<sub>10</sub>, PM<sub>2.5</sub>, SO<sub>2</sub>, NO<sub>x</sub> shall be monitored.

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

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

742 (E) dated 25th September, 2000 and as amended from time to time by the Central Pollution Control Board.

- ii. The monitoring data shall be uploaded on the company's website and displayed at the project site at a suitable location. The circular No.J-20012/1/2006-IA.11 (M) dated 27th May, 2009 issued by Ministry of Environment, Forest and Climate Change shall also be referred in this regard for its compliance.
- iii. The project proponent shall not alter major water channels around the site. Appropriate embankment shall be provided along the side of the river/nallah flowing near or adjacent to the mine. The embankment constructed along the river/nallah boundary shall be of suitable dimensions and critical patches shall be strengthened by stone pitching on the river front side, stabilized with plantation so as to withstand the peak water pressure preventing any chance of mine inundation.
- iv. Garland drains (of suitable size, gradient and length) around the critical areas i.e. mine shaft and low lying areas, shall be designed keeping at least 50% safety margin over and above the peak sudden rainfall and maximum discharge in the area adjoining the mine sites. The sump capacity shall also provide adequate retention period to allow proper settling of silt material of the surface runoff
- v. The water pumped out from the mine, after siltation, shall be utilized for industrial purpose viz. watering the mine area, roads, green belt development etc. The drains shall be regularly desilted particularly before monsoon and maintained properly
- vi. Industrial wastewater from coal handling plant and mine water shall be properly collected and treated so as to conform to the standards prescribed under the Environment (Protection) Act, 1986 and the Rules made thereunder, and as amended from time to time. Oil and grease trap shall be installed before discharge of workshop effluent. Sewage treatment plant (STP) of adequate capacity shall be installed for treatment of domestic wastewater.
- vii. An integrated surface drainage plan including surface water conservation plan for the area of influence affected by the said mining operations shall be prepared, considering the presence of any river/rivulet/pond/lake etc., with impact of mining activities on it, and implemented by the project proponent. The surface drainage plan and/or any diversion of natural water courses shall be as per the provisions of the approved Mining Plan/ EIA-EMP submitted to this Ministry and the same should be done with due approval of the concerned State/GoI Authority. The construction of embankment to prevent any danger against inrush of surface water into the mine should be as per the approved mining plan and as per the permission of DGMS.
- viii. The project proponent shall take all precautionary measures to ensure reverian/ riparian ecosystem in and around the coal mine upto a distance of 5 km. A revarian /riparian ecosystem conservation and management plan should be prepared and implemented in consultation with the irrigation / water resource department in the state government.
- ix. Industrial effluent and domestic wastewater shall be treated in the Effluent treatment Plant (ETP) and Sewage Treatment Plant (STP). After treatment, treated water shall be reused for plantation.

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

- i. Adequate measures shall be taken for control of noise levels as per Noise Pollution Rules, 2016 in the work environment. Workers engaged in blasting and drilling operations, operation of HEMM, etc shall be provided with personal protective equipments (PPE) like ear plugs/muffs in conformity with the prescribed norms and guidelines in this regard. Adequate awareness programme for users to be conducted. Progress in usage of such accessories to be monitored.

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

## **5. Mining Plan**

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

## **6. Land Reclamation**

- i. Digital Survey of entire lease hold area/core zone using Satellite Remote Sensing survey shall be carried out at least once in three years for monitoring land use pattern and report in 1:50,000 scale or as notified by Ministry of Environment, Forest and Climate Change (MOEF&CC) from time to time shall be submitted to MOEFCC/Regional Office (RO).
- ii. Post-mining land be rendered usable for agricultural/forestry purposes and shall be handed over to the respective State Government, as specified in the Guidelines for Preparation of Mine Closure Plan, issued by the Ministry of Coal dated 27th August, 2009 and subsequent amendments.
- iii. The final mine void depth should preferably be as per the approved Mine Closure Plan, and in case it exceeds 40 m, adequate engineering interventions shall be provided for sustenance of aquatic life therein. The remaining area shall be backfilled and covered with thick and alive top soil. Post-mining land be rendered usable for agricultural/forestry purposes and shall be diverted. Further action will be treated as specified in the guidelines for Preparation of Mine Closure Plan issued by the Ministry of Coal dated 27th August, 2009 and subsequent amendments.
- iv. The entire excavated area, backfilling, external OB dumping (including top soil) and afforestation plan shall be in conformity with the “during mining”/”post mining” land-use pattern, which is an integral part of the approved Mining Plan and the EIA/EMP submitted to this Ministry. Progressive compliance status vis-a-vis the post mining land use pattern shall be submitted to the MOEFCC/RO.
- v. Further, it may be ensured that as per the time schedule specified in mine closure plan it should remain live till the point of utilization. The topsoil shall temporarily be stored at

earmarked site(s) only and shall not be kept unutilized. The top soil shall be used for land reclamation and plantation purposes. Active OB dumps shall be stabilized with native grass species to prevent erosion and surface run off. The other overburden dumps shall be vegetated with native flora species. The excavated area shall be backfilled and afforested in line with the approved Mine Closure Plan. Monitoring and management of rehabilitated areas shall continue until the vegetation becomes self-sustaining. Compliance status shall be submitted to the Ministry of Environment, Forest and Climate Change/ Regional Office.

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

#### **7. Public Hearing and Human Health Issues:**

- i. Adequate illumination shall be ensured in all mine locations (as per DGMS standards) and monitored.
- ii. The project proponent shall undertake occupational health survey for initial and periodical medical examination of the personnel engaged in the project and maintain records accordingly as per the provisions of the Mines Rules, 1955 and DGMS circulars. Besides regular periodic health check-up, 20% of the personnel identified from workforce engaged in active mining operations shall be subjected to health check-up for occupational diseases and hearing impairment, if any, as amended time to time
- iii. Personnel (including outsourced employees) working in core zone shall wear protective respiratory devices and shall also be provided with adequate training and information on safety and health aspects.
- iv. Skill training as per safety norms specified by DGMS shall be provided to all workmen including the outsourcing employees to ensure high safety standards in mines.
- v. Effective arrangement shall be made to provide and maintain at suitable points conveniently situated, a sufficient supply of drinking water for all the persons employed.
- vi. The project proponent shall follow the mitigation measures provided in this Ministry's OM No.Z11013/5712014-IA.II (M) dated 29th October, 2014, titled 'Impact of mining activities on habitations-issues related to the mining projects wherein habitations and villages are the part of mine lease areas or habitations and villages are surrounded by the mine lease area'.
- vii. PP should conduct epidemiology study for analysis of the distribution, patterns and determinants of health and disease conditions in defined populations.

#### **8. Corporate Environment Responsibility:**

- i. The company shall have a well laid down environmental policy duly approve by the Board of Directors. The environmental policy should prescribe for standard operating procedures to have proper checks and balances and to bring into focus any infringements/deviation/violation of the environmental/forest/wildlife norms/conditions. The company shall have defined system of reporting infringements/deviation/violation of the environmental/forest/wildlife norms/conditions and/or shareholders/stake holders
- ii. A separate Environmental Cell both at the project and company head quarter level, with qualified personnel shall be set up under the control of senior Executive, who will directly to the head of the organization.
- iii. Action plan for implementing EMP and environmental conditions along with responsibility matrix of the company shall be prepared and shall be duly approved by competent authority.

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

**9. Miscellaneous:**

- i. The project proponent shall make public the environmental clearance granted for their project along with the environmental conditions and safeguards at their cost by prominently advertising it at least in two local newspapers of the District or State, of which one shall be in the vernacular language within seven days and in addition this shall also be displayed in the project proponent's website permanently.
- ii. The copies of the environmental clearance shall be submitted by the project proponents to the Heads of local bodies, Panchayats and Municipal Bodies in addition to the relevant offices of the Government who in turn has to display the same for 30 days from the date of receipt.
- iii. The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website and update the same on half-yearly basis.
- iv. The project proponent shall submit six-monthly reports on the status of the compliance of the stipulated environmental conditions on the website of the Ministry of Environment, Forest and Climate Change at environment clearance portal.
- v. The project proponent shall submit the environmental statement for each financial year in Form V to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently and put on the website of the company.
- vi. The project authorities shall inform to the Regional Office of the MOEFCC regarding commencement of mining operations.
- vii. The project authorities must strictly adhere to the stipulations made by the State Pollution Control Board and the State Government.
- viii. The project proponent shall abide by all the commitments and recommendations made in the EIA/EMP report, commitment made during Public Hearing and also that during their presentation to the Expert Appraisal Committee.
- ix. No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment, Forests and Climate Change (MoEF&CC).
- x. Concealing factual data or submission of false/fabricated data may result in revocation of this environmental clearance and attract action under the provisions of Environment (Protection) Act, 1986.
- xi. The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.
- xii. The Ministry reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.
- xiii. The Regional Office of this Ministry shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer (s) of the Regional Office by furnishing the requisite data / information/monitoring reports
- xiv. The above conditions shall be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution)

Act, 1981, the Environment (Protection) Act, 1986, Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 and the Public Liability Insurance Act, 1991 along with their amendments and Rules and any other orders passed by the Hon'ble Supreme Court of India / High Courts and any other Court of Law relating to the subject matter.

**Agenda No. 25.2:**

**25.2: Greenfield Wet Type Coal Washery Project Based on Heavy Media Cyclone Technology (area: decreasing from 9.71 Ha to 9.54 Ha having washery capacity 2.6 MTPA) by M/s Veeraj Earrthfusion Private Limited located at Village: Amali; District: Bilaspur; State: Chhattisgarh – Amendment in Terms of Reference – regarding**

**[Online Proposal No. IA/CG/CMIN/534013/2025; Consultant: M/s Grass Roots Research & Creation India (P) Ltd., NABET/EIA/24-27/RA 0354, valid up to 16.08.2027]**

**25.2.1:** M/s Veeraj Earrthfusion Private Limited made an online application vide proposal no. IA/CG/CMIN/534013/2025, dated 15.04.2025 seeking for amendment in the Terms of Reference (ToR) dated 29.03.2025 accorded for the project mentioned above.

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

**25.2.2: Details of previous approvals:** Earlier application for ToR was submitted vide proposal no. IA/CG/CMIN/509109/2024 dated 28.11.2024. Project was considered in EAC (Coal Mining) meeting and subsequently ToR was granted by MoEF&CC vide File No. IA-J-11015/77/2024-IA-II(M) dated 29.03.2025. The project proponent is seeking an amendment to the granted Terms of Reference (ToR) due to change in the project site boundary. The total area of the project has been reduced from 9.71 ha to 9.54 ha.

**25.2.3: Details of amendment sought in ToR issued vide letter no. IA-J-11015/77/2024-IA-II(M), dated 29.03.2025:**

S. No.	Para no. of the existing ToR	Details as mentioned in the existing ToR	Amendment sought	Justification for the amendment sought
1.	Title of project given in subject at Page no- 1	Greenfield Wet Type Coal Washery Project Based on Heavy Media Cyclone Technology (Area: <b>9.71 Ha</b> having washery capacity 2.6 MTPA) by M/s Veeraj Earrth fusion Private Limited, located at Village: Amali; District: Bilaspur; State: Chhattisgarh	Greenfield Wet Type Coal Washery Project Based on Heavy Media Cyclone Technology (Area: <b>9.54 Ha</b> having washery capacity 2.6 MTPA) by M/s Veeraj Earrth fusion Private Limited, located at Village: Amali; District: Bilaspur; State: Chhattisgarh	Change in area has been necessitated by the unwillingness of certain landowners to sell their land. Consequently, the project site has been reconfigured based on land already acquired from willing sellers. As part of this
2.	Point no-5 under 'Details submitted by Project proponent' at Page no. - 2.	The instant proposal is for grant of Terms of References (ToR) for a Greenfield Wet Type Coal Washery Project Based on Heavy Media Cyclone Technology (Area: <b>9.71 Ha</b> having washery capacity 2.6 MTPA) located at Village: Amali; District: Bilaspur; State: Chhattisgarh by M/s Veeraj Earrthfusion Private Limited.	The instant proposal is for grant of Terms of References (ToR) for a Greenfield Wet Type Coal Washery Project Based on Heavy Media Cyclone Technology (Area: 9.54 Ha having washery capacity 2.6 MTPA) located at Village: Amali; District: Bilaspur; State: Chhattisgarh by M/s Veeraj Earrthfusion Private Limited.	
3.	Point no. 6 in Environmental Site Settings: Details of	The project area is covered under Survey of India Toposheet No. F44K3 (Project Site) and F44K4, F44J15 & F44J16 and is	The project area is covered under Survey of India Toposheet No. F44K3 (Project Site) and F44K4, F44J15 & F44J16 and is	

S. No.	Para no. of the existing ToR	Details as mentioned in the existing ToR				Amendment sought				Justification for the amendment sought
	Latitude and Longitude	bounded by geographical co-ordinates ranging from latitude 22°18'29.4624"N to 22°18'27.2376"N and longitude 82°1'28.898"E to 82°1'32.75"E.				bounded by geographical co-ordinates ranging from latitude 22°18'36.319"N to 22°18'36.199"N and longitude 82°1'32.739"E to 82°1'32.508"E.				adjustment, a portion of the originally proposed land has been relinquished, while some additional land has been acquired to optimize site utilization. These modifications have led to changes in the project boundary, layout, including the repositioning of certain facilities and machinery, to ensure the most efficient use of the available area. Accordingly, the revised pre-feasibility report has also been submitted.
4.	Point no. 6 in Project Area/ Location under 'Details submitted by Project proponent' at Page no. - 2.	Total <b>9.71 ha</b> land is involved in our project. Total land is private land and under the possession of M/s Veeraj Earrthfusion Private Limited. An undertaking specifying the Khasra numbers and the area in hectares, along with the relevant land documents, is submitted by the proponent				Total <b>9.54 ha</b> land is involved in our project. Total land is private land and under the possession of M/s Veeraj Earrthfusion Private Limited. An undertaking specifying the Khasra numbers and the area in hectares, along with the relevant land documents, is submitted by the proponent				
5.	Point no. 7 (v) in Land area break-up under 'Details of Coal Washery' at Page no. - 3.	S. No.	Description	Area (ha)	Area %	S. No.	Description	Area (ha)	Area %	
		1.	Washery Plant	1.361	14.02	1.	Washery Plant	1.36	14.26	
		2.	Raw Coal, Stock Yard, Clean Coal & Reject	1.052	10.83	2.	Raw Coal, Stock Yard, Clean Coal & Reject	1.05	11.02	
		3.	Other Facilities (Internal Roads, water Lagoon, Parking & other Building.)	2.267	23.35	3.	Other Facilities (Internal Roads, water Lagoon, Parking & other Building.)	2.16	22.64	
		4.	Green Belt Development / Plantation Area	3.20	32.96	4.	Green Belt Development / Plantation Area	3.14	33	
		5.	Open Area	1.83		5.	Open Area	1.83		
		Total Land Area		9.71	100	Total Land Area		9.54	100	
6.	Point no. 16 under 'Recommendations of the Committee' at Page no. - 7.	Based on the discussion held and the documents submitted the EAC (coal) recommended the proposal for the grant of Terms of Reference (TOR) to a Greenfield Wet Type Coal Washery Project Based on Heavy Media Cyclone Technology (Area: <b>9.71 Ha</b> having washery capacity 2.6 MTPA) by M/s Veeraj Earrthfusion Private Limited, located at Village: Amali; District: Bilaspur; State: Chhattisgarh under EIA Notification, 2006 (as amended) with the specific TOR conditions in addition to generic TOR (Annexure-1)				Based on the discussion held and the documents submitted the EAC (coal) recommended the proposal for the grant of Terms of Reference (TOR) to a Greenfield Wet Type Coal Washery Project Based on Heavy Media Cyclone Technology (Area: <b>9.54 Ha</b> having washery capacity 2.6 MTPA) by M/s Veeraj Earrthfusion Private Limited, located at Village: Amali; District: Bilaspur; State: Chhattisgarh under EIA Notification, 2006 (as amended) with the specific TOR conditions in addition to generic TOR (Annexure-1).				
7.	Point no. 17 under 'Recommendations of the Committee' at Page no. - 7.	In accordance with the provisions contained in the Environment Impact Assessment (EIA) Notification, 2006 & further amendments thereto and based on the recommendations of the EAC, the Ministry hereby accords Terms of Reference (ToR) to M/s Veeraj Earrth fusion Private Limited for a “Greenfield Wet Type Coal Washery Project Based on Heavy Media Cyclone Technology (Area: <b>9.71 Ha</b> having washery capacity 2.6 MTPA)”, with the specific ToRs in addition to generic/standard ToR.				In accordance with the provisions contained in the Environment Impact Assessment (EIA) Notification, 2006 & further amendments thereto and based on the recommendations of the EAC, the Ministry hereby accords Terms of Reference (ToR) to M/s Veeraj Earrth fusion Private Limited for a “Greenfield Wet Type Coal Washery Project Based on Heavy Media Cyclone Technology (Area: <b>9.54 Ha</b> having washery capacity 2.6 MTPA)”, with the specific ToRs in addition to generic/standard ToR.				

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

**25.2.5: Written submissions:** PP submitted the following during the meeting:

S. No.	Required details	Reply
(i)	PP, should submit an undertaking that no further amendments will be sought in the Terms of Reference (ToR).	PP submitted that total land area proposed for the project is 9.54 hectares, which is currently under the possession of Veeraj Earrthfusion Private Limited. The khasra details submitted for the amendment are final and PP will not seek any further amendment in the Terms of Reference (ToR) in future after the accord of amended ToR. An undertaking regarding same is submitted.
(ii)	Project Proponent (PP) should provide the current land use status of the project site.	PP submitted that total land for proposed project is 9.54 hectares, which is under the possession of M/s Veeraj Earrthfusion Pvt Ltd. The entire land has been duly converted for industrial purposes. An undertaking confirming the present land use status is submitted while the supporting land conversion documents are submitted for your reference.
(iii)	As per the ToR granted and the information submitted in CAF for the instant project, there is no forest land part of the coal washery area. However, as per the KML file submitted for the instant project, there is a patch of forestland visible within the washery area. Kindly clarify and make the required changes.	PP informed that coal washery project total area is 9.54 hectares, which is completely owned by the company. We also confirm that no forest land is involved within the project site. However, the nearest forest area is the Lormi Reserve Forest, located approximately 1.9 km west of the project site. A copy of the Survey of India topographic map, indicating the distance of the nearest forest from the project site, is submitted. The KML file has also been uploaded to the Parivesh portal under the "Know Your Approval" section, which confirms that no forest clearance is required for this project. A screenshot of the relevant section is submitted. In addition, PP has submitted a request letter to the competent authority for the issuance of a No Objection Certificate (NOC) confirming the non-involvement of forest land. Acknowledgment of this submission is submitted.

**Observations and deliberation of the Committee:**

**25.2.6: The EAC noted the following:**

1. The instant proposal is for granting amendment in the Terms of Reference obtained by M/s Veeraj Earrthfuion Private Limited for Greenfield Wet Type Coal Washery Project based on Heavy Media Cyclone Technology, vide letter no. IA-J-11015/77/2024-IA-II(M), dated 29.03.2025.
2. The ToR vide letter no. IA-J-11015/77/2024-IA-II(M), dated 29.03.2025 was granted for the washery capacity of 2.6 MTPA in the area of 9.71 ha.



3. The EAC took into consideration the project site through KML file on the Google Earth presented by the project proponent along with DSS of the project site on PARIVESH. As per the DSS KML there are patches of forest visible in the ML area. Committee opined that the PP shall submit a letter from the State Forest Department in this regard, that there is no forest involved in the project area, at the time of application for EC.
4. The instant proposal submitted by the PP is for seeking amendment w.r.t. to the project area, by reducing the same from 9.71 ha to 9.54 ha. Committee deliberated on the reason for seeking the reduction in washery area and observed from the justification submitted by the PP that, there are certain land owners, who are not willing to sell their lands. Consequently, the PP has reconfigured the project site on the basis of the land already acquired and also acquired some additional land to optimize the site utilization.
5. Committee further deliberated on the changes that took place due to change in area and observed that the change in area has led to change in project boundary, project layout and repositioning of certain facilities and machinery, in order to efficiently utilize the available area.
6. Committee opined that the PP shall carry out detailed study of flora and fauna in the nearby water bodies of the project area through Wildlife Institute of India.
7. Committee further deliberated on the changes in ToR proposed due to the change in the area as per the ToR letter dated 29.03.2025 and observed that the changes will be as mentioned in para 25.2.3 above. Committee opined that the ToR shall be accordingly amended and the PP shall accordingly prepare and submit the documents at the time of EC application.
8. All the changes taking place due to change in land area has been taken into cognizance. Committee also observed that other features as mentioned in Para 3 of the ToR accorded vide letter dated 29.03.2025 shall remain same.

**Recommendations of the Committee:**

**24.3.7:** In view of the foregoing and after detailed deliberations, the committee *recommended* the instant proposal for grant of following amendment in Terms of Reference granted vide letter no. IA-J-11015/77/2024-IA-II(M), dated 29.03.2025 for reducing the area from 9.71 Ha to 9.54 Ha subject to uploading of written submissions on Parivesh portal. All other Terms of References given in the Letter dated 29.03.2025 shall remain unchanged:

Details of ToR dated 29.03.2025	Details as per ToR	Recommendations of EAC
Title of project given in subject at Page no- 1	Greenfield Wet Type Coal Washery Project Based on Heavy Media Cyclone Technology (Area: <b>9.71 Ha</b> having washery capacity 2.6 MTPA) by M/s Veeraj Earrrh fusion Private Limited, located at Village: Amali; District: Bilaspur; State: Chhattisgarh	Greenfield Wet Type Coal Washery Project Based on Heavy Media Cyclone Technology (Area: <b>9.54 Ha</b> having washery capacity 2.6 MTPA) by M/s Veeraj Earrrh fusion Private Limited, located at Village: Amali; District: Bilaspur; State: Chhattisgarh
Point no-5 under 'Details submitted by Project proponent' at Page no. - 2.	The instant proposal is for grant of Terms of References (ToR) for a Greenfield Wet Type Coal Washery Project Based on Heavy Media Cyclone Technology (Area: <b>9.71 Ha</b> having washery capacity 2.6 MTPA) located at Village: Amali; District: Bilaspur; State: Chhattisgarh by M/s Veeraj Earrrhfusion Private Limited.	The instant proposal is for grant of Terms of References (ToR) for a Greenfield Wet Type Coal Washery Project Based on Heavy Media Cyclone Technology (Area: <b>9.54 Ha</b> having washery capacity 2.6 MTPA) located at Village: Amali; District: Bilaspur; State: Chhattisgarh by M/s Veeraj Earrrhfusion Private Limited.
Point no. 6 in Environmental Site Settings: Details of Latitude and	The project area is covered under Survey of India Toposheet No. F44K3 (Project Site) and F44K4, F44J15 & F44J16 and is bounded by geographical co-ordinates ranging from latitude	The project area is covered under Survey of India Toposheet No. F44K3 (Project Site) and F44K4, F44J15 & F44J16 and is bounded by geographical co-ordinates ranging from latitude

Details of ToR dated 29.03.2025	Details as per ToR				Recommendations of EAC			
Longitude at page no 2.	22°18'29.4624"N to 22°18'27.2376"N and longitude 82°1'28.898"E to 82°1'32.75"E.				22°18'36.319"N to 22°18'36.199"N and longitude 82°1'32.739"E to 82°1'32.508"E.			
Point no. 6 in Project Area/ Location under 'Details submitted by Project proponent' at Page no. - 2.	Total <b>9.71 ha</b> land is involved in our project. Total land is private land and under the possession of M/s Veeraj Earthfusion Private Limited. An undertaking specifying the Khasra numbers and the area in hectares, along with the relevant land documents, is submitted by the proponent				Total <b>9.54 ha</b> land is involved in our project. Total land is private land and under the possession of M/s Veeraj Earthfusion Private Limited. An undertaking specifying the Khasra numbers and the area in hectares, along with the relevant land documents, is submitted by the proponent			
Point no. 7 (v) in Land area break-up under 'Details of Coal Washery' at Page no. - 3.	<b>S. No.</b>	<b>Description</b>	<b>Area (ha)</b>	<b>Area %</b>	<b>S. No.</b>	<b>Description</b>	<b>Area (ha)</b>	<b>Area %</b>
	1.	Washery Plant	1.361	14.02	1.	Washery Plant	1.36	14.26
	2.	Raw Coal, Stock Yard, Clean Coal & Reject	1.052	10.83	2.	Raw Coal, Stock Yard, Clean Coal & Reject	1.05	11.02
	3.	Other Facilities (Internal Roads, water Lagoon, Parking & other Building.)	2.267	23.35	3.	Other Facilities (Internal Roads, water Lagoon, Parking & other Building.)	2.16	22.64
	4.	Green Belt Development / Plantation Area	3.20	32.96	4.	Green Belt Development / Plantation Area	3.14	33
	5.	Open Area	1.83		5.	Open Area	1.83	
	<b>Total Land Area</b>		<b>9.71</b>	<b>100</b>	<b>Total Land Area</b>		<b>9.54</b>	<b>100</b>
Point no. 16 under 'Recommendations of the Committee' at Page no. - 7.	Based on the discussion held and the documents submitted the EAC (coal) recommended the proposal for the grant of Terms of Reference (TOR) to a Greenfield Wet Type Coal Washery Project Based on Heavy Media Cyclone Technology (Area: <b>9.71 Ha</b> having washery capacity 2.6 MTPA) by M/s Veeraj Earthfusion Private Limited, located at Village: Amali; District: Bilaspur; State: Chhattisgarh under EIA Notification, 2006 (as amended) with the specific TOR conditions in addition to generic TOR (Annexure-1)				Based on the discussion held and the documents submitted the EAC (coal) recommended the proposal for the grant of Terms of Reference (TOR) to a Greenfield Wet Type Coal Washery Project Based on Heavy Media Cyclone Technology (Area: <b>9.54 Ha</b> having washery capacity 2.6 MTPA) by M/s Veeraj Earthfusion Private Limited, located at Village: Amali; District: Bilaspur; State: Chhattisgarh under EIA Notification, 2006 (as amended) with the specific TOR conditions in addition to generic TOR (Annexure-1).			
Point no. 17 under 'Recommendations of the Committee' at Page no. - 7.	In accordance with the provisions contained in the Environment Impact Assessment (EIA) Notification, 2006 & further amendments thereto and based on the recommendations of the EAC, the Ministry hereby accords Terms of Reference (ToR) to M/s Veeraj Earth fusion Private Limited for a "Greenfield Wet Type Coal Washery Project Based on Heavy Media Cyclone Technology (Area: <b>9.71 Ha</b> having washery capacity 2.6 MTPA)", with the specific ToRs in addition to generic/standard ToR.				In accordance with the provisions contained in the Environment Impact Assessment (EIA) Notification, 2006 & further amendments thereto and based on the recommendations of the EAC, the Ministry hereby accords Terms of Reference (ToR) to M/s Veeraj Earth fusion Private Limited for a "Greenfield Wet Type Coal Washery Project Based on Heavy Media Cyclone Technology (Area: <b>9.54 Ha</b> having washery capacity 2.6 MTPA)", with the specific ToRs in addition to generic/standard ToR.			

#### Additional specific ToRs:

1. Project proponent shall submit a letter from the State Forest Department stating that there is involvement of forest land within the project site.
2. Biodiversity analysis of the project site and study area shall be done through any reputed institute.

3. Necessary coordination shall be made with concerned SPCB (who is responsible for Compliance of OM dated 14-01 2025) regarding streamlining the implementation of GSR 702 and GSR 703 dated 12-11-2024 through which projects requiring prior EC were exempted from requirement of CTE.

### **Agenda No. 25.3:**

25.3: Integrated Lakhanpur Belpahar Lilari Opencast Project (area: 4399.246 having production capacity 40 MTPA) by **M/s Mahanadi Coalfields Limited** located in IB Valley Coalfields; Tehsil: Lakhanpur; District: Jharsuguda; State: Odisha – **Amendment in Environment Clearance – regarding.**

**[Online Proposal no. IA/OR/CMIN/533708/2025; Consultant: CMPDI - NABET/EIA/22-25/SA 0223 valid up to 07.07.2025]**

**25.3.1:** M/s Mahanadi Coalfields Limited has made an online application vide proposal no. IA/OR/CMIN/533708/2025 dated 15.04.2025 seeking for amendment in Environment Clearance dated 15.01.2024 & its subsequent amendment granted for Integrated Lakhanpur Belpahar Lilari Opencast Project (area: 4399.246 having production capacity 40 MTPA), located in IB Valley Coalfields; Tehsil: Lakhanpur; District: Jharsuguda; State: Odisha.

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

### **25.3.2: Details of prior Environment Clearances:**

S. No.	Details of Letter No.	EC/Expansion EC/Amendment in EC/Validity extension/Transfer of EC	Capacity (MTPA)	ML Area in (Ha)	Date of issuance	Status of implementation
1	IA-J-11015/15/2019-IA. II (M)	EC Expansion (Amalgamation cum expansion)	40.00	4399.246	15.01.2024	Being implemented
2	IA-J-11015/15/2019-IA-II (M)	EC (Amendment)	40.00	4399.246	13.08.2024	Being implemented

**25.3.3: Present status of implementation of EC for which amendment is sought:** 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 March 2024 onwards. CTO renewal has been obtained from the SPCB vide letter no. 6962/IND-I-CON-6945 and is valid up to 31.07.2025. 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
2023-24	40	0.699	0
2024-25	40	39.990	0

**25.3.4: Mine lease details:** The EC for the instant project was granted vide EC letter dated 15.01.2024 by integrating 3 mines namely Lakhanpur OCP, Belpahar OCP and Lilari OCP for increase in production from 32.5 MTPA to 40 MTPA within the ML area of 4399.246 Ha.

The project involves 958.695 Ha of forestland. The details of forest land approval already obtained is as follows:

Sl. No.	Obtained vide letter no.	Area (ha)	Stage I/II	Validity
1.	8- 280/89-FC dated 08-10-1990	233.43	Stage II	Life of the Mine
2.	8-104/91-FC dated 02-06-2000	103.52	Stage II	
3.	8-104/1991-FC dated 15-09-2014	19.70	Stage II	
4.	F.No.8-93/2012-FC dated 19-01-2015	10.453	Stage II	
5.	5-ORA155/2012-BHU dated 10-01-2020	12.319	Stage II	
6.	8- 281/8-FC dated 31-07-1990	162.20	Stage II	
7.	8-280/1989-FC Vol. (170901) Dated 19-02-2025	417.073	Stage II	Life of the Mine
	<b>Total Forest land</b>	<b>958.695</b>		

PP submitted that the total broken forestland as on 31.03.2025 is 276.089 Ha and there is no violation of Van (Sanrakshan Evam Samvardhan) Adhiniyam, 1980.

*It is pertinent to mention that, at the time of grant of EC dated 15.01.2024, the stage – II forest clearance was available only for 541.622 Ha of forestland. Stage – II forest clearance on the remaining 417.073 Ha of forestland has been obtained vide FC dated 19.02.2025.*

**25.3.5: Details regarding the amendment sought in the EC dated 15.01.2024 further amended vide letter dated 13.08.2024:**

Reference	Existing	Proposed/ Amendment	Reason
Specific condition no. 1.3 in the EC letter Dated 15.01.2024, amended vide letter 13.08.2024	<i>In addition to the existing facility for 10.0 MTPA mechanized transportation system, PP shall install dedicated in-pit belt conveyor for 20 MTPA with silo loading system till railway siding for Transportation of extracted coal through rail &amp; till such time minimum coal shall be transported by road till 31.07.2025."</i>	<i>In addition to the existing facility for a 10.0 MTPA mechanized transportation system, PP shall install a dedicated in-pit belt Conveyor for 20 MTPA with SILO loading system till railway siding for transportation of extracted coal through rail &amp; till such time minimum coal shall be transported by road till 31.12.2027.</i>	The current proposal is of amendment in EC <b>for further extension of timeline</b> for road transportation. Project could not start implementation of Phase II Silo till date as the phase II Silo (20 MTPA) has dependency on the forest land of 15.68 ha out of required land of 21.44 ha. This 15.68 ha is part of 417.073 ha forest land for which Stage I FC was accorded on 27.12.2023. Without Stage II Forest clearance and the necessary land handover from the State Authorities the work could not be started. Stage II forest clearance on 417.073 ha is obtained by the project on 19.02.2025 itself. Land hand over from the State Authorities are underway.
Additional EC condition no. 1 in the EC letter Dated 15.01.2024, amended vide letter 13.08.2024	<i>Transportation of materials by rail/ conveyor belt with silo loading facility shall be implemented for 40 MTPA within one year and the coal should not be transported through road after 31.7.2025.</i>	<i>Transportation of materials by rail/ conveyor belt with SILO loading facility shall be implemented for <b>not less than 90% of the coal production.</b></i>	It is pertinent to mention here that although the condition provided by MoEF&CC did not link it to the CTO, SPCB has restricted the CTO validity until 31.07.2025 with the condition that "In addition to the

Reference	Existing	Proposed/ Amendment	Reason
			existing facility for 10.0 MTPA mechanised transportation system, PP shall install dedicated in-pit belt conveyor for 20 MTPA with silo loading system till railway siding for Transportation of extracted coal through rail & till such time minimum coal shall be transported by road till 31.07.2025.” An amendment in the EC conditions is required to ensure the further operation of this mine and to guarantee the continuous off-take of coal by the consumers to avoid stockpiling of coal and its degradation.

**25.3.6: Justification for delay in the installation of mechanized evacuation system and status of work completed as on date:** Project could not start implementation of Phase II Silo till date as the phase II Silo (20 MTPA) has dependency on the forest land of 15.68 ha out of required land of 21.44 ha. This 15.68 ha is part of 417.073 ha forest land for which Stage I FC was accorded on 27.12.2023. Without Stage II Forest clearance and the necessary land handover from the State Authorities the work could not be started. Stage II forest clearance on 417.073 ha is obtained by the project on 19.02.2025 itself. Land hand over from the State Authorities are underway.

**Activity wise timeline for proposed Phase II Silo (20 MTPA) with conveyor arrangement:**

S. No.	Activities	Timeline of completion/Anticipated Timelines
1	Floating of Tender	28.02.2025-Activity has been completed.
2	Bid Opening Date	25.04.2025-Activity has been completed.
3	Letter of Agreement/Award of work	31.08.2025
4	Completion of construction	31.08.2027 (730 days)
5	Trial run/Statutory clearances	31.12.2027

Note: Operation & Maintenance during DLP (Defect Liability period): 1825 days

**25.3.7: Current and proposed dispatch arrangement for coal:**

Current dispatch arrangement for coal:

S. No.	Quantity of Coal (MTPA)	Dispatch medium
1.	10	Through pipe conveyor to washery and further to railway siding 6 & 7 (all within the ML area)
2.	20	Through internal coal transportation road rail Siding no. 3, 6 & 7 within Mine Lease
3.	6.5	Local sale by road to the small consumers within 25-30 km
4.	3.5	To Odisha Power Generation Corporation (OPGC) by Rail through Charla Siding within Mine Lease
<b>Total</b>	<b>40</b>	
<b>Total transport through rail: 33.5 MTPA (83.75%)</b>		
<b>Total transport through road: 6.5 MTPA (16.25 %)</b>		

Proposed dispatch arrangement for coal:

S. No.	Quantity of Coal (MTPA)	Dispatch medium	Status/ Timelines
1a	10.0	Pipe conveyor, washery	In operation
1b		SILO Phase-I i.e 10 MTPA (Physical Progress-99.95%, Financial Progress-99.80%)	By 31.12.25
1c		Rail line connectivity for SILO is under construction required Stage-II forest clearance which was obtained on 19.02.2025 and Land hand over from the State Authorities are underway.	By 31.12.25 <sup>s</sup>
2	20.0	By conveyor and SILO Phase II i.e. 20 MTPA	By 31.12.27 <sup>s</sup>
3	4.0	Local sale by road through Automatic Truck Loading system (ATLS)	By 30.06.27*
4	3.5	To Odisha Power Generation Corporation (OPGC) by Rail through Charla Siding within Mine Lease	In operation
5	2.5	By rail Siding no. 6 & 7 within Mine Lease	In operation*
<b>Total</b>	<b>40.0</b>		
<b>Total coal transport through Silo/ Rail: 36 MTPA (90 %)</b>			
<b>Total coal transport through road sale: 4 MTPA (10 %)</b>			

<sup>s</sup>Silo and rail for 20.0 MTPA can be constructed only after land hand over from the State Authorities for the forest land for which Stage II FC obtained on 19.02.2025.

\* Further the 6.5 MTPA coal dispatch through road has been curtailed to 4 MTPA which will be done through Automatic Truck Loading system and rest 2.5 MTPA will be dispatched through railway siding 6&7.

**25.3.8: Traffic Impact Assessment:** Currently from Integrated Lakhanpur, Belpahar & Lilari OCP out of 40.0 MTPA, 6.5 MTPA is being dispatched through road sale. This road sale is being dispatched through a dedicated coal transportation road of 3.22 km, by-passing all villages. It ultimately joins to NH 49, through which it dispatches to different local consumers.

The CT road towards NH 49 is a Pavement Quality Concrete (PQC) Road of 3.22 km length having width of 9.0 m. This CT road is only for coal transportation and no other vehicle ply on this road. All the road sale trucks exit the mine from Wheel Wash Junction at Quarry 5. Approximately 950-1000 trucks of a capacity of 18.50 tons passes through Wheel Wash junction to NH 49 daily.

Traffic details of the coal transportation road are as follows:

S. No.	Particulars	Unit
1.	Maximum Coal dispatch to road sale per day	18500 Tonne
2.	Considering 18.5 T trucks maximum no. of trips	1000 trips
3.	As per traffic count peak movement of trucks per hour	100 trucks
4.	No. of Passenger Car Unit (PCU) per hour	370
5.	Considering up and down movement the total PCU per hour	740

The CT road towards NH 49 falls under **“Good”** category of level of service.

The current proposal is only for permission to continue dispatch of road sale by this dedicated Coal transportation road for the same quantity i.e. 6.5 MTPA which is currently dispatched. There is no increase in dispatch quantity. After completion of another SILO of 20.0 MTPA this road sale quantity will reduce to 4.0 MTPA.

#### Air Impact Assessment:

To assess the impact of road transportation towards NH 49 regular environmental monitoring is being done all around the ML area. Total 6 air monitoring station data has been incorporated. Air Quality Impact Prediction (AQIP) has also been done for road transportation to understand its contribution in ambient air quality. For road transportation towards NH 49 air modelling

has been done for four major criteria pollutants i.e. PM<sub>10</sub>, PM<sub>2.5</sub>, SO<sub>2</sub> and NO<sub>x</sub>. The results of the same is given in following table.

**Contribution of Road transport to NH 49 (Unit in µg/m<sup>3</sup>)**

S. No.	Monitoring Location	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>x</sub>	SO <sub>2</sub>	Distance in km from		Direction
						ML area	CT road	
1	Bartap	0.27	0.04	0.67	0.040	3.20	4.22	Up wind
2	Lakhanpur	1.23	0.18	4.39	0.266	3.50	3.50	Down wind
3	Barihapalli	0.30	0.05	0.38	0.023	2.60	5.50	Down wind
4	Gumadera	0.18	0.03	0.38	0.023	2.77	7.70	Up wind
5	Ramada	0.10	0.02	0.28	0.017	1.64	7.17	Down wind
6	Kadam	0.19	0.03	0.40	0.024	1.28	5.91	Cross wind

**Routine Environment data for Oct'24 to Dec'24 (Post-Monsoon)**

Sampling location	Parameters	PM <sub>10</sub>	PM <sub>2.5</sub>	SO <sub>2</sub>	NO <sub>x</sub>
Bartap	Min	30.00	65.00	10.23	10.84
	Max	58.00	93.00	18.36	36.77
	98 <sup>th</sup> percentile	56.50	92.50	18.25	36.68
Lakhanpur	Min	28.00	64.00	10.76	11.27
	Max	52.00	93.00	19.15	35.05
	98 <sup>th</sup> percentile	50.50	91.50	18.57	33.23
Barihapalli	Min	30.00	68.00	10.78	17.24
	Max	58.00	93.00	21.59	37.95
	98 <sup>th</sup> percentile	55.50	92.50	21.56	37.10
Gumadera	Min	33.00	70.00	10.25	10.40
	Max	53.00	92.00	18.77	39.11
	98 <sup>th</sup> percentile	52.52	90.56	18.52	38.57
Ramada	Min	33.00	68.00	10.93	14.58
	Max	54.00	95.00	20.34	41.53
	98 <sup>th</sup> percentile	51.50	94.00	20.06	40.43
Kadam	Min	32.00	65.00	9.80	11.92
	Max	55.00	92.00	20.63	38.71
	98 <sup>th</sup> percentile	54.00	91.50	20.52	37.79
<b>Standard</b>		<b>60.00</b>	<b>100.00</b>	<b>80.00</b>	<b>80.00</b>

From above table it can be observed that with proper control measures the contribution of PM<sub>10</sub>, PM<sub>2.5</sub>, SO<sub>2</sub> and NO<sub>x</sub> from road transportation to different receptors are very low. The details of existing control measures area as follows:

Existing Control measures for road transportation

**Details of existing control measures**

S. No.	Control Measures	Locations	Coverage/ Throw	Qty. (in Nos.)	Total cost incurred in Rs. Lakh
1	Fixed Sprinklers	Along the Coal transportation roads	20 m	137	1471.81
		Coal Stockyards	35- 40 m	23	
		Railway Sidings	35-40 m	141	

S. No.	Control Measures	Locations	Coverage/ Throw	Qty. (in Nos.)	Total cost incurred in Rs. Lakh
2	Truck Mounted Mobile Fog Cannons (40 m throw)	Haul Roads, Coal & OB Transportation Roads, Mine Faces and Loading/unloading Areas	40 m	15	2786.82
3	Fixed Fog Cannons (100 m throw)	Railway Sidings, Coal stockyards and Reclaim feeder	100 m	14	107.28
4	Mobile Water Tankers (9 kl – 28 kl)	Haul Roads, Coal & OB Transportation Roads, Mine Faces and Loading/unloading Areas	5-10 m	38	3073.19
5	Wheel Washing System	For road sale trucks and trucks going to Y curve siding	Wash the Wheels, bottom and sides of truck	03	174.94
6	Mist type instant shower system	For Coal loaded trucks going to Sidings and stockyards	8-10 m	03	22.32
7	Mechanical Road Sweepers	Public Transportation Road	3 m	03	354.09
8	Wind Barrier	At Railway Siding	1400 m length, 9 m Height		1317.84
	<b>Total</b>				<b>9308.29</b>

#### Noise Quality:

To assess the ambient noise quality 5 stations (1 in industrial area and 4 in residential area) have been selected. The data of the same is given in following table:

**Noise data (in dB (A))**

Sampling location	Parameters	Day Time	Night Time
BOCM work shop (Industrial)	Min	60.1	54.1
	Max	66.7	63.8
<b>Standard</b>		<b>75.0</b>	<b>70.0</b>
Bartap (Residential)	Min	53.6	41.2
	Max	54.3	44.6
Barihapalli (Residential)	Min	51.7	42.5
	Max	54.6	44.9
Gumadera (Residential)	Min	53.6	42.8
	Max	54.6	46.7
Ramada (Residential)	Min	53.4	39.4
	Max	54.7	43.8
<b>Standard</b>		<b>55.00</b>	<b>45.00</b>

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

**25.3.9: Details of Court Cases:** PP reported that there is no legal issue/violation w.r.t i) Environment (Protection) Act, ii) Air(P&CP) Act, Water (P&CP) Act, Forest Conservation Act, Wildlife Protection Act, CRZ Notification, MMDR Act, Factories Act. Further, there is no court case on the project. However, the PP submitted that, Integrated Lakhanpur-Belpahar-



Lilari OCP is an amalgamation project of three running projects i.e Lakhanpur OCP, Belpahar OCP and Lilari OCP. There is a violation case associated with the Belpahar OCP. For Belpahar OCP, a case has been registered for excess production beyond approved EC capacity under Section 15 & 16 of Environment Protection Act, 1986 at Sub-Divisional Judicial Magistrate, Jharsuguda vide ref. no. 2(C) CC NO-170 of 2013 and the case pending for trial. The next date of hearing for the same is awaited.

However, the amalgamation EC for the 3 mines including Belpahar OCP was accorded on 15.01.2024 after submitting the requisite documents prevailing at that time, pertaining to violation of the Belpahar OCP.

#### **25.3.10: Written Submission:**

Project proponent made the following written submission:

- 1. The timeline for award for Phase II Silo for which timeline is scheduled in Aug 2025 shall be curtailed and shall be awarded as early as possible.***

**Reply:** The bid for the Phase II Silo has been opened on 25-04-25. Technical scrutiny of the eligible bidders is under progress. PP commits to the early completion of evaluations and approvals for award of work for the Phase II Silo (20 MTPA) within Aug'2025.

- 2. PP to provide timeline and budget for installation of two (2) additional CAAQMS, one each in the core and buffer zone.***

**Reply:** PP will install two (2) additional CAAQMS, one each in the core and buffer zone, by 31-12-25. An estimated budget for the same is Rs. 3.0 Cr including 5-year AMC.

- 3. PP will provide an undertaking that the IB Washery rejects will be stored within the washery area, for which EC was granted on 30-03-17.***

**Reply:** An undertaking mentioning that all the rejects of IB Washery will be stored within the washery area for which EC was granted on 30-03-17.

- 4. Additional pollution control measures for Integrated Belpahar Lilari OCP, as the project is located into severely polluted area:***

**Reply:** Following are measure proposed:

Sl. No.	Pollution control measures	Quantity	Budget	Timeline
1	High Pressurized Mobile Water Tanker	5 nos.	10 Cr.	May 2026
2	Mist Type Fixed Sprinklers (40 m throw)	100 nos.	7 Cr.	May 2026
3	Fixed Fog Cannons (100 m Throw)	8 nos.	2.5 Cr.	March 2026
4	Road Sweeper	1 no.	2 Cr.	March 2026
5	Wind Barrier	700 meters	5 Cr.	September 2026

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

##### **25.3.11: The EAC noted the following:**

1. The instant proposal is for seeking amendment in Environment Clearance granted to M/s Mahanadi Coalfields Limited for Integrated Lakhanpur Belpahar Lilari Opencast Project

vide letter no. IA-J-11015/15/2019-IA. II (M), dated 15.01.2024 and further amendment vide letter dated 13.08.2024.

2. The ML area is located within the Severely Polluted Area having CEPI score of 66.35.
3. Total ML area is 4339.246 Ha. This involves the forest land of 958.695 Ha. PP has obtained Stage – II forest clearance on the entire forestland involved in the said project. Committee observed that the total broken forestland as on 31.03.2025 is 276.089 Ha and there is no violation of Van (Sanrakshan Evam Samvardhan) Adhiniyam, 1980.
4. The PP submitted the application for seeking amendment in the said EC through submitting an application on the Parivesh Portal on 15.04.2025 and the same is now placed before the EAC for appraisal in 25<sup>th</sup> EAC meeting held on 9<sup>th</sup> May 2025.
5. PP sought amendment in specific condition no. 1.3 and additional condition no. 1 of the EC dated 15.01.2024 which was further amended vide EC dated 13.08.2024. As per the amendment granted vide EC letter dated 13.08.2024, it was stipulated that, *“In addition to the existing facility for 10.0 MTPA mechanized transportation system, PP shall install dedicated in-pit belt conveyor for 20 MTPA with silo loading system till railway siding for Transportation of extracted coal through rail & till such time minimum coal shall be transported by road till 31.07.2025.” & “Transportation of materials by rail/ conveyor belt with silo loading facility shall be implemented for 40 MTPA within one year and the coal should not be transported through road after 31.7.2025.”*
6. Committee deliberated on the reasons for delay in installation of Phase – II silo along with the conveyor arrangement and observed that, since the installation of Phase – II silo was dependent on the stage – II forest clearance on 15.68 ha of forestland involved in the land on which silo is to be established, the project could not start with the installation process of the same. The stage – II forest clearance on the same has been accorded on 19.02.2025 and the land handover from the state authorities is underway. Committee observed that the floating of tender has been done and the work will be awarded by August 2025. Committee opined that the PP shall reduce the timeline for the same and shall start with the construction activities as early as possible.
7. Committee opined that the PP shall install 2 additional CAAQMS, one in core zone and another in buffer zone of ML area in consultation with SPCB and the same shall be connected to the SPCB server.
8. Another amendment sought by the PP is to allow transportation of 10% of the total coal production by road even after the Phase – II silo is in place. Committee Observed that there are certain MSMEs and other local consumers up to 100 km, who at times demand coal in certain quantity. However, the same does not exceed 10% of the total production anytime. Committee opined that the PP shall take adequate safeguards and mitigation measures to combat pollution arising due to the transportation of coal through road.
9. Committee deliberated on the traffic impact assessment carried out by the PP for the coal transportation road. Committee observed, that currently 33.5 MTPA of coal is being transported through rail, via 3 different railway sidings, all within the ML area. Remaining 6.5 MTPA of coal is being transported through road, to the small-scale consumers (all within 25-30 km). The coal is being transported through a 3.22 km dedicated coal transportation road, which ultimately join the NH – 49.

10. Committee deliberated on the air quality and noise quality near the coal transportation road and observed that the particulate matter 2.5 (PM<sub>2.5</sub>) is on the higher side of the permissible limits. Noise quality parameters are also observed to be on the higher side of the permissible limit. Committee deliberated on the already existing control measures being undertaken by the PP. Committee further opined, that the PP shall carryout dense plantation with the native species on both the sides of the coal transportation road, conveyor belt and within the villages within the ML area and in close vicinity of the ML area. The plantation activities shall be carried out on the onset of monsoon 2025 itself.
11. Committee observed that there is a washery within the ML area on which the EC was accorded by the PP vide EC letter dated 30.03.2017. Committee opined that PP shall store the washery rejects in the washery area only, as per the EC obtained for washery. PP submitted an undertaking this regard.

### Recommendations of the Committee:

**25.3.12:** In view of the foregoing and after detailed deliberations, the committee *recommended* the instant proposal for grant of following amendment in EC issued vide letter no. IA-J-11015/15/2019-IA. II (M), dated 15.01.2024 and further amendment vide letter dated 13.08.2024, for Integrated Lakhanpur Belpahar Lilari Opencast, as detailed below **subject to stipulation of following additional specific conditions and uploading of written submissions on PARIVESH portal.** Other terms and conditions prescribed in EC dated 15.01.2024 and 13.08.2024 shall remain unchanged:

Condition No. as per EC dated 15.01.2024, further amended vide EC dated 13.08.2024	Description as per approved EC	Recommendation of EAC
Specific condition no. 1.3 in the EC letter Dated 15.01.2024, amended vide letter 13.08.2024	<i>In addition to the existing facility for 10.0 MTPA mechanized transportation system, PP shall install dedicated in-pit belt conveyor for 20 MTPA with silo loading system till railway siding for Transportation of extracted coal through rail &amp; till such time minimum coal shall be transported by road till 31.07.2025."</i>	<p><b>Agreed</b></p> <p>Concerning the changes in specific condition no. 1.3 of EC dated 15.01.2024, and further amended vide EC amendment letter dated 13.08.2024, Committee recommended to amend the specific condition no. 1.3 as follows:</p> <p><i>"In addition to the existing facility for 10.0 MTPA mechanized transportation system, PP shall install dedicated in-pit belt conveyor for 20 MTPA with silo loading system till railway siding for Transportation of extracted coal through rail &amp; till such time minimum coal shall be transported by road till 31.12.2027."</i></p>
Additional EC condition no. 1 in the EC letter Dated 15.01.2024, amended vide letter 13.08.2024	<i>Transportation of materials by rail/ conveyor belt with silo loading facility shall be implemented for 40 MTPA within one year and the coal should not be transported through road after 31.7.2025.</i>	<p><b>Agreed</b></p> <p>Concerning the changes in additional condition no. 1 of EC dated 15.01.2024, and further amended vide EC amendment letter dated 13.08.2024, Committee recommended to amend the additional condition no. 1 as follows:</p> <p><i>"Transportation of materials by rail/ conveyor belt with silo loading facility</i></p>

Condition No. as per EC dated 15.01.2024, further amended vide EC dated 13.08.2024	Description as per approved EC	Recommendation of EAC
		<i>shall be implemented for 40 MTPA by 31.12.2027 and thereafter only 10% of the total production of coal shall be allowed to be transported through road to the local consumers, up to a distance of 100 km only."</i>

**Additional specific conditions:**

1. All the recommendations made in the Traffic Assessment Study Report regarding coal transportation by road shall be strictly adhered with. In addition to the already installed 2 nos of CAAQMS, project proponent shall install 2 more CAAQMS, one in core zone and another in buffer zone, in consultation with the SPCB and the same shall be connected to the SPCB server. The 2 additional CAAQMS shall be installed by December 2025 and compliance of the same shall be submitted to the Regional Office of MoEF&CC 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, proponent shall make sure that all the pollution control equipments are in good working condition and maintenance of those equipments is regularly carried out.
3. Ambient Air Quality (AAQ) and Noise quality data along the entire coal transportation route and conveyor belt shall be monitored and the data shall be submitted along with the six monthly compliance to the concerned Regional Office and also kept on the web portal of the company.
4. Additional air pollution control measures should be taken along roads being used for transport of coal including e-/CNG/LNG/PNG vehicles.
5. PP shall adopt wildlife protection measures including creating awareness among the drivers, sensitizing the drivers about prevention of road kills and handling of wildlife encounters while driving through forest areas and speed governors must be installed in the coal transporting trucks/dumpers.
6. Project proponent shall carry out three tier plantation along the coal transportation route and pipe conveyor. PP shall also do the gap plantation inside the ML area. Plantation activities shall be undertaken on the onset of the monsoon 2025. Apart from this, one year in advance, double of 1,27,000 plants will be planted before felling the same from the area. Atleast 15 % of the plants, which are proposed to be felled, should be transplanted at suitable place.  
Compliance in this regard shall be submitted along with the six monthly compliance to the concerned Regional Office and also kept on the web portal of the company.
7. Project proponent shall put in place the following additional environmental safeguards

in addition to the existing pollution control measures as the ML area is located within the Severely Polluted Area:

Sl. No.	Pollution control measures	Quantity	Budget	Timeline
1	High Pressurized Mobile Water Tanker	5 nos.	10 Cr.	May 2026
2	Mist Type Fixed Sprinklers (40 m throw)	100 nos.	7 Cr.	May 2026
3	Fixed Fog Cannons (100 m Throw)	8 nos.	2.5 Cr.	March 2026
4	Road Sweeper	1 no.	2 Cr.	March 2026
5	Wind Barrier	700 meters	5 Cr.	September 2026

8. Project proponent shall abide by all orders and judicial pronouncements, made from time to time by Sub-Divisional Judicial Magistrate, Jharsuguda in case no. 170 of 2013.

**Agenda No. 25.4:**

25.4: Arjuni East underground Coal Mine (area 1044.819 Ha having capacity 1.36 MTPA) by M/s Ultratech Cement Limited located at villages: Pahadiya, Dhaurai, Arjuni and Badwahi; District: Umaria; State: Madhya Pradesh – Amendment in Terms of Reference (ToR) – regarding.

**[Online Proposal no. IA/MP/CMIN/534294/2025; Consultant: JM EnviroNet; NABET/EIA/2326/RA 0308 valid up to 07/08/2026]**

**25.4.1:** M/s. UltraTech Cement Ltd. has made an online application vide proposal no. IA/MP/CMIN/534294/2025, dated 24.04.2025 seeking for amendment in terms of reference of Arjuni East Underground Coal Mine (area 1044.819 Ha having capacity 1.36 MTPA) located at Villages: Arjuni, Badwahi, Dhaurai & Pahadiya, Tehsil: Pali, District: Umaria, Madhya Pradesh.

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

**25.4.2: Details of previous approvals:** Earlier application for ToR was submitted vide proposal no. IA/MP/CMIN/468586/2024. The project was considered in EAC (coal mining) meeting and subsequently ToR was granted by MoEF&CC vide File No. IA-J-11011/236/2024-IA-II(M), dated 17.02.2025. The project proponent is seeking an amendment to the granted Terms of Reference (ToR) due to change in total land area break up.

**25.4.3: Details of amendment sought in ToR issued vide letter no. IA-J-11011/236/2024-IA-II(M), dated 17.02.2025:**

<b>Reference</b>	<b>As per ToR granted on 17.02.2025</b>	<b>Amendment Required</b>	<b>Reason for the Amendment</b>
Point No. 6 Env. Site Settings Subpoint Forest Area, Point No. 16 (iv)	The project involved total 498.463 ha of forest land (Reserve Forest: 498.179 ha + Revenue Forest: 0.284 ha). Application for Diversion of Forest Land of 498.493 ha as well as Surface Right for 29.455 ha has been submitted vide Proposal No. FP/MP/MIN/QRY/458491/2024, dated 15.05.2024.	The project involved total 652.905 ha of forest land (Reserve Forest: 499.06 ha + Revenue Forest: 153.845 ha). Application for Diversion of Forest Land of 652.905 ha as well as Surface Right for 24.191 ha has been submitted vide Proposal No. FP/MP/MIN/QRY/458491/2024, dated 15.05.2024 and Reply of EDS dated 15.02.2025.	Essential Details were sought in the Forest Clearance Application submitted on 15.02.2025, in this EDS one point is related to correction in total block area from 1048.146 ha to 1044.819 ha in uploaded KML. During site inspection, approved Forest Land were found 499.06 ha instead of 498.463 ha. Besides the involvement of 499.06 ha forest land, 178.143 ha revenue forest land is also included, accordingly total forest land is 499.06 ha + 178.143 ha = 677.203 ha. During the land confirmation, 41.585 ha land area of Notified Forest area is overlapping with the Revenue land. Out of which, 3.456 ha is Govt. Revenue Land, 13.830 ha is Private Land and 24.298 ha is Revenue Forest Land. After the overview of the revenue details like, khasra and map, it was observed that 24.298 ha of Revenue Forest Land is overlapping with the Reserve Forest Land. Therefore, to avoid the double calculation of 24.298 ha land, it is counted in Reserve Forest Land only and; hence, total forest land is 677.203 – 24.298 = 652.905 ha.

Reference	As per ToR granted on 17.02.2025	Amendment Required	Reason for the Amendment
Point No. 7 Mining Plan and Mine Closure Plan Subpoint No. (vi)	Total block area is 1044.819 ha; out of which, 231.454 ha is Govt. Land, 314.902 ha is Private Land and 498.463 ha is Forest Land. At conceptual stage, 9.25 ha area to be developed under greenbelt/plantation within & around facilities. 19.045 ha is proposed for roads & infrastructure, 0.700 for UG entry, 0.250 ha for Top Soil Dump, 0.210 ha for Settling Pond. 1015.364 ha area will remain undisturbed for mining right for underground mining.	Total block area is 1044.819 ha; out of which, 102.961 ha is Govt. Land, 288.953 ha is Private Land and 652.905 ha is Forest Land. At conceptual stage, 8.665 ha area to be developed under greenbelt/plantation within & around facilities. 14.656 ha is proposed for roads & infrastructure, 0.540 for UG entry, 0.115 ha for Top Soil Dump, 0.215 ha for Settling Pond. 1020.628 ha area will remain undisturbed for mining right for underground mining.	Due to change in Forest Land, break-up of total block area has been revised, from 231.454 ha Govt. Land, 314.902 ha Private Land and 498.463 ha Forest Land, to 102.961 ha Govt. Land, 288.953 ha Private Land and 652.905 ha Forest Land. Earlier, at conceptual stage total surface land area required for Infrastructures setup was 29.455 ha which will be reduced up to the 24.191 ha and accordingly, post mining land use has been changed.

**25.4.4: Details of revised Mine Plan and Mine Closure Plan and the revised pre-feasibility report:** PP submitted that Minor updations/ changes in Approved Mining Plan & Mine Closure Plan of Arjuni East Coal Mine under Para 2.9 (b)- Revision of Mining Plan, Mining Plan Guidelines for Coal & Lignite Mine 2025, dated 31.01.2025, Revision-01, has been done at all respective places in the Mining Plan and approval regarding the same updations has been obtained from the Board of Director, dated 23.04.2025.

PP has also submitted the revised pre-feasibility report with the aforesaid changes. Following are the changes proposed in the ToR issued vide letter dated 17.02.2025:

S. No.	Reference of the ToR dated 17.02.2025	Details as per ToR dated 17.02.2025	Proposed changes
1.	Subject	Arjuni East underground Coal Mine (area 1044.819 Ha having capacity 2.04 MTPA) by M/s Ultratech Cement Limited, located at villages: Pahadiya, Dhaurai, Arjuni and Badwahi; District: Umaria; State: Madhya Pradesh – Grant of ToR-regarding	Arjuni East underground Coal Mine (area 1044.819 Ha having capacity 1.36 MTPA) by M/s Ultratech Cement Limited, located at villages: Pahadiya, Dhaurai, Arjuni and Badwahi; District: Umaria; State: Madhya Pradesh – Grant of ToR-regarding
2.	Point no. 6; Environmental Site Settings; Forest Area	The project involved total 498.463 ha of forest land (Reserve Forest- 498.179 Ha + Revenue Forest – 0.284 Ha). Application for Diversion of Forest Land of 498.493 ha as well as Surface Right for 29.455 ha has been submitted vide Proposal No. FP/MP/MIN/QRY/458491/2024, dated 15.05.2024. PP submitted that there is no violation of the Van (Sanrakshan Evam Samvardhan) Adhiniyam, 1980.	The project involved total 652.905 ha of forest land (Reserve Forest: 499.06 ha + Revenue Forest: 153.845 ha). Application for Diversion of Forest Land of 652.905 ha as well as Surface Right for 24.191 ha has been submitted vide Proposal No. FP/MP/MIN/QRY/458491/2024, dated 15.05.2024 and reply of EDS dated 15.02.2025.
3.	Point no. 7; Mining Plan and Mine Closure Plan; vi	Total block area is 1044.819 ha; out of which, 231.454 ha is Govt. Land, 314.902 ha is Private Land and 498.463 ha is Forest Land. At conceptual stage, 9.25 ha area to be developed under greenbelt/plantation	Total block area is 1044.819 ha; out of which, 102.961 ha is Govt. Land, 288.953 ha is Private Land and 652.905 ha is Forest Land.

S. N o.	Reference of the ToR dated 17.02.2025	Details as per ToR dated 17.02.2025					Proposed changes				
		within & around facilities. 19.045 is proposed for Roads & Infrastructure, 0.700 for UG entry, 0.250 for Top Soil Dump, 0.210 Ha for Settling Pond. 1015.364 area will remain undisturbed or mining right for underground mining.					At conceptual stage, 8.665 ha area to be developed under greenbelt/plantation within & around facilities. 14.656 ha is proposed for roads & infrastructure, 0.540 for UG entry, 0.115 ha for Top Soil Dump, 0.215 ha for Settling Pond. 1020.628 ha area will remain undisturbed for mining right for underground mining.				
4.	Point no. 7; Mining Plan and Mine Closure Plan; vii; Details of land use; A. Pre mining:	S. N o.	Land Use	Withi n ML Area (Ha)	Outsi de ML Area (Ha)	Total (Ha)	S. N o.	Land Use	Withi n ML Area (Ha)	Outsi de ML Area (Ha)	Total (Ha)
		1.	Agricultur al Land	310.74 0	-	310.74 0	1.	Agricultur al Land	284.79 1	-	284.79 1
		2.	Forest Land	498.46 3	-	498.46 3	2.	Forest Land	652.90 5	-	652.90 5
		3.	Waste Land	0	-	0	3.	Waste Land	0	-	0
		4.	Grazing Land	9.268	-	9.268	4.	Grazing Land	9.268	-	9.268
		5.	Surface Water Bodies	2.222	-	2.222	5.	Surface Water Bodies	2.222	-	2.222
		6.	Settlement s	12.983	-	12.983	6.	Settlement s	12.983	-	12.983
		7.	Other (Barren Land, Roads/Oth er Infrastruct ure, Reserve, Other)	211.14 3	-	211.14 3	7.	Other (Barren Land, Roads/Oth er Infrastruct ure, Reserve, Other)	82.65	-	82.65
		Total		1044.8 19	-	1044.8 19	Total		1044.8 19	-	1044.8 19
5.	Point no. 7; Mining Plan and Mine Closure Plan; vii; Details of land use; B. Post mining:	S. N o.	Type	Total Area	Reclai med Area	Un-claim ed Area	S. N o.	Type	Total Area	Reclai med Area	Un-claim ed Area
		1.	Excavation/ Quarry Area:	-	-	-	1.	Excavation/ Quarry Area:	-	-	-
			(a) Backfilled Areas	-	-	-		(a) Backfilled Areas	-	-	-
			(b) Excavated Void	0.700	0.700	-		(b) Excavated Void	0.540	0.540	-
		2.	External Dump	-	-	-	2.	External Dump	-	-	-
		3.	Safety Zone	-	-	-	3.	Safety Zone	-	-	-
		4.	Road & Infrastructur e	19.04 5	19.045	-	4.	Road & Infrastructure	14.65 6	14.656	-
		5.	Garland Drains	-	-	-	5.	Garland Drains	-	-	-
		6.	Embankment	-	-	-	6.	Embankment	-	-	-
		7.	Others (UG Entry, Settling Pond , Green Belt/ Plantation, Undisturbed OR Mining	1025. 074	9.71	1015. 364	7.	Others (UG Entry, Settling Pond , Green Belt/Plantati on, Undisturbed OR Mining	1029. 623	8.995	1020. 628



S. N o.	Reference of the ToR dated 17.02.2025	Details as per ToR dated 17.02.2025				Proposed changes			
			Right For UG)				Right For UG)		
		Total	1044.819	1044.819	1015.364	Total	1044.819	24.191	1020.628
6.	Point no. 7; Mining Plan and Mine Closure Plan; ix; Reclamation	PP reported that greenbelt is proposed to be developed in 9.25 ha within and around the facilities. 23,125 nos of saplings @2500 per ha are proposed to be planted. 19.045 is proposed for Roads & Infrastructure, 0.700 for UG entry, 0.250 for Top Soil Dump, 0.210 Ha for Settling Pond will be reclaimed and Afforestation shall be done as per Approved Mine Closure Plan in Consultation with the Forest Dept.				PP reported that greenbelt is proposed to be developed in 8.665 ha area within and around the facilities. 21663 nos of saplings @2500 per ha are proposed to be planted. 14.656 ha is proposed for roads & infrastructure, 0.540 for UG entry, 0.115 ha for Top Soil Dump, 0.215 ha for Settling Pond. 1020.628 ha area will remain undisturbed for mining right for underground mining.			
7.	Point no. 10; Details of Power Requirement and diversion of High-Tension/Transmission Line:	PP submitted that Power requirement of the mine is 2 x 5 MVA, 33KV/6.6kV substation has been envisaged which will receive power at 33 KV by a double circuit overhead feeder from MPPKVVCL's substation. The substation is proposed to be located near the return air shaft. The power will be sourced from Singhpur substation of MPPKVVCL Shahdol of East DISCOM, Govt. of MP. Further, no High-Tension/Transmission Line is proposed to be diverted.				PP submitted that Power requirement of the mine is 10 MW and a 2X 10 MVA, 33KV/6.6kV substation has been proposed which will receive power at 33 KV by a double circuit overhead feeder from MPPKVVCL's substation. The substation is proposed to be located near the inclines. The power will be sourced from Singhpur substation of MPPKVVCL Shahdol of East DISCOM, Govt. of MP. Further, no High-Tension/Transmission Line is proposed to be diverted.			
8.	Point no. 12; Plantation:	PP submitted that greenbelt is proposed to be developed in 9.25 ha area with density of 2500 nos. of plants per ha. Local and fruit bearing species are proposed to be planted in consultation with the forest department.				PP submitted that greenbelt is proposed to be developed in 8.665 ha with a density of 2500 nos. of plants per ha. Local and fruit bearing species are proposed to be planted in consultation with the forest department.			
9.	Deliberations and Observation of the Committee: 16 (i)	The instant greenfield proposal is for grant of Terms of Reference (ToR) to Arjuni East Coal Mine, (Sohagpur Coal Field) with <b>rated capacity of 1.36 MTPA and peak rated capacity of 2.04 MTPA</b> in an area of 1044.819 ha located at Villages: Arjuni, Badwahi, Dhaurai & Pahadiya, Tehsil: Pali, District: Umaria, Madhya Pradesh.				The instant greenfield proposal is for grant of Terms of Reference (ToR) to Arjuni East Coal Mine, (Sohagpur Coal Field) with <b>production capacity of 1.36 MTPA</b> in an area of 1044.819 ha located at Villages: Arjuni, Badwahi, Dhaurai & Pahadiya, Tehsil: Pali, District: Umaria, Madhya Pradesh.			
10.	Deliberations and Observation of the Committee: 16 (iv)	The project involves total 498.463 ha of forest land. Application for Diversion of Forest Land of 498.493 ha as well as Surface Right for 29.455 ha has been submitted vide Proposal No. FP/MP/MIN/QRY/458491/2024, dated 15.05.2024.				The project involves total 652.905 ha of forest land. Application for Diversion of Forest Land of 652.905 ha as well as Surface Right for 24.191 ha has been submitted vide Proposal No. FP/MP/MIN/QRY/458491/2024, dated 15.05.2024.			
11.	Deliberations and Observation of the Committee: 16 (ix)	PP submitted that Power requirement of the mine is 2 x 5 MVA, 33KV/6.6kV substation has been envisaged which will receive power at 33 KV by a double circuit overhead feeder from MPPKVVCL's substation. The substation is proposed to be located near the return air shaft. The power				PP submitted that Power requirement of the mine is 10 MW and a 2X 10 MVA, 33KV/6.6kV substation has been proposed which will receive power at 33 KV by a double circuit overhead feeder from MPPKVVCL's substation. The substation is proposed to be located near the inclines.			

S. N o.	Reference of the ToR dated 17.02.2025	Details as per ToR dated 17.02.2025	Proposed changes
		will be sourced from Singhpur substation of MPPKVVCL Shahdol of East DISCOM, Govt. of MP. Further, no High-Tension/Transmission Line is proposed to be diverted.	The power will be sourced from Singhpur substation of MPPKVVCL Shahdol of East DISCOM, Govt. of MP. Further, no High-Tension/Transmission Line is proposed to be diverted.
12.	Deliberations and Observation of the Committee: 16 (xiv)	Greenbelt is proposed to be developed in 9.25 ha within and around the facilities. 23,125 nos of saplings @2500 per ha are proposed to be planted. An area of 19.045 ha is proposed for Roads & Infrastructure, 0.700 ha for UG entry, 0.250 ha for Top Soil Dump, 0.210 Ha for Settling Pond will be reclaimed and Afforestation shall be done as per Approved Mine Closure Plan in Consultation with the Forest Dept.	Greenbelt is proposed to be developed in 8.665 ha within and around the facilities. 21,663 nos of saplings @2500 per ha are proposed to be planted. An area of 14.656 ha is proposed for Roads & Infrastructure, 0.540 ha for UG entry, 0.115 ha for Top Soil Dump, 0.215 Ha for Settling Pond will be reclaimed and Afforestation shall be done as per Approved Mine Closure Plan in Consultation with the Forest Dept.
13.	Point no. 17	Based on the discussion held and the documents submitted the EAC (coal) recommended the proposal for the grant of Terms of Reference (TOR) to Arjuni East Coal Mine (area 1044.819 Ha having capacity 2.04 MTPA) by M/s UltraTech Cement Limited with Public Consultation (Public Hearing and Written submission) under EIA Notification, 2006 (as amended) with the specific TOR conditions in addition to generic TOR (Annexure-1).	Based on the discussion held and the documents submitted the EAC (coal) recommended the proposal for the grant of Terms of Reference (TOR) to Arjuni East Coal Mine (area 1044.819 Ha having capacity 1.36 MTPA) by M/s UltraTech Cement Limited with Public Consultation (Public Hearing and Written submission) under EIA Notification, 2006 (as amended) with the specific TOR conditions in addition to generic TOR (Annexure-1).
14.	Point no. 18	In accordance with the provisions contained in the Environment Impact Assessment (EIA) Notification, 2006 & further amendments thereto and based on the recommendations of the EAC, the Ministry hereby accords Terms of Reference (ToR) to Arjuni East underground Coal Mine (area 1044.819 Ha having capacity 2.04 MTPA) by M/s Ultratech Cement Limited located at villages: Pahadiya, Dhaurai, Arjuni and Badwahi; District: Umaria; State: Madhya Pradesh with the specific ToRs in addition to generic/standard ToR as per Annexure-1.	In accordance with the provisions contained in the Environment Impact Assessment (EIA) Notification, 2006 & further amendments thereto and based on the recommendations of the EAC, the Ministry hereby accords Terms of Reference (ToR) to Arjuni East underground Coal Mine (area 1044.819 Ha having capacity 1.36 MTPA) by M/s Ultratech Cement Limited located at villages: Pahadiya, Dhaurai, Arjuni and Badwahi; District: Umaria; State: Madhya Pradesh with the specific ToRs in addition to generic/standard ToR as per Annexure-1.

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

**Observations and deliberation of the Committee:**

**25.4.6: The EAC noted the following:**

1. The instant proposal is for granting amendment in terms of reference obtained by M/s UltraTech Cement Ltd. for Arjuni East Underground Coal Mine vide File No. IA-J-11011/236/2024-IA-II(M), dated 17.02.2025.

2. The ToR was granted for Arjuni East Underground Coal Mine, for the peak rated production capacity of 2.04 MTPA in the ML area of 1044.819 Ha.
3. The mine plan and the mine closure plan for the said mine is approved for the capacity of 1.36 MTPA/2.04 MTPA (targeted/ peak), within the lease area of 1044.819 Ha, by the Ministry of Coal vide letter dated 12.01.2024.
4. The instant proposal is for seeking amendment due change in total land area break up.
5. Committee deliberated on the same and observed that during the forest clearance process, an EDS was raised regarding correction in the total block area and during site inspection it was observed that Forest Land were found 499.06 ha instead of 498.463 ha. Along with this, it was observed that, besides the involvement of 499.06 ha forest land, 178.143 ha revenue forest land is also included, accordingly total forest land is 499.06 ha + 178.143 ha = 677.203 ha.
6. PP submitted that due to change in the forestland break-up of total block area has been revised, from 231.454 ha Govt. Land, 314.902 ha Private Land and 498.463 ha Forest Land, to 102.961 ha Govt. Land, 288.953 ha Private Land and 652.905 ha Forest Land.
7. Committee further deliberated on the other changes that will take place in the ToR granted vide letter dated 17.02.2025 and observed the changes mentioned in para 25.4.4 above.
8. Committee deliberated on the location of mine facilities due to change in land break up and observed that the location of mine facilities will remain same and there is no change in the location of mine facilities.
9. Another amendment sought by the PP is in the production capacity for which ToR is granted. The ToR was granted for 2.04 MTPA of coal production, which was approved as peak rated capacity in the approved mine plan and mine closure plan. However, as per the calendar plan submitted by the PP, it is observed that the maximum production planed at anytime from the said mine, does not exceed 1.36 MTPA.
10. Committee further deliberated on the revised mine plan and mine closure plan and the pre – feasibility report, submitted the same envisaging the changes mentioned above. Committee observed that the mine plan and mine closure plan is approved under Para 2.9 (b)- Revision of Mining Plan, Mining Plan Guidelines for Coal & Lignite Mine 2025, dated 31.01.2025, Revision-01 and same has been approved by the Board of Directors of on 23.04.2025.

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

**25.4.7:** In view of the foregoing and after detailed deliberations, the committee *recommended* the instant proposal for grant of following amendment in Terms of Reference granted vide letter no. IA-J-11011/236/2024-IA-II(M), dated 17.02.2025. All other Terms of References given in the letter dated 17.02.2025 shall remain unchanged:

Reference of the ToR dated 17.02.2025	Details as per ToR dated 17.02.2025	Recommendation of the EAC
Subject	Arjuni East underground Coal Mine (area 1044.819 Ha having <b>capacity 2.04 MTPA</b> ) by M/s Ultratech Cement Limited, located at villages: Pahadiya, Dhaurai, Arjuni and Badwahi; District: Umaria; State: Madhya Pradesh – Grant of ToR-regarding	Arjuni East underground Coal Mine (area 1044.819 Ha having <b>capacity 1.36 MTPA</b> ) by M/s Ultratech Cement Limited, located at villages: Pahadiya, Dhaurai, Arjuni and Badwahi; District: Umaria; State: Madhya Pradesh – Grant of ToR-regarding

Reference of the ToR dated 17.02.2025	Details as per ToR dated 17.02.2025					Recommendation of the EAC				
Point no. 6; Environmental Site Settings; Forest Area	<b>The project involved total 498.463 ha of forest land (Reserve Forest- 498.179 Ha + Revenue Forest – 0.284 Ha). Application for Diversion of Forest Land of 498.493 ha as well as Surface Right for 29.455 ha has been submitted vide Proposal No. FP/MP/MIN/QRY/458491/2024, dated 15.05.2024. PP submitted that there is no violation of the Van (Sanrakshan Evam Samvardhan) Adhiniyam, 1980.</b>					<b>The project involved total 652.905 ha of forest land (Reserve Forest: 499.06 ha + Revenue Forest: 153.845 ha). Application for Diversion of Forest Land of 652.905 ha as well as Surface Right for 24.191 ha has been submitted vide Proposal No. FP/MP/MIN/QRY/458491/2024, dated 15.05.2024 and reply of EDS dated 15.02.2025. PP submitted that there is no violation of the Van (Sanrakshan Evam Samvardhan) Adhiniyam, 1980.</b>				
Point no. 7; Mining Plan and Mine Closure Plan; vi	Total block area is 1044.819 ha; out of which, <b>231.454 ha is Govt. Land, 314.902 ha is Private Land and 498.463 ha is Forest Land. At conceptual stage, 9.25 ha area to be developed under greenbelt/plantation within &amp; around facilities. 19.045 is proposed for Roads &amp; Infrastructure, 0.700 for UG entry, 0.250 for Top Soil Dump, 0.210 Ha for Settling Pond. 1015.364 area will remain undisturbed or mining right for underground mining.</b>					Total block area is 1044.819 ha; out of which, <b>102.961 ha is Govt. Land, 288.953 ha is Private Land and 652.905 ha is Forest Land. At conceptual stage, 8.665 ha area to be developed under greenbelt/plantation within &amp; around facilities. 14.656 ha is proposed for roads &amp; infrastructure, 0.540 for UG entry, 0.115 ha for Top Soil Dump, 0.215 ha for Settling Pond. 1020.628 ha area will remain undisturbed for mining right for underground mining.</b>				
Point no. 7; Mining Plan and Mine Closure Plan; vii; Details of land use; A. Pre mining:	S. No.	Land Use	Within ML Area (Ha)	Outside ML Area (Ha)	Total (Ha)	S. No.	Land Use	Within ML Area (Ha)	Outside ML Area (Ha)	Total (Ha)
	1.	Agricultural Land	310.740	-	310.740	1.	Agricultural Land	284.791	-	284.791
	2.	Forest Land	498.463	-	498.463	2.	Forest Land	652.905	-	652.905
	3.	Waste Land	0	-	0	3.	Waste Land	0	-	0
	4.	Grazing Land	9.268	-	9.268	4.	Grazing Land	9.268	-	9.268
	5.	Surface Water Bodies	2.222	-	2.222	5.	Surface Water Bodies	2.222	-	2.222
	6.	Settlements	12.983	-	12.983	6.	Settlements	12.983	-	12.983
	7.	Other (Barren Land, Roads/Other Infrastructure, Reserve, Other)	211.143	-	211.143	7.	Other (Barren Land, Roads/Other Infrastructure, Reserve, Other)	82.65	-	82.65
	<b>Total</b>		<b>1044.819</b>	<b>-</b>	<b>1044.819</b>	<b>Total</b>		<b>1044.819</b>	<b>-</b>	<b>1044.819</b>
	S. No.	Type	Total Area	Reclaimed Area	Unclaimed Area	S. No.	Type	Total Area	Reclaimed Area	Unclaimed Area
Point no. 7; Mining Plan and Mine Closure Plan; vii; Details of land use; B. Post mining:	1.	Excavation/Quarry Area:	-	-	-	1.	Excavation/Quarry Area:	-	-	-
		(a) Backfilled Areas	-	-	-		(a) Backfilled Areas	-	-	-
		(b) Excavated Void	0.540	0.540	-		(b) Excavated Void	0.540	0.540	-

Reference of the ToR dated 17.02.2025	Details as per ToR dated 17.02.2025				Recommendation of the EAC					
		(b) Excavated Void	0.700	0.700	-	2.	External Dump	-	-	-
	2.	External Dump	-	-	-	3.	Safety Zone	-	-	-
	3.	Safety Zone	-	-	-	4.	Road & Infrastructure	14.656	14.656	-
	4.	Road & Infrastructure	19.045	19.045	-	5.	Garland Drains	-	-	-
	5.	Garland Drains	-	-	-	6.	Embankment	-	-	-
	6.	Embankment	-	-	-	7.	Others (UG Entry, Settling Pond, Green Belt/Plantation, Undisturbed OR Mining Right For UG)	1029.623	8.995	1020.628
	7.	Others (UG Entry, Settling Pond, Green Belt/Plantation, Undisturbed OR Mining Right For UG)	1025.074	9.71	1015.364					
	Total		1044.819	1044.819	1015.364	Total		1044.819	24.191	1020.628
Point no. 7; Mining Plan and Mine Closure Plan; ix; Reclamation	PP reported that <b>greenbelt is proposed to be developed in 9.25 ha within and around the facilities. 23,125 nos of saplings @2500 per ha are proposed to be planted. 19.045 is proposed for Roads &amp; Infrastructure, 0.700 for UG entry, 0.250 for Top Soil Dump, 0.210 Ha for Settling Pond</b> will be reclaimed and Afforestation shall be done as per Approved Mine Closure Plan in Consultation with the Forest Dept.				PP reported that <b>greenbelt is proposed to be developed in 8.665 ha area within and around the facilities. 21663 nos of saplings @2500 per ha are proposed to be planted. 14.656 ha is proposed for roads &amp; infrastructure, 0.540 for UG entry, 0.115 ha for Top Soil Dump, 0.215 ha for Settling Pond</b> will be reclaimed and Afforestation shall be done as per Approved Mine Closure Plan in Consultation with the Forest Dept.					
Point no. 10; Details of Power Requirement and diversion of High-Tension/Transmission Line:	PP submitted that Power requirement of the mine is <b>2 x 5 MVA, 33KV/6.6kV substation</b> has been envisaged which will receive power at 33 KV by a double circuit overhead feeder from MPPKVVCL's substation. The substation is proposed to be located <b>near the return air shaft</b> . The power will be sourced from Singhpur substation of MPPKVVCL Shahdol of East DISCOM, Govt. of MP. Further, no High-Tension/Transmission Line is proposed to be diverted.				PP submitted that Power requirement of the mine is <b>10 MW and a 2X 10 MVA, 33KV/6.6kV substation</b> has been proposed which will receive power at 33 KV by a double circuit overhead feeder from MPPKVVCL's substation. The substation is proposed to be located <b>near the inclines</b> . The power will be sourced from Singhpur substation of MPPKVVCL Shahdol of East DISCOM, Govt. of MP. Further, no High-Tension/Transmission Line is proposed to be diverted.					
Point no. 12; Plantation:	PP submitted that greenbelt is proposed to be developed in <b>9.25 ha area</b> with density of 2500 nos. of plants per ha. Local and fruit bearing species are proposed to be planted in consultation with the forest department.				PP submitted that greenbelt is proposed to be developed in <b>8.665 ha</b> with a density of 2500 nos. of plants per ha. Local and fruit bearing species are proposed to be planted in consultation with the forest department.					
Deliberations and Observation of the Committee: 16 (i)	The instant greenfield proposal is for grant of Terms of Reference (ToR) to Arjuni East Coal Mine, (Sohagpur Coal Field) with <b>rated capacity of 1.36 MTPA and peak rated capacity of 2.04 MTPA</b> in an area of 1044.819 ha located at Villages: Arjuni, Badwahi, Dhaurai & Pahadiya, Tehsil: Pali, District: Umaria, Madhya Pradesh.				The instant greenfield proposal is for grant of Terms of Reference (ToR) to Arjuni East Coal Mine, (Sohagpur Coal Field) with <b>production capacity of 1.36 MTPA</b> in an area of 1044.819 ha located at Villages: Arjuni, Badwahi, Dhaurai & Pahadiya, Tehsil: Pali, District: Umaria, Madhya Pradesh.					
Deliberations and	The project involves total <b>498.463 ha of forest land. Application for Diversion of</b>				The project involves total <b>652.905 ha of forest land. Application for Diversion of</b>					

Reference of the ToR dated 17.02.2025	Details as per ToR dated 17.02.2025	Recommendation of the EAC
Observation of the Committee: 16 (iv)	<b>Forest Land of 498.493 ha as well as Surface Right for 29.455 ha</b> has been submitted vide Proposal No. FP/MP/MIN/QR/458491/2024, dated 15.05.2024.	<b>Forest Land of 652.905 ha as well as Surface Right for 24.191 ha</b> has been submitted vide Proposal No. FP/MP/MIN/QR/458491/2024, dated 15.05.2024 and reply of EDS dated 15.02.2025.
Deliberations and Observation of the Committee: 16 (ix)	PP submitted that Power requirement of the mine is 2 x 5 MVA, 33KV/6.6kV substation has been envisaged which will receive power at 33 KV by a double circuit overhead feeder from MPPKVVCL's substation. The substation is proposed to be located <b>near the return air shaft</b> . The power will be sourced from Singhpur substation of MPPKVVCL Shahdol of East DISCOM, Govt. of MP. Further, no High-Tension/Transmission Line is proposed to be diverted.	PP submitted that Power requirement of the mine is 10 MW and a 2X 10 MVA, 33KV/6.6kV substation has been proposed which will receive power at 33 KV by a double circuit overhead feeder from MPPKVVCL's substation. The substation is proposed to be located <b>near the inclines</b> . The power will be sourced from Singhpur substation of MPPKVVCL Shahdol of East DISCOM, Govt. of MP. Further, no High-Tension/Transmission Line is proposed to be diverted.
Deliberations and Observation of the Committee: 16 (xiv)	Greenbelt is proposed to be developed in <b>9.25 ha within and around the facilities. 23,125</b> nos of saplings @2500 per ha are proposed to be planted. An area of <b>19.045 ha is proposed for Roads &amp; Infrastructure, 0.700 ha for UG entry, 0.250 ha for Top Soil Dump, 0.210 Ha for Settling Pond</b> will be reclaimed and Afforestation shall be done as per Approved Mine Closure Plan in Consultation with the Forest Dept.	Greenbelt is proposed to be developed in <b>8.665 ha within and around the facilities. 21,663</b> nos of saplings @2500 per ha are proposed to be planted. An area of <b>14.656 ha is proposed for Roads &amp; Infrastructure, 0.540 ha for UG entry, 0.115 ha for Top Soil Dump, 0.215 Ha for Settling Pond</b> will be reclaimed and Afforestation shall be done as per Approved Mine Closure Plan in Consultation with the Forest Dept.
Point no. 17	Based on the discussion held and the documents submitted the EAC (coal) recommended the proposal for the grant of Terms of Reference (TOR) to Arjuni East Coal Mine (area 1044.819 Ha having capacity <b>2.04 MTPA</b> ) by M/s UltraTech Cement Limited with Public Consultation (Public Hearing and Written submission) under EIA Notification, 2006 (as amended) with the specific TOR conditions in addition to generic TOR (Annexure-1).	Based on the discussion held and the documents submitted the EAC (coal) recommended the proposal for the grant of Terms of Reference (TOR) to Arjuni East Coal Mine (area 1044.819 Ha having capacity <b>1.36 MTPA</b> ) by M/s UltraTech Cement Limited with Public Consultation (Public Hearing and Written submission) under EIA Notification, 2006 (as amended) with the specific TOR conditions in addition to generic TOR (Annexure-1).
Point no. 18	In accordance with the provisions contained in the Environment Impact Assessment (EIA) Notification, 2006 & further amendments thereto and based on the recommendations of the EAC, the Ministry hereby accords Terms of Reference (ToR) to Arjuni East underground Coal Mine (area 1044.819 Ha having capacity <b>2.04 MTPA</b> ) by M/s Ultratech Cement Limited located at villages: Pahadiya, Dhaurai, Arjuni and Badwahi; District: Umaria; State: Madhya Pradesh with the specific ToRs in addition to generic/standard ToR as per Annexure-1.	In accordance with the provisions contained in the Environment Impact Assessment (EIA) Notification, 2006 & further amendments thereto and based on the recommendations of the EAC, the Ministry hereby accords Terms of Reference (ToR) to Arjuni East underground Coal Mine (area 1044.819 Ha having capacity <b>1.36 MTPA</b> ) by M/s Ultratech Cement Limited located at villages: Pahadiya, Dhaurai, Arjuni and Badwahi; District: Umaria; State: Madhya Pradesh with the specific ToRs in addition to generic/standard ToR as per Annexure-1.

**Additional specific ToR:**

1. 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.
2. An irrigated plantation scheme along with watershed management should be submitted, for undisturbed forest land out of the 652.905 forest land

**Agenda No. 25.5:**

25.5: Amelia Coal Mine Project (ML area: 1180.2 Ha having capacity 5.6 MTPA) by M/s **THDC India Limited** located at Villages: Pidarwah; Tehsil: Singrauli; District: Singrauli; State: Madhya Pradesh – **Amendment in Environment Clearance – regarding.**

**[Online Proposal no. IA/MP/CMIN/438322/2023; Consultant: M/s. Srushti Seva Pvt. Ltd., NABET/EIA/21-24/SA-0229, valid up to 12.08.2025]**

**25.5.1:** M/s THDC India Limited has made an online application vide proposal no. IA/MP/CMIN/438322/2023 dated 11.09.2023 seeking for amendment in Environment Clearance granted to Amelia Coal Mine Project (area 1180.2 Ha having production capacity of 5.6 MTPA) located at village Pidarwah, District Singrauli of State Madhya Pradesh.

The application submitted vide proposal dated 11.09.2023 was for seeking amendment in specific condition no.(xi) of the Environmental Clearance granted by MoEF&CC vide its letter no. J-11015/310/2006-IA.II(M) dated 03.08.2021. The said proposal was appraised in 50<sup>th</sup> EAC meeting held on 27.09.2023 and was deferred for want of additional information. PP submitted the requisite information on 02.04.2024 and the project was placed in the 11<sup>th</sup> EAC meeting held on 8-9<sup>th</sup> May 2024, wherein again the proposal was deferred for want of additional information. Thereafter, the PP submitted the requisite information on 14.10.2024 along with the request to seek additional amendment in specific conditions no.(v) and condition no.(vii) of the Environmental Clearance granted by MoEF&CC vide its letter no. J-11015/310/2006-IA.II(M) dated 03.08.2021. The said proposal was again placed in 18<sup>th</sup> EAC Meeting held on 27.11.2024 and was again deferred for additional information. PP submitted the requisite information on 26.04.2025. Now, the above-mentioned proposal is placed in 25<sup>th</sup> EAC meeting held on 09/05/2025 for consideration.

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

**25.5.2: Details of prior Environment Clearances:**

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-11015/310/2006 - 1A.II(M)	EC granted to M/s MPSMDCL based on approved Mining Plan for an opencast & an underground mine	8.4	1619.10	27.03.2008	Cancellation of Coal Block as per Hon'ble Supreme Court judgement dated 25.08.2014 & order dated 24.09.2014. Before the operations could commence the block was deallocated. It was reallocated to M/s THDCIL by MOC vide F.No. 103/11/2016-NA dated 17.01.2017
2	J-11015/310/2006 -1A.II(M)	Transfer with amendment of EC granted to M/s THDCIL as per Revised Mining plan for an opencast mine only duly approved by MOC on 13-03-2020	5.6	1180.20	03.08.2021	Being implemented

**25.5.3: Present status of implementation of EC for which amendment is sought:** In compliance of the EC, it is submitted that the mine became operational from November 2022 onwards and the actual production details since inception of the concerned mine is given in the table below. CTO renewal has also been obtained from MPPCB and is valid up to 31.08.2025.

Year	Actual Coal Production in MTPA	Planned Coal production in MTPA as per Environmental Clearance	Excess Production
2022-23	0.31	5.6	NIL
2023-24	1.25	5.6	NIL
2024-25	2.17	5.6	NIL

It is pertinent to mention that, the Environment Clearance for the said block was earlier granted to M/s Madhya Pradesh State Mining Development Corporation Limited (MPSMDCL) vide letter dated 27.03.2008. It was then de-allocated vide the order of Hon'ble Supreme Court and was reallocated to M/s THDC India Limited (THDCIL) by MOC vide F. No. 103/11/2016-NA dated 17.01.2017. Environment clearance was then transferred along with certain amendments for the opencast mining operations to M/s THDCIL on 03.08.2021.

**25.5.4: Details regarding the amendment sought in the EC dated 27.03.2008, further transferred and amended vide letter dated 03.08.2021:**

Specific/ General Condition No	Details of the Conditions as per EC	Amendment Sought	Justification
Specific Condition xi	As committed no channelization/	Based on the detailed	The proposed diversion of nala has been mentioned in the approved Mining Plan.



<b>Specific/ General Condition No</b>	<b>Details of the Conditions as per EC</b>	<b>Amendment Sought</b>	<b>Justification</b>
	diversion will be undertaken and regular water quality monitoring will be done to ensure the quality of water	scientific study carried out by IIT- BHU for diversion of nala and the approval accorded by concerned Department of Govt. of M.P., & also following the recommendation of the EAC Sub-Committee, it may be permitted.	In order to undertake safe mining activity and excavation of coal (about 38.53 Mt is blocked under nallah), it is necessary to divert Kanchanmuda Nala and the same will be undertaken as per approvals accorded by concerned State Government Authority.
Specific Condition v	Transportation of coal through Coal Handling Plant shall be through mechanized covered trucks for 2 years and proposed railway siding should be constructed within 2 years of mine operations.	Extension in time for Road transportation of coal may be allowed beyond 2 years (mine started its operation in November, 2022) till June 2026	With all construction activities for installation of conveyor system nearing completion, the construction of the Ground Bunker, Silo and other components (Railway siding) has already begun. Evacuation of coal by Conveyor transport along-with dispatch by rail is expected to be completed in 610 days from 1/10/2024 i.e. by June 2026. As directed, a traffic Assessment study has been carried out, Impact Assessment study for road transportation with numerical modelling has also been completed (showing insignificant impact with control measures in place). Based on the aforesaid studies, an Environmental Management Plan (EMP) especially for continuing road transportation in the existing route has been prepared. During this extended period, as indicated in the EMP, all the pollution control measures for mitigating air pollution (as being taken presently – in 2 years period as per EC) will continue to be operated and maintained. In addition, as mentioned in the aforesaid EMP, the measures will be further strengthened/ augmented.
Specific Condition vii	Mining shall be carried out by Surface miners for the project and also Silo Loading through inpit conveyors should be installed to stop road transportation in 2 years of mine operations.	Extension in time for Road transportation of coal may be allowed beyond 2 years of mine operation (started in November 2022) till June 2026	Mining of Coal is being carried out by Surface Miners and as such no crushing is involved in the CHP. With all construction activities for installation of conveyor nearing completion, construction of the Ground Bunker, Silo and other components has begun. Evacuation of coal by Conveyor transport along-with dispatch by rail is expected to be completed in 610 days from 1/10/2024 i.e. by June 2026. As directed, a traffic Assessment study has been carried out, Impact Assessment study for road transportation with numerical modelling has also been completed (showing insignificant impact with control measures in place). Based on the aforesaid studies, an Environmental Management Plan (EMP) especially for continuing road transportation in the existing route has been prepared. During this extended period, as indicated in the EMP, all the pollution control measures for mitigating air pollution (as being taken presently – in 2 years period as per EC) will continue to be operated and maintained. In addition, as mentioned in the aforesaid EMP, the measures will be

Specific/ General Condition No	Details of the Conditions as per EC	Amendment Sought	Justification
			further strengthened/ augmented.

### 25.5.5: Justification for extension in timeline of Road Transportation and present status of CHP, Silo Loading System and Railway Siding:

Justification for extension of timeline:

S. no.	Condition no.	EC Specific Condition	Amendment Solicited	Reasons for Amendment
Application for amendment submitted on 11.09.2023 & 14.10.24 and then appraised during EAC meeting held on 27.09.2023, 08.05.2024 & 27.11.24.				
1	“xi”	As committed, no channelization/ diversion will be undertaken and regular water quality monitoring will be done to ensure the quality of water.	Channelization/ diversion may be permitted	Approved mining includes the minable reserves including the coal reserves of around 38 MT beneath nallah flowing from the center of the block. To ensure the efficiency and safety of mining operation and for conservation of coal reserves diversion of Nalla is requested. In compliance of EAC directive, a detailed technical study has been completed by IIT –BHU. Statutory permission from Ganga Kachhar Water Resource Department, Rewa, Govt. of M.P. has also been secured.
Fresh Application dated 14.10.2024				
1	“v”	Transportation of coal from coal handling plant shall be through mechanized covered trucks for 2 years. No transportation by trucks after 2 years and proposed railway siding should be constructed within 2 years of mine operations.	Extension in time for implementation of this condition is solicited till June 2026	Delays accrued due to delay in acquisition of Railway (WCR) land required for this corridor Construction of the belt conveyor system is in full swing and will be completed within the extension period requested (by June 2026)
2	“vii”	Mining shall be carried out only by surface miners for the project and silo loading through	Extension in time for implementation of this condition is solicited till	<ul style="list-style-type: none"> <li>Delay accrued due to in obtaining the statutory approval for Railway land from Railway Authorities.</li> <li>Approvals has been accorded by Railways on Oct’24 and ground work has commenced thereafter and is</li> </ul>

S. no.	Condition no.	EC Specific Condition	Amendment Solicited	Reasons for Amendment
		in pit conveyor should be installed to stop road transportation in 2 years of mine operations.	June 2026	<p>continuing in full pace.</p> <ul style="list-style-type: none"> <li>With all pre construction activities completed, construction of the ground bunker, silo, and other components has begun, conveyor transport along with evacuation through rail is expected to be completed in 610 days from 01.10.2024, i.e. by 03.06.2026.</li> </ul>

**Present status of installation of CHP, Silo Loading System and Railway Siding:**

Activity	Progress Made				
Land Acquisition	<ul style="list-style-type: none"> <li>➤ Phase 1: <ul style="list-style-type: none"> <li>• 100% Land acquired</li> <li>• 100% Land under possession</li> </ul> </li> <li>➤ Phase 2 (CHP): <ul style="list-style-type: none"> <li>• 100% Land acquired</li> <li>• 100% Land under possession</li> </ul> </li> <li>➤ Phase 2 Railway Siding work (GCT) <ul style="list-style-type: none"> <li>• 100% Land acquired</li> <li>• 100% Land under possession</li> </ul> </li> </ul>				
Key Milestones	Stages	Land Acquisition /Possession	Survey and Design approval	Tender	Convey System
	Phase 1	(100% / 100%)	100%	100%	100% Design, 86% Civil, 62% Mechanical, 32% Electrical
	Phase 2 (CHP)	(100% / 100%),	70%	100%	70% Design, 4% Civil
	Phase 2 Railway Siding (GCT)	(100% / 100%),	100%	100%	10% Civil
Work Orders & Payments	<ul style="list-style-type: none"> <li>➤ Phase 1 &amp; Phase 2(CHP): <ul style="list-style-type: none"> <li>• Design Engineering: M/s Holtech</li> <li>• EPC: M/s MACMET</li> <li>• Supply &amp; Construction of 11 kV Transmission Line: M/s TLV orders</li> </ul> </li> <li>➤ Phase 2 (Railway GCT): <ul style="list-style-type: none"> <li>• Tender &amp; ordering of Civil, P-Way, Electrical &amp; Signalling awarded: M/s Sumcon</li> <li>• Design Engineering: M/s RCC consultants</li> </ul> </li> </ul> <p>Payments are made based on milestones</p>				
	<p>Financial Update</p> <ul style="list-style-type: none"> <li>➤ Phase I &amp; Phase II (CHP)</li> </ul> <p>Total Contract Value: 366.81 Cr</p> <ul style="list-style-type: none"> <li>• Claimed Till Date: 207.25 Cr</li> <li>• Paid Till Date: 182.26 Cr</li> <li>• Other Direct Payments: 40.94 Cr</li> <li>• Total Expenditure in CHP: 223.20 Cr</li> </ul> <ul style="list-style-type: none"> <li>➤ Phase II (Railway GCT)</li> </ul>				

Activity	Progress Made
	Total Contract Value: 68 Cr
Budget & Procurement	Budget for Phase 1 & Phase 2 (CHP): 469.57 Cr Budget for Phase 2 Railway GCT work: 68 Cr.

### Present and proposed system for coal evacuation:

Currently, coal evacuation is carried out through a road-cum-rail mode. The coal is transported from the mine pit via an approximately 7 km dedicated coal transportation road to the Village Tenduha to Railway siding, ensuring all the environmental control measures. Traffic surveys were conducted to assess the mode-wise traffic composition observed near village Tenduha at a distance of 7 km from mine and thereby examine the capacity of the road facility for their efficient and safe operation.

### Existing air quality parameters of the coal transportation route are as follows:

The samples were collected continuously for 4 weeks beginning from 02.09.2024 to 29.09.2024 and were preserved and analyzed as per the standard methods recommended in Standard Operating Procedure (SOP) of Central Pollution Control Board (CPCB, 2011).

Summary	PM <sub>10</sub> (µg/m <sup>3</sup> )		PM <sub>2.5</sub> (µg/m <sup>3</sup> )		NO <sub>x</sub> (µg/m <sup>3</sup> )		SO <sub>2</sub> (µg/m <sup>3</sup> )	
	Min	Max	Min	Max	Min	Max	Min	Max
	56.19	60.42	25.84	32.95	0.79	0.89	9.60	12.85
Permissible Limit (NAAQS'2009)	100		60		80		80	

### Existing noise quality parameters of the coal transportation route are as follows:

Noise level was measured at following stations between 02.09.2024 to 29.09.2024. The details are presented in Table

S. No.	Location	Noise Level in dB(A)			
		Day		Night	
		Min	Max	Min	Max
1	Bandha Village	51.48	53.62	40.65	43.61
2	Pachaur village	51.74	54.78	41.56	44.15
3	Deour village	51.63	53.68	40.91	42.94
4	Tanduha vottage	53.61	54.897	41.76	44.98
5	Mine site office	61.20	64.82	51.28	54.16
6	Pidarwah village	51.82	54.70	41.85	44.59

All the noise quality is found within permissible limit

### 25.5.6: Traffic Impact Assessment Study Report:

S. No.	Vehicle Type	Equivalent PCU Factors - Percentage composition of vehicle type in traffic stream	
1.	Two wheelers Motor cycle or scooter etc	0.5	0.75
2.	Passenger car, pick-up van	1.0	1.0
3.	Light commercial vehicle	1.5	2.0
4.	Truck or Bus	3.0	3.7
5.	Agricultural Tractor Trailer	4.5	5.0

### Traffic Assessment:

Manual traffic count has been carried out for coal transportation route from Coal Stock Yard to Gajra Behra Railway Siding.

**Estimated Level of Service (LOS) due to Additional Traffic**

	<b>Average Traffic/day after additional traffic of Amelia Mine</b>	<b>V=Volume in PCU/day after additional traffic of Amelia Mine</b>	<b>Road Type</b>	<b>C= Suggested design capacity in PCU/day</b>	<b>V/C ration LOS as per IRC</b>	<b>LOS as per IRC</b>
Existing Traffic	656	2952	2 Lane	15000	0.20	A
Additional Traffic	366	1647	2 Lane	15000	0.11	A
Total Estimated Traffic	1022	4599	2 Lane	15000	0.31	A

There are no locations of sensitive nature and monuments notified by archaeological department in and around the mine lease area.

The transport of coal will be carried out to the desired destination at railway siding by road. The available road network is adequate to handle the additional transport road. Considering total 100% transport by road which works out to be 15342 tonnes per day. There will total traffic of 1022 dumpers of 30 tonnes capacity considering two-way movement. The transport route will be maintained by the project proponent on regular basis and water sprinkling will be carried out thrice a day besides undertaking avenue plantation on the available places on the route.

There will be negligible impacts on biodiversity of the area beyond what is already present due to traffic on the transport route. On the other hand, there will be positive impact due to the plantation activities on areas surrounding surface infrastructure for the Amelia Opencast Coal mine.

**CONCLUSION (Road Transportation Extension):**

From above traffic study, it may be inferred that the Level of existing service is adequate to accommodate the additional load of peak capacity of coal transportation of 5.6 MTPA, Existing Level of Service category A for road at TS1. Further with the environmental pollution mitigation measures to be implemented in the project as proposed in the EIA/EMP report, the impacts due to this transportation of coal can be kept within the permissible limits.

Traffic density even at the peak EC capacity of 5.60 MTPA along the road is not likely to cause any/ insignificant adverse impacts on the environment and ecology. However, it may be further mentioned here that, the coal transportation by road is a temporary activity to be carried out till the full-fledged evacuation of coal through conveyor- SILO/RLS- Railway wagons starts by early June 2026.

**For effective control of pollutants generated out of road transportation of coal & other activities following measures are already in place (duly operated and maintained):**

- i. Entire road stretch is a dedicated corridor for transportation of coal from this mine only
- ii. The road stretch does not cut across any village/habitation
- iii. Wired Fencing erected on both sides of the road (for avoiding any inadvertent entry) covering the under-construction conveyor structure
- iv. 4 nos. of Fog Cannons are in operation.
- v. 4 nos. of pressurized water tankers are in operation along the coal transportation road
- vi. All transport vehicles are PUC certified and are GPS tagged
- vii. Maintenance of road is carried out regularly
- viii. Regular monitoring of ambient air quality parameters at five locations
- ix. Maintenance of all coal carrying trucks are carried out regularly
- x. Coal carrying trucks are covered with tarpaulin

**25.5.7: Details of Hydrology Study Report: Final Report titled “Hydrological Study and Catchment Treatment Plan on the Stream/ Rivulet proposed for Kanchanmuda Nala Diversion Madhya Pradesh” has been prepared by IIT BHU**

- A comprehensive hydrological study for the Kanchanmuda Nala watershed was conducted using the CWC mathematical model for flood estimation, focusing on a 50-year return period for 20 cm rainfall in 24 hours.
- The estimated peak flood for the mine area within the Kanchanmuda Nala watershed is 9.29 m<sup>3</sup>/sec/km<sup>2</sup>.
- Groundwater recharge during mining operations is estimated at 2.73 MCM/year, ensuring sustainable water management practices.
- The peak flood runoff for the Kanchanmuda watershed was calculated as 9.29 m<sup>3</sup>/sec/km<sup>2</sup>, providing a basis for designing mitigation measures.
- A catch drain of 7,714 m length will be constructed with a hydraulic gradient of 1:100. The trapezoidal drain will have a width of 4 m, a water depth of 3 m, and a freeboard of 2 m.
- Two sedimentation tanks, each measuring 50 m x 50 m x 3.4 m, will be constructed to manage rainwater from overburden external and internal drainage systems.
- The design capacity of the nala diversion channel is 266.8 m<sup>3</sup>/sec, which exceeds the estimated peak flood flow of 220 m<sup>3</sup>/sec, ensuring effective flood management.

**25.5.8: Compliance of recommendations of the sub-committee, made during the site – visit held during 11-14<sup>th</sup> January 2025:**

S. No.	Recommendation points	Action Plan
1.	Considering the operational challenges of safe and systematic mining, loss of coal below the Kanchanmuda nala and protected barrier against the nala within the mine lease area and the aspects of hydrological connectivity of Kanchanmuda stream in the downstream and Kanchanmuda Dam, the nala/channel from entry point to the mine lease area shall be channelized to downstream of the Kanchanmuda, by detouring the stream along the mine lease boundary.	Noted, as per directives diversion will be carried accordingly following the detailed study report submitted by IIT BHU in March' 2025
2.	In order to channelise the storm flood in the detoured channel, a nature-based solution shall be adopted based on the topography along the mine lease boundary in the path of	As per suggestion, the stormwater shall be detoured along the mine lease boundary as nature-based solution, aligned with existing topography. Further, the study report

S. No.	Recommendation points	Action Plan
	detoured channel. There is one more stream also exiting from mine lease boundary on the north boundary of the lease area. The water flow shall be channelised through these two streams (including Kanchanmuda nala) to meet Kanchanmuda dam. Adequate study must be conducted on the aspects of topographical features, required depth in the detoured channel based on peak rainfall, in steam dams/check dams/small reservoirs for buffering of the storm flood, gully plugs and checks in all the streams etc.	submitted by Indian Institute of Technology, Banaras Hindu University (IIT BHU) covers all these aspects and the same shall be adhered during the implementation stage. Copy of IIT BHU Study Report has been submitted.
3.	This activity of diversion of Kanchanmuda nala along the Western and Northern side of the lease may be combined with the provision of garland drain around the periphery of the mine lease area to channelise the water flow from outside the lease area. Details of this activity of diversion of nala and providing garland drain around the periphery of the mine boundary may be included in the Mine Closure Plan for construction and maintenance of the diverted nala and garland drain.	Noted, internal drainage and streamlets will be effectively managed through local garland drains as per the approved Mine Plan. Further, the relevant part of IIT BHU Report which covers all these aspects will form the integral part of progressive mine closure and final mine closure plan.
4.	Detailed Project Report on the diversion of Kanchanmuda nala shall be prepared considering the engineering designs, gabion structures, check dams, earthen bunds, estimates etc., including natural bund strengthening plantation on both sides of the designed channel. Cost of the construction of detoured channel should be taken up as capital cost of the project and the budget allocated for its maintenance should be proposed in the Environmental Management plan which also should be audited yearly.	Noted, the IIT BHU Study Report has comprehensively covered all aspects of the project including costs. The expenditure will be part of capital cost, while the budget for maintenance will be included in the environmental management plan and will also be subject to annual audits.
5.	Based on the conceptual plan of the mining, an integrated water shed management plan shall be prepared for post closure of the mines.	As suggested by the sub-committee, regarding integrated watershed management THDCIL agrees to abide by the directives of MoEF & CC.
6.	Two more CAAQMS should be installed at 120 degree, one at along periphery of ML area and other at nearby village outside periphery.	Two nos. of CAAQMS are already installed and are linked with SPCB/CPCB server.  One CAAQMS installed within mining lease and other outside the mine lease. However as suggested, one more CAAQMS will be procured and installed at nearby village outside the periphery during this financial year in consultation with the MPPCB.

S. No.	Recommendation points	Action Plan
7.	Carbon sequestration and carbon sink data should be worked out for ML area and its vicinity.	As suggested Carbon sequestration and carbon sink data will be worked out for ML area and its vicinity for which study will be conducted during this financial year through reputed organization. The report of the same will be submitted to MoEF&CC along with the six monthly compliance report.
8.	In-house environmental Lab may be established with air and water quality measuring instruments.	Inhouse Environmental Lab is being set up and civil construction work for the same is completed. Photographs are submitted. It is envisaged that the, lab shall be operational by this financial year. The lab will be equipped with Ambient air quality monitoring, water quality and Noise monitoring facility.

**25.5.9: ADS Reply:** PP submitted the following compliance of ADS of 50<sup>th</sup> EAC Meeting held on 27<sup>th</sup> September 2023.

S. No.	ADS Point	Reply of PP																									
1.	PP shall submit the proper justification for the amendment of EC considering the coal reserves available (in million tonne) near or below the streams with technology intervention.	<ul style="list-style-type: none"><li>Considering the case that nala is not diverted and a barrier of 50-60 meter is left as per EC condition for plantation of Sal trees along both sides of stream, the mine will be bifurcated into 2 opencast quarries (Eastern and Western quarries) instead of single quarry operation as per Approved Mining Plan.</li><li>Extractable reserves in the scenarios (with nala diversion &amp; without nala diversion) are as follows:</li></ul> <table><tr><th colspan="2">Scenario 1 (With Nala diversion)</th><th colspan="3">Scenario 2 (Without Nala diversion)</th></tr><tr><th colspan="2">Combined quarry as per AMP</th><th>Eastern Quarry</th><th>Western Quarry</th><th>Total</th></tr><tr><td>Coal (Mtes)</td><td>139.48</td><td>29.19</td><td>71.76</td><td>100.95</td></tr><tr><td>OB (Mcum)</td><td>511.55</td><td>92.59</td><td>342.39</td><td>434.98</td></tr><tr><td>Stripping Ratio (Cum/Te)</td><td>3.67</td><td>3.17</td><td>4.77</td><td>4.31</td></tr></table> <ul style="list-style-type: none"><li>It may be observed from above that there will be blockade/loss of 38.53 Mtes of coal beneath the nala barrier which amounts to 7 years of coal requirement for Khurja 2X660MW captive power plant).</li><li>It may be observed from above that there will be blockade/loss of 38.53 Mtes of coal beneath the nala barrier which amounts to 7 years of coal requirement for Khurja 2X660MW captive power plant).</li></ul>	Scenario 1 (With Nala diversion)		Scenario 2 (Without Nala diversion)			Combined quarry as per AMP		Eastern Quarry	Western Quarry	Total	Coal (Mtes)	139.48	29.19	71.76	100.95	OB (Mcum)	511.55	92.59	342.39	434.98	Stripping Ratio (Cum/Te)	3.67	3.17	4.77	4.31
Scenario 1 (With Nala diversion)		Scenario 2 (Without Nala diversion)																									
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OB (Mcum)	511.55	92.59	342.39	434.98																							
Stripping Ratio (Cum/Te)	3.67	3.17	4.77	4.31																							
2.	PP should explore alternate technology/ methods for exploration of such coal reserves to extract coal	Possible method of working to extract 38.53 MTes of coal blocked beneath barrier against nala was explored with following observations:																									



S. No.	ADS Point	Reply of PP
	without diverting the stream.	<ul style="list-style-type: none"> <li>The average depth of lowermost seam VII (Considered for opencast mining) beneath the barrier is about 60 meter.</li> <li>Considering the surface barrier against nala and angle of draw for underground mining the coal reserves blocked for Opencast mining will largely remain blocked for underground mining also.</li> <li>As the underground working will be between opencast high wall slopes at both ends mine safety may be compromised.</li> <li>One possible method of working blocked coal reserves is using Highwall Mining method but for limited span (about 200m) with opencast high wall slopes at both ends will be a sub-optimal working with low extraction (~15-20%) rate.</li> <li>More than 30 Mtes of coal reserves will remain blocked even after extraction of coal through underground/High wall mining methods.</li> </ul>
3.	Biodiversity study of Kanchanmuda Stream/Nallah (source to destination) considering all dependent flora and fauna	Biodiversity study of Kanchanmuda Stream has been carried out through Biodiversity Expert Dr. Manas Badge. PP submitted a report prepared by Dr. Badge.
4.	Proper Catchment area study including carrying capacity of river and stream passing be done with hydrological and watershed data.	<ul style="list-style-type: none"> <li>Catchment area study including carrying capacity of river and stream passing has been carried out considering hydrological and watershed data.</li> <li>The Catchment Area Study concluded that the estimated bifurcation ratio of 4:16 indicates that the geological structure has not affected the drainage pattern of Kanchanmuda watershed. The drainage pattern developed may be due to elevation difference and more erosional activity. The proposed Amelia diversion is based on elevation difference. For erosional activity the adequate lining of channel will be undertaken.</li> <li>Carrying Capacity of a river basin refers to the maximum amount of water available naturally as stream flow, ground water, soil moisture etc., to meet ecological and social (domestic, irrigation and livestock) demand in a river basin.</li> <li>Considering above factors, the carrying capacity of Kanchanmuda watershed has been estimated to the tune of 12.091 MCM/year which is discharged into Kanchan River.</li> <li>There will not be any impact on carrying capacity of Kanchanmuda watershed due to proposed diversion of eastern and western streams with appropriate capacity diversion channel. The design and dimension of proposed diversion channel is duly approved by Water Resource Department, Madhya Pradesh.</li> <li>PP also submitted the copy of catchment area study and carrying capacity study</li> </ul>
5.	Environment Impact Study for Nallah in the situation of diversion of catchment area be studied with loss of biodiversity and ecosystem. The Catchment	<ul style="list-style-type: none"> <li>PP submitted the copy of Environment Impact study for Kanchanmuda Nala with loss of Biodiversity and Ecosystem.</li> <li>The flow estimation carried out during catchment area study is separately provided. It is observed that the Flow Rate of Kanchanmuda watershed during 1970 to 2021 is varying from 3.58 to 21.02 MCM/year based on annual</li> </ul>

S. No.	ADS Point	Reply of PP
	area study should include flow rate of water in the stream, volume of water being diverted and major impact on habitation living therein.	rainfall of 304.80 mm and 1785.30 mm respectively. Average being 11.724 MCM/year. It may be concluded that annual flow rate is dependent on annual rainfall in watershed area.
6.	Drone video of the ML area mainly covering the source and destination of Kanchanmuda Stream/Nallah.	The drone survey of the ML area is carried out in first week of December 2023. PP submitted the summary of the survey. The size of data collected through Drone Survey being heavy, the same was displayed during appraisal of the compliance to Honorable EAC (Coal Mining). If desired the data will be submitted to MoEF & CC through pen drive.
7.	PP should submit the Contour plan for the drainage system	PP submitted the Contour plan of the drainage system.
8.	PP should also mention the exact number of rivulets passing through the ML area flowing within the 5km of Buffer zone of ML area.	<ul style="list-style-type: none"> <li>There are various seasonal rivulets of 1<sup>st</sup>, 2nd, 3rd &amp; 4th order exist within 5 km radius of the mining lease.</li> <li>Total number of rivulets within 5 km radius from ML is 652 while 100 number of rivulets passes through ML area.</li> <li>PP also submitted a map showing rivulets of 1<sup>st</sup>, 2nd, 3rd &amp; 4th order around 5 km radius of ML area.</li> </ul>
9.	The PP should study the impact of water management due to channelization/diversion.	<p>It is concluded that the water management of diverted channel has been designed in such a way that the total water generated in mine and external area will be channelized to downstream of Kanchanmuda stream and there will not be any loss of water either peak flow or annual yield of the stream confluence into Kanchan River.</p> <p>Report submitted on Impact of water Management due to Channelization / Diversion for impact of water management due to channelization/diversion.</p>
10.	PP should explore the possibility to save the stream flowing through the ML area and adjacent to the lease area.	PP submitted a detailed note on the possibility to save the stream flowing through the ml area and adjacent to the lease area.

PP submitted the following compliance of ADS of 11<sup>th</sup> EAC meeting held on 8<sup>th</sup> & 9<sup>th</sup> May 2024:

S. No.	ADS Point	Reply of PP
1.	Biodiversity study of the stream / rivulet and its surrounds should be done through reputed / Government Institute /IIT/WII/ICFRE with its mitigation measures particularly the aquatic flora and fauna to clearly bring out impact of the proposed diversion.	<p>The report / observation of IIT (BHU) on Biodiversity study of the stream / rivulet and its surrounds is submitted along with relevant certificate. The key suggestions of the report is as under:</p> <ul style="list-style-type: none"> <li>Continue long term monitoring of flora and fauna in the project area to track changes due to mining activities and ensure effective mitigation measures.</li> <li>Implement species – specific conservation measures, especially for any vulnerable or threatened species identified in the region.</li> <li>Enhance community engagement and educational programs to promote biodiversity conservation among local stakeholders/</li> </ul>

S. No.	ADS Point	Reply of PP
		<ul style="list-style-type: none"> <li>Strengthen habitat restoration initiatives post mining, ensuring the re – establishment of native vegetation and ecological balance.</li> </ul>
2.	Hydrology study of the stream / rivulet proposed to be diverted be done by Government Institute / NIH.	<p>The report / observation of IIT (BHU) on Hydrology study of the stream / rivulet proposed to be diverted is enclosed along with relevant certificate is submitted. The conclusion of the report is as under: “Upon through evaluation the hydrology report has been found to adhere to all relevant standards, comprehensively addressing the critical aspects of their respective fields.</p> <ul style="list-style-type: none"> <li>The hydrology report offers accurate flow rate assessments, water quality analysis, and appropriate measures for managing water systems and protectiong ecological health.</li> <li>Hydrology report prepared by M/s. Srushti Seva Private Limited reflects a robust methodology, ensuring that the environmental impact of mining activities is well – monitored and managed.</li> </ul>
3.	PP should submit detailed progress of planting done so far, along with geotagged photos.	<p>MoU between THDCIL and MP Rajya Van Vikas Nigam Ltd. (MPRVVNL) has been signed for fencing and plantation along the mine lease boundary (safety zone 7.5 m wide) and for which Rs. 2.38 Cr has been released to MPRVVNL.</p> <p>Avenue plantation along road side is being done. Development of Nursery is being carried in Phased manner, initially 2 ha area has been allotted and fenced for the germination of local species.</p> <p>A site photographs is submitted.</p>
4.	PP shall submit the inspection report Certified by RO and its ATR.	The same is submitted.
5.	Post mining maintenance plan, especially de-siltation, for diverted nallah.	<ul style="list-style-type: none"> <li>The mining operation has started in November 2022 and the mine is in development stage having a life of 28 years.</li> <li>The post mining maintenance plan for desiltation of diverted nala will be implemented in due course.</li> </ul>
6.	Details of downstream impact with respect to ground water recharge and water use by people residing in the downstream area be provided and certified by the local authorities.	<ul style="list-style-type: none"> <li>There are no villages lying in the downstream of the project as can be seen from the attached Map 1. However, ground water levels are being monitored regularly along with its quality to assess impacts (if any).</li> <li>Mine has started its operation from November 2022 and till date no such impacts has been recorded/reported.</li> </ul>
7.	PP shall explore the possibility of reducing the depth of mine void.	<ul style="list-style-type: none"> <li>As per the approved mining plan, total quarry area is 899.68 ha out of which backfilling will be done in 710.03 ha (79%) while final mine void will be created in an area of 189.65 ha (21%) with a depth of 170 m. Backfilled quarry area of 710.03 ha shall be reclaimed with plantation. Final mine void will be converted into water body.</li> <li>As directed, depth of mine void can be reduced by re-handling internal OB dump and filling into the void for which appropriate planning and subsequent action will be taken in due course during implementation.</li> <li>As per the statutory requirement necessary modification in the mining plan as well as mine closure plan will be solicited at that point of time.</li> </ul>
8.	Details w.r.t Environment Management Cell to oversee the implementation of	<ul style="list-style-type: none"> <li>Dedicated team as Environmental Management Cell with suitable qualified personnel has been set up under the control of a Senior Executive, who reports directly to the Head of the company.</li> </ul>

<b>S. No.</b>	<b>ADS Point</b>	<b>Reply of PP</b>
	environmental safeguard, ensure compliances and reporting to concerned authorities shall be provided.	<p>Details of Environment Management Cell is submitted.</p> <ul style="list-style-type: none"> <li>Environmental monitoring has been carried out with association of NABL/MOEF&amp;CC accredited agency. The procedural guidelines are being followed considering the respective guidelines and data generation &amp; record of the environmental monitoring data is being maintained and are being shared with MPPCB.</li> </ul>
9.	PP to align project with SDG goals.	<p>The Sustainable Development Goals (SDGs) are a set of 17 global goals established by the United Nations to address a wide range of global challenges.</p> <p>The project is aligned with the SDG goals. Detailed report is submitted.</p>
10.	PP shall clarify if the plan to divert the stream was disclosed in the public hearing and if so, what were the comments of the participants. Further, the PP shall obtain the comments of various stake holders and local people on diversion of Kanchanmuda Nala by publishing the advertisement in at least two newspapers.	<p>Nala diversion proposal form part of the approved Mine Plan and the same was submitted to MoEF&amp;CC as an EIA Annexure. During Public Consultation all points were highlighted before all the stakeholders including Locals.</p> <p>Subsequently after EAC appraisal EC was recommended by MoEF&amp;CC. The EC letter was published in two newspapers, as well.</p>
11.	Proposal of diversion of Nala must be a part of approved mining plan.	The proposal for the diversion of the nala has been incorporated into the approved Mining Plan (Ref: Mining Plan Section 3.3, page no. 47).
12.	It is observed that the district mentioned in earlier EC is Sidhi while the PP has submitted the district name as Singrauli, PP may clarify.	<p>Madhya Pradesh, which was created on 24th May '2008 by division of Sidhi district, which covers a region comprising of the eastern part of the district.</p> <p>The address of the mine is Amelia Opencast Coal Mine with Production Capacity of 5.6 MTPA in ML area of 1180.2 Ha located in village Pidarwah, Tehsil Singrauli, District Singrauli (Madhya Pradesh).</p>
13.	Site visit by the subcommittee as recommended in the 50th meeting shall be conducted.	<p>The pointwise compliances have been addressed above, and requested to consider the proposal in upcoming agenda.</p> <p>In the meanwhile the compliance report against EC condition is being submitted to IRO MoEF &amp; CC Bhopal for taking up inspection.</p> <p>In this regard it is humbly submitted that the proposed site visit as recommended in the 50th meeting may kindly be taken up at a later date.</p>

PP submitted the following compliance of ADS of 18<sup>th</sup> EAC meeting held on 27<sup>th</sup> November 2024:

<b>S. No.</b>	<b>ADS Point</b>	<b>Reply of PP</b>
1.	The Committee deliberated on the Biodiversity Study and Hydrology Study submitted by the proponent. The Committee observed that the Hydrology report submitted by the PP is prepared by the NABET accredited consultant and further vetted by IIT (BHU). The Committee is of the opinion that the study report must be prepared by some	In compliance, A Final Report titled "Hydrological Study and Catchment Treatment Plan on the Stream/ Rivulet proposed for Kanchanmuda Nala Diversion Madhya Pradesh"

S. No.	ADS Point	Reply of PP
	reputed Government Institute/ IIT and on the basis of that, further appraisal in this regard shall be done.	has been prepared by IIT BHU & the same is submitted.
2.	The Committee is of the opinion that a budget for mitigation measures to be adopted as per the recommendations of revised Hydrology Study Report must be submitted.	As per the Report of IIT BHU, Nala diversion will be carried in a phased manner as per the details provided. The budgetary allocation is as under. <ul style="list-style-type: none"> <li><b>Phase-1 (Eastern Part)</b> :The total estimated cost for the Nala design project considering excavation, concrete lining, and miscellaneous expenses, is approximately 10,03,36,284 INR.</li> <li><b>Phase-2 (Western Part)</b> : The total estimated cost for the Nala design project, considering excavation, concrete lining, and miscellaneous expenses, is approximately 15,73,21,390 INR.</li> </ul>
3.	The Committee also opined that, as the length of diversion is substantially more, the opinion on diversion of the said nallah will only be given after the site visit by the sub-committee of EAC.	Site visit of Sub- Committee (EAC) has been completed on 12 <sup>th</sup> & 13 <sup>th</sup> January 2025.
4.	The Committee did not find the ADS reply satisfactory and further, did not deliberate on the amendment sought for extension in timeline for transportation of coal through road.	Revised ADS reply and amendments sought for extension in timeline for transportation of coal through road application is submitted
5.	The Committee noted that there was a public representation against the instant proposal under consideration MOEF&CC may send the issues stated in the representation to the proponent for submitting the point wise response.	Public representation points are mostly related to thermal power plant & ACML is a coal mine project, However pointwise response has been submitted to MoEF&CC.
6.	The PP shall furnish fresh CCR report from RO of MoEFCC on compliance of EC conditions along with ATR.	Complied, Site Visit of IRO MoEF&CC was held on 06 Nov 2024 and CCR report with ATR submitted to MoEF&CC through Parivesh on dated 16.11.2024. ATR of IRO, MoEF&CC has been issued on 02.03.2025. Copy of the same is submitted.

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

**25.5.11: Written Submission:** The PP vide an undertaking submitted that:

1. The construction activities of coal conveyor system, silo and railway siding shall be completed within scheduled period of 610 days from 10<sup>th</sup> October 2024 i.e. by June 2026.
2. Two nos. of additional CAAQMS shall be procured and installed.

**Observations and deliberation of the Committee:**

**25.5.12: The EAC noted the following:**

1. The instant proposal is for seeking amendment in the 3 specific conditions stipulated vide EC granted to M/s THDC India Limited vide letter no. J-11015/310/2006-IA.II(M), dated 03.08.2021 for Amelia Coal Mine Project.
2. The Committee observed that the EC was earlier granted M/s Madhya Pradesh State Mining Development Corporation Limited (MPSMDCL), vide letter dated 27.03.2008. The coal block was later de-allocated vide the order of Hon'ble Supreme Court and was reallocated to M/s THDC India Limited (THDCIL) by MOC vide F. No. 103/11/2016-NA dated 17.01.2017. Environment clearance was then transferred along with certain amendments for the opencast mining operations to M/s THDCIL vide letter dated 03.08.2021.
3. The project became operation from November 2022 onwards and CTO renewal in this regard has been obtained from the MPPCB and the same is valid up to 31.08.2025.
4. The proposal was submitted by the PP on Parivesh portal vide application dated 11<sup>th</sup> September 2023 and the same was place in 50<sup>th</sup> EAC held on 27.09.2023, 11<sup>th</sup> EAC held on 8-9<sup>th</sup> May 2024 and 18<sup>th</sup> EAC held on 27<sup>th</sup> November 2024 and the said project was deferred for want of additional information. PP submitted the additional information sought in 18<sup>th</sup> EAC held on 27<sup>th</sup> November 2024 on Parivesh portal vide letter dated 26.04.2025 and same is now placed in 25<sup>th</sup> EAC meeting held on 9<sup>th</sup> May 2025.
5. The first condition in which amendment is sought is specific condition no. xi, wherein, it was stipulated that "As committed no channelization/ diversion will be undertaken and regular water quality monitoring will be done to ensure the quality of water".

Committee deliberated on the same and observed that, the proposal for diversion of nallah was already envisaged in the Mine Plan at the time EC was granted vide letter dated 03.08.2021 for carrying out only opencast mining. However, in order to protect the biodiversity of the Kanchanmuda nallah, the EC was given with the condition that no nallah diversion shall be done by the PP. However, the PP submitted that, in order to undertake safe mining activity and conservation of coal and conservation of coal, the Kanchanmuda nallah needs to be diverted. PP also submitted that about 38.53 MT of coal is blocked below the nallah and the same needs to be conserved.

6. Committee deliberated on the Hydrology Study Report prepared by IIT – BHU for diversion of the nallah and opined that all the recommendations of the study report shall be complied with by the PP. Along with this, Committee opined that the PP shall take necessary permission from the State Irrigation Department in this regard and the diversion of nallah shall be reported to the Ministry's RO.
7. The committee also deliberated on the compliance of site – visit report and observed that the PP has submitted to comply with all the suggestions of the sub-committee site visit report.

8. Another amendment sought by the PP is for extension in timeline for transportation of coal through road. As per the specific condition no. v & vii, it was stipulated that *“Transportation of coal through Coal Handling Plant shall be through mechanized covered trucks for 2 years and proposed railway siding should be constructed within 2 years of mine operations.” & “Mining shall be carried out by Surface miners for the project and also Silo Loading through inpit conveyors should be installed to stop road transportation in 2 years of mine operations.”*
9. Committee deliberated on the justification for seeking extension in timeline to install CHP, Silo loading and railway siding and observed that, delay accrued due to in obtaining the statutory approval for Railway land from Railway Authorities. Approvals have been accorded by Railways on Oct’24 and ground work has commenced thereafter and is continuing in full pace. With all pre construction activities completed, construction of the ground bunker, silo, and other components has begun, conveyor transport along with evacuation through rail is expected to be completed in 610 days from 01.10.2024, i.e. by 03.06.2026. Committee opined that, no further extension for transportation of coal through road will be given and the construction of Silo, CHP and railway siding shall be completed within the time as committed.
10. Committee further deliberated on the traffic assessment study report submitted by the PP observed that, currently, coal evacuation is carried out through a road-cum-rail mode. The coal is transported from the mine pit via an approximately 7 km dedicated coal transportation road to the Village Tenduha to Railway siding, ensuring all the environmental control measures being enforced. The air quality parameters and the noise quality parameters on the coal transportation road are observed to be within the permissible limits. Committee opined that the PP shall carry out dense plantation on both the sides of the coal transportation route with the native species. Along with this the PP shall also carryout plantation along the conveyor belt. Gap plantation within the ML area shall also be done.
11. Committee opined that the PP shall install 2 CAAQMS in addition to the already installed CAAQMS in the core zone and buffer (1 each).

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

**25.5.13:** In view of the foregoing and after detailed deliberations, the committee **recommended** the instant proposal for grant of following amendment in EC issued vide letter no. J-11015/310/2006-IA.II(M), dated 03.08.2021 for Amelia Coal Mine Project, as detailed below **subject to stipulation of following additional specific conditions and uploading of written submissions on PARIVESH portal**. Other terms and conditions prescribed in EC dated 27.03.2008 and 03.08.2021 shall remain unchanged:

Condition No. as per EC dated 03.08.2021	Description as per approved EC	Recommendation of EAC
Specific Condition xi	As committed no channelization/ diversion will be undertaken and regular water quality monitoring will be done to ensure the quality of water	<p><b>Agreed</b></p> <p>Concerning the changes in specific condition no. xi of EC dated 03.08.2021, Committee recommended to amend the specific condition no. xi as follows:</p> <p><i>“The project proponent is permitted to divert the kanchanmuda nallah, in consultation with State Irrigation Department. All the</i></p>

Condition No. as per EC dated 03.08.2021	Description as per approved EC	Recommendation of EAC
		<i>recommendations of the IIT – BHU report on “Hydrological Study and Catchment Treatment Plan on the Stream/ Rivulet proposed for Kanchanmuda Nala Diversion Madhya Pradesh” shall be complied with. Compliance status in this regard shall be submitted to the Regional Office of the MoEF&amp;CC along with the six monthly compliance report.”</i>
Specific Condition v	Transportation of coal through Coal Handling Plant shall be through mechanized covered trucks for 2 years and proposed railway siding should be constructed within 2 years of mine operations.	<p><b>Agreed</b></p> <p>Concerning the changes in specific condition no. v of EC dated 03.08.2021, Committee recommended to amend the specific condition no. v as follows:</p> <p><i>“The proposed railway siding shall be developed by June 2026, as committed by the PP. Till then the transportation of coal through Coal Handling Plant shall be through mechanized covered trucks. No road transportation of coal will be allowed after June 2026 as committed.”</i></p>
Specific Condition vii	Mining shall be carried out by Surface miners for the project and also Silo Loading through inpit conveyors should be installed to stop road transportation in 2 years of mine operations.	<p><b>Agreed</b></p> <p>Concerning the changes in specific condition no. vii of EC dated 03.08.2021, Committee recommended to amend the specific condition no. vii as follows:</p> <p><i>“Mining shall be carried out by Surface miners for the project and also Silo Loading through inpit conveyors should be installed and road transportation of coal will not be allowed after June 2026 as committed”</i></p>

#### Additional specific conditions:

1. All the recommendations made in the Traffic Assessment Study Report regarding coal transportation by road shall be strictly adhered with. In addition to the already installed 2 nos of CAAQMS, project proponent shall install 2 more CAAQMS, one in core zone and another in buffer zone, in consultation with the SPCB and the same shall be connected to the SPCB server. The 2 additional CAAQMS shall be installed by December 2025 and compliance of the same shall be submitted to the Regional Office of MoEF&CC 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, proponent shall make sure that all the pollution control equipments are in good working condition and maintenance of those equipments is regularly carried out.
3. Ambient Air Quality (AAQ) and Noise quality data along the entire coal transportation route shall be monitored and the data shall be submitted along with the six monthly compliance to the concerned Regional Office and also kept on the web portal of the company.
4. Additional air pollution control measures should be taken along roads being used for transport of coal including e-/CNG/LNG/PNG vehicles.



5. Project proponent shall carry out three tier plantation along the coal transportation route and pipe conveyor. PP shall also do the gap plantation inside the ML area. Plantation activities shall be undertaken on the onset of the monsoon 2025. Compliance in this regard shall be submitted along with the six monthly compliance to the concerned Regional Office and also kept on the web portal of the company.

In addition to the above, based on the recommendation of sub-committee of EAC, the EAC recommended that MPPCB may be requested by the Ministry to prepare Integrated Watershed Management Plan through reputed institute by involving all the coal mines in the vicinity of the ML area. The recommendations of the said study shall be incorporated in the consent accorded by MPPCB for ensuring compliance of the same.

#### **Agenda 25.6**

25.6: Dipka Opencast Coal Mine project (area: 1999.293 Ha having increase in production capacity from 35 MTPA to 37.5 MTPA) of **M/s South Eastern Coalfields Limited**, located at village: Dipka, Tehsil: Katghora; **District: Korba; State: Chhattisgarh** – Regularization of environment clearance dated 05/09/2022 issued under O.M. No. IA3-22/10/2022-IA.III dated 07/05/2022 [Availed total 50% relaxation of OM under clause 7(ii) of EIA Notification, 2006] – **Consideration based on ADS reply – reg.**

**[Proposal number IA/CG/CMIN/420565/2023; File no. J11015/487/2007-IA-II (M); Consultant: CMPDIL; NABET/EIA/2124/RA 0258 valid till 07/07/2025]**

**25.6.1:** M/s. South Eastern Coal Fields Limited has made an online application vide proposal no. IA/CG/CMIN/420565/2023 dated 01/03/2023 along with copy of EIA-EMP report prepared based on standard ToR, Common Application Form, Form 1 and Certified compliance report regarding regularization of Environmental Clearance issued under Ministry's OM dated 07.05.2022 for the project mentioned above.

The above proposal was considered in the 43<sup>rd</sup> EAC meeting held on 24<sup>th</sup> April 2023, the 48<sup>th</sup> meeting held during 25-28<sup>th</sup> August 2023, 3<sup>rd</sup> EAC held during 16-17<sup>th</sup> November 2023 and the 10<sup>th</sup> meeting held on 9<sup>th</sup> April 2024, wherein the committee has deferred the proposal for want of additional information. Project proponent submitted the additional information vide letter dated 17.01.2025 and 07.05.2025 respectively and the project is now listed for reconsideration in the 25<sup>th</sup> EAC meeting held on 9<sup>th</sup> May 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:**

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

S. No	Details of Letter No.	EC/ Expansion EC/ Amendment in EC/ Validity extension/ transfer of EC	Capacity (MTPA)	Area (ML)	Date of issuance	Status of implementation
1	Mine operated on consent					Project is implemented and the mine is
2.	J-11015/7/93-IA.II(M)	EC (EPA, 1986)	10.00	1551.36	27.07.1993	

S. No	Details of Letter No.	EC/ Expansion EC/ Amendment in EC/ Validity extension/ transfer of EC	Capacity (MTPA)	Area (ML)	Date of issuance	Status of implementation
3	J-11015/87/2003-IA-II(M)	Expansion EC (As per EIA notification, 1994)	20.00	1461.51	04.10.2004	under operation.
4	J-11015/487/2007-IA-II.(M)	Expansion EC (As per EIA notification, 2006)	25.00	2000.642	03.06.2009	
5	J-11015/487/2007-IA-II.(M)	Expansion EC (up to 25% expansion as per the Ministry's OM dated 19.12.2012)	30.00	1999.293	12.02.2013	
6	J-11015/487/2007-IA-II.(M) pt	Expansion EC ( up to 25% expansion as per the Ministry's OM dated 02.09.2014)	31.00	1999.293	06.02.2015	
7	J-11015/487/2007-IA-II.(M) pt	Expansion EC (40% expansion as per Ministry's OM dated 15.09.2017)	35.00	1999.293	20.02.2018	
8	J-11015/487/2007-IA-II.(M) pt	Validity extension	35.00	1999.293	20.03.2019	
9	J-11015/487/2007-IA-II.(M) pt	Validity extension	35.00	1999.293	09.03.2020	
10	J-1015/487/2007-IA-II.(M)	Expansion EC (up to 50% expansion as per Ministry's OM dated 11.04.2022 and 07.05.2022)	37.50	1999.293	05.09.2022.	

With respect to the previous approvals, the actual production details of the concerned mine since it became operational from 1998-89 onwards. Consent to Operate (CTO) renewal was granted by CECB vide letter no: 11697/TS/CECB/2025, dated: 11.03.2025 and is valid up to 14.03.2026. Details of the same is as follows:

Year	Actual Coal Production (MTPA)	Planned Coal Production in MTPA as per EC	Excess Production
1988-89	0.41	-	0.00
1989-90	1.49	-	0.00
1990-91	2.12	-	0.00
1991-92	2.22	-	0.00
1992-93	2.43	-	0.00
1993-94	3.55	10	0.00
1994-95	4.18	10	0.00
1995-96	4.63	10	0.00
1996-97	5.03	10	0.00
1997-98	5.44	10	0.00
1998-99	6.99	10	0.00
1999-00	8.20	10	0.00
2000-01	9.11	10	0.00
2001-02	11.95	10	1.95
2002-03	12.68	10	2.68

<b>Year</b>	<b>Actual Coal Production (MTPA)</b>	<b>Planned Coal Production in MTPA as per EC</b>	<b>Excess Production</b>
2003-04	13.66	10	3.66
2004-05	15.39	20	0.00
2005-06	17.94	20	0.00
2006-07	19.08	20	0.00
2007-08	21.50	20	1.50
2008-09	22.809	20	2.809
2009-10	24.09	25	0.00
2010-11	25.00	25	0.00
2011-12	25.00	25	0.00
2012-13	29.13	30	0.00
2013-14	29.20	30	0.00
2014-15	31.00	31	0.00
2015-16	31.00	31	0.00
2016-17	31.00	31	0.00
2017-18	34.35	35	0.00
2018-19	35.00	35	0.00
2019-20	25.18	35	0.00
2020-21	34.36	35	0.00
2021-22	34.37	35	0.00
2022-23	32.14	37.5	0.00
2023-24	33.41	37.5	0.00
2024-25	33.53	37.5	0.00

In pursuance to the OM dated 7/05/2022, Certified compliance report of the EC granted for 40% expansion, along with EIA/EMP report, for the additional capacity of 10% was submitted on PARIVESH portal on 01.03.2023 by the project proponent. Based on these documents, Ministry has to ascertain the adequacy of the proposed environmental safeguards and stipulate necessary conditions, if required, which shall be monitored as a part of the EC compliance monitoring.

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

**25.6.3: Certified Compliance Report:** The certified compliance report was obtained from Regional Office, Raipur vide letter no: EC-752/RON/2018-NGP/119, dated: 09.8.2024 in the name of Dipka Opencast Coal Mining Project of M/s. South Eastern Coalfields Limited. The Action taken report regarding the partially/non-complied condition was submitted to Regional Officer MoEF&CC, Raipur vide letter no: SECL/DA/ENVT/2025/403, dated: 15.01.2025. Based on ATR submitted, Regional Office inspected the ML area on 07/05/2025 and issued a report on 09.05.2025. The current status as per the report dated 09/05/2025 and the response of the proponent is furnished as below:

<b>S. No.</b>	<b>Observations made in CCR by the Sub Office, Raipur vide letter dated: 09/8/2024.</b>	<b>Updated status of compliance/ comments of Sub-Office, Raipur.</b>	<b>Action taken/ timeline provided by PP over comments of Sub-Office, Raipur.</b>
(i)	Submit all copies of CTEs/CTOs, certified past production details and details of court cases, show-cause notices, etc., to this Office (Present Status, Page No.2).	Project Authority submitted copies of CTE and CTOs obtained. Accordingly, Project Authority has renewed the CTO from the CECB vide letter dated 11/3/2025, which is	The details of litigations pending before various Judiciary inter-alia including Hon'ble Supreme Court of India along with

S. No.	Observations made in CCR by the Sub Office, Raipur vide letter dated: 09/8/2024.	Updated status of compliance/ comments of Sub-Office, Raipur.	Action taken/ timeline provided by PP over comments of Sub-Office, Raipur.
		valid from 15/3/2025 to 14/3/2026. Based on the discussion held with Project Authority during the visit, it appears that four litigations are pending before various Judiciary inter-alia including Hon'ble Supreme Court of India. Project Authority may update the same to the Ministry by a declaration duly signed by the Competent Authority in their Official letter. Project Authority in their reply submitted self-certified production details. Project Authority ought to have submitted past production details duly certified by the Chhattisgarh State Geology and Mining Department. In the action taken report no declaration is made available regarding details of Show cause Notice issued to the Project. However, during the visit Project Authority informed that no Show cause notice has been issued to the above project.	undertaking submitted to Ministry.  The past production details duly certified by the Chhattisgarh State Geology and Mining Department will be submitted by end of May 2025.
(ii)	Continuous AAQMS with a very small size digital display board has been installed far away from the mining area in the premise of Office of GM. A small size digital display board has not been working on the day of inspection. Therefore, the proponent is instructed to install as per the CPCB Guidelines and large size display board at the entrance gate of mine area to be seen by the general public (additional condition no.(iii), page no.6, general condition no.(iii), page no.3, general condition no.(iv), page no.32, general condition no.(3), page no.46 and general condition no.(15), page no.50).	Though one number of existing online CAAQM Station installed has been reportedly connected to the server of CPCB on 06/10/2023, so far no data has been shared / visible in the CPCB website. The existing display arrangement is very small and not visible to the public. So far, no corrective action has been taken in this regard. The new digital display board reportedly procured yet to be installed. As reported in the action taken report, Project Authority has procured two CAAQM Stations and both are under installation. Project Authority shall ensure that CAAQMs stations are installed both in buffer and core zone covering upwind and downwind directions in consultation with CECB.	02 Nos of CAAQMS with larger display board is being installed at Dipka Area and final stage of commissioning. PP undertakes that the Work of CAAQMS and Digital Display Board shall be completed by June 2025.
(iii)	Six partially complied conditions in certified compliance report dated 27/11/2019 by RO. Nagpur four have already been complied. However, no details have been received about other two conditions. Therefore, the	Partially complied conditions mentioned in the previous monitoring reports regarding development of vertical greenery system, still have not been effectively complied with. Project Authority informed that an effort	The PP undertakes that Vertical Greenery System (VGS) will be replanted again in the September 2025.

S. No.	Observations made in CCR by the Sub Office, Raipur vide letter dated: 09/8/2024.	Updated status of compliance/ comments of Sub-Office, Raipur.	Action taken/ timeline provided by PP over comments of Sub-Office, Raipur.
	proponent is instructed to submit action taken report / present status to this Office (additional condition no.4(iii), page no.8).	has been made, but the species planted are not alive. Despite having four dedicated operational Silos with two in-pit conveyor belts in the Railway siding, it has been observed that huge Coal is being stacked within the Railway siding of M/s SECL and also in the adjoining areas, apart from several coal stock yards already located within the ML area for dispatch of Coal through trucks by Road. It appears more than 50% of the coal from this Mine is being presently transported through trucks by road. Coal stacked within the railway Siding is shown.	
(iv)	The proponent informed that the Wildlife Conservation Plan has been prepared and implemented in consultations with the State Forest Department. However, no details have been received in this Office. Therefore, the proponent is Instructed to submit copy of approved Wildlife Conservation Plan and details of conservation efforts carried out till date to this Office (additional condition no.7(ix), page no.11, general condition no.(i), page no.27, and specific condition no.(16), page no.33, general condition no.(16), page no.41).	Based on the documents made available, it has been observed that Project Authority has prepared Wildlife Conservation Plan through Tropical Forest Research Institute and submitted the same to the Chhattisgarh State Forest Department for approval. After examining the same, a demand note was raised by the DFO, Katghora and project Authority reportedly deposited Rs.15.47 Crores to State CAMPA. Balance life of the Mine is around 6 years, however, copy of approval letter for the Wildlife Conservation Plan Prepared and its implementation status / Utilization Certificate issued have not been made available. Ministry may take appropriate view.	The approval letter from Chief Wildlife Warden submitted. Further PP undertakes to submit the implementation status/ Utilization certificate from DFO Katghora by end of July 2025.
(v)	The proponent informed that 23.17 lakhs native plantation (number as informed by the proponent) along roads, OB dumps, slopes, etc., has been completed. However, no creepers and climbers have been observed. Therefore, the proponent is instructed to comprehensive plan to this Office (specific condition no.(iv), page no.13, general condition no.(i), page no.20, and specific condition no.(16), page no.33).	Project Authority claims that plantation has been carried out. However, during the visit, it has been observed that the plantation within the ML area is inadequate, even in the stabilized O.B. dumps and its slopes. Project Authority relied upon on the work order issued to the CGRVVN. There is no any joint verification report with CGRVVN after plantation or the audit carried out by the reputed institution. Project Authority shall strengthen the plantation with native species. View of the OB dumps with inadequate stabilization with	The PP undertakes to carry out gap plantations in the already stabilized OB dumps and slopes where ever the density of plantation is found to be low, a plantation plan will be submitted by end of May, 2025.

<b>S. No.</b>	<b>Observations made in CCR by the Sub Office, Raipur vide letter dated: 09/8/2024.</b>	<b>Updated status of compliance/ comments of Sub-Office, Raipur.</b>	<b>Action taken/ timeline provided by PP over comments of Sub-Office, Raipur.</b>
		observed erosion on the slope of the O.B. is shown below.	
(vi)	The proponent informed that as per recommendations, the proponent has initiated proposals for hiring of additional long range fogging machine (1 No), mechanized sweeping machine (1 No) and procurement of fixed fogging cannons (15). The implementation of these dust control technology is expected to result in adequate management of dust emission from the mines. Therefore, the proponent is requested to furnish the present status to this office (specific condition no. (ix), page no.14).	As reported in the reply, Project Authority hired 15 Nos. of fixed fogging cannons and the same is yet to be installed. Two mechanized sweeping machines (one owned by the company and another one hired) is being deployed. Presently lot of heavy vehicle movement has been observed and thus generation of fugitive emission is also visible to the naked eyes in many areas, which needs immediate control measures by adopting suitable adequate dust suppression methods inter-alia including properly maintaining the internal roads and strengthening of greenbelt.	The installation of 15 No of fixed fogging machines will be completed by end of June 2025.
(vii)	The proponent informed that FC Stage-II for 16.794 ha was obtained. However, no copy of FC Stage-II for 16.794 ha has been received in this Office. Therefore, the proponent is instructed to submit copy of FC Stage-II for 16.794 to this Office (General condition no.(iv), page no.17, general condition no.(1), page no.36).	Copy of the Stage-II FC for 16.794 Ha has been made available in the reply. Based on the discussion held with the Project Authority, it has been observed that for part of the forest land having the area of 168.578 Ha already Stage II forestry clearance have been obtained. Remaining area of 240.571 Ha of forest land obtained only Stage-I Forestry clearance.	PP undertakes that no further forest land will be broken until Stage-II FC is obtained.
(ix)	The proponent informed that the comprehensive surface Drainage/catchment area treatment plan within 5 KM radius from mine lease boundary has prepared and implemented in consultations with the State Forest Department. However, no details have been received in this Office. Therefore, the proponent is instructed to submit surface drainage plan including surface water conservation plan to this Office (general condition no. (ii), page no.18).	Though the Reports have been reportedly prepared as mandated, Catchment area treatment plan still has not been implemented and thus the condition has not been effectively complied with.	The PP has requested for utilization certificate for implementation of the Catchment Area Treatment Plan from DFO Katghora and the same will be submitted to the Ministry by end of June 2025.
(x)	Ambient air quality monitoring report and fugitive emission reports of more than six months old have been received in this Office. Therefore the proponent is instructed to monitor afresh AAQ and fugitive emission and	Project Authority in their reply submitted monitored data of AAQ. From the monitored data made available, it has been observed that PM <sub>10</sub> levels in the AAQ near the railway siding is higher than the prescribed standard. From the data	PP submitted the monitored data regarding Fugitive emissions.

<b>S. No.</b>	<b>Observations made in CCR by the Sub Office, Raipur vide letter dated: 09/8/2024.</b>	<b>Updated status of compliance/ comments of Sub-Office, Raipur.</b>	<b>Action taken/ timeline provided by PP over comments of Sub-Office, Raipur.</b>
	submit reports to this Office (general condition no. (i), page no.20).	made available, it has been observed that details are not made available regarding fugitive emission monitored and its location and frequency of monitoring. It appears that project Authority relied upon the particulate matter monitored from the AAQ as fugitive emission. Fugitive emission and its monitoring mechanism is different from the AAQ.	
(xi)	The proponent mentioned that as the mine progresses in southwest direction, green belt will be developed in a phased manner as per land acquisition programme. Therefore, the proponent is requested to furnish comprehensive plantation plan to this office (general condition no. (ii), page no.21).	Presently plantation is inadequate. In the reply Project Authority assured to comply. Ministry may take appropriate view.	The PP undertakes to carry out gap plantations in the already stabilized OB dumps and slopes where ever the density of plantation is found to be low, a plantation plan will be submitted by end of May, 2025.
(xii)	The proponent has informed that no PUC certificate required for HEMM vehicles does not fall under the ambit of Motor Vehicle Act, 1989. The proponent has submitted PUC of only seven vehicles. However. During inspection many vehicles playing in and around the mine area have been observed. Therefore, the proponent is instructed to furnish details of all vehicles playing in and around the mine lease area to this Office (general condition no. (iv), page no.21, general condition no. (7), page no.40, general condition no. (7), page no.48).	As per the condition all the vehicles deployed needs to obtain PUC. The condition has been partly complied with. It has been observed that heavy vehicle movement is in higher intensity in the mine. It appears that part of the vehicles deployed has been obtained PUC and Project Authority is of the view that Heavy Machinery deployed for mining activity does not require PUC. In such circumstances project authority shall suitably amend the condition.	PP agreed to comply with requirement of PUC for all the vehicles except HEMM.
(xiii)	No detail of progress of implementation of action plan of EMP with pictures has been received in this Office. Therefore, the proponent is instructed to submit details to this Office (general condition no. (iv), page no.29).	Project Authority has not made available the implementation details for the action plan viz. R&R, Afforestation / Plantation, reclamation of dumps, Re-handling of internal dumps, etc. mentioned in the EMP. The condition has been partly complied with.	The implementation details for the action plan viz. R&R, Afforestation/Plantation, reclamation of dumps, Re-handling of internal dumps, etc. mentioned in the EMP will be submitted by end of June 2025.
(xiv)	No copies of self- environmental audit report 2023-2024 has been received in this Office. Therefore, the proponent is	PA has not made available any signed document in support of the self-environmental audit undertaken and its review by the	The PP undertakes carry out self-environmental audit and provide signed copy to Ministry within a

<b>S. No.</b>	<b>Observations made in CCR by the Sub Office, Raipur vide letter dated: 09/8/2024.</b>	<b>Updated status of compliance/ comments of Sub-Office, Raipur.</b>	<b>Action taken/ timeline provided by PP over comments of Sub-Office, Raipur.</b>
	instructed to submit self-environmental audit report 2023-2024 to this Office (general condition no. (v), page no.30).	authorities concerned rather project Authority relied upon the six-monthly compliance report. Third party thirdparty Environmental audit of EC compliance has been carried out through ICFRE – Dehradun during year 2022-23. Perused the unsigned report made available during the visit and observed that in the said third party monitoring report, compliance status to all the ECs have not been incorporated. Similarly, Project Authority has not submitted six monthly compliance reports for all the ECs/Amendments accorded to the project. In order to avoid multiple ECs, Project Authority may request MoEF&CC to issued consolidated EC while appraising the proposal.	time period of 03-months. PP also undertakes to submit six monthly compliance reports for all the ECs/Amendments accorded to the project.
(xv)	The proponent has not intimated commencement of mining operations to this Office. Therefore, the proponent is instructed to clarify for not communicating the commencement of mining operations to this Office (general condition no. (ii), page no.33).	On perusal of the documents submitted in the reply, it has been observed that no communication has been made to the Regional Office of MoEF&CC and thus the compliance has not been complied with.	The mine is operational and CTE obtained from CECB.
(xvi)	Construction work of new silos and in-pit conveyor belt has been in progress. Therefore, the proponent is instructed to complete work of in-pit conveyor belt and silo on priority and furnish its details to this Office (general condition no. (5), page no.37).	The work of new silos and new in-pit conveyor belt referred in the previous report has been completed and dispatch of coal has been commenced reportedly from February, 2025. However, the total distance for the new in-pit conveyor constructed to silos is very less and it may be around 50100 m, which is far away (more than 4 km) from the active mine pits and thus it will not absolve the purpose of minimizing the vehicular movement from the mine pit.	The mine is progressing in the southern direction and as per the plan, the in-pit conveyor constructed for Silo shall also be extended forward towards the mine face which is a part of phase-II of FMC project.
(xvii)	The proponent informed that the affected families have opted for monetary compensation in lieu of RR. Therefore, the proponent is instructed to submit details of present status of R & R plan to this Office (general condition no. (22), page no.44, general condition no. (14), page no.40).	Even after the lapse of several years from the grant of EC and at the verge of nearing the completion of mine life, the R&R activities have not been effectively implemented. Further, Employment has also not been provided as committed to all the eligible family members.	The implementation status of R&R shall be done by end of June 2025.



S. No.	Observations made in CCR by the Sub Office, Raipur vide letter dated: 09/8/2024.	Updated status of compliance/ comments of Sub-Office, Raipur.	Action taken/ timeline provided by PP over comments of Sub-Office, Raipur.
(xviii)	The air quality monitoring report. Fugitive dust emissions and heavy metals (Cu, Pb, Ni, Total Cr, Cd, Fe, Ar and Hg) monitoring reports of more than six months have been received in this Office. Therefore, the proponent is instructed to monitor afresh and submit such reports to this Office (general condition no. (4), page no.46).	The condition has been partly complied with. Project Authority is advised to monitor the heavy metals such as Cu & Hg also as stipulated. Further, fugitive emission needs to be monitored regularly from various source emission.	The Hg is monitored separately, whereas monitoring of Cu is not being undertaken currently. Which will also be included and report will be submitted to Ministry by end of June 2025.
(xix)	The proponent furnished the copy of action plan for implementation of EMP wherein year-wise funds earmarked kept in separate account. However, no detail of progress of implementation of action plan has been received in this Office. Therefore, the proponent is instructed to submit details to this Office (general condition no. (11), page no.49).	Comments of this Office mentioned at Sl. No. (xxiii) Above may be referred.	The implementation details for the action plan viz. R&R, Afforestation/Plantation, reclamation of dumps, Re-handling of internal dumps, etc. mentioned in the EMP will be submitted by end of June 2025.

#### 25.6.4: Compliance of Ministry's OM dated 07.05.2022

S. No.	Condition as per OM	Compliance
(i)	An application shall be made on PARIVESH Portal for exemption under para 7(ii) of EIA Notification 2006.	Applied for EC capacity of 37.5 MTPA on 23.07.2022 exemption under para 7(ii) of EIA Notification 2006.
(ii)	In the view of exigency as detailed above and as per the provisions of Para 4(iii) of EIA Notification as amended, all such expansion, irrespective of the mine area, shall be considered by the Ministry at the Central level.	Application has been considered by MoEFCC.
(iii)	The increase in production capacity up to 50% of original EC shall be allowed within the same mine lease area, based on the available reserves in the coal block, on same terms and conditions of the existing EC granted for 40% expansion of production capacity.	MoEFCC issued EC for 37.5 MTPA with same terms and conditions of the existing EC granted for 40% expansion of production capacity.
(iv)	Certified Compliance Report of the EC granted for 40% expansion, along with EIA/EMP report, prepared based on standard ToRs for the additional capacity of 10% shall be submitted on PARIVESH portal within six months of enhancement of production beyond 40%.	IRO MoEF, Raipur made a visit to the mine on 04.06.2022 and Certified Compliance Report was submitted to MoEFCC vide no. ECEC-752/RON/2018- NGP/883, Dated: 22/08/2022. This EIA/EMP report has been prepared based on standard ToRs for the additional capacity of 10%.
(v)	Based on the documents as mentioned in Para (iv) above, Ministry shall ascertain the adequacy of the proposed environmental safeguards and stipulate necessary conditions, if required, which shall be	PP has agreed to comply.

S. No.	Condition as per OM	Compliance
	monitored as a part of the EC compliance monitoring.	

**25.6.5: Environmental Site Settings:** The project area is covered under Survey of India Topo Sheet No. 64 J /11, Scale- 1:50000 and is bounded by the geographical coordinates ranging from 22°18'59" to 22°19'43" N and 82°30'47" to 82°33'34" E.

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

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

S. No.	Govt. Order/Notifications as the case may be	Area (ha)	Date of expiry of lease	Area involved in instant proposal (Ha)	Remarks
1	S.O.1562, dated: 11th April 1986	1701.363	10.04.2085	1999.293	The remaining land 140.374 ha (2139.667 ha-1999.293 ha) is part of 333.366 ha notification consists of Forest land 0.093 ha and balance area is non-forest land.
2	S.O.3095, dated: 24th November 2004.	333.366	23.11.2103		
3	S.O.1912, dated: 23rd July 2010	104.938	22.07.2109		
<b>Total</b>		<b>2139.667</b>		<b>1999.293</b>	

**Forest Area:** The project involves total 409.056 Ha of forest land. Total broken forestland is 175.925 Ha. The details of the approval obtained / applied status is as follows:

Area (Ha)	Proposal no.	Stage-I /Stage-II FC letters no. & date	Status and Validity	Remarks
206.638 Ha (Regularization)	FP/CG/MIN/1452/2006	F. No. 8-80/2006 -FC, dated-20/10/2006	Stage – I FC and 20 years	Mining has been started since 1988-89. The instant land was revenue land which was declared as CJJ/BJJ after 1996 (T.N. Godavarman 1996 case). Prior to its declaration as forest land same was used/broken for mining purpose (50.872 ha out of 206.638 ha). Consequently, for regularization of same forestland, the application was submitted on 19.04.2005 for which Stage-I was issued in 2006. It is pertinent to mention that, penal NPV has been imposed by MoEFCC and same has been deposited. ADS for 4 <sup>th</sup> times have been raised by MoEFCC and reply has been submitted to State Govt to forward/recommend the same to MOEFCC. Regularization of proposal for Stage – II FC is awaited.
33.84 Ha (Renewal)	FP/CG/MIN/1461/2006	F. No. 8-8/2006 -FC, dated-03/03/2010	Stage – I FC and 20 years	The FC Stage -II was issued vide F.No. 8-171/92-FC on 31.07.1995 valid for 10 years. It is a renewal case for which stage-I was granted in 2010. SECL deposited a lumpsum amount of Rs. 350 Crores in 2006-07 with CEC

Area (Ha)	Proposal no.	Stage-I /Stage-II FC letters no. & date	Status and Validity	Remarks
				as per directives of Hon'ble Supreme Court of India for carrying out mining activities towards NPV. Infrastructure has been developed on above land after obtaining Stage-II in 1995. ADS for 5 <sup>th</sup> times has been raised by MoEFCC and reply has been submitted to State Govt to forward/recommend the same to MOEFCC. Stage – II FC is awaited.
<b>240.478 Ha</b>	<b>SUB TOTAL-STAGE-I</b>			
148.866 Ha	FP/CG/MIN/1454/2006	F. No. 8-78/2006 -FC, dated- 31.01.2022	Stage – II FC and 30 years	Only 133.707 Ha area diverted to Dipka SECL and remaining area of 15.159 ha has been diverted to NTPC vide F. No.8-115/2003-FC dated: 30.06.2004
16.794 Ha	FP/CG/MIN/666/1998	F.No. 8C/6/591/98/FCW/78, 11/01/2001	Stage – II FC and 30 years	Against 19.975 ha applied, 16.794 ha area diverted in favour of Dipka OC
2.918 Ha	FP/CG/ROAD/1066/2001	F.No. 8B/115/2001-FCW/869, 03/04/2002	Stage – II FC and 30 years	FC obtained by Spectrum Coal and Power Ltd (Coal Washery) located within ML boundary of Dipka for construction of road, conveyor belt & coal washery.
<b>168.578 Ha</b>	<b>SUB TOTAL-STAGE-II</b>			
<b>409.056 Ha</b>	<b>TOTAL FOREST LAND</b>			

**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 further submitted that Wildlife Conservation Plan (WLCP) was prepared by The Tropical Forest Research Institute, Jabalpur in year 2020. Wildlife conservation plan for Schedule I species [Slothh Bear (*Melursus ursinus*) VU, Common leopard (*Panthera pardus*) VU, Indian Python (*Python molurus*) VU, King cobra (*Ophiophagus Hannah*) VU, Jackal (*Canis aureus*) LC, Indian Monitor lizard (*Varanus benghalensis*) NT, Rat snake (*Ptyas mucosa Linnaeus*) (LC) and Russell's Viper *Daboia Russlii* (LC) are Scheduled I species (as per WPA 2022) found in study area.] has been submitted to State Forest Department and approved on 04.11.2022. An amount of Rs.15.47 Crores has been paid to CAMPA for implementation of the plan.

#### Other Sensitive Receptors (within 5km radius of the ML area)

Project site proximity to sensitive area i. Habitation	<b>i. Habitation</b>		
	Particulars	Distance	Direction
	Pragati Nagar township	3 km	North
	Urja Nagar township	4 km	North East
	Renki village	4 km	South west
	Jhabar village	3 km	North
ii. School	<b>ii. Schools</b>		

iii. River/Waterbody  
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No diversions are proposed for the instant project.

#### 25.6.6: Method of Mining and Mining Plan –

The Mining Plan (including Mine Closure Plan) was approved by SECL Board on 07th July 2022 in its 128th meeting.

- Method of mining proposed to be carried out is opencast mining using combined mining system deploying shovel dumper combination and Surface Miner.
- Total geological reserve reported in the mine lease area as on 01.04.2006 was 617MT and the balance mineable reserve as on 01.04.2024 is 99.371MT. Out of the mineable reserve of 99.371MT, 99.371MT are available for extraction. Percent of extraction is 100%.
- There are 03 nos. seams with thickness ranging from 2.19 m – 70.15 m are workable. Grade of coal is G10/G-11, stripping ratio 1:1.80, while gradient is 1 in 9 to 1 in 17.
- The average grade of coal is G-8 and stripping ratio is 5.67 m<sup>3</sup>/t (As on 01.04.2024).
- Life of mine is 02 years (As on 01.04.2025).
- The project has 03 nos. external OB dumps in an area of 206.00 ha with 90 m height and 81.00 Mm<sup>3</sup> of OB. 03 nos. internal OB in an area of 780.00 ha with 534.00 Mm<sup>3</sup> of OB is envisaged in the project.
- Total quarry area is 1002.053 ha out of which backfilling will be done in 780.00ha while final mine void will be created in an area of 222.053 ha with a depth of 30 m. Backfilled quarry area of 780.00 ha shall be reclaimed with plantation. Final mine void will be converted to water body.
- Land-use details:
  - Pre-mining:

S. No.	Land use	Within ML area (ha.)	Total (ha.)
1.	Agricultural land	1266.328	1266.328
2.	Forest land	409.056	409.056
3.	Waste Land	0.00	0.00
4.	Grazing Land	0.00	0.00

S. No.	Land use	Within ML area (ha.)	Total (ha.)
5.	Surface Water Bodies	9.080	9.080
6.	Settlements	142.916	142.916
7.	Others (Govt. Land)	171.913	171.913
	<b>TOTAL</b>	<b>1999.293</b>	<b>1999.293</b>

b. Post mining:

S. No.	Type	Total Area (Ha)	Reclaimed Area (Ha)	Un-reclaimed/ Undisturbed Area (Ha)
1	Excavation/Quarry Area			
	(a) Backfilled areas	780.00	780.00	
	(b) Excavated Void/mine batter	222.053	-	222.053
2	External Dump	206.00	206.00	
3	Safety Zone/Undisturbed & Green belt	153.366	153.366	-
4	Road & Infrastructure	637.874	-	637.874
	<b>Total</b>	<b>1999.293</b>	<b>1139.366</b>	<b>859.927</b>

9. Details of transportation:

(i) In-pit to surface: Through rear dumpers and trucks

S. No	Description	Mode	Lead
A	From coal face to CHP receiving pit	Through rear dumpers and trucks - Road	3.5 km within ML area
B	Coal face to receiving pit of Belt conveyor (Surface miner Coal)	Through rear dumpers and trucks - Road	4.3 km within ML area
C	From coal face to coal yard (Surface miner Coal)	Through rear dumpers and trucks - Road	1.5 km -2.5 km within ML area

(ii) Surface to siding: Through enclosed conveyor belt / CC Road

S. No	Description	Mode	Lead
A	From Conveyor receiving station to Silo	Through conveyor	4.9 km within ML area
B	From TRS to Silo	Through Belt conveyor	6 km within ML area
C	From coal yard to siding	Road mode	4 km within ML area

(iii) Siding to loading:

S. No	Description	Mode
A	By Rapid loading system to railway wagons	Through silo (MGR)
B	By Rapid loading system to railway wagons	Through silo (FMC)
C	Truck loading at Coal yard	Through front end loader
D	Siding to Wagon	Pay loader

(iv) Quantity being transported by rail/ road/ conveyor/ ropeway:

Mode	Lead	2023-24	2024-25
Rail	15 Km (Mostly to NTPC seepat, CSPGCL, other powerplants in upcountry)	26.87 MT	24.27 MT
Road	250 km - other small Consumers	8.19 MT	7.68 MT
<b>Total</b>		<b>35.06 MT</b>	<b>31.95 MT</b>

10. Details of reclamations: Total afforestation for the instant project shall be done in 1139.366 ha. Reclamation on external OB dump of 206 ha, reclaimed backfilled area in the form of

internal OB dumps of 780 ha, greenbelt & safety zone of 153.366 ha, density of plantations shall be 2500 nos of plants per ha. A void of 222.053 ha with the depth of 30 m will be converted into water body. Area under infrastructure will be reclaimed at the end of mining.

#### 25.6.7: Baseline data:

Period	October 2022-December 2022																				
AAQ parameters at 9 locations (min and max)	<div>Core Zone</div> <div>PM<sub>2.5</sub> = 60.6 µg/m<sup>3</sup> to 76.5 µg/m<sup>3</sup></div> <div>PM<sub>10</sub> = 106.5 µg/m<sup>3</sup> to 131.6 µg/m<sup>3</sup></div> <div>SO<sub>2</sub> = 28.2 µg/m<sup>3</sup> to 35.6 µg/m<sup>3</sup></div> <div>NO<sub>x</sub> = 22.5 µg/m<sup>3</sup> to 32.0 µg/m<sup>3</sup></div> <div>Buffer Zone</div> <div>PM<sub>2.5</sub> = 22.4 µg/m<sup>3</sup> to 51.5 µg/m<sup>3</sup></div> <div>PM<sub>10</sub> = 48.1 µg/m<sup>3</sup> to 83 µg/m<sup>3</sup></div> <div>SO<sub>2</sub> = 6.7 µg/m<sup>3</sup> to 23.8 µg/m<sup>3</sup></div> <div>NO<sub>x</sub> = 5.3 µg/m<sup>3</sup> to 21.1 µg/m<sup>3</sup></div>																				
Incremental GLC level (Maximum value of the 9 receptor locations monitored)	PM10 =86.53 µg/m <sup>3</sup> (3.53 Incremental Level at 2.43km in downwind (SSW)) PM2.5 =52.57 µg/m <sup>3</sup> (1.07 Incremental Level at 2.43km in downwind (SSW)) SO2 = 23.80 µg/m <sup>3</sup> (0 Incremental Level at 2.43km in downwind (SSW)) NOx = 23.03 µg/m <sup>3</sup> (1.93 Incremental Level at 2.43km in downwind (SSW))																				
Ground water quality at 7 locations	pH: 6.5 to 7.58, Total Hardness:106 to 322 mg/l, Chlorides: 43.99 to 138.96 mg/l, TDS: 242 to 704 mg/l Heavy metals (As, Cd, Cr, Pb, Ni) were found to be below detection limit																				
Surface water quality at 6 locations	Surface Water monitoring was done at 06 locations: pH: 7.16 to 7.90 DO: 5.6 to 7.5 mg/l BOD : <2.0 to 2.9 mg/l																				
Noise levels Leq (Day and Night)	Industrial zone: 66.5 to 71.3 dB(A) for the day time and 52.9 to 61.2 dB(A) for the Night time.  Residential zone: 44.3 to 51.1 dB(A) for the day time and 35.6 to 39.1 dB(A) for the Night time.																				
Traffic assessment study findings	<div>Traffic study has been conducted at the existing 4-lane undivided (2-way) of 20m width (Collector road). The existing volume is 9034.05 PCU/day, capacity is 15000 PCU/day. Thus the V/C ratio is 0.602. Hence, the existing level of service (LOS) is D. No additional vehicle is proposed. All coal will be dispatched through rapid SILO.</div> <table><tr><th>S. No</th><th>Parameter</th><th>Existing</th></tr><tr><td>1</td><td>Road</td><td>4 Lane Undivided (Two-Way) of 20m Width (Collector Road)</td></tr><tr><td>2</td><td>V(volume in PCU/Day)</td><td>9034,05</td></tr><tr><td>3</td><td>C(Capacity in PCU/Day)</td><td>15000</td></tr><tr><td>4</td><td>Existing V/C Ratio</td><td>0.602</td></tr><tr><td>5</td><td>LoS</td><td>D (Represents a condition of stable flow )</td></tr></table>			S. No	Parameter	Existing	1	Road	4 Lane Undivided (Two-Way) of 20m Width (Collector Road)	2	V(volume in PCU/Day)	9034,05	3	C(Capacity in PCU/Day)	15000	4	Existing V/C Ratio	0.602	5	LoS	D (Represents a condition of stable flow )
S. No	Parameter	Existing																			
1	Road	4 Lane Undivided (Two-Way) of 20m Width (Collector Road)																			
2	V(volume in PCU/Day)	9034,05																			
3	C(Capacity in PCU/Day)	15000																			
4	Existing V/C Ratio	0.602																			
5	LoS	D (Represents a condition of stable flow )																			
Flora and fauna	Wildlife conservation plan for Schedule I species [Slothh Bear (Melursus ursinus) VU, Common leopard (Panthera pardus) VU , Indian Python (Python molurus) VU, King cobra (Ophiophagus Hannah) VU, Jackal (Canis aureus) LC, Indian Monitor lizard (Varanus benghalensis) NT, Rat snake (Ptyas mucosa Linnaeus) (LC) and Russell's Viper Daboia Russlii (LC) are Scheduled I species (as per WPA 2022) found in study area.] has been submitted to state forest department and approved on 04.11.2022. Rs.15.47 Crores has been paid to CAMPA for implementation of the plan.																				
Water Requirement	<table><tr><td>Source of Water</td><td>Mine Seepage Water/ Ground Water &amp; accumulated rain water</td></tr></table>			Source of Water	Mine Seepage Water/ Ground Water & accumulated rain water																
Source of Water	Mine Seepage Water/ Ground Water & accumulated rain water																				

Period	October 2022-December 2022	
	Ground Water Intersection	Yes Pre-Monsoon : The ground water level has been reported to vary between 3.65 m bgl to 8.42 m bgl Post-Monsoon : The ground water level has been reported to vary between 1.80 m bgl to 7.50 m.bgl
	Water Requirement	7302 KLD approx
	NOC (Ground Water)	NOC from CGWA obtained vide NOC no. CGWA/NOC/MIN/REN/2/2024/9412 issued on 19.04.2024 which was valid from 26.02.2023 to 25.02.2025. The renewal application was submitted online on 20.02.2025. EAC for CGWA NOC was held on 10.03.2025. The status is shown as “Approval”& NOC is awaited.

**25.6.8: Water Requirement:** PP submitted that the total water required for the project is 7302 KLD Source of water is Mine Seepage Water, tube wells & accumulated rain water. NOC from CGWA obtained vide NOC no. CGWA/NOC/MIN/REN/2/2024/9412 issued on 19.04.2024 which was valid from 26.02.2023 to 25.02.2025. The renewal application was submitted online on 20.02.2025. EAC for CGWA NOC was held on 10.03.2025. The status is shown as “Approval” & NOC is awaited

**25.6.9: Power Requirement and details of diversion of Hi-Tension/ Transmission Line:** The power required for the said project is 21500 KVA, which is sourced from M/s. Chhattisgarh State Power Distribution Company Limited. Further, no Hi-Tension/ Transmission Line is required to be diverted.

**25.6.10: Solid and Hazardous Waste:**

S. No	Type of waste	Source	Quantity	Mode of treatment	Disposal	Remarks
1	Municipal Solid Waste	Residential Colony & Office building	200 T/Annum	Door to door collection of segregated waste is done by project & further processing through composting & landfilling	Door to door collection of segregated waste is done by project & further processing through composting & landfilling	
2	Hazardous Waste- Category 5.1 (Used Oil)	HEMM	300 KL/Annum	Auctioned for Recycling & reprocessing through registered/authorized recycler.	Auctioned for Recycling & reprocessing through registered/authorized recycler.	Transported through authorized transporters in authorized vehicles.
3	Hazardous Waste- Category 5.2 (Waste containing oil)	HEMM/ Workshop	20 T/Annum	Sent to authorized TSDF	Sent to authorized TSDF	Transported through authorized transporters in authorized vehicles.
4	Hazardous Waste- Category 35.4 (Oil & Grease Skimming Residue)	ETP	1 T/Annum	Sent to authorized TSDF	Sent to authorized TSDF	Transported through authorized transporters in authorized vehicles.
5	Battery waste	Batteries of HEMM,	2 T/Annum	Sent to authorized recyclers	Sent to authorized recyclers	

S. No	Type of waste	Source	Quantity	Mode of treatment	Disposal	Remarks
		Light Vehicles				

**25.6.11: Status of implementation of action plan as per the Public Consultation held on 05.09.2008 for the EC dated 03/06/2009:**

Details of Advertisement given	Published in Navbharat and Haribhoomi
Date of Public Consultation	05.9.2008
Venue	Tehsil Parisar, Katghora Dist - Korba
Presiding Officer	Additional District Magistrate (ADM), Korba
No. of persons attended hearing	120
No. of representations/main issues received	25
Major Issues	Major issues addressed were tree plantation, pollution control, blasting and employment.

**Action Plan as per MoEF&CC O.M. dated 30.09.2020:-**

Sl. No	List of Projects	Existing expenditures (In Lakhs)	Year of implementation (Budget in Lakh)		Total Expenditure (in Lakhs)	Physical targets
			1	2		
1	Infrastructure creation for drinking water Supply					
a	Providing safe drinking water	584.91	100	100	784.91	Construction of 01 MLD Water Treatment Plant at Pragati Nagar
2	Sanitation					
a.	Waste Water Treatment	931.52	100	100	1131.52	Construction of STP at Pragati Nagar.
b.	Health & Hygiene					Sanitary Napkin Vending Machine Installation in 05 No of schools (Nunbira, Nunera, Bashibag, Litiagarh, Bandhagarh)
3	Education					
a	Development of School Infrastructure	1308.46	5	5	1318.46	Smart Classroom development in 05 Nos of schools (Nunbira, Nunera, Bashibag, Litiagarh, Bandhagarh)
4	Skill Development					
a	Training to unemployed youths and women.	1.14	0.5	0.5	2.14	Providing Training (Training in mushroom cultivation) to Unemployed youths and women of nearby villages (Ratija, Sirki, Hardi Bazaar, Sarai Singar)
5	Basic Health Infrastructure					
a	Rural Medical Camps	280.48	5	5	290.48	Providing Medical Camps in nearby Villages (Hardi Bazaar, Malgaon, Suwabhodi, Gandhi Nagar, Renki, Nunbira, Nehru Nagar, Chakabuda, Tilwaripara etc.)
6	Road Infrastructure					



Sl. No	List of Projects	Existing expenditures (In Lakhs)	Year of implementation (Budget in Lakh)		Total Expenditure (in Lakhs)	Physical targets
			1	2		
a	Construction of roads.	4157.46	200	500	4857.46	1) Construction of CC road from Shramik Chowk to Batari. 2) Widening of road from BSES chowk to Pragati Nagar. 3) Construction of road from Barrier-1 to Hardi Bazaar road
	<b>Total (in Lakhs)</b>	<b>7263.97</b>	<b>410.5</b>	<b>710.5</b>	<b>8384.97</b>	

**25.6.12: EMP Budget:** The capital cost of the existing project is Rs.2129.09 Crores and the capital cost for environmental protection measures is proposed as Rs.5.78 Crores. The annual recurring cost towards the environmental protection measures is proposed as Rs.38.57 Crores. The details of cost for environmental protection measures is as follows:

S. No.	Description of Item	Existing and proposed (In Lakh)	
		Capital Cost	Recurring Cost/annum
(i)	Air Pollution Control/Noise Management	3072.27	132.10
(ii)	Water Pollution Control	1890.02	18.98
(iii)	Environmental Monitoring and Management	75.00	335.36
(iv)	Green Belt & Plantation Development	835.66	338.43
(v)	Other Measures as suggested in EACs	6736.04	3032.23
	<b>Total</b>	<b>12,608.99</b>	<b>3857.1</b>

**25.6.13: Plantation:** A 7.5 m wide greenbelt, consisting of at least 3 tiers around mine boundary will be developed as greenbelt and green cover as per CPCB/ MoEF&CC, New Delhi guidelines. Local and native species will be planted with a density of 2500 trees per hectare. Existing green belt has been developed in 6.3 ha area as safety zone with total sapling of 15750 plants out of the total proposed 23 Ha. Total green cover developed within the ML area including the plantation/gap plantations on OB dumps, green belt, plain areas etc. is 532.70 Ha with a total of 23.96 Lakh saplings. Additional plantation will be developed in 606.66 ha i.e. 53.25 % of the total area to be reclaimed as green cover. Total plantation proposed post closure is 1139.36 Ha.

In addition to this, plantation of 2.90 lakh saplings in about 130 Ha has been done outside the Mine Lease by the Project during the past 02 years.

**25.6.14: Rehabilitation and Resettlement (R&R):** A total of 2211 PAFs (2988 land oustees) were involved during the initial R&R of the project. Total 382 oustees have been given compensation. 42 Nos of compensated against in lieu of employment out of 1715 entitled employment and 1529 persons have been provided with permanent employment. Balance employment to be given 144. Out of 2211 PAFs, 507 are settled at R&R sites, 1219 have been provided with cash grant.

Pending R&R issues are as follows:

- No. of PAFs to be resettled are 485

2. No. of land oustees to be compensated are 2606
3. No. of PAPs to be given employment are 144

**25.6.15: Project Cost:** The capital cost of the existing project is Rs.2129.09 Crores and the capital cost for environmental protection measures is proposed as Rs.5.78 Crores. The annual recurring cost towards the environmental protection measures is proposed as Rs.38.57 Crores

**25.6.16: Details of pending litigation:**

- i. Case No: 826/2021 civil appeal was filed in the Hon'ble Supreme Court of India under section 22 of the National Green Tribunal Act, 2010 against the final order dt: 25.08.2020 of the National Green Tribunal, Principal Bench at New Delhi in appeal no. 79 of 2018 titled Laxmi Chauhan vs UOI & others. The case is under subjudice at the Hon'ble Supreme Court of India. The case is pertaining to challenging the EC granted vide letter dated 20.02.2018, for which as per the Ministry's OM dated 15.09.2017.
- ii. Case No: 1217/2007 was filed in the court of CJM Korba by CECB against SECL and CGM, Dipka Area against excess production during 2001-2002 without CTO. A petition CRMP 515/2011 was filed by SECL in Chhattisgarh High Court against the case. The SECL petition was dismissed by High Court vide order dated: 18.06.2019. The case is under subjudice at the court of CJM, Katghora.
- iii. Case No: 26/2009 was filed in the court of Judicial Magistrate First Class, Katghora by CECB against SECL and Shri Debasis Chatterjee (Ex.CGM, Dipka Area). Judgement was conferred on 14.07.2014 in favour of SECL by acquitting from all charges. A petition CRMP 859/2014 was filed by CECB in Chhattisgarh High Court against the issued order. The case is under subjudice at the Hon'ble High Court of India.

**25.2.17: Undertaking/Affidavit:** PP vide an Undertaking submitted that There is no construction done at the site without any deviation as per previous Environmental Clearance obtained vide letter no. J-11015/7/93-IA.II(M) dated 27.07.1993 (10MTPA): J-11015/87/2003-IA-II(M) dated 04.10.2004 (20 MTPA): J-11015/487/2007- IA-II.(M) dated 03.06.2009 (25 MTPA): J-11015/487/2007- IA-II.(M) dated 12.02.2013 (30 MTPA): dated 06.02.2015 (31 MTPA):dated 20.02.2018 (35 MTPA): dated 20.03.2019 (35 MTPA):dated 09.03.2020 (35 MTPA): dated 05.09.2022 (37.5 MTPA)

There are three court case no. 1217/2007 & 26/2009 in the court Judicial Magistrate First Class, Katghora and Case No. 826/2021 civil appeal was filed in the Hon'ble Supreme Court of India under section 22 of the National Green Tribunal Act, 2010.

The land has been acquired by Govt. of India under Coal Bearing Areas (Acquisition & Development Act. 1957) and vested in South Eastern Coalfields Limited vide notification no. S.O.1562, dated: 11th April 1986, S.O.3095, dated: 24th November 2004, S.O.1912, dated: 23rd July 2010. The land is in possession of the Dipka Opencast expansion Project of South Eastern Coalfields Limited. There is no difference in the documents submitted i.e. Form-1. EIA-EMP, Mining Plan, and Presentation being made to the EAC. The proposal has been submitted for Revalidation of Environmental Clearance of. Dipka Opencast Coal Mine project 50% expansion) obtained vide letter no. J-1015/487/2007-IA-II.(M) dated 05.09.2022.

Further, vide an Undertaking, PP submitted that the information provided in Form-1 in pdf format in PARIVESH, to the Ministry/EAC members and PPT presentation during the EAC meeting to be held on 9<sup>th</sup> May 2025 have no deviation in respect of the proposal no. IA/CG/CMIN/420565/20235 for regularization of Environment Clearance for Dipka Opencast Coal Mine project having 1999.293 ha of ML area/Project area and capacity of 37.50 MTPA located at Villages: Chainpur, Beltikri, Jhingatpur, Jhabar, Sirki, Renki, Suwabhondi, Ratija,

Malgaon, Hardibazaar, Amgaon & Dipka; District: Korba; State: Chhattisgarh State by South Eastern Coalfields Limited. 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.

## **22.2.18: ADS Reply**

The PP applied to vide proposal no. IA/CG/CMIN/420565/2023, dated: 01.03.2023 and the proposal was considered in the 43rd EAC meeting held on 24th April 2023, the 48th meeting held during 25-28th August 2023, 3rd EAC held during 16-17th November 2023 and the 10th meeting held on 9th April 2024, wherein the committee has deferred the proposal for want of additional information. The PP submitted the information vide its letters dated 05.08.2023, 23.10.2023 19.03.2024, 17.01.2025 and 07.05.2025 respectively and the project is now listed for appraisal in 25<sup>th</sup> EAC meeting held on 9<sup>th</sup> May 2025.

PP also uploaded information on the PARIVESH Portal. The information so far submitted by the PP w.r.t observations of EAC are as follows: -

S.No	ADS sought by EAC during the meeting held on 24.04.2023	Reply of PP
1.	PP shall submit the updated Report on the implementation of fully automated system for 20 MTPA i.e. in-pit conveyor and silo loading system till railway siding.	<p>Conveyor and Silo Loading System:-</p> <ul style="list-style-type: none"> <li>■ An arrangement for 15MTY coal loading using 02 Nos of Silos each having 3200 T capacity with Rapid Loading System (5500-6000 TPH) was initially constructed at Dipka Expansion Project against LoA dated: 02.02.2006 at a cost of Rs.30.90 Crores which came into operation in the year 2009. Sized coal from Feeder Breaker (mini-CHP) is fed into 02 no. of belt conveyors using truck receiving hoppers with vibratory feeders which further discharge the coal into the Silos for loading the wagons.</li> <li>■ Further on 04.07.2009, Dipka Project issued LoA for main CHP having 04 no. of Truck Receiving Station, in-pit belt conveyor system of 2300 TPH capacity and 02 no. of RCC overhead bunkers of each 10000 T capacity at a cost of Rs.206.51 Crores. The in-pit belt conveyor system and RCC bunkers were connected to the existing 02 Nos of Silos, thus completing the fully automated system for 20 MTPA coal dispatch capacity which became operational in August 2014. PP also submitted the copy of agreements between SECL and S.K. Samanta &amp; Co. (P). Ltd, Schematic diagram and Photographs of In-pit Conveyor and Silo.</li> <li>■ The main CHP (in-pit conveyor system) was designed for 20 MTPA capacity in which 15 MTPA coal was designed for dispatch through 02 no. of Silos and remaining 5MTPA was designed to dispatch through truck loading System.</li> </ul> <p>First Mile Connectivity Project:-</p> <ul style="list-style-type: none"> <li>■ Now, a Mechanized Siding with Rapid loading system having additional capacity of 25 MTY is under construction at Dipka Expansion Project as a part of First Mile Connectivity Initiative of MoC. This will help Dipka Project to achieve 100% coal dispatch through rail mode.</li> <li>■ The LoA was awarded to McNally-AML on 18.01.2021 for a total work value of Rs. 211.22 Crores. The</li> </ul>

S.No	ADS sought by EAC during the meeting held on 24.04.2023	Reply of PP
		<p>construction activities of mechanized siding to handle coal handling capacity of 25 MTPA, having 02 no. of RCC silo 3000 T capacity each with Rapid Loading system of 4500-8500 TPH capacity, truck receiving station, RCC overhead Bunker of 20000 T and associated belt conveyors with Transfer Points is in progress. PP Submitted the progress report as on 01.08.2023.</p> <p>■ The physical completion of the FMC project is 85% and financial completion is 85.33% with an expenditure of Rs. 190.13 Crores. The construction activities of the FMC project will be completed by the end of September 2023 and will be operational by November 2023.</p>
2.	PP shall submit the current status on reclamation and progressive mine closure of the mine with incurred expenditure.	<p>■ Presently, the overburden removed by Dipka Opencast Coal Mine Project is 100% backfilled in internal dumps. PP submitted the status on land reclamation as on 31.07.2023.</p> <p>■ Progressive mine closure plan is incorporated in 37.50 MTPA Mine Plan approved by CoFD on 12.07.2022. Yearly mine closure compliance report is submitted to Coal Controller Officer, Kolkata. PP also enclosed the mine closure reports. PP submitted the details of fund deposited in escrow account till 01.7.2023, claim against mine closure activities and the reimbursement against the claim from 2009-2020, activity wise expenditure</p>
3.	PP shall submit the expenditure status of already allocated budget in the Public Hearing. Along with the expenditure status for the activities involved in EMP and R&R.	<p>■ Separate budget allocation has not been made for the earlier Public Hearing held for Dipka Opencast Coal Mines in 2008. However, the expenditures incurred for issues raised in PH such as R&amp;R activities, CSR works, etc. is provided by PP.</p> <p>■ Capital &amp; Revenue Expenditure Status for the activities as per the EMP was enclosed along with the reply.</p> <p>■ PP submitted details of expenditures incurred at R&amp;R sites. It is to be noted that many of the R&amp;R infrastructures were developed before 2005. Expenditures on R&amp;R sites are one-time expenditures after which it is handed over to the panchayat. However, the project still takes up repair, renovation and sometimes maintenance of those infrastructures under revenue expenditures upon requests from Sarpanch.</p>
4.	PP shall submit the status of expenditure spent for CSR activities.	<p>■ The CSR activities are taken up by Dipka Opencast Coal Mines based on the recommendation of the District Collector and in line with the CSR Policy. The CSR expenditures was taken up by SECL till 2014-15. However, since 2015-16 identification of CSR works, and allocation of funds are decided by the District Administration against which SECL sanction fund. The district administration is the executing authority of CSR works.</p> <p>■ The detailed fund allocation and expenditure for CSR activities are enclosed in the reply.</p>
5.	PP shall complete the construction of wind barrier wall as per the EC condition along the railway siding.	Wind Barrier Wall of 20 ft height has been constructed using GI sheet and brick work covering the entire 750 m length of Railway Siding of Dipka Opencast Coal Mines. The total expenditure incurred was Rs. 3.06 Crores.
6.	PP shall maintain the check/garland drains and siltation ponds.	<p>■ Garland/Catch drains in the form of pucca and kachha drains have been constructed around mines, coal stock and dumps for channelling of runoff water during monsoon season. Catch Drains for a total length of 24,760 m have been provided along the toe of dumps, around the quarry, along haul roads and approach roads in the OCP area.</p> <p>■ The details of catch drains and garland drains constructed at Dipka OCP is below: -</p>

S.No	ADS sought by EAC during the meeting held on 24.04.2023	Reply of PP			
		Catch Drain/ Garland Drain	Location	Length	Dimensions
		Around OB Dumps	Jhingatpur OB Dump	1200	2.0x1.50m
			Western Side of Ext Dump (6&7)	4500	2.0x1.5m
			External OB Dump (1&2)	800	3.0x1.5m
			External OB Dump (3)	1758	1.0x1.0 m
			Ext Dump (5)	1628	1.0x1.0m
		Around the quarry	Mine No.2	2200	3.0x2.0m
			OB Dump below GTP camp	2000	2.0x2.0m
			Along HB bypass road	2500	2.0x1.50m
		Catch Drain along haul road	Behind Coal Stock 17	2000	2.0x1.50m
			Coal Stock 18-19 near mobile crusher	750	1.0x1.0m
			Near mobile crusher behind MTK-2 to coal stock 15	1500	2.0x1.0m
			Neem Garden Road	1600	2.0x2.0m
			Erection yard to Mobile Crusher near Coal Stock 18&19	1140	2.0x2.0m
		Catch Drain along approach road	Near Old Auto Section	70	2.0x1.5m
			From Dump 1&2 to Lilagarh Nallah	4500	8.0x4.0m (varying)
		Total		28146	
		<ul style="list-style-type: none"> <li>■ The Catch Drains and Garland Drains are desilted and maintained before onset of monsoon.</li> <li>■ Check dams and bunds were constructed at Jingatpur Dump (25,800 cum) and at Renki Dump (8000 cum) to arrest siltation and protect the dumps from rain cuts. An embankment (400m length) is provided along Lilagarh Nallah using stone masonry in cement sand mortar.</li> <li>■ There are 02 mine water sedimentation ponds and 14 rainwater harvesting ponds constructed by the project. De-</li> </ul>			

S.No	ADS sought by EAC during the meeting held on 24.04.2023	Reply of PP
		siltation/ deepening of ponds are taken up from time to time based on the level of silt deposition.
7.	PP shall submit the status of implementation of the action plan for conservation and protection of Endangered flora/ fauna from Forest Department.	<ul style="list-style-type: none"> <li>■ The Wildlife Conservation plan for Dipka Opencast Coal Mine Project prepared through TFRI Jabalpur was approved by APCCF (Wildlife) vide letter no: 187, dated: 04.11.2022.</li> <li>■ A Demand Note for Rs. 1547 lakhs was raised by DFO Katghora on 08.12.2022 which was paid to Chhattisgarh CAMPA on 01.03.2023.</li> <li>■ The Project submitted a request letter on 20.07.2023 and had approached Chief Executive Officer, CAMPA of CG State Forest Department, Raipur for schedule of implementation of the Wildlife Conservation Plan submitted by the project and CEO CAMPA informed that it has not been decided when this work would be included in the action plan, however, the same would be communicated to the project if scheduled for implementation.</li> </ul>
8.	PP has to submit the IRO certified compliance report for the Ministry's letter dated 03.06.2009, 12.02.2013, 06.02.2015, 20.02.2018, 20.03.2019, 09.03.2020 and 05.09.2022	<p>The site inspection of Dipka Opencast Coal Mine Project was carried out by Scientist-D, IRO, MoEF&amp;CC, Raipur on 09.06.2023. The site inspection was conducted to certify the compliances against EC letters dated: 03.06.2009, 12.02.2013, 06.02.2015, 20.02.2018, 20.03.2019, 09.03.2020 and 05.09.2022.</p> <p>The Certified Compliance Report from IRO, MOEF&amp;CC Raipur is awaited.</p>

S.No	ADS sought by EAC during the meeting held on 28.08.2023	Reply of PP
1.	PP to submit application after achieving significant progress and operationalization of silo loading system for 15 MTPA and at least 50% works for the 25 MTPA.	<ul style="list-style-type: none"> <li>• The In-pit Conveyor along with Silo Loading System for 15 MTPA is already in operation since August 2014. Photographs of In-pit Conveyor and Silo (1&amp;2) having 15 MTPA capacity were enclosed with the reply.</li> <li>• The Mechanized Siding with Silo Loading for 25 MTPA capacity is under construction. The physical and financial completion is 95% with an expenditure of Rs. 188.48 Crores.</li> <li>• The delay in completion of Mechanized Siding with Silo for 25MTPA capacity was caused in obtaining permissions from railway, as the conveyor gallery was crossing railway track and overhead electric lines of railway were fouling the Silo location, which needed to be shifted by Railways. The issues have been resolved and the construction works are expected to be completed by the end of December 2023 and Silo will be operational by January 2024.</li> </ul>
2.	PP to use dedicated pucca road with the fixed sprinkling system till the mechanization put in place.	<ul style="list-style-type: none"> <li>• A dedicated CC Road is under construction from Railway Siding to TRS with fixed sprinklers installed on the side, which will be used until mechanization is put in place. Overall, 16.575 KM CC road is being constructed of which 10.90 KM has been completed. The expected date of completion of work is 31.03.2024. PP submitted the Work Orders for CC Road &amp; Fixed Sprinklers along with its status.</li> <li>• PP also submitted the photographs of the CC roads with fixed sprinklers.</li> </ul>

S.No	ADS sought by EAC during the meeting held on 28.08.2023	Reply of PP															
3.	PP shall submit status of mine closure as on today and future plan for progressive mine closure.	<ul style="list-style-type: none"> <li>PP submitted the status of progressive mine closure activities taken up by the project.</li> <li>PP also submitted the details of fund deposited in escrow account till 31.03.2023, claim against mine closure activities and the reimbursement against the claim from 2009-2020, activity wise expenditure.</li> <li>The Progressive Mine Closure Plan is an integral part of the Mining Plan for 37.50 MTPA. As per the progressive mine closure plan the balance life of mines was 5 years as on 01.04.2022. However, a Project Report for Dipka OC Expansion Project (40.00 MTPA) dovetailing existing project report of Dipka OC Expansion Project (25 MTPA) and additional property in the dipside (Hardi, Renki and Part of Bhilai Geological block reserves) for a rated capacity of 40.00 MTY was approved on 24.12.2020, in which the project area will increase to 3096.24 Ha and life of mine to 26 years.</li> </ul>															
4.	Status of Stage II FC for forest area of 409.056 Ha involved within the ML area.	<p>FC details are detailed below, The project has Stage-I Forest Clearance for entire revenue forest land i.e. 409.056 Ha. involved in the project. The status of FC in the mine lease area is given below: FC Stage-II</p> <ol style="list-style-type: none"> <li>FC Stage-II for 133.707 ha was obtained vide letter no.8-78/2006 FC dated 31.01.2022. (The Stage-I FC was accorded for 148.866 Ha, however out of which 15.159 Ha was already included in the Stage- II FC issued vide F.No.8-115/2003-FC, dated:30.06.2004 in favour of NTPC for construction of MGR)</li> <li>FC Stage-II for 16.794 ha was obtained vide letter no. 8C/6/591/98/FCW/78 dated 11.0.2001.</li> <li>FC Stage-II for 2.918 ha was obtained on vide no.8B/115/2001 -FCW/869 dated 03.04.2002.</li> </ol> <p>FC Stage-I</p> <ol style="list-style-type: none"> <li>FC Stage I for 206.638 ha (Regularization Case) vide F.No.8-80/2006-FC dated 20.10.2006. FC Stage-I compliance report was already submitted to MoEF&amp;CC on 21.12.2022 for consideration of FC Stage-II.</li> <li>FC Stage-II for 33.84 ha was obtained vide F.No.171/92-FC in 1995. Renewal application for FC Stage-II has been with MOEF&amp;CC, New Delhi since 01.02.2023.</li> </ol> <p>A chart depicting the details of forest land and its present status was enclosed along with the reply</p>															
5.	Status of online sharing of CAAQMS data and plan for installation of another 2 CAAQMS system in consultation of SPCB.	<ul style="list-style-type: none"> <li>One CAAQMS is already in operation which is connected with CIL Portal and CPCB portal on 06.10.2023.</li> <li>As instructed by EAC in meeting dated: 28.08.2023, A Proposal has been initiated for procurement of additional 02 CAAQMS for SECL Dipka OC Project, which is under approval stage.</li> </ul> <p>The time bound Action Plan is as follows</p> <table border="1"> <thead> <tr> <th>S.N:</th><th>Activities</th><th>Timeline</th></tr> </thead> <tbody> <tr> <td>1.</td><td>Approval &amp; Sanction by Competent Authority for Procurement</td><td>31.10.2023</td></tr> <tr> <td>2.</td><td>Tendering for Purchase of CAAQMS</td><td>31.12.2023</td></tr> <tr> <td>3.</td><td>Issue of Work Order</td><td>31.01.2024</td></tr> <tr> <td>4.</td><td>Installation and Commissioning of</td><td>31.03.2024</td></tr> </tbody> </table>	S.N:	Activities	Timeline	1.	Approval & Sanction by Competent Authority for Procurement	31.10.2023	2.	Tendering for Purchase of CAAQMS	31.12.2023	3.	Issue of Work Order	31.01.2024	4.	Installation and Commissioning of	31.03.2024
S.N:	Activities	Timeline															
1.	Approval & Sanction by Competent Authority for Procurement	31.10.2023															
2.	Tendering for Purchase of CAAQMS	31.12.2023															
3.	Issue of Work Order	31.01.2024															
4.	Installation and Commissioning of	31.03.2024															

S.No	ADS sought by EAC during the meeting held on 28.08.2023	Reply of PP															
		CAAQMS.															
6.	Plan to setup in- situ laboratory within the ML area.	<p>As instructed by EAC in meeting dated:28.08.2023, an in- situ laboratory is planned to be developed at Dipka Opencast Coal Mines with the help of CMPDIL for spot analysis like PH, temperature, DO, conductivity, free chlorine, total coliform etc.</p> <p>The time bound Action Plan is as follows:-</p> <table> <tr> <th>S.N:</th><th>Activities</th><th>Timeline</th></tr> <tr> <td>1.</td><td>Construction of Infrastructure such as testing room and sample storage room for the Laboratory.</td><td>29.02.2024</td></tr> <tr> <td>2.</td><td>Procurement of Necessary Equipment's by CMPDIL.</td><td>29.02.2024</td></tr> <tr> <td>3.</td><td>Deployment of Laboratory Staffs and Executive by CMPDIL.</td><td>15.03.2024</td></tr> <tr> <td>4.</td><td>Commissioning of Laboratory.</td><td>31.03.2024</td></tr> </table>	S.N:	Activities	Timeline	1.	Construction of Infrastructure such as testing room and sample storage room for the Laboratory.	29.02.2024	2.	Procurement of Necessary Equipment's by CMPDIL.	29.02.2024	3.	Deployment of Laboratory Staffs and Executive by CMPDIL.	15.03.2024	4.	Commissioning of Laboratory.	31.03.2024
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7.	Drone video clip for 5 minutes shall be submitted for total ML area including mechanized system.	PP submitted the Drone Video Clip of Dipka Open Cast Coal Mine Project showing the mechanized system for coal dispatch.															

S. No	ADS sought by EAC during the meeting held on 16.11.2023	Reply of PP
1.	PP should complete the construction of conveyor belt and silo loading system and submit the photographs and recorded video of operational system as proof of completion required for compliance of Ministry's OM dated 7th May, 2022.	<p>Complied.</p> <p>Dipka OC has installed mechanised siding with rapid loading system for capacity of 40 MTPA.</p> <p>An arrangement for 15 MTPA coal loading using 02 Nos of Silos each having 3200 T capacity with Rapid Loading System (5500-6000 TPH) is in operation since year 2009.</p> <p>Additional mechanized siding with rapid loading system having capacity of 25 MTPA was inaugurated by on 24.02.2024 under First Mile Connectivity Program. PP submitted the photographs and video of the above.</p>
2.	PP to complete the construction of pucca road by December 2023 to reduce the dust emission into the atmosphere. Action taken report be submitted to IRO.	<p>Complied.</p> <p>A dedicated CC Road has been constructed of length 15.675 Km i.e. from Railway Siding to TRS with fixed sprinklers installed on either side. PP Submitted the photographs of the road and map consisting the details of road construction. PP submitted the copy of Action taken report submitted to IRO on 14.03.2024</p>
3.	PP should submit closure status of portion of the mine lease area in compliance of progressive mine closure.	<p>Complied.</p> <p>Progressive mine closure plan is an integral part of the mining plan of 37.50 MTPA. PP also submitted the Closure status of the portion of mine lease area in compliance of progressive mine closure.</p>
4.	PP shall submit the detail action plan for fully planting trees on the slopes of 205 ha of external dump and 127 ha of internal dump.	<p>Complied.</p> <p>Every year extensive plantation is being done both on technically reclaimed internal dump, external dump including slopes of the dump by Chhattisgarh Van Vikas Nigam (a state government organization) and till date, a total of 25.37 lakhs no. of saplings has been planted.</p> <p>204.26 Ha area of external Overburden dump including slopes &amp; 127.66 Ha of Internal Overburden Dump including slopes</p>



S. No	ADS sought by EAC during the meeting held on 16.11.2023	Reply of PP
		are already biologically reclaimed. PP submitted the photographs of plantation on slopes.  Also, the yearly maintenance of plantation and gap plantation is carried over dump areas where there is casualty/ loss of vegetation is observed. For the year 2023-24, 30000 nos of saplings were planted as gap plantation in Renki external OB dump. PP also submitted the The photographs of the same.  For the year, 2024-25, the target plantation is 40000 saplings in the dumps. PP submitted the Breakup of year-wise plantation/maintenance done on external and internal dump.
5.	PP shall submit the proof of developed environment lab with air monitoring and water monitoring/analysis instruments at the site.	Complied. The Environment lab with air & water monitoring/analysis has been established and functional from 12.03.2024 at Dipka CGM Office. PP submitted the photographs for the same.
6.	PP shall submit the NOC of CGWA which was earlier valid till 25.02.2023.	Being Complied. Application for renewal of NOC from CGWA for withdrawal of ground water was submitted on 25.02.2023 and was accepted on 09.03.2023. The NOC has been approved on 19.03.2024 (as per NOCAP portal).
7.	Latest Status of Court cases i.e. of Case No: 826/2021; Case No: 1217/2007 & Case No: 26/2009	Complied. Legal status of Court cases are as follows: • Case No: 826/2021 civil appeal was filed in the Hon'ble Supreme Court of India under section 22 of the National Green Tribunal Act, 2010 against the final order dt: 25.08.2020 of the National Green Tribunal, Principal Bench at New Delhi in appeal no. 79 of 2018 titled Laxmi Chauhan vs UOI & others. The case is under subjudice at the Hon'ble Supreme Court of India.  • Case No: 1217/2007 was filed in the court of CJM Korba by CECB against SECL and CGM, Dipka Area against excess production during 2001-2002 without CTO. A petition CRMP 515/2011 was filed by SECL in Chhattisgarh High Court against the case. The SECL petition was dismissed by High Court vide order dated:18.06.2019. The case is under subjudice at the court of CJM, Katghora. The next hearing date is scheduled on 23.03.2024.  • Case No: 26/2009 was filed in the court of Judicial Magistrate First Class, Katghora by CECB against SECL and Shri Debasis Chatterjee (Ex.CGM, Dipka Area). Judgement was conferred on 14.07.2014 in favour of SECL by acquitting from all charges. A petition CRMP 859/2014 was filed by CECB in Chhattisgarh High Court against the issued order. Appeal was dismissed in favour of the Dipka project on 13.12.2022.

S. No	ADS sought by EAC during the meeting held on 09.04.2024	Reply of PP
1.	PP should submit the valid/recent NOC from CGWB.	Dipka OC has obtained NOC from CGWA vide NOC No. CGWA/NOC/MIN/REN/2/2024/9412 dated 19.04.2024 which is valid till 25.02.2025. The copy of NOC is submitted.
2.	PP should submit the latest CCR from the Regional office MOEFCC along with its ATR.	IRO inspection of previous EC Conditions was done on 05.08.2024 and the CCR was received on 12.08.2024. The copy of CCR is enclosed in Annexure-2.

S. No	ADS sought by EAC during the meeting held on 09.04.2024	Reply of PP
		ATR for the CCR was submitted to IRO on 15.01.2025. The copy of ATR is submitted.
3.	PP shall submit the status of the installation and commissioning of additional CAAQMS.	<p>Additional 02 (Two) Nos. of CAAQMS with warranty period of 03 years and thereafter CAMC of 5 years are procured in respect of Dipka OCP at a cost of Rs. 1.26 crores. The copy of Purchase order is submitted.</p> <p>The site selection/permission for the 02 Nos. of CAAQMS was obtained from RO, CECB Korba on 09.12.2024. The copy of permission letter is submitted.</p> <p>The installation is under process and the expected date of commissioning is 31.01.2025.</p>
4.	PP shall submit the status of FC Stage-II clearance.	<p>The total forest land involved in the project is 409.056 Ha. Stage-II FC clearance is obtained for 168.578 Ha, copy of Stage-II FC obtained is submitted.</p> <p>The Stage-II Clearance for the remaining forest land of 240.478 Ha is under process and status is submitted.</p>
5.	PP is required to submit a surface plan clearly showing the forest area and proposed mining advancement plan.	The surface plan showing the forest area and proposed mining advancement plan is submitted.
6.	PP shall submit the Status of accreditation of labs along with details of the staff engaged for the smooth operation of the lab.	Dipka OC Project hereby undertakes that the accreditation of Lab will be done in the coming 02 years. The undertaking is attached as Annexure-9. Details of Staff engaged for the smooth operation of the lab is submitted.
7.	PP shall provide the details of the persons engaged in the EMC with their designation and qualification.	The details of the persons engaged in the EMC with their designation and qualification is submitted.
8.	PP shall optimise the water requirement and submit a time-bound action plan for the reduction of freshwater requirement.	The time-bound action plan for the reduction of freshwater requirement is submitted.
9.	PP shall submit the comprehensive details of the plantation both existing and planned plantation in line with the progress of mining operations.	The comprehensive details of the plantation both existing and planned plantation in line with the progress of mining operation is submitted.
10.	PP shall clarify whether the length of the road is 16.675 KM or 15.675 KM.	The length of CC Road is 15.675 Ha.
11.	PP should submit the details of the external dump including the timing of its closure/non utilisation.	The External OB Dumps of Dipka OCP is technically and biologically reclaimed. Total area of external dump is 206.00 Ha. Area utilized for dumping till 31.03.2019 is 204.26 Ha (99%). There is no dumping after 31.03.2019. Hence, the external dump is not in utilization.
12.	Latest Status of Court cases i.e. Case No: 826/2021; Case No: 1217/2007 & Case No: 26/2009 needs to be provided.	<p>Legal status of Court cases are as follows:</p> <ul style="list-style-type: none"> <li>Case No: 826/2021 civil appeal was filed in the Hon'ble Supreme Court of India under section 22 of the National Green Tribunal Act, 2010 against the final order dt: 25.08.2020 of the National Green Tribunal, Principal Bench at New Delhi in appeal no. 79 of 2018 titled Laxmi Chauhan vs UOI &amp; others. The case is under subjudice at the Hon'ble Supreme Court of India.</li> </ul>

S. No	ADS sought by EAC during the meeting held on 09.04.2024	Reply of PP
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S. No	ADS sought by MoEFCC on 04.02.2025	
		The Regional Office of MoEF&CC (IRO Raipur) has scheduled an inspection for the closure report related to the Action Taken Report (ATR) submitted on the CCR of Dipka Opencast project (37.50 MTPA). The closure report may be presented before the EAC/MoEF for appraisal.

**25.6.19: Written Submission:** PP submitted the following during the meeting:

- (i) PP submitted an undertaking to comply with the non-compliances observed by the Ministry's RO in the following timeline:

S. No	Activity	Timeline
1	The past production details duly certified by the Chhattisgarh State Geology and Mining Department	May 2025
2	R&R implementation status	June 2025
3	Connectivity of existing CAAQMS with CPCB portal	June 2025
4	Installation & commissioning of additional (02 Nos) CAAQMS along with Digital display board	June 2025
5	Plantation plan for 5 years	June 2025
6	Development of Vertical Greenary System	Sep 2025
7	Installation & commissioning of 15 Nos of Fog cannon	June 2025

- (ii) PP submitted another undertaking stating that "Dipka Opencast Coal Mine of South Eastern Coalfields Limited, District: Korba, Chhattisgarh declares and agrees that 50.872 Ha is already broken prior to 1996 out of 206.638 Ha proposal for regularization of revenue forest land (FP/CG/MIN/1452/2006) & the balance revenue forest land is undisturbed as on date and no mining activity will be carried out without obtaining Stage-II FC clearance."
- (iii) PP submitted another undertaking stating that "for the FY 2025-26 the maximum dispatch through road sale will be less than 25% of the total dispatch".

**Observation and deliberation of the EAC:**

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

- M/s. South Eastern Coal Fields Limited originally obtained EC for Dipka Opencast Coalmine Project vide letter dated 27.07.1993 for production capacity of 10 MTPA within the ML area of 1551.36 Ha. Further EC expansion was obtained vide letter dated

- 04.10.2004 for 20 MTPA in the reduced area of 1461.51 Ha. Later, another EC expansion was obtained for the production of 25 MTPA in the enhanced area of 2000.642 Ha. Further PP obtained another expansions within the area of 1999.293 Ha for the production capacity of 30 MTPA, 31 MTPA and 35 MTPA, vide EC letter dated 12.02.2013, 06.02.2015 and 20.02.2018 respectively. The same EC was granted validity extension vide letter dated 20.03.2019 and 09.03.2020 and later another EC expansion was granted vide letter dated 05.09.2022 for the production capacity of 37.50 MTPA, to avail 50% dispensation as per Ministry's OM dated 07.05.2022.
2. The above-mentioned project is implemented and the mine is under operation. The project has achieved the highest production of 34.37 MTPA in the FY 2021-22 and 33.53 MTPA in the FY 2024-25.
  3. The instant proposal is for reconsideration of EC obtained vide letter dated 05.09.2022 to avail 50% dispensation as per Ministry's OM dated 07.05.2022. PP applied for the same within 6 months from the grant of EC. The project was earlier appraised in the 43rd EAC meeting held on 24th April 2023, the 48th meeting held during 25-28th August 2023, 3rd EAC held during 16-17th November 2023 and the 10th meeting held on 9th April 2024, wherein the committee has deferred the proposal for want of additional information.
  4. The PP submitted the information vide its letters dated 05.08.2023, 23.10.2023, 19.03.2024, 17.01.2025 and 07.05.2025 respectively and the project is now listed for appraisal in 25th EAC meeting held on 9th May 2025.
  5. The EAC took into consideration the project site through KML file on the Google Earth presented by the project proponent along with DSS of the project site on PARIVESH.
  6. Project does not fall in the Critically Polluted Area (CPA)/ Severely Polluted Area (SPA), as per CEPI Assessment 2018.
  7. The Committee observed that the total land in possession of the PP is 2139.667 Ha. However, the land involved in the instant project is on 1999.293 Ha. The remaining 140.374 Ha of land is not part of the instant project and will be explored for coal extraction in future. In 140.374 Ha, only 0.093 Ha is forestland and the remaining land is non-forestland. Committee opined that the land which is to be used for coal extraction in future shall be properly demarcated and not be used for the mining purpose till a fresh EC for the same is accorded.
  8. The project involves total 409.056 Ha of forestland. The PP has obtained the Stage – I forest clearance on the entire 409.056 Ha of forestland. However, the stage – II forest clearance is obtained only on 168.578 Ha of forestland. Committee deliberated on the broken up forestland and observed that only 175.925 Ha is the broken up forestland. Out of the 240.478 ha of forest land, on which stage – II is yet to be obtained, it is observed that, PP has already diverted 84.712 ha of forestland. The 84.712 Ha of forestland diverted prior to obtaining the Stage – II FC includes 50.872 ha forestland which earlier was revenue land and was later recognised as forestland. Regularisation process of the same has been initiated by the PP. And remaining 33.84 ha of forestland earlier had FC, which later lapsed and the mining operations on the same were being carried out as per the directives of Hon'ble Supreme Court. Committee opined, that the remaining 155.766 ha of forestland, which is yet to be broken up and the Stage – II forest clearance on the

same is yet to be accorded shall not be used for mining purpose till stage – II FC for the same is accorded. PP should erect the closely spaced pillars to clearly demarcate the undiverted forest land in the lease area. PP should also construct fireline along undiverted forest land boundary in consultation with State Forest Department. All officers, supervisors, overman, mate, workers, operators, persons employed in the mine should be made aware about the undiverted forest land and its boundaries so that there is no disturbance of the same.

Committee also opined that on all the surface plans, production plans used in the project the diverted and undiverted forest areas should be clearly marked in different colours.

9. The project is not located within 10 KM of any ESZ/ ESA/ national park/ wildlife sanctuary/ biosphere reserve/ tiger reserve/ elephant reserve/ tiger corridor/ elephant corridor etc. The Wildlife Conservation Plan (WLCP) was prepared and approved by the State Forest Department on 04.11.2022. An amount of Rs.15.47 Crores has been paid to CAMPA for implementation of the plan.
10. The Mine plan and the progressive mine closure plan has been approved by the SECL Board on 07th July 2022 in its 128th meeting. The life of mine is 2 years as on 01.04.2025.
11. Committee deliberated on the transportation mode of the coal in the instant project and observed that, from in pit to surface the coal is being transported through rear dumpers and trucks and from surface to siding, the coal is being transported closed conveyor belt and coal transportation road, all within the ML area. From siding to loading the coal is being transported through silo. To the final consumers the coal is being transported through rail and to small consumers up to 250 km by road. The coal transportation by road is restricted up to 8.5 MTPA only. Committee opined that the PP shall take adequate pollution control measures for the coal transportation by road. PP shall explore the feasibility for introducing E-Vehicles should be made and atleast 20% of the fleet size of dumpers/ trucks should be replaced by electrical or CNG/ LNG/PNG based dumpers/ trucks for transportation of coal / OB and transportation of workers/ staff by December 2025. Also, no vehicle older than 4 years should be used for transportation.
12. Committee deliberated on the baseline data submitted by the PP and the same was collected during October 2022 – December 2022. Committee further deliberated on the mitigation measures being undertaken by the PP. Committee observed that the CAAQMS already installed are not connected with the SPCB server and opined that the PP shall get it connected to the SPCB server at the earliest. Committee also deliberated on the non-compliances in this regard observed by the Ministry's RO and sought an undertaking from the PP to comply with the same in a specified timeline. PP submitted the same. In addition to this, Committee opined that the PP shall install 2 more CAAQMS, 1 each in the core zone and buffer zone, in consultation with the SPCB by June 2025.
13. Committee deliberated on the water requirement for the said project and observed that, the total water required for the project is 7302 KLD Source of water is Mine Seepage Water, tube wells & accumulated rain water. NOC from CGWA obtained vide NOC no. CGWA/NOC/MIN/REN/2/2024/9412 issued on 19.04.2024 which was valid from 26.02.2023 to 25.02.2025. The renewal application was submitted online on 20.02.2025.
14. Committee deliberated on the Public Hearing Action plan submitted by the PP for the next 2 years. The budget proposed for the next 2 years is Rs. 1121 Lakhs. EAC observed

that the PH was held on 05.09.2008 and the major issues raised during the PH were related to plantation, pollution control, blasting and employment. Committee opined that PP shall also introduce measures to strengthen the primary healthcare centres and community healthcare centres within 10 km of the ML area.

15. The capital cost for environmental protection measures for existing and proposed project is Rs. 12,608.99 Lakhs. The annual recurring cost towards the environmental protection measures is proposed as Rs.3857.1 Lakhs. The same shall be implemented in a time bound manner and the PP shall make sure that the equipments already procured or to be procured for implementation of EMP shall be in good working condition and regular maintenance of the same shall be carried out.
16. Committee deliberated on the plantation activities carried out by the PP for the said project and observed that existing green belt has been developed in 6.3 ha area as safety zone with total sapling of 15750 plants out of the total proposed greenbelt of 23 Ha. Total green cover developed by the PP within the ML area including the plantation/gap plantations on OB dumps, green belt, plain areas etc. is 532.70 Ha with a total of 23.96 Lakh saplings. Additional plantation is proposed to be developed in 606.66 ha i.e. 53.25 % of the total area to be reclaimed as green cover. Total plantation proposed to be developed by the end of the mine life is in 1139.36 Ha.  
In addition to this, plantation of 2.90 lakh saplings in about 130 Ha has been done outside the Mine Lease by the Project during the past 02 years.  
Committee opined that, PP shall provide 50,000 plant saplings with 4 feet tall fruit bearing plants to farmers for plantation in barren and agriculture lands in the study area every year till the life of the mine with incentive to improve the green cover in and around the mine lease area.
17. Committee deliberated on the rehabilitation and resettlement issues in the said project and observed that, 485 PAFs are yet to be resettled, 2606 land oustees are yet to be compensated and 144 PAPs are yet to be provided with the employment. PP submitted that all the R&R is under process and all the issues will be settled by June 2025. Committee opined that the compliance of the same shall be submitted along with the six-monthly compliance report.
18. The capital cost of the existing project is Rs.2129.09 Crores and the capital cost for environmental protection measures is proposed as Rs.5.78 Crores. The annual recurring cost towards the environmental protection measures is proposed as Rs.38.57 Crores.
19. There are 3 court cases pending on the project. One is related to challenging the EC granted for 40% expansion as per Ministry's OM dated 15.09.2017 (the same is pending with the hon'ble Supreme Court of India). The other 2 cases are pending with the court of CJM Katghora and the Hon'ble High Court of Chhattisgarh. Both of these cases are pertaining to production exceeded in the year 2001-02 & 2007-08 respectively. Committee opined that the PP shall comply with the final order of the Hon'ble judicial bodies.
20. Committee observed that there is no diversion proposed for the said project.
21. Committee deliberated on the report obtained from the Ministry's RO on 09.05.2025 for the Action Taken Report submitted by the PP on the Certified Compliance Report, earlier obtained. Committee observed that there are various partial compliances reported by the

RO. Committee took a serious view on the same and sought a timeline for submitting the compliance of the same. PP submitted the following timeline for complying with the partially complied conditions along with an undertaking. Committee opined that PP should submit the compliance of the same along with the six-monthly compliance report.

S. No.	Activity	Timeline
1	The past production details duly certified by the Chhattisgarh State Geology and Mining Department	May 2025
2	R&R implementation status	June 2025
3	Connectivity of existing CAAQMS with CPCB portal	June 2025
4	Installation & commissioning of additional (02 Nos) CAAQMS along with Digital display board	June 2025
5	Plantation plan for 5 years	June 2025
6	Development of Vertical Greenary System	Sep 2025
7	Installation & commissioning of 15 Nos of Fog cannon	June 2025

22. The Committee also noted that there is another proposal of SECL regarding EC for expansion of the instant project from 37.5 to 40 MTPA. The EAC opined that the EC for the said expansion will be considered only after achieving the compliance to the conditions prescribed in the existing EC, followed by obtaining of fresh certified compliance report from the RO of MoEF&CC.
23. Committee deliberated on the ADS reply and written submissions made by the proponent and found it to be satisfactory.
24. Committee opined that the PP shall align its activities with the sustainable development goals.
25. 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:**

**25.6.21:** Based on the submissions made by the Project Proponent, EAC **recommended** the proposal for grant of Environmental Clearance for Dipka Opencast Coal Mine project for increase in production capacity from 35 MTPA to 37.5 MTPA (increase of 10% to its original EC i.e., 2.5 MTPA) in the existing ML area of 1999.293 Ha by M/s Southeastern Coalfields Limited, located at village: Dipka, Tehsil: Katghora; District: Korba; State: Chhattisgarh, as per the provisions of OM vide no. F. No. IA3-22/10/2022-IA.III, dated 07.05.2022, under the Environment Impact Assessment (EIA) Notification, 2006 and subsequent amendments/circulars thereto subject to uploading the written submission and the compliance of the following additional terms & conditions / specific conditions for environmental safeguards as stated below:-

1. The 140.374 ha of land area, which involves 0.093 Ha of forestland, which is in possession of the project proponent, but not part of the instant project, shall be properly demarcated and not be used for the mining purpose till a fresh EC for the same is accorded. PP should erect the closely spaced pillars to clearly demarcate till land area. All officers, supervisors, overman, mate, workers, operators, persons employed in the

mine should be made aware about the same and its boundaries so that there is no disturbance of the same. On all the surface plans, production plans used in the project, this land should be clearly marked in different colours. PP should also construct fireline along undiverted forest land (0.093 ha) boundary in consultation with State Forest Department.

2. The 155.766 ha of forestland, which is part of the instant project, yet to be broken – up and Stage – II forest clearance for the same is yet to be accorded, shall not be used for mining purpose till the time Stage – II is accorded. PP should erect the closely spaced pillars to clearly demarcate the undiverted forest land in the lease area. PP should also construct fireline along undiverted forest land boundary in consultation with State Forest Department. All officers, supervisors, overman, mate, workers, operators, persons employed in the mine should be made aware about the undiverted forest land and its boundaries so that there is no disturbance of the same. On all the surface plans, production plans used in the project, this land should be clearly marked in different colours.
3. As committed by the project proponent, the following time – bound action plan shall be implemented in order to comply with the partially complied conditions as per the closure report of the Ministry's RO and compliance of the same shall be submitted along with the six-monthly compliance report:

S. No.	Activity	Timeline
1	The past production details duly certified by the Chhattisgarh State Geology and Mining Department	May 2025
2	R&R implementation status (485 PAFs are yet to be resettled, 2606 land oustees are yet to be compensated and 144 PAPs are yet to be provided with the employment)	June 2025
3	Connectivity of existing CAAQMS with CPCB portal	June 2025
4	Installation & commissioning of additional (02 Nos) CAAQMS along with Digital display board	June 2025
5	Plantation plan for 5 years	June 2025
6	Development of Vertical Greenery System	Sep 2025
7	Installation & commissioning of 15 Nos of Fog cannon	June 2025

4. Project proponent shall ensure that compliance to all the prescribed conditions in the existing EC and its amendment shall be achieved by September, 2025 as committed before submitting the application for further expansion.
5. Project proponent shall explore the feasibility for introducing E-Vehicles should be made and atleast 20% of the fleet size of dumpers/ trucks should be replaced by electrical or CNG/ LNG based dumpers/ trucks for transportation of coal / OB and transportation of workers/ staff by December 2025. Vehicle older than 4 years should be used for transportation. Compliance of the same shall be submitted along with the six-monthly compliance to the concerned Regional Office of MoEF&CC.
6. Project proponent shall obtain the renewal of ground water clearance for 7302 KLD of groundwater being used in the instant project.
7. Project proponent shall strengthen the existing Primary Health Centre (PHC) & Community Health Centre (CHC) in the study area for better public health, within 10 km of the ML area. Compliance status in this regard shall be submitted along with the six-monthly compliance to the concerned Regional Office of MoEF&CC.



8. Project proponent shall develop additional plantation in 606.66 ha i.e. 53.25 % of the total area. In addition to this, PP shall provide 50,000 plant saplings with 4 feet tall fruit bearing plants to farmers for plantation in barren and agriculture lands in the study area every year till the life of the mine with incentive to improve the green cover in and around the mine lease area. Besides, project proponent shall explore the feasibility of plantation/watershed management in an area of 637.874 Ha, which is proposed to be kept unclaimed as per the post-mining land use pattern. Action plan in this regard, shall be submitted to the Ministry and the Regional Office of the MoEF&CC by 30/06/2025.
9. The project proponent shall abide by all orders and judicial pronouncements, made from time to time by Hon'ble Supreme Court in Case No: 826/2021, Court of CJM Katghora in Case No: 1217/2007 and Hon'ble High Court of Chhattisgarh Case No: 26/2009.
10. Public hearing action plan shall be implemented in a time bound manner. Budget earmarked for the same is Rs. 1121 Lakhs, should be kept in a separate account. PP shall submit the progress report regarding the implementation of action plan to concerned RO along with the six-monthly compliance report.
11. Coal transportation by road for the next 2 years (i.e., till the life of the mine) shall be restricted to only 25% of the total coal proposed to be dispatched.
12. The Environment Protection Measures shall be implemented in a time bound manner. The capital cost for environmental protection measures is Rs. 12,608.99 Lakhs. The annual recurring cost towards the environmental protection measures is proposed as Rs. 3857.1 Lakhs. The budget earmarked for implementation of EMP measures should be kept in a separate account. All the equipments already procured or to be procured for implementation of EMP shall be in good working condition and regular maintenance of the same shall be carried out.
13. Third-party audit (by NEERI/CIMFR/IIT/NITs) for air & water quality shall be carried out annually to keep a check on the same. PP shall implement the recommendations of the audit and submit the outcome of the audit to the concerned RO of MoEF&CC.
14. Project proponent is advised to implement the 'Ek Ped Maa Ke Naam' Campaign every year which was launched on 5<sup>th</sup> June 2024 on the occasion of the World Environment Day to increase the forest cover across the Country. This plantation drive is other than greenbelt development. The action in this regard shall be submitted concerned RO in six monthly report.
15. All other terms and conditions as prescribed in the previous EC letters issue by the Ministry shall remain the same and need to be complied by PP.

**Standard Conditions:**

**1. Statutory Conditions:**

- i. The Environmental clearance shall be subject to orders of Hon'ble Supreme Court of India, Hon'ble High Courts, NGT and any other Court of Law, from time to time, and as applicable to the project.
- ii. The project proponent shall obtain clearance from the National Board for Wildlife, if applicable.

- iii. Solid/hazardous waste generated in the mines needs to be addressed in accordance to the Solid Waste Management Rules, 2016/Hazardous & Other Waste Management Rules, 2016.
- iv. The maximum production at any given time shall not exceed the limit as prescribed in the EC.
- v. Validity of EC is as per life of the mine mentioned in EC letter or 30 years as per EIA Notification, 2006 and its amendments therein.

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

- i. Project proponent shall obtain requisite consent from State Pollution Control Board for 37.5 MTPA coal mining.
- ii. Adequate ambient air quality monitoring stations shall be established in the core zone as well as in the buffer zone for monitoring of pollutants, namely particulates, SO<sub>2</sub> and NO<sub>x</sub>. Location of the stations shall be decided based on the meteorological data, topographical features and environmentally and ecologically sensitive receptors in consultation with the State Pollution Control Board.
- iii. The Ambient Air Quality monitoring in the core zone shall be carried out to ensure the Coal Industry Standards notified vide GSR 742 (E) dated 25th September, 2000 and as amended from time to time by the Central Pollution Control Board. Data on ambient air quality and heavy metals such as Hg, As, Ni, Cd, Cr and other monitoring data shall be regularly reported to the Ministry/Regional Office and to the CPCB/SPCB.
- iv. Effective control measures such as regular water sprinkling/rain gun/ Fog cannon /mist sprinkling etc., shall be carried out in critical areas prone to air pollution with higher level of particulate matter all through the coal transport roads, loading/unloading and transfer points. Fugitive dust emissions from all sources shall be controlled regularly. It shall be ensured that the ambient air quality parameters conform to the norms prescribed by the Central/State Pollution Control Board.
- v. Major approach roads shall be black topped and properly maintained.
- vi. Vehicular emissions shall be kept under control and regularly monitored. All the vehicles engaged in mining and allied activities shall operate only after obtaining 'PUC' certificate from the authorized pollution testing centers.
- vii. PP should Install Wind breaker/shield arrangement along the railway siding for reducing the dust propagation in upwind direction.
- viii. The raw coal shall be stacked properly at earmarked site (s) within stockyards fitted with wind breakers/shields. Adequate measures shall be taken to ensure that the stored mineral does not catch fire
- ix. PP shall submit an action plan for using and developing Renewable Energy for its consumption in its utilities/machinery/equipment instead of using electricity from Grid/generated from Thermal Power Plants. PP shall Install additional solar power generation units

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

- i. The effluent discharge (mine waste water, workshop effluent) shall be monitored in terms of the parameters notified under the Water Act, 1974 Coal Industry Standards vide GSR 742 (E) dated 25th September, 2000 and as amended from time to time by the Central Pollution Control Board.
- ii. The monitoring data shall be uploaded on the company's website and displayed at the project site at a suitable location. The circular No.J-20012/1/2006-IA.11 (M) dated 27th May, 2009 issued by Ministry of Environment, Forest and Climate Change shall also be

referred in this regard for its compliance.

- iii. Garland drains (of suitable size, gradient and length) around the critical areas i.e. mine shaft and low lying areas, shall be designed keeping at least 50% safety margin over and above the peak sudden rainfall and maximum discharge in the area adjoining the mine sites. The sump capacity shall also provide adequate retention period to allow proper settling of silt material of the surface runoff
- iv. The water pumped out from the mine, after siltation, shall be utilized for industrial purpose viz. watering the mine area, roads, green belt development etc. The drains shall be regularly desilted particularly after monsoon and maintained properly
- v. Industrial wastewater from coal handling plant and mine water shall be properly collected and treated so as to conform to the standards prescribed under the Environment (Protection) Act, 1986 and the Rules made thereunder, and as amended from time to time. Oil and grease trap shall be installed before discharge of workshop effluent. Sewage treatment plant of adequate capacity shall be installed for treatment of domestic wastewater.
- vi. The surface drainage plan including surface water conservation plan for the area of influence affected by the said mining operations shall be prepared, considering the presence of any river/rivulet/pond/lake etc., with impact of mining activities on it, and implemented by the project proponent. The surface drainage plan and/or any diversion of natural water courses shall be as per the provisions of the approved Mining Plan/ EIA-EMP submitted to this Ministry and the same should be done with due approval of the concerned State/GoI Authority. The construction of embankment to prevent any danger against inrush of surface water into the mine should be as per the approved mining plan and as per the permission of DGMS.
- vii. The project proponent shall take all precautionary measures to ensure reverian/ riparian ecosystem in and around the coal mine up to a distance of 5 km. A revarian /riparian ecosystem conservation and management plan should be prepared and implemented in consultation with the irrigation / water resource department in the state government.
- viii. Industrial effluent and domestic wastewater shall be treated in the Effluent treatment Plant (ETP) and Sewage Treatment Plant (STP). After treatment, treated water shall be reused for plantation.

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

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

#### **5. Mining Plan**

- i. Project proponent shall obtain star rating as per the guidelines of Ministry of Coal.
- ii. Mining shall be carried out under strict adherence to provisions of the Mines Act 1952 and subordinate legislations made there-under as applicable.
- iii. No change in mining method, calendar programme and scope of work shall be made without obtaining prior approval of the Ministry of Environment, Forests and Climate Change (MoEFCC).

- iv. Mining shall be carried out as per the approved mining plan (including Mine Closure Plan) abiding by mining laws related to coal mining and the relevant circulars issued by Directorate General Mines Safety (DGMS).
- v. Efforts should be made to reduce energy and fuel consumption by conservation, efficiency improvements and use of renewable energy.

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

- i. Digital Survey of entire lease hold area/core zone using Satellite Remote Sensing survey shall be carried out at least once in three years for monitoring land use pattern and report in 1:50,000 scale or as notified by Ministry of Environment, Forest and Climate Change (MoEF&CC) from time to time shall be submitted to the Regional Office of MoEF&CC.
- ii. The final mine void depth should preferably be as per the approved Mine Closure Plan, and in case it exceeds 40 m, adequate engineering interventions shall be provided for sustenance of aquatic life therein. The remaining area shall be backfilled and covered with thick and alive top soil. Post-mining land be rendered usable for agricultural/forestry purposes and shall be diverted. Further action will be treated as specified in the guidelines for Preparation of Mine Closure Plan issued by the Ministry of Coal dated 27th August, 2009 and subsequent amendments.
- iii. The entire excavated area, backfilling, external OB dumping (including top soil) and afforestation plan shall be in conformity with the “during mining”/“post mining” land-use pattern, which is an integral part of the approved Mining Plan and the EIA/EMP submitted to this Ministry. Progressive compliance status vis-a-vis the post mining land use pattern shall be submitted to the MOEFCC/RO.
- iv. Further, it may be ensured that as per the time schedule specified in mine closure plan it should remain live till the point of utilization. The topsoil shall temporarily be stored at earmarked site(s) only and shall not be kept unutilized. The top soil shall be used for land reclamation and plantation purposes. Active OB dumps shall be stabilized with native grass species to prevent erosion and surface run off. The other overburden dumps shall be vegetated with native flora species. The excavated area shall be backfilled and afforested in line with the approved Mine Closure Plan. Monitoring and management of rehabilitated areas shall continue until the vegetation becomes self-sustaining. Compliance status shall be submitted to the Ministry of Environment, Forest and Climate Change/ Regional Office.
- v. The project proponent shall make necessary alternative arrangements, if grazing land is involved in core zone, in consultation with the State government to provide alternate areas for livestock grazing, if any. In this context, the project proponent shall implement the directions of Hon'ble Supreme Court with regard to acquiring grazing land

#### **7. Public Hearing and Human Health Issues:**

- i. Adequate illumination shall be ensured in all mine locations (as per DGMS standards) and monitored.
- ii. The project proponent shall undertake occupational health survey for initial and periodical medical examination of the personnel engaged in the project and maintain records accordingly as per the provisions of the Mines Rules, 1955 and DGMS circulars. Besides regular periodic health check-up, 20% of the personnel identified from workforce engaged in active mining operations shall be subjected to health check-up for occupational diseases and hearing impairment, if any, as amended time to time
- iii. Personnel (including outsourced employees) working in core zone shall wear protective

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

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

#### **8. Corporate Environment Responsibility:**

- i. The company shall have a well laid down environmental policy duly approved by the Board of Directors. The environmental policy should prescribe for standard operating procedures to have proper checks and balances and to bring into focus any infringements/deviation/violation of the environmental/forest/wildlife norms/conditions. The company shall have defined system of reporting infringements/deviation/violation of the environmental/forest/wildlife norms/conditions and/or shareholders/stake holders
- ii. A separate Environmental Cell both at the project and company head quarter level, with qualified personnel shall be set up under the control of senior Executive, who will directly report to the head of the organization.

#### **9. Miscellaneous:**

- i. The project proponent shall make public the environmental clearance granted for their project along with the environmental conditions and safeguards at their cost by prominently advertising it at least in two local newspapers of the District or State, of which one shall be in the vernacular language within seven days and in addition this shall also be displayed in the project proponent's website permanently.
- ii. The copies of the environmental clearance shall be submitted by the project proponents to the Heads of local bodies, Panchayats and Municipal Bodies in addition to the relevant offices of the Government who in turn has to display the same for 30 days from the date of receipt.
- iii. The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website and update the same on half-yearly basis.
- iv. The project proponent shall submit six-monthly reports on the status of the compliance of the stipulated environmental conditions on the website of the Ministry of Environment, Forest and Climate Change at environment clearance portal.
- v. The project proponent shall submit the environmental statement for each financial year in Form V to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently and put on the website of the company.
- vi. The project authorities shall inform to the Regional Office of the MOEFCC regarding commencement of mining operations.
- vii. The project authorities must strictly adhere to the stipulations made by the State Pollution

Control Board and the State Government.

- viii. The project proponent shall abide by all the commitments and recommendations made in the EIA/EMP report, commitment made during Public Hearing and also that during their presentation to the Expert Appraisal Committee.
- ix. No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment, Forests and Climate Change (MoEF&CC).
- x. Concealing factual data or submission of false/fabricated data may result in revocation of this environmental clearance and attract action under the provisions of Environment (Protection) Act, 1986.
- xi. The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.
- xii. The Ministry reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.
- xiii. The Regional Office of this Ministry shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer (s) of the Regional Office by furnishing the requisite data / information/monitoring reports
- xiv. The above conditions shall be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 and the Public Liability Insurance Act, 1991 along with their amendments and Rules and any other orders passed by the Hon'ble Supreme Court of India / High Courts and any other Court of Law relating to the subject matter.

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**Annexure - I**

**LIST OF PARTICIPANTS OF EAC (COAL) IN 25<sup>TH</sup> MEETING HELD ON 9<sup>TH</sup> MAY 2025,  
THROUGH VIRTUAL MODE**

<b>S. No.</b>	<b>Name &amp; Address</b>	<b>Role</b>	<b>09.05.2025</b>
1.	Shri Inder Pal Singh Matharu, IFS (Retd.)	Chairman	Present
2.	Shri Lalit Kapur	Member	Present
3.	Dr. Umesh Jagannathrao Kahalekar	Member	Present
4.	Dr. Santosh Kumar Hampannavar	Member	Present
5.	Shri Savalge Chandrasekhar	Member	Present
6.	Shri K. B. Biswas	Member	Present
7.	Prof. Shyam Shanker Singh	Member	Present
8.	Dr. Vinod Agrawal	Member	Present
9.	Shri Prasoon Gargava, Scientist - F	Representative of Central Pollution Control Board	Absent
10.	Shri Mahi Pal Singh, Chief Engineer	Representative of Central Electricity Authority (CEA)	Present
11.	Shri Harmeet Sahaney	Representative of Indian Meteorological Department (IMD)	Absent
12.	Prof. R M Bhattacharjee	Representative of IIT/ISM Dhanbad	Present
13.	Shri Sundar Ramanathan	Scientist 'F' & Member Secretary	Present
<b>MoEF&amp;CC</b>			
1.	Dr. Rajesh Prasad Rastogi	Scientist 'D'	Present

**Approval of the Chairman**

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

Wed, 14 May 2025 6:19:15 PM +0530

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

Dear Sundar ji,

I have gone through the final draft of MoM of 25th EAC meeting for coal, held on 09/05/2025. all the points which were discussed in the meeting, have been incorporated. Hence I approve the same.

I thank you and Rastogi ji for drafting it nicely.

Sincerely yours

Inder Pal Singh Matharu

Chairman

EAC for Coal mining and Thermal Power

MoEF&CC, GoI

On Wed, May 14, 2025 at 2:45 PM Sundar Ramanathan <r.sundar@nic.in> wrote:

Respected Sir,

Please find enclosed herewith the revised draft MoM of the EAC Coal held on 9/5/2025.

Approval of Chairman is solicited for uploading the attached MOM on Parivesh portal.

With regards,  
Sundar