

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

Date of zero draft MoM sent to Chairman: 06/10/2025

Approval by Chairman: 09/10/2025

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SUMMARY RECORD OF THE THIRTY SECOND (32ND) MEETING OF EXPERT APPRAISAL COMMITTEE (EAC) HELD ON 24-25TH SEPTEMBER 2025 FOR ENVIRONMENT APPRAISAL OF COAL MINING SECTOR PROJECTS THROUGH PHYSICAL MODE.

24th SEPTEMBER, 2025 [WEDNESDAY]

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 – IV**.

Confirmation of the minutes of the 31st meeting of the EAC (Coal): The minutes of the 31st meeting of the EAC (Coal) held on 28th August 2025 through virtual mode have been confirmed by the EAC.

Agenda No. 32.1:

32.1: Pathora West Coal Block (Sohagpur Coalfield) (having production capacity of 0.80 MTPA within the ML area of 554.0843 Ha) **by M/s Shri Bajrang Power and Ispat Limited** located at villages: Ghunghuti, Gitori, Khatkitola and Patnarkala; **District: Umariya; State: Madhya Pradesh - Environment Clearance – reg.**

[Online Proposal No. IA/MP/CMIN/544576/2025; Consultant: M/s Ecomen Mining Pvt. Ltd. - NABET /EIA/25-28/RA 0403 – valid up to 23.03.2028]

32.1.1: M/s. Shri Bajrang Power and Ispat Limited has made an online application vide proposal no. IA/MP/CMIN/544576/2025 dated 30.07.2025 along with copy of EIA/EMP Report, CAF and Form I seeking Environment Clearance (EC) under the provisions of the EIA Notification, 2006 for the project mentioned above. The proposed project activity is listed at item no. 1(a) - Mining of minerals under Category “A” of the schedule of the EIA Notification, 2006 and appraised at Central Level. The project does not attract General Conditions as specified in Schedule of the EIA Notification, 2006.

Pathora West Coal Block (Sohagpur Coalfield) (having production capacity of 0.80 MTPA within the ML area of 554.0843 Ha), is an underground mining project, of M/s Shri Bajrang Power And Ispat Limited located at villages: Ghunghuti, Gitori, Khatkitola and Patnarkala; District: Umariya; State: Madhya Pradesh.

32.1.2: The Committee noted the following from the proposal submitted by the project proponent:

1. The instant proposal is for grant of Environment Clearance to M/s Shri Bajrang Power and Ispat Limited for Pathora West Coal Block (Sohagpur Coalfield) (having production capacity of 0.80 MTPA within the ML area of 554.0843 Ha), which is an

underground mine, located at villages: Ghunghuti, Gitori, Khatkitola and Patnarkala; District: Umariya; State: Madhya Pradesh.

2. Ministry accorded ToR for the above project to M/s Shri Bajrang Power and Ispat Limited vide letter dated 28.10.2024 for undertaking EIA/EMP study.
3. PP submitted the application on Parivesh portal on 30.07.2025 for seeking for environment clearance based on the ToR granted vide letter dated 28.10.2024.
4. The Committee deliberated on the instant proposal along with the documents and presentation submitted by the project proponent and observed the following shortcomings:
 - i. Committee observed that there is Gunghuti Wildlife Corridor situated at a distance of 0.5 km from the boundary of ML area. Committee opined that since the ML area is abating the wildlife corridor, comments from the wildlife division in this regard inter-alia requirement of National Board for Wildlife Clearance (NBWL) approval may be sought by the Member Secretary for this particular project. Neither the proponent nor the consultant is unable to provide the specific safeguards to be followed in the project due to its proximity to the wildlife corridor.
 - ii. Committee also observed the list of Schedule – I species submitted by the project proponent is incorrect. An authenticated list of Schedule – I species shall be obtained from the concerned DFO and shall be resubmitted.
 - iii. During the presentation the proponent submitted that, no road transportation of coal is proposed in the instant project. The entire coal is proposed to be transported by conveyor and shafts from underground to surface facility. Further it will be loaded into railway wagon via CHP mechanically and will be transported to the end users by railway. However, in the baseline study submitted by the proponent, it is observed that in the traffic assessment study carried out by the PP, it is mentioned that, the existing PCU for NH – 43 (road passing through the block and proposed to be used for the said project) is 45 PCU/ hr. After the commencement of the said project, the load will be 47 PCU/ hr. Committee sought clarity on the increased traffic load, when there is no road transportation of coal proposed for the said project.
 - iv. The baseline study table does not have the AAQ parameters and the incremental GLC levels comprehensively for both core zone and buffer zone. The same is required to be submitted individually for both core zone and buffer zone.
 - v. Committee deliberated on the Contour Plan submitted by the proponent and observed that the same is not correct. The contours are observed to be passing through the water bodies present within the ML area. The same is required to be rectified and submitted again.
 - vi. Committee deliberated on the water requirement for the said proposal and sought clarity on the usage of 773 KLD of water proposed to be used in the said project for the different activities.

- vii. Committee deliberated on the public hearing proceeding for the said project and observed that, water supply, decrease in water levels and water treatment has been one of the main concerns of the public for the said project. Proponent has not provided plan for the same in its public hearing action plan. Committee opined that, proponent shall provide a plan for water conservation and water reclamation for the said mine and accordingly shall increase the budget of the action plan submitted for the issues raised in public hearing.
- viii. During the meeting, proponent submitted that there will be no impact on the ground water due to the said project and no ground water intersection is involved. Committee found the said information to be erroneous as the said project is an underground mining project and ground water intersection and influx of groundwater is supposed to be inevitable. The PP is required to cross check the same and resubmit the information accordingly.
- ix. Apart from this, the action plan for the public hearing concerns submitted by the proponent is not in the required format and the budget allocated for the same is not adequate to address the issues raised by the public. The public hearing action plan shall be submitted as per the Ministry's OM dated 30.09.2020 along with the increased and appropriate budget to address the concerns raised by the public during the public hearing.
- x. Committee deliberated on the plantation activities proposed by the proponent and opined that there is no clarity submitted by the PP w.r.t the number of saplings, time frame for planting the saplings year-wise and budget proposed for the same. Committee sought a time bound action plan along with the budgetary provisions for the same and further opined that the budget for plantation shall be accordingly increased. PP shall also submit a plan for community plantation, within the ML area, with the fruit bearing and local species.
- xi. Committee also observed that the land use pattern submitted by the PP is not as per the format of Annexure – II (brief summary). The same is required to be submitted in the appropriate format.
- xii. Committee deliberated on the Scientific Study Report carried out by NIT Raipur for Impact Assessment of Underground Mining Activities on Air Quality and the Environment of the said project and observed in the recommendations that strict adherence to the provisions of CMR 1957 is mentioned to be followed. Committee opined that CMR 1957 has been superseded by CMR 2017 and accordingly the necessary corrections shall be made.
- xiii. In the presentation made before the EAC, the recommendations of NIT Raipur are found to be generic in nature and observed to not specific to the instant project.
- xiv. Committee further observed that the documents circulated by the PP before the meeting as per the agenda, have not been completely filled and the information asked has not been filled in the prescribed format. Proponent and

the consultant are required to carefully fill the required information and the agenda documents shall be timely circulated.

- xv. The committee advised the proponent to revisit the entire proposal in totality including the above mentioned observations. Thereafter, appropriate changes in all the requisite documents such as common application form, EIA/EMP report and the presentation etc shall be carried out and the proposal shall be submitted afresh for fresh consideration by the EAC.

Recommendations of the Committee:

32.1.3: In view of the foregoing and after detailed deliberations, the EAC *returned the proposal in its present form.*

Agenda No. 32.2:

32.2: Lakhpat Punrajpur Lignite (3.0 MTPA) and Limestone (29.81 MTPA) over a mine lease area of 2959.6715 Ha by **M/s Gujarat Mineral Development Corporation Limited**, located at Villages: Kaner, Punjarpar and Lakhpat; **District: Kutch; State: Gujarat - Environment Clearance – reg.**

[Online Proposal No. IA/GJ/CMIN/550329/2025; Consultant: Vardan Environet LLP - NABET/EIA/2326/RA 0284_Rev.01 – valid up to 04.05.2026]

32.2.1: M/s Gujarat Mineral Development Corporation Limited (GMDC) have made an online application vide proposal no. IA/GJ/CMIN/550329/2025 dated 09.09.2025 along with copy of EIA/EMP Report, CAF and Form I seeking for Environment Clearance (EC) under the provisions of the EIA Notification, 2006 for the project mentioned above. The proposed project activity is listed at schedule no. 1(a) - Mining of minerals under Category “A” of the schedule of the EIA Notification, 2006 and appraised at Central Level. The project does not attract General Conditions as specified in Schedule of the EIA Notification, 2006. However, the project is located at a distance of 16.75 km from the India-Pakistan border. A NoC in this regard has been obtained from the Ministry of Defence vide letter dated 14.10.2024 from Military Security point of view.

The Lakhpat Punrajpur Lignite and Limestone Mine is over an area of 2959.6715 Ha, with the production capacity of Lignite of 3 MTPA and Limestone of 29.81 MTPA of M/s Gujarat Mineral Development Corporation Limited, located at Villages: Kaner, Punjarpar and Lakhpat; District: Kachchh; State: Gujarat.

The Block was reserved for mining by M/s GMDC by State Government with the prior approval of Central Government (07/12/2016) by notification in official gazette under Sec 17(A) (2) of MMDR Act 1957 on dated 03/07/2017. Grant order has been Issued by Industries of Mines Department, Government of Gujarat, for a period of 30 years for Lignite and Limestone on 25.10.2021. The proposed production rated capacity of the mine for Lignite is 3.0 MTPA & Limestone is 29.81 MTPA. Mining plan & Mine closure plan for Lignite was approved by Ministry of Coal vide letter no. F. No. 55026-3-2020-MPS on dated 5th October, 2020 & for **Limestone by Indian Bureau of Mines vide letter no. MCDR-MPCP0CaFI/7/2023-GNR-IBM_RO_GNR dated 09.08.2023.** TOR for Lignite mining was granted by IA-Coal mining sector on 22.06.2022 & for Limestone by IA-Non-coal mining sector on 23.12.2024.

The instant proposal involves interlinked component of limestone mining for which Terms of Reference was accorded by IA-Non-coal mining sector on 23.12.2024 as per the provisions contained under MoEF&CC O.M. dated 24/12/2010 pertaining to consideration of inter-linked projects. As per the MoEF&CC OM dated 24/12/2010, following points are needs to be looked in to while appraising interlinked proposals.

- i. Integrated and inter-linked projects having multi sectoral components shall prepare a common EIA report, covering impact of each of the component in a comprehensive manner after obtaining TORs from each of the respective sectoral Expert Appraisal Committees (EACs). For the purpose, the project proponent shall submit applications to each of the sector simultaneously giving full details of the project (comprehensively for the integrated / interlinked projects as also for the particular component, sector specific) in the prescribed format (Form-1) and the pre-feasibility report.
- ii. The respective sectoral Expert Appraisal Committees will consider the project with specific emphasis on their respective sectors and prescribe the TORs which will not be limited to the sector but would also encompass the entire project as a whole.
- iii. The proponent shall prepare a common EIA report covering all the sectors comprehensively and hold public hearing based on the EIA report so prepared, for each component as per provision of EIA Notification, 2006.
- iv. After the EIA report has been prepared and public hearing has been held, the proposals for environmental clearance in respect of all the sectoral components of the project shall be submitted simultaneously.
- v. The respective EACs will consider the sector specific proposals based on the common EIA report and will make their recommendations relating to that particular component. However, in doing so, the overall impact of the project as a whole will also be considered.
- vi. After the proposals relating to the various components have been considered by the respective EACs and their recommendations made, these proposals will be processed on individual files for obtaining simultaneous approval of the Competent Authority.

In the instant case, proponent has obtained ToR from Coal and Non-coal mining sector for the lignite and limestone mining respectively. Common EIA report has been prepared and public hearing has been completed for the all the sectoral components. Further, proposal for grant of EC for lignite (Proposal no: IA/GJ/CMIN/550329/2025) and limestone mining (proposal no. IA/GJ/MIN/545165/2025) has been submitted simultaneously.

The instant proposal is for grant of EC for the Lakhpat Punrajpur Lignite for the production capacity of 3 MTPA within the ML area of 2959.6715 Ha.

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

32.2.2: Environmental Site Settings:

The project geographically extends from Latitudes 23°44'40.429"N to 23°49'19.872"N and longitudes 68°43'22.983"E to 68°47'30.417"E & is covered under the Survey of India Toposheet no. 41 A/9, 41 A/10, 41 A/13 & 41 A/14.

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

Forest Area: The project does not involve forestland.

Protected Area: The project is not located within 10 KM of any ESA/ national park/ wildlife sanctuary/ elephant reserve/ tiger corridor/ elephant corridor etc. However, the project is located at a distance of approximately 8.2 km from the Narayan Sarovar Wildlife Sanctuary Eco-Sensitive Zone (Notification dated 31.05.2012) and at a distance of approximately 1.9 km from Guneri Biodiversity Heritage Site. NBWL requirement for the same is not required.

Schedule-I species (14 mammals, 08 reptiles & 14 Avifauna) has been observed in the study area and Site-Specific Wildlife Conservation Plan has been approved by PCCF, Gandhinagar vide letter WLP/C/32/807-809/2024-25 on dated 26.11.2024.

Mine Lease Details:

S. No.	Govt. Order/ Notifications as the case may be	Area (Ha)
1.	Vide order no. MCR-102015-406-CHH1 on dated 25.10.2021	2959.6715
Total		2959.6715

Other Sensitive Receptors:

Project site proximity to sensitive area	Distance in km (within 5 km from the ML area)		
i. Habitation	Village	Distance (km)	Direction
	Lakhpat	0.30	N
ii. School	School	Distance (km)	Direction
	Kaner primary School	0.5 km	N
	Baiyava Primary School	1.4 km	S
	Shree Shinapar Primary School	1.7 km	W
	Maldo Primary School	3.5 km	SW
iii. River/ Waterbody	River/Water Body	Distance (km)	Direction
	One Seasonal nallah (Tributary of Kali River)	Within ML area	
	Kali Nadi (HFL 30 to 28 MRL)	0.3 km	W
	Kori Creek	3.3 km	N
	Korawadi Nadi HFL 68 TO 70 AMSL)	6.3 km	SE
iv. Forest	Forest	Distance (km)	Direction
	Forest near Pranper	0.5 km	SE
	Guneri Mangrove Heritage Site	1.9 km	SE
	Pranpar Rakhil RF	1.9 km	SE
	Akri RF	6.7 km	SSE
	Ukher RF	7.1 km	E
	Khanot RF	8.5 km	SSE
	Mudhvay RF	8.9 km	SW
	Gaduli RF	8.5 km	ESE
v. Archaeological Survey of India (ASI) protected site	Lakhpat fort is approximately 0.200 km in north direction from the mining lease area. NOC in this regard has been obtained from the Directorate of Archaeology & Museums vide letter dated 28.10.2024. Wherein, it is mentioned that, “it is recommended that any mining activity beyond 300 meters be conducted in accordance with applicable local, environmental, and mining laws to ensure compliance with all other regulatory frameworks governing		

Project site proximity to sensitive area	Distance in km (within 5 km from the ML area)
	<i>such activities</i>
vi. Any other	No

32.2.3: Details of ToR:

Date of Application	Details	Date of Accord	ToR Validity
05.05.2022	J-11015/111/2021-IA-II(M)	22.06.2022	21.06.2026

32.2.4: Details of Mining Plan: Mining plan & Mine closure plan for Lignite was approved by Ministry of Coal vide letter no. F. No. 55026-3-2020-MPS on dated 05.10.2020.

- The method of mining to be adopted shall be opencast mining using surface miner.
- Total geological reserve reported are 145.43 MT in the geological block, out of which mineable reserves are 105.52 MT and extractable reserves are 100.25 MT. Percentage of extraction is 68.93%.
- There are total 12 nos of seams, out of which only 4 are mineable, with the thickness ranging from 3.6 m to 15.83 m.
- Grade of Lignite is G-2 and stripping ratio is 14.65 cum/t.
- Life of mine for lignite mining is 39 years and for limestone mining is 37 years (from the date of commencement of the mining operation).
- Top Soil Management:
 - Quantity of Topsoil to be generated: 12.65 M.Cum
 - Storage of Top Soil: Top soil will be stacked separately in earmarked areas.
 - Handling/Utilization of Topsoil: Top soil will be used for growing plants along the fringes of the site roads and reclamation of external dump and backfilled area
 - Number of Topsoil Dumps: 01
- Details of OB Dump:
 - Dumps Details: It is pertinent to mention that the following proposed overburden is the total overburden of both lignite and limestone mining.

Details	Internal Dumps		External Dumps		Remarks
	Nos.	Quantity of Waste/ OB stored (m ³)	Nos.	Quantity of Waste/ OB stored (m ³)	Whether external dump is outside mine lease area
Proposed	1	1212970000	One surface dump (Central Portion)	248440000	No
Total	1	1212970000	One surface dump (Northern & central portion)	248440000	No

b)

c) Specification of Each Dumps:

Dump No.	Area	Height	Quantity (m ³)	Type (Internal/ External)
1.	108.30 Ha	30 m	248440000	External
2.	1669.74 Ha	10 m	1212970000	Internal

8. Land use details:

a. Pre – mining land use pattern:

S. No.	Land Use	Within ML Area (Ha)	Outside ML Area (Ha)
1.	Agricultural Land	312.315	Nil
2.	Forest land	0	Nil
3.	Barren Land	2567.4365	Nil

S. No.	Land Use	Within ML Area (Ha)	Outside ML Area (Ha)
4.	Waste Land	0	Nil
5.	Grazing Land	75.20	Nil
6.	Surface Water Bodies	2.3	Nil
7.	Settlements	0	Nil
8.	Other (Roads / Other infrastructure)	2.42	Nil
Total		2959.6715	Nil

b. Post – mining land use pattern:

S. No.	Type	Total Area (Ha)	Reclaimed Area (Ha)	Un-reclaimed Area (Ha)
1.	Excavation/Quarry Area:	2140.74	-	-
	(a) Backfilled areas	-	1669.74	-
	(b) Excavated Void	-	471.0	-
2.	External Dump	108.3	108.3	-
3.	Safety Zone	49.84	49.84	-
4.	Road and infrastructure	31.99	-	31.99 (Public Use)
5.	Garland Drains	-	-	-
6.	Embankment	-	-	-
7.	Water Harvesting	4.88	4.88	-
8.	Haul Road between quarries	9.02	-	9.02 (Public Use)
9.	Nallah Diversion	18.96	14.06	4.90
10.	Others (Undisturbed Land)	595.9415	-	595.9415
Total		2959.6715	2317.82	641.8515

9. Details of transportation:

i. **In pit to surface:** By Dumpers/Tippers

ii. **Surface to Consumer:**

Lignite Transportation:

Initially (0.66–2 MTPA production), lignite will be transported by road. Part of it will be supplied to GMDC's 250 MW Akrimota Thermal Power Station (ATPS), located ~19.4 km southwest of the mine, and the rest to existing customers. GMDC has engaged IRPCL to study a Belt Conveyor & Silo Loading system at the railway siding. Meanwhile, the Ministry of Railways is expanding the Naliya–Lakhpat line (Deshalpur–Hajipur–Lakhpat section), expected to be completed in about 3 years.

Limestone Transportation:

GMDC has binding agreements with JK Lakshmi Cement and City Gold Pipes Pvt. Ltd. (consortium of Gold Crest Cement Pvt. Ltd. and Kailash Darshan Housing Development). Both will set up cement plants within 10 km of the lease area and transport limestone from the stockyard via conveyor belt system.

iii. **Proposed change in transportation means if any, give details:** Initially, lignite is planned to be transported by road, GMDC is further exploring the future possibilities of Rail transportation as the Ministry of Railways is expanding the Naliya rail line to Lakhpat (as of now, the distance of Naliya rail line from the said mine is 87 km), and is expected to be completed in 3 years from commencement of mining operation.

10. **Details of reclamation:** The afforestation plan shall be done progressively covering an area of 1113.94 Ha [2317.82 Ha (total reclamation area) – 471 Ha (void to be converted into water body) – 728 (backfilled area to be converted into agricultural land)] at the end of mining. This will include 108.30 Ha of external OB dump, 941.74 Ha of internal OB dump, greenbelt in 49.84 Ha and 14.06 Ha of plantation in other area. 728 ha of backfilled area will be converted into agricultural land. Density of plantation will be 2500 plants/ Ha. The void of 471 Ha of a depth of 30 m is proposed to be converted into water body.

11. **Calendar plan of mining:**

Year of operation	Calendar Year	Lignite Production		
		UG	OC	Total
Year-1	2020-21	-	0	0
Year-2	2021-22	-	0	0
Year-3	2022-23	-	0.66	0.66
Year-4	2023-24	-	1	1
Year-5	2024-25	-	2	2
Year-6	2025-26	-	3	3
Year-7	2026-27	-	3	3
Year-8	2027-28	-	3	3
Year-9	2028-29	-	3	3
Year-10	2029-30	-	3	3
Year-11	2030-31	-	3	3
Year-12	2031-32	-	3	3
Year-13	2032-33	-	3	3
Year-14	2033-34	-	3	3
Year-15	2034-35	-	3	3
Year-16	2035-36	-	3	3
Year-17	2036-37	-	3	3
Year-18	2037-38	-	3	3
Year-19	2038-39	-	3	3
Year-20	2039-40	-	3	3
Year-21	2040-41	-	3	3
Year-22	2041-42	-	3	3
Year-23	2042-43	-	3	3
Year-24	2043-44	-	3	3
Year-25	2044-45	-	3	3
Year-26	2045-46	-	3	3
Year-27	2046-47	-	3	3
Year-28	2047-48	-	3	3
Year-29	2048-49	-	3	3
Year-30	2049-50	-	3	3
Year-31	2050-51	-	3	3
Year-32	2051-52	-	3	3
Year-33	2052-53	-	3	3
Year-34	2053-54	-	3	3
Year-35	2054-55	-	3	3
Year-36	2055-56	-	3	3
Year-37	2056-57	-	2	2
Year-38	2057-58	-	1.19	1.19
Year-39	2058-59	-	0.4	0.4
Total			100.25	100.25

32.2.5: Baseline Data:

Period	March to May 2024																											
AAQ parameters at 10 Locations (min and max)	Core Zone: PM ₁₀ = 43.30 to 57.70 µg/m ³ PM _{2.5} = 27.50 to 35.40 µg/m ³ SO ₂ = 7.60 to 13.40 µg/m ³ NOx = 15.80 to 23.50 µg/m ³ CO = 0.15 to 0.23 mg/m ³ Buffer Zone: PM ₁₀ = 44.50 to 67.00 µg/m ³ PM _{2.5} = 28.20 to 41.10 µg/m ³ SO ₂ = 7.10 to 18.00 µg/m ³ NOx = 16.10 to 27.90 µg/m ³ CO = 0.18 to 0.67 mg/m ³																											
Incremental GLC Level	Core Zone: PM ₁₀ = 8.4694 µg/m ³ PM _{2.5} = 6.04957 µg/m ³ SO ₂ = 0.4033 µg/m ³ NOx = 0.56463 µg/m ³ CO = 0.000013 µg/m ³ Buffer Zone: PM ₁₀ = 0.27381 to 6.84195 µg/m ³ PM _{2.5} = 0.19558 to 4.88711 µg/m ³ SO ₂ = 0.01304 to 0.32581 µg/m ³ NOx = 0.01825 to 0.45613 µg/m ³ CO = 0.0000005 to 0.0000161 mg/m ³																											
Ground water quality at 10 Locations	pH: 7.35 to 7.63, Total Dissolved solids: 641.0 to 790.0 mg/l; Hardness: 355.0 to 498.0 mg/l; Chlorides: 225.91 to 301.28 mg/l, Fluoride: 0.32 to 0.42 mg/l. Heavy metals Fe: 0.55 to 0.88 mg/l, Zinc as Zn: 0.61 to 1.15 mg/l, Copper as Cu: BLQ(LOQ-0.002) mg/l, Cyanide as CN: BLQ(LOQ-0.02) mg/l, Aluminium as Al: BLQ(LOQ-0.005) mg/l, Boron: BLQ(LOQ-0.01) mg/l, Chromium as Cr: BLQ(LOQ-0.002) mg/l, Phenolic Compound: BLQ(LOQ-0.0005) mg/l, Manganese as Mn: BLQ(LOQ-0.01) mg/l, Cadmium as Cd: BLQ(LOQ-0.002) mg/l, Lead as Pb: BLQ(LOQ-0.002) mg/l, Selenium as Se: BLQ(LOQ-0.001) mg/l, Arsenic as As: BLQ(LOQ-0.005) mg/l, Mercury as Hg: BLQ(LOQ-0.0005) mg/l, Total Coliform: <1.8 MPN/100ml.																											
Surface water quality at 8 Locations	All the Parameters Like pH varies from 7.44 to 7.88, Total Hardness varies from 307.0 to 407.0 mg/l, Total Dissolved Solids varies from 410 to 524 mg/l, Dissolved Oxygen varies from 5.5 to 6.3 mg/l, BOD: 11.0 to 18.0 mg/l. COD from 42.0 to 64.0 mg/l. Fe: 1.23 to 1.86 mg/l, Aluminium as Al: BLQ(LOQ-0.005) mg/l, Boron: 0.65 to 0.89 mg/l, Chromium as Cr: BLQ(LOQ-0.002) mg/l, Phenolic Compound: BLQ(LOQ-0.0005) mg/l, Zinc as Zn: 0.35 to 0.83 mg/l, Copper as Cu: 0.32 to 0.67 mg/l, Manganese as Mn: BLQ(LOQ-0.01) mg/l, Cadmium as Cd: BLQ(LOQ-0.002) mg/l, Total Coliform: 700 to 1100 MPN/100ml., E. Coli: 170 to 500 MPN/100ml etc. are found within the permissible limits.																											
Noise levels Leq (Day and Night)	Core Zone (Industrial Zone) 38.40 dB(A) for the day time and 33.60 dB(A) for the Night time. Buffer Zone (Residential Zone) 45.94 to 52.63 dB(A) for the day time and 36.36 to 42.93 dB(A) for the Night time.																											
Traffic assessment study findings	<div>The Level of Service (LOS) and the capacity of the Roadway segments computed is based on the Indian Roads Congress (IRC) standards sourced from Guidelines for Capacity of Rural Roads in Plain Areas IRC 64-1990</div> <div><div>Existing Traffic Scenario and LOS</div><table><tr><th>Types of Roads</th><th>Existing Volume</th><th>Capacity in PCU/day</th><th>V/C Ratio</th><th>LOS</th></tr><tr><td>SH-06 (T1)</td><td>906</td><td>15000</td><td>0.06</td><td>A</td></tr><tr><td>SH-42 (T2)</td><td>174</td><td>15000</td><td>0.01</td><td>A</td></tr></table><div>Existing and Increase in PCU/day</div><table><tr><th>Road</th><th>Existing</th><th>Proposed</th><th>Capacity</th><th>Modified</th><th>LOS</th></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td></tr></table></div>	Types of Roads	Existing Volume	Capacity in PCU/day	V/C Ratio	LOS	SH-06 (T1)	906	15000	0.06	A	SH-42 (T2)	174	15000	0.01	A	Road	Existing	Proposed	Capacity	Modified	LOS						
Types of Roads	Existing Volume	Capacity in PCU/day	V/C Ratio	LOS																								
SH-06 (T1)	906	15000	0.06	A																								
SH-42 (T2)	174	15000	0.01	A																								
Road	Existing	Proposed	Capacity	Modified	LOS																							

Period	March to May 2024					
			Volume (V)	(C)	V/C Ratio	
	T1	906	906+1030=1936	15000	0.129	A
	T2	174	174+530=704	15000	0.047	A
	<p>Conclusion: The LOS study shows that the existing traffic scenario is “Excellent” for SH- 42 & SH 06 and the free flow of vehicles is observed during the study period. Due to the mine project the traffic density will increase if the entire mineral will be transported through the Road (SH- 42 & SH 06) and the value of LOS would remain same as ‘Excellent’</p> <p>Note: Capacity as per IRC 64 – 1990 Guide line for capacity for roads.</p>					
Soil Quality	<p>pH – 7.44 to 7.89 Organic Matter - 0.30 % to 0.40 % Available Nitrogen – 157.22 to 193.78 Kg/ha Available Phosphorus – 18.45 to 25.19 Kg/ha Potassium – 152.93 to 179.72 mg/Kg</p>					
Flora and fauna	<p>Narayan Sarovar Wildlife Sanctuary is approx. 8.8 km in SSW direction from the mine lease area.</p> <p><i>There is presence of Schedule – I species within the ML area (14 mammals, 08 reptiles & 14 Avifauna).</i></p> <p>A detailed Wildlife Conservation/Management plan for conservation of Schedule-I species for an amount of Rs 1520 Lakhs has been prepared. The Conservation Plan has been approved by PCCF, Gandhinagar vide letter WLP/C/32/807-809/2024-25 on dated 26.11.2024.</p>					
Water Requirement	<p>Source of Water: For Mine Use: Mine Sump (After Treatment), For Drinking & Domestic: Bore well</p> <p>Ground Water Intersection: The post-monsoon water level varies from 1.5 m to 6.0 m below ground level. In the pre-monsoon period, it varies from 3.0 m to 9.0 m below ground level.</p> <p>Water Requirement: 1325 KLD</p> <p>NOC (For Surface Water): Not Applicable</p> <p>NOC (Ground Water): Yes, Ground water withdrawal Permission is under process and will be obtained before mining commencement. Application has been made vide application no. 21-4/11717/GJ/MIN/2024, dated 01.04.2024.</p>					

32.2.6: Details of Water Requirement: Total water requirement is 1325 KLD which will be source from ground water 50 m³/day, Dewatering water 814 m³/day& Mine pit rain water collection 461 m³/day. Ground water withdrawal permission is under process and application has been made vide application no. 21-4/11717/GJ/MIN/2024, dated 01.04.2024. Permission will be obtained before mining commencement. A seasonal nallah is proposed to be diverted after 20th year of operations.

32.2.7: Public Consultation/ Hearing:

Details of advertisement given	The date, time and venue of the public hearing were published in Daily Newspapers on 22.02.2025 in “Times of India” & “Kutch Mitra” by State Pollution Control Board, Gujarat.
Date of public consultation	28.03.2025
Venue	Near GMDC project office –Lakhpat Punrajpur, Lakhpat Gadhuli Highway, Mukam Post Lakhpat, Taluka Lakhpat & District Kutch (Gujarat).
Presiding Officer	Ms. E. Sushmitha IAS, Assistant Collector and Sub divisional Magistrate-Nakhatrana
Number of Person Attended Hearing	800-1000
Number of representations received in writing from the district and outside of district, please give details:	37
Major issues raised	Land Acquisition and promulgation.

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

S. No.	Subject	Physical activity and action plan	Total Budget for 3 Years (in Lakhs)	Year of Implementation		
				Year 1	Year 2	Year 3
1.	Skill development	<ul style="list-style-type: none"> ➤ Skill Development (Project Samarthya): An employment-oriented skill development program for the local community to increase their employability. <p><i>Project Samarthya shall cater all three Project affected villages.</i></p> <ul style="list-style-type: none"> ➤ Physical Infrastructure Activity: A Center for Skill Development will be established in Bhuj, serving as a hub for training and physical skill-building activities. 	650	100	200	350
2.	Education	<ul style="list-style-type: none"> ➤ Construction of Classrooms in Government School improving educational infrastructure and providing better learning environments in three villages ➤ Transportation Support: Vehicles will be provided for transportation of students from their home to school. ➤ Free Education will be provided to students covered under the Right to Education (RTE) Act in all three villages. ➤ DAV GMDC Public School – already established; currently caters to students from Nursery to Grade V. GMDC will take initiatives to upgrade the school infrastructure to expand to higher grades. 	1575	475	535	565
3.	Healthcare	<p>Mobile Medical Unit (Jan Chikitsa Seva) for doorstep healthcare services, free medicines and tele-consultation with specialist doctors to the local communities of the three villages.</p> <p>Upgrading Medical Infrastructure – Facilities at local Primary Health Centers (PHCs) will be upgraded to include obstetric care, sonography, dialysis, and basic laboratory services.</p> <p>Hospital Infrastructure Development – GMDC has entered into an agreement with Apollo Hospitals and upgraded its hospital at ATPS, Nani Cher, Taluka Lakhpat, increasing medical service capacity in the area.</p>	2120	655	715	750
4.	Green belt, Social Forestry & Conservation of Guneri	Development of Green Belt: Planned considering local wind patterns to act as a dust and noise buffer for nearby habitations and to protect local biodiversity.	2243.5	870.5	595.5	777.5

S. No.	Subject	Physical activity and action plan	Total Budget for 3 Years (in Lakhs)	Year of Implementation		
				Year 1	Year 2	Year 3
	Heritage site	Biodiversity Conservation: Measures will be implemented to conserve and enhance flora and fauna within the core and buffer zones. Heritage Conservation: The Guneri heritage site located near the project area will be conserved and preserved. Wildlife Conservation Plan Implementation: Awareness programmes will be organised for mine workers and nearby villagers as part of wildlife conservation measures. Community Participation: Free distribution of plants among local communities and awareness programmes on environmental protection will be organised.				
5.	Water Resource Management & Conservation of Ponds	Protection of Water Bodies: Conservation and rejuvenation of existing ponds and cattle water bodies in the vicinity, Rain water Harvesting & Water Treatment	431.65	162.55	134.55	134.55
Total			7020.15	2263.05	2180.05	2577.05

32.2.8: Project Cost and EMP Cost: The capital cost for the proposed project is Rs. 32369 lakhs and the capital cost for environmental protection measures is proposed as Rs. 1762.83 lakhs. The annual recurring cost towards the environmental protection measures is proposed as Rs. 156.56 Lakhs. The employment generation from the proposed project is 1000 persons. The details of cost for environmental protection measures are as follows:

S. No.	Environmental Protection Measures	Capital Cost	Recurring Cost
		(Rs. In Lakhs)	(Rs. In Lakhs/ Year)
1.	Air Pollution Control Measures (Dry fog Dust Suppression Systems at CHP, and Loading Point)	105	20
2.	Water Pollution Control Measures (Construction of Garland drain, Construction of Garland drain around the OB dump, Toe wall around the dump)	40.5	6.95
3.	Noise Pollution Control Measures	50	2.5
4.	Green Belt & Plantation Development	890.97	65.7
5.	Rainwater Harvesting	498	12.55
6.	Budget for Pond Conservation Measures	30	2
7.	Construction of Haul road	25	3
8.	Occupational Health & Safety	118.36	42.86
9.	Environment & Monitoring & Management	5	1
Total EMP Budget*		1762.83	156.56
* The EMP capex budget shall be utilized within 5 years from the date of operation.			

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

S. No	Type of Waste	Source	Quantity (TPA)	Mode of Treatment	Disposal	Remarks
1.	Domestic solid waste	Mine office, Canteen etc.	90	Food waste will be composted as fertilizers & Solid waste to Authorized vendors	Through CPCB/SPCB approved recycler	Solid waste
2.	Used oil & grease	Mine Workshop & Mine Machinery	4.0	Authorized Vendors	Through CPCB/SPCB approved recycler	Hazardous waste
3.	E-Waste (Electrical and Electronic Equipment)	Administrative office & service building	0.1	Authorized Vendors	Through CPCB/SPCB approved recycler	E-Waste
4.	Batteries	Vehicles at sites	8.0	Authorized Vendors	Through CPCB/SPCB approved recycler	Batteries waste
5.	Plastic Waste	Administrative office & service building.	3.0	Authorized Vendors	CPCB/SPCB guidelines for Authorized vendors	Plastic Waste

32.2.10: Power Requirement and details of diversion of Hi-tension/ Transmission line: Power requirement for the said project is 3.3 MW. Necessary power connection will be drawn from the nearby substation situated at a distance of around 6 km from the project site. A High-Tension line is passing through the lease area. A HT line (33 KV) needs to be shifted within 15th year from the commencement of the mining operation at this site.

32.2.11: Plantation: Proposed greenbelt will be developed in 49.84 ha which is about 0.017 % of the total project area. A 15 m wide greenbelt, consisting of at least 3 tiers around mine boundary will be developed as greenbelt and green cover as per CPCB/MoEF&CC. New Delhi guidelines. Local and native species will be planted with a density of 2500 trees per hectare. Total no. of 2,784,850 saplings will be planted and nurtured in 1113.94 hectares in 39 years.

32.2.12: Rehabilitation & Resettlement issues: Shifting of Families is not associated with this project, hence no rehabilitation is involved in the said project. However, there will be land losers and for the land losers, Compensation in accordance with the prevailing Norm of State & LARR Act 2013 shall be paid by GMDC to land losers.

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

32.2.14: Undertaking/ Affidavit: PP vide an undertaking 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 24th September, 2025 have no deviation in respect of the proposal no. IA/GJ/CMIN/550329/2025 for EC for Lakhpat Punrajpur Lignite and Limestone Mine Project of M/s Gujarat Mineral Development Corporation

Limited having 2959.6715 ha of ML area and production capacity of 3.0 MTPA located at village Punrajpur, Lakhpur & Kaner, Taluka -Lakhpur, District - Kutch, Gujarat. Further, 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 in EC.

Further, vide an affidavit, PP submitted that, there is no construction done at the site so far, there is no litigation on the project either at NGT or any other court of law, the land has been reserved through letter for reservation of area under the provision of MMDR Act-1957 by Ministry of Coal, GoI by their letter no. 11033/09/2015-CA-II, dated 7th December, 2016 and Gazette Notification Industries and Mines Department, the Gujarat Government (No-GUJ 2017-23-MCR-102015-406-CHH-1), dated 3rd July, 2017. There is no R & R involved. That there is no difference in the documents submitted i.e, EIA/EMP Report and the presentation being made to the EAC

The Proposal is submitted for obtaining EC for proposed production capacity of 3.00 MTPA Normative and 4.50 MTPA at Peak Rated Lignite & 29.81 MTPA Limestone.

The company further undertook that the contents of the affidavit/declaration are true and correct to best of my knowledge and belief that nothing has concealed.

32.2.15: Written submission: During the meeting PP submitted the following:

S. No.	Information sought by EAC	Reply of PP
1.	The proposed project is located at an aerial distance of 16.75 km from India-Pakistan border. An NOC from Ministry of Defence from Military Security point of view has been granted on dated 14.10.2024	Copy of the same has been submitted.
2.	With reference to Lakhpur fort, an NOC from Directorate of Archaeology & Museums, Gujarat dated 28.10.2024.	Copy of the same has been submitted. NOC in this regard has been obtained from the Directorate of Archaeology & Museums vide letter dated 28.10.2024. Wherein, it is mentioned that, <i>“it is recommended that any mining activity beyond 300 meters be conducted in accordance with applicable local, environmental, and mining laws to ensure compliance with all other regulatory frameworks governing such activities”</i>
3.	Undertaking for installation of 4 nos of CAAQMS, 2 each in the core zone and the buffer zone.	Undertaking has been submitted.
4.	Letter submitted to district administration for the arrangement of alternate grazing land in place of the grazing land present within the ML area.	Copy of the same has been submitted.
5.	The project is located at a distance of 3.3 km from the Kori Creek. NOC for the non-applicability of CRZ notification has been obtained from the Gujarat Coastal Zone Management Authority.	Copy of the same has been submitted.
6.	Comprehensive Hydrological report with ground water modelling report submitted to State Ground Water Department, Gujarat	Copy of the same has been submitted.
7.	The proposed project is located in seismic zone V. An updated disaster management plan has been prepared.	Copy of the same has been submitted.

S. No.	Information sought by EAC	Reply of PP
8.	Justification for backfilling, utilization and overburden handling.	Justification for the same has been submitted.

Deliberations and Observation of the Committee:

32.2.16: The Committee noted the following:

1. The instant proposal has been submitted for grant of environment clearance to M/s Gujarat Mineral Development Corporation Limited (GMDC) for Lakhpat Punrajpur Lignite and Limestone Mine is over an area of 2959.6715 Ha, with the production capacity of Lignite of 3 MTPA and Limestone of 29.81 MTPA, located at Villages: Kaner, Punjarpar and Lakhpat; District: Kachchh; State: Gujarat. The instant proposal is for grant of EC for the Lakhpat Punrajpur Lignite for the production capacity of 3 MTPA within the ML area of 2959.6715 Ha.
2. During the deliberation the Committee observed that appraisal process for the limestone EC is yet to take place. Member Secretary apprised during the deliberation that, even if the project for lignite gets recommended, the EC application will be processed only after the EAC-Non coal recommends the proposal for grant of EC for limestone mining as per the MoEF&CC O.M dated 24/12/2010.
3. Proponent was accorded ToR for the Lignite mining project vide letter no. J-11015/111/2021-IA-II(M), dated 22.06.2022.
4. The EAC took into consideration the project site through KML file on the Google Earth presented by the project proponent along with DSS of the project site on PARIVESH.
5. Project does not fall in the Critically Polluted Area (CPA)/ Severely Polluted Area (SPA), as per CEPI Assessment 2018.
6. The project does not involve forestland.
7. The project is not located within 10 KM of any ESA/ national park/ wildlife sanctuary/ elephant reserve/ tiger corridor/ elephant corridor etc. However, the project is located at a distance of approximately 8.2 km from the Narayan Sarovar Wildlife Sanctuary Eco-Sensitive Zone (Notification dated 31.05.2012) and at a distance of approximately 1.9 km from Guneri Biodiversity Heritage Site. NBWL requirement for the same is not required.
8. There is also a Lakhpat Fort at a distance of 0.2 km from the project area. PP has obtained NOC from Directorate of Archaeology & Museums, Gujarat vide letter dated 28.10.2024.
9. During the deliberation the Committee also observed that the said project is at a distance of 16.75 km from the India-Pakistan border. PP has obtained a NoC from the Ministry of Defence vide letter dated 14.10.2024, from Military Security point of view.
10. Committee also observed that the project is located at a distance of 3.3 km from the Kori Creek. NOC for the non-applicability of CRZ notification has been obtained from the Gujarat Coastal Zone Management Authority.
11. There is presence of Schedule – I species in the said area and the Site-Specific Wildlife Conservation Plan has been approved by PCCF, Gandhinagar vide letter WLP/C/32/807-809/2024-25 on dated 26.11.2024.
12. Mining plan & Mine closure plan for Lignite was approved by Ministry of Coal vide

letter no. F. No. 55026-3-2020-MPS on dated 05.10.2020. The method of mining to be adopted shall be opencast mining using surface miner.

13. Total geological reserve reported are 145.43 MT in the geological block, out of which mineable reserves are 105.52 MT and extractable reserves are 100.25 MT. Percentage of extraction is 68.93%. Grade of coal is G-2 and stripping ratio is 14.65 cum/t.
14. Life of mine for lignite mining is 39 years and for limestone mining is 37 years (from the date of commencement of the mining operation).
15. Committee observed that, the pre mining land use involves 75.20 Ha of grazing land. PP submitted that a letter to district administration for arrangement of alternate grazing land has been submitted. Committee opined that no mining activity shall be undertaken in the grazing land till the time alternate land for the same has been provided.
16. There is one top soil dump proposed for the said project. Quantity of top soil to be generated will be 12.65 M.Cum. The top soil will be used for growing plants along the fringes of the site roads and reclamation of external dump and backfilled area.
17. There are two nos of OB dumps proposed for the said project, 1 internal dump and 1 external dump. Committee opined that the OB dump shall be proposed away from the habitation and other sensitive receptors.
18. Committee deliberated on the method of transportation of lignite proposed for the said project and observed that the entire lignite is proposed to be transported by road to the final consumer. PP further submitted that M/s GMDC is exploring the future possibilities of rail transportation as Ministry of Railways is expanding the Naliya rail line to Lakhpat, and is expected to be completed in 3 years.

Part of lignite will be supplied to GMDC's 250 MW Akrimota Thermal Power Station (ATPS), located ~19.4 km southwest of the mine, and the rest to existing customers.

GMDC has binding agreements with JK Lakshmi Cement and City Gold Pipes Pvt. Ltd. (consortium of Gold Crest Cement Pvt. Ltd. and Kailash Darshan Housing Development). Both will set up cement plants within 10 km of the lease area and transport limestone from the stockyard via conveyor belt system.

Committee opined that, issues w.r.t. transportation of limestone of 29.81 MTPA may also be looked into by the Expert Appraisal Committee of Non – Coal Mining, while apprising the proposal for EC.

19. Committee observed that baseline data has been collected during March – May 2024. The environmental parameters have been found to be within the permissible limits. Committee opined that PP shall install 4 continuous ambient air quality management system for the said project. 2 each in the core zone and the buffer zone. PP submitted an undertaking in this behalf.
20. During the deliberation the Committee observed that the said area falls under seismic zone – V, which is an earthquake prone area. However, nothing related to earthquake has been included in the disaster management plan. PP submitted an updated disaster management plan.
21. Committee deliberated on the water requirement for the said project and observed that, the total water required for the said project is 1325 KLD which will be source from ground water 50 m³/day, Dewatering water 814 m³/day & Mine pit rainwater collection 461 m³/day. Groundwater withdrawal Permission is under process and will be obtained before mining commencement. Committee further observed that a seasonal nallah is

- proposed to be diverted after the 20th year of operation. Committee opined that no such diversion shall be allowed at this stage and the same shall be taken into cognizance at the time the same is required to be diverted.
22. Committee deliberated on the public hearing that took place on 28.03.2025 and observed that the major issues raised during the public hearing were related to land acquisition and promulgation. The PH was attended by approx. 1000 nos of people and 37 written representations were received. Committee deliberated on the action plan for PH compliance submitted by the PP and observed that, the budget allocated for the same is Rs. 7020.15 lakhs. Committee opined that the same shall be utilized in a time bound manner.
23. Committee deliberated on the capital cost and the environment management plan of the said project. The capital cost for the proposed project is Rs. 32369 lakhs and the capital cost for environmental protection measures is proposed as Rs. 1762.83 lakhs. The annual recurring cost towards the environmental protection measures is proposed as Rs. 156.56 Lakhs. The employment generation from the proposed project is 1000 persons. Committee opined that the same shall be utilized in a time bound manner.
24. Power requirement for the said project is 3.3 MW. Necessary power connection will be drawn from the nearby substation situated at a distance of around 6 km from the project site. A High-Tension line is passing through the lease area. A HT line (33 KV) needs to be shifted within 15th year from the commencement of the mining operation at this site. Committee opined that necessary permission shall be obtained from the competent authority in this regard.
25. Committee deliberated on the plantation activities of the said project and observed that, greenbelt will be developed in 49.84 ha which is about 0.017 % of the total project area. A 15 m wide greenbelt, consisting of at least 3 tiers around mine boundary shall be developed as greenbelt and green cover within 3 years after granting the EC 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 2,784,850 saplings will be planted and nurtured in 1113.94 hectares in 39 years. On undisturbed land plantation should be done within 5 years after receiving EC.
26. Committee deliberated on the R&R issues of the said project and observed that Shifting of Families is not associated with this project. However, for the land losers, Compensation in accordance with the prevailing Norm of State & LARR Act 2013 shall be paid by GMDC to land losers.
27. There are no court cases pending against the proposed project.
28. The Committee noted that the EIA/EMP report is in compliance of the ToR issued for the project, reflecting the present environmental status and the projected scenario for all the environmental components.
29. The EAC also deliberated on the written submissions of the project proponent and found it satisfactory.

Recommendations of the Committee:

32.2.17: In view of the foregoing and after the detailed deliberations, the Committee **recommended** the instant proposal for grant of Environment Clearance **as per MoEF&CC OM dated 24/12/2010 and subject to uploading of written submissions on PARIVESH Portal** under the provisions of EIA Notification, 2006 subject to the stipulation of following

specific conditions and general conditions based on project specific requirements:

A. Specific Conditions:

1. Compensation to the land losers in accordance with the prevailing Norm of State & LARR Act 2013. Compliance status in this regard shall be submitted to the concerned Regional Office of MoEF&CC along with the six-monthly compliance report.
2. Alternate grazing land for 75.20 Ha shall be provided for cattle, as per the rules of State Government in this regard. No mining activity shall be carried out on the Grazing land of 75.20 ha before the alternate grazing land is provided by the concerned State authority.
3. Project proponent shall carry out plantation on both the sides of the entire Lignite transportation route. Other mitigation measures, such as procurement of adequate nos of mobile fog canon, mist sprinklers etc. for dust suppression shall be undertaken. Lignite transportation by road shall be done only through tarpaulin covered trucks.
4. Covered Belt Conveyor and Silo from the ML area to the proposed extended Naliya railway siding shall be implemented by December 2028 as committed.
5. Project Proponent shall install 4 nos of CAAQMS, 2 each in core zone and the buffer zone of the ML area in consultation with the Gujarat State Pollution Control Board.
6. Project proponent shall not divert any water body without obtaining the prior permission from MoEF&CC.
7. Project proponent shall obtain prior permission from the competent authority before diverting the proposed 33 KV HT line.
8. The proposed budget of Rs 7020.15 Lakhs for PH action plan shall be kept in a separate account and audited annually. Project proponent shall implement the action plan to address the issues raised during public hearing within a time frame of 3 years from the date of grant of EC. Apart from this, PP shall strengthen the existing Primary Health Center (PHC) & Community Health Center (CHC) in the study area for better public health. A plan for the same should be submitted within 1 year after receiving EC. Compliance status in this regard shall be submitted along with the six-monthly compliance to the concerned Regional Office of MoEF&CC.
9. Project proponent shall implement the protective measure proposed in Environment Management Plan (EMP) in a time-bound manner. The budget earmarked for the same is Rs. 1762.83 lakhs (Capital) and Rs 156.56 lakhs (recurring) and should be kept in separate accounts and audited annually. The implementation status along with the amount spent with documentary proof shall be submitted to the concerned Regional Office for the activities carried out during the previous year.
10. Proposed greenbelt shall be developed in 49.84 ha which is about 0.017 % of the total project area. A 15 m wide greenbelt, consisting of at least 3 tiers around mine boundary shall be developed as greenbelt and green cover within 3 years after granting the EC as per CPCB/MoEF&CC, New Delhi, guidelines. Local and native species shall be planted with a density of 2500 trees per hectare. Total no. of 2,784,850 saplings will be planted and nurtured in 1113.94 hectares in 39 years. On undisturbed land planting should be done within 5 years after receiving EC.
11. A green belt shall be developed all along the nearby village boundaries to reduce impact of air pollution over nearby villages. Plantation must be done on both the sides

of coal transportation road and fog canons must be installed for dust suppression before the commencement of the mining operation. In addition to this, PP shall provide 50,000 plant saplings with 4 feet tall fruit bearing plants to farmers for plantation in barren and agriculture lands in the study area every year till the life of the mine with incentive upto 5 years to improve the green cover in and around the mine lease area.

12. Garland drains of adequate size shall be provided at the toe of the benches to arrest discharge and runoff with silt and sediments surging into areas adjoining the periphery of Overburden dump, which will be regularly cleaned before the onset of monsoon every year.
13. 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.
14. 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 RO within 3 months. A logbook to be maintained by PP on “Public Grievance Redressal and Monitoring System.
15. The project proponent shall take all precautionary measures during mining operations for the conservation and protection of endangered fauna, if any, spotted in the study area. Wildlife conservation plan shall be approved by the competent authority and the same shall be implemented. PP shall deposit the approved amount as proposed for wildlife conservation plan to the Govt. of Odisha, Forest & Environment Dept. and further consult with State Biodiversity Authority for its CSR activity.
16. 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.
17. 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.
18. 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.
19. PP shall ensure that all types of plastic waste generated from the plant shall be stored separately in isolated area and disposed of strictly adhering to the Plastic Waste Management Rules 2016 (as amended). In pursuant to the Ministry’s OM dated 18/07/2022. PP shall also create awareness among the people working in the project area as well as in its surrounding area on the ban on Single Use Plastic (SUP) in order to ensure compliance of Ministry’s Notification published by the Ministry on 12/08/2021. A report along with photograph on the measures taken shall also be included in the six-monthly compliance report being submitted by PP.

20. Wildlife conservation plan as approved by the competent authority shall be implemented.
21. Project proponent is advised to implement the 'Ek Ped Maa Ke Naam' Campaign which was launched on 5th June 2024 on the occasion of the World Environment Day to increase the forest cover across the Country. This plantation drive is other than Green belt development. The action in this regard shall be submitted concerned RO in six monthly report.

B. Standard Conditions:

1. Statutory Conditions:

- i. The Environmental clearance shall be subject to orders of Hon'ble Supreme Court of India, Hon'ble High Courts, NGT and any other Court of Law, from time to time, and as applicable to the project.
- ii. The project proponent shall obtain clearance from the National Board for Wildlife, if applicable.
- iii. Solid/hazardous waste generated in the mines needs to be addressed in accordance to the Solid Waste Management Rules, 2016/Hazardous & Other Waste Management Rules, 2016.
- iv. The maximum production 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 Lignite (3.0 MTPA) mining.
- ii. Adequate ambient air quality monitoring stations shall be established in the core zone as well as in the buffer zone for monitoring of pollutants, namely particulates, SO₂ and NO_x. Location of the stations shall be decided based on the meteorological data, topographical features and environmentally and ecologically sensitive receptors in consultation with the State Pollution Control Board.
- iii. The Ambient Air Quality monitoring in the core zone shall be carried out to ensure the Coal Industry Standards notified vide GSR 742 (E) dated 25th September, 2000 and as amended from time to time by the Central Pollution Control Board. Data on ambient air quality and heavy metals such as Hg, As, Ni, Cd, Cr and other monitoring data shall be regularly reported to the Ministry/Regional Office and to the CPCB/SPCB.
- iv. Effective control measures such as regular water sprinkling/rain gun/ Fog cannon /mist sprinkling etc., shall be carried out in critical areas prone to air pollution with higher level of particulate matter all through the coal transport roads, loading/unloading and transfer points. Fugitive dust emissions from all sources shall be controlled regularly. It shall be ensured that the ambient air quality parameters conform to the norms prescribed by the Central/State Pollution Control Board.
- v. Major approach roads shall be black topped and properly maintained.
- vi. Vehicular emissions shall be kept under control and regularly monitored. All the

- vehicles engaged in mining and allied activities shall operate only after obtaining 'PUC' certificate from the authorized pollution testing 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. 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 de-silted 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 reverian /riparian ecosystem conservation and management plan should be prepared and implemented in consultation with the irrigation / water resource department in the state government.
- ix. Industrial effluent and domestic wastewater shall be treated in the Effluent treatment Plant (ETP) and Sewage Treatment Plant (STP). After treatment, treated water shall be reused for plantation.

4. Noise and Vibration Monitoring and Prevention

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

5. Mining Plan

- i. Project proponent shall obtain star rating as per the guidelines of Ministry of Coal.
- ii. Mining shall be carried out under strict adherence to provisions of the Mines Act 1952 and subordinate legislations made there-under as applicable.
- iii. No change in mining method, calendar programme and scope of work shall be made without obtaining prior approval of the Ministry of Environment, Forest and Climate Change (MoEF&CC).
- iv. Mining shall be carried out as per the approved mining plan (including Mine Closure Plan) abiding by mining laws related to coal mining and the relevant circulars issued by Directorate General Mines Safety (DGMS).
- v. Environmental conditions of mining place shall be rendered ergonomic and air breathable with adequate illumination in conformance with DGMS standards.
- vi. No mining shall be carried out in case of occurrence of any forest land without obtaining Forest 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 approved by the Board of Directors. The environmental policy should prescribe for standard operating procedures to have proper checks and balances and to bring into focus any infringements/deviation/violation of the environmental/forest/wildlife norms/conditions. The company shall have defined system of reporting infringements/deviation/violation of the environmental/forest/wildlife norms/conditions and/or shareholders/stake holders
- ii. A separate Environmental Cell both at the project and company head quarter level, with qualified personnel shall be set up under the control of senior Executive, who will directly report to the head of the organization.
- iii. Action plan for implementing EMP and environmental conditions along with responsibility matrix of the company shall be prepared and shall be duly approved by competent authority. The year wise funds earmarked for environmental protection measures shall be kept in separate account and not to be diverted for any other purpose. Year wise progress of implementation of action plan shall be reported to the Ministry/Regional Office along with the Six-Monthly Compliance Report.

9. Miscellaneous:

- i. The project proponent shall make public the environmental clearance granted for their project along with the environmental conditions and safeguards at their cost by prominently advertising it at least in two local newspapers of the District or State, of which one shall be in the vernacular language within seven days and in addition this shall also be displayed in the project proponent's website permanently.
- ii. The copies of the environmental clearance shall be submitted by the project proponents to the Heads of local bodies, Panchayats and Municipal Bodies in addition to the relevant offices of the Government who in turn has to display the same for 30 days from the date of receipt.
- iii. The project proponent shall upload the status of compliance of the stipulated environmental clearance conditions, including results of monitored data on their website and update the same on half-yearly basis.
- iv. The project proponent shall submit six-monthly reports on the status of the compliance of the stipulated environmental conditions on the website of the Ministry of Environment, Forest and Climate Change at environment clearance portal.

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

Agenda No. 32.3:

32.3: Tadicherla-1 Coal Block Opencast Mine (having capacity 2.5 MTPA with increase in ML area from 906 Ha to 930 Ha) **by M/s Telangana Power Generation Corporation Limited** located at Villages: Kapuram, Tadicherla; **District: Jayashankar Bhupalpally; State: Telangana - Amendment in Environment Clearance – reg.**

[Online Proposal No. IA/TG/CMIN/540180/2025; Consultant: Min Mec Consultancy Pvt. Ltd. - NABET/ EIA/25-28/RA 0399 – valid up to 30.03.2028]

32.3.1: The instant proposal is for seeking amendment in Environment Clearance granted to M/s Telangana State Power Generation Corporation Limited vide letter no. J-11015/858/2007-IA-II(M), dated 25.02.2016, later transferred to M/s Telangana Power Generation Corporation Limited vide letter dated 26.07.2025, for Tadicherla-1 Coal Block

Open cast Mine (having capacity 2.5 MTPA within the ML area of 906 Ha), located at Villages: Kapuram, Tadicherla; District: Jayashankar; State: Telangana.

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

S. No.	Details of Letter No.	EC/ Expansion EC/ Amendment in EC/ Validity extension/ Transfer of EC	Capacity (MTPA)	Area (ha)	Date of issuance	Status of implementation
1	J-11015/858/2007-IA-II(M)	Environment Clearance	2.5	906	25.02.2016	Implemented
2	J-11015/858/2007-IA-II(M)	EC transfer	2.5	906	26.07.2025	Implemented

W.r.t the previous approvals, PP submitted the actual production details of the concerned mine and submitted that the mine became operational from 2017 onwards. CTO renewal has been obtained from the SPCB vide letter no TSPCB/CFO/13/2023-TECHNICAL- TSPCB dated 06.04.2023 and is valid up to 31.12.2027. Details of the same are as follows:

Year	Actual coal Production in MTPA	Planned Coal Production in MTPA as per Environmental Clearance	Excess Production
2017-18	0.000	2.5	0
2018-19	0.756	2.5	0
2019-20	1.655	2.5	0
2020-21	2.020	2.5	0
2021-22	2.210	2.5	0
2022-23	2.500	2.5	0
2023-24	2.500	2.5	0
2024-25	2.500	2.5	0

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

Para no., Specific/ General Condition No.	Details of Conditions as per EC	Amendment Sought	Justification
EC letter dt. 25.02.2016- Title – Company Name	Tadicherla-1 Coal Block, Godavari Valley Coal Field Opencast coal mine of 2.5 MTPA in ML area of 906 ha of M/s Telangana State Power Generation Corporation Limited , located in Village Tadicherla District Karimnagar (Telangana) - Environmental Clearance reg.	Tadicherla-1 Coal Block, Godavari Valley Coal Field Opencast coal mine of 2.5 MTPA in ML area of 906 ha of M/s Telangana Power Generation Corporation Limited , located in Village Tadicherla District Karimnagar (Telangana) - Environmental Clearance reg.	Name change of the company has been done Registrar of Companies certificate dated 26.06.2024. Accordingly, EC transfer for the same has been accorded in the name of M/s Telangana Power Generation Corporation Limited .
EC letter dt. 25.02.2016- Subject & Para 2 & 6 – change in ML area	.... in ML area of 906 ha of M/s Telangana State Power Generation Corporation Limited, located in Village Tadicherla, District Karimnagar (Telangana).....	.... in ML area of 930 ha of M/s Telangana Power Generation Corporation Limited, located in Village Tadicherla, District Jayashankar Bhupalpally (Telangana).....	MOC's Standing Committee advised for inclusion of land area for mining and its allied activities of 24 ha (which is outside the mining lease as per approved Mining Plan) for inclusion into the mining lease. This is also in compliance with Hon'ble Supreme Court in the matter of WP(C) No. 435 of 2012 in Goa Foundation Vs Union of

Para no., Specific/ General Condition No.	Details of Conditions as per EC	Amendment Sought	Justification
			<p>India & Ors vide order dated 21st April, 2014.</p> <p>Name of district is changed due to State Bifurcation & reorganization of Districts.</p> <p><u>It is pertinent to mention that the ToR accorded vide letter dated 16.11.2007, was for the lease area of 930 Ha. Similarly, public hearing was held for 930 Ha only and EC application was also submitted for the lease area of 930 Ha. However, the EC was granted only for the ML area of 906 Ha which involved mine related activities. Remaining 24 Ha was the private land required for facilities, hence the same was not considered in the ML area at that time. However, now the lease deed for the entire 930 Ha has been executed by the Government of Telangana vide letter dated 14.07.2025.</u></p>
EC letter dt. 25.02.2016- Para 3.iii	The total geological Reserve is 47.9355 MT. The mineable reserve is 45.36 MT, extractable reserve is 45.36 MT. The per cent of extraction would be 94.63%.	The total geological Reserve is 50.0845 MT. The mineable reserve is 47.509MT, extractable reserve is 47.509MT. The percent of extraction would be 94.85%.	Due to addition of reserve of thin seams IA1, IA2, III & IIIB as per the Mine Closure Plan approved on 13.09.2017, the said changes are envisaged.
EC letter dt. 25.02.2016- Para 3.iv	The coal grades are A to G having stripping ratio of 13.66, the average Gradients 1 in 3.7 to 5.8 towards north to NNE and 1 in 4 to 5 towards ENE- and NE. There will be total ten seams with thickness ranging from 0.05 to 67.90 meters.	The coal grades are A to G having stripping ratio of 13.04, the average Gradient is 1 in 3.7 to 5.8 towards north to NNE and 1 in 4 to 5 towards ENE- and NE. There will be total eleven seams with thickness ranging from 0.20 to 5.55 meters.	Due to addition of reserve of thin seams IA1, IA2, III & IIIB as per the Mine Closure Plan approved on 13.09.2017, the said changes are envisaged.
EC letter dt. 25.02.2016- Para 3.viii	There are two external OB Dumps covering an area of 137.61 Ha. (D1= 77.70 Ha & D2 = 59.91 Ha). The height for both the dumps would be 100 m with a total quantity of 71.96 mm ³ . The year of back filling would be 3 years. There is one internal dump covering an area of 607.80 ha having a height upto ground level with the quantity of	There are three external OB Dumps covering an area of 290.61 Ha. (D1= 77.70 Ha, D2 = 59.91 Ha & D3=153). The height for the three dumps would be 100 m with a total quantity of 71.96 mm ³ . The year of back filling would be 3 years. One internal dump covering an area of 656.86 ha having a height up to 30 m above the ground level	<p>Mining & dumping parameters modified in Mine Closure Plan approved on 13.09.2017 and during execution.</p> <p>Dumping strategy in the internal dumping area based on the approved Mine Closure Plan dated 13.09.2017. Final void will be filled by Re-handling of the Dump 1 & 2</p>

Para no., Specific/ General Condition No.	Details of Conditions as per EC	Amendment Sought	Justification
	543.599 mm ³ . The final mine voids will have an area of 49.06 ha. and depth 320 m bgl, which will be reduced by using TPP ash mixed with OB.	with the quantity of 619.61 mm³ . There will be no final mine void since entire quarry shall be backfilled with crown dump of 30 m.	during 22 – 25th year upto ground level
EC letter dt. 25.02.2016- Para 3.x	The life of mine is 21 years . Maximum depth of the mine is 320 m . At the end of mine life an area of 607.80 ha of the quarry would be backfilled.	The life of mine is 22 years . Maximum depth of the mine is 310 m . At the end of mine life an area of 656.86 ha of the quarry would be backfilled.	Life increased due to addition of reserve of thin seams IA1, IA2, II1 & IIIB. The details are as per Mine Closure Plan approved on 13.09.2017.
EC letter dt. 25.02.2016- Para 3.x	Transportation: The transportation of coal from mine to power station shall be by covered conveyor belt to avoid spillage. Transportation of coal from face to CHP will be by dumpers. There will be no siding. Coal will be used for captive Kakatiya Thermal Power Project (TPS) 1 x 500 MW, located at Chelpuru, about 15 km away from the Coal Block.	Transportation: The transportation of coal from mine to power station shall be by covered conveyor belt to avoid spillage. Transportation of coal from face to CHP will be by dumpers. There will be no siding. Coal will be used for captive Kakatiya Thermal Power Project (TPS) 1 x 600 MW, located at Chelpur, about 17.2 km away from the Coal Block. Hence, the coal transportation from mine to power plant is carried out via road till completion of construction of conveyor.	The transportation of coal from mine to the power plant was required to be done through conveyor as per Para 3.x of the EC dated 25.02.2016 for mines. However, the work of establishing of conveyor could not progress due to obstacles in land acquisition. Hence, the coal transportation from mine to power plant is carried out via road.
EC letter dt. 25.02.2016- Para 3.xviii	Total afforestation plan shall be implemented covering an area of 769.81 hectare at the end of mining where reclaimed external OB dump 137.61 hectare and internal OB Dump 607.80 hectare . Green belt over an area of 12.40 hectare. Density of tree plantation 2500 trees/ ha of plants.	Total afforestation plan shall be implemented covering an area of 818.87 hectare at the end of mining where reclaimed external OB dump 137.61 hectare and internal OB Dump 656.86 hectare . Green belt over an area of 12.40 hectare. Density of tree plantation 2500 trees/ ha of plants.	The details are as per approved Mine Closure Plan dated: 13.09.2017.
EC letter dt. 25.02.2016- A. Specific Conditions xxii	Final mine void depth will not be more than 40 meters. The wide area will be converted into water body. The remaining area will be back filled up to the ground level and covered with about a meter thick top soil and put to use.	There is one internal dump covering an area of 656.86 ha having 30 m height above ground level with the quantity of 619.61mm ³ .	There will be no final mine void since entire quarry shall be backfilled with crown dump of 30 m. The maximum height of external OB dumps will not exceed 100 m.
EC letter dt. 25.02.2016- A. Specific Conditions xxxv	OB shall be stacked at two earmarked external OB dumpsite(s) only. The ultimate slope of the dump shall not exceed 28°. Monitoring and management	OB shall be stacked at three earmarked external OB dump site(s) only. The ultimate slope of the dump shall not exceed 28°. Monitoring and management of existing	The details are as per approved Mine Closure Plan dated: 13.09.2017.

Para no., Specific/ General Condition No.	Details of Conditions as per EC	Amendment Sought	Justification
	of existing reclaimed dumpsites shall continue until the vegetation becomes self-sustaining. Compliance status shall be submitted to the Ministry of Environment, Forest & Climate Change and its concerned Regional Office on yearly basis.	reclaimed dumpsites shall continue until the vegetation becomes self-sustaining. Compliance status shall be submitted to the Ministry of Environment, Forest & Climate Change and its concerned Regional Office on yearly basis.	
EC letter dt. 25.02.2016- A. Specific Conditions xlii	A Progressive afforestation plan shall be implemented covering an area of 769.81 Ha at the end of mining, which includes reclaimed External OB dump area (137.61 Ha), Internal OB dump area (607.80 Ha) and Green belt (12.40 Ha) and in township located outside the lease by planting native species in consultation with the local DFO/Agriculture Department. The density of the trees shall be around 2500 plants per ha. Massive plantation shall be carried out in open spaces in and around the mine and a 3-tier avenue plantation along the main approach roads to the mine.	A Progressive afforestation plan shall be implemented covering an area of 818.87 Ha at the end of mining, which includes reclaimed External OB dump area (137.61 Ha), Internal OB dump area (656.86 Ha) and Green belt (12.40 Ha) and in township located outside the lease by planting native species in consultation with the local DFO/Agriculture Department. The density of the trees shall be around 2500 plants per ha. Massive plantation shall be carried out in open spaces in and around the mine and a 3-tier avenue plantation along the main approach roads to the mine.	The details are as per approved Mine Closure Plan dated: 13.09.2017.
EC letter dt. 25.02.2016- A. Specific Conditions xliii	An estimated total 615.559 Mm³ of OB will be generated during the entire life of the mine. There are two external OB dumps covering an area of 137.61 ha. (D1=77.70 ha & D2=59.91 ha). Both the dumps will have 71.96 mm³ of OB. The year of back filling would be 3 years. There is one internal dump covering an area of 607.80 ha having a height upto ground level with the quantity of 543.599 mm³ . The final mine voids will have an area of 49.06 ha . And depth 320 m bgl , which will be reduced by using TPP ash mixed with OB. The maximum height of external OB dumps for hard OB will not exceed 90 m . And that for soft OB shall not exceed 60	An estimated total 619.61 Mm³ of OB will be generated during the entire life of the mine. There are three external OB dumps covering an area of 290.61 ha. (D1=77.70 ha, D2=59.91 Ha & D3=153 ha). All the dumps will have 167.81 mm³ of OB. The year of back filling would be 3 years. There is one internal dump covering an area of 656.86 ha having 30m height above ground level with the quantity of 619.61 mm³ . There will be no final mine void since entire quarry shall be backfilled with crown dump of 30 m. The maximum height of external OB dumps for hard OB will not exceed 100 m . The maximum slope of the dump shall not exceed 28°	As per as the MCP approved on 13.09.2017, Dump 3 will be rehandled & dump over internal dump up to a height of 30m above GL. End of mine operation D1, D2 & D3 are rehandled and dumped into final voids up to a 30m above GL . No voids left in the mine.

Para no., Specific/ General Condition No.	Details of Conditions as per EC	Amendment Sought	Justification
	m. The maximum slope of the dump shall not exceed 28° Monitoring and management of reclaimed dump sites shall continue till the vegetation becomes self-sustaining and compliance status shall be submitted to the MOEFCC and its regional office on yearly basis.	Monitoring and management of reclaimed dump sites shall continue till the vegetation becomes self-sustaining and compliance status shall be submitted to the MOEFCC and its regional office on yearly basis.	
EC letter dt. 25.02.2016- A. Specific Conditions xlviii	Of the total quarry area of 656.86 Ha, the backfilled quarry area of 607.80 Ha shall be reclaimed with plantation and a void of 49.06 Ha at a depth of 60 m is proposed to be converted into a water body shall be gently sloped and the upper benches shall be terraced and stabilized with plantation/ afforestation by planting native plant species in consultation with the local DFO/Agriculture Department. The density of the trees shall be around 2500 plants per ha.	Of the total quarry area of 656.86 Ha, the backfilled quarry area of 656.86 Ha shall be reclaimed with plantation.	The details are as per approved Mine Closure Plan (MCP), dated: 13.09.2017. Dumping strategy in the internal dumping area based on the approved Mine Closure Plan dated 13.09.2017. Final void will be filled by Re-handling of the Dump 1 & 2 during 22 – 25th year up to ground level

32.3.4: Details of the Mine Plan and Mine Closure Plan approved as on 13.09.2017:

1. Comparison of the old and new mine plan and mine closure plan:

S. No.	Particulars	As per existing EC	As per approved Mining Closure Plan	Remarks
1	Project capacity	2.5 MTPA	2.5 MTPA	No change
2	ML Area	906 ha (24 Ha outside ML), total project area 930 ha	930 ha	Total project area for which EC granted is now ML area
3	Mine Life (As on 01.04.2025)	21	22	Increase by 1 year
4	Land Use Pattern Excavation area (Ha)	656.86	656.86	No change (refer Table 20 of AMCP 2017)
5	External Dump (Ha)	137.61	137.61	No change (refer Table 20 of AMCP 2017)
6	Safety Zone	Not mentioned separately	12.4	(refer Table 20 of AMCP 2017)
7	Infrastructure Area (Ha)	15.0	15.0	No change (refer Table 20 of AMCP 2017)
8	Max OB generation/ annum	33.4 Mcum/ annum (peak) (not mentioned in	33.40 Mcum/ annum (peak)	No Change (Table 14 of AMCP 2017)

S. No.	Particulars	As per existing EC	As per approved Mining Closure Plan	Remarks
		EC, refer Table 2.8 of EIA 2009)		
9	Stripping ratio (m ³ / Tonne)	13.66	13.04	SR decreased by 0.62 due to increase in coal reserves (Refer Table 14 of AMCP 2017)
10	Balance Extractable Reserves as on 01.04.2025	31.219	31.369	2.15 MT increase in Reserve
11	Mining Technology	Shovel – Dumper Combination	Shovel – Dumper Combination	No Change

2. Changes proposed in the EC due to new mine plan and mine closure plan:

Details of EC dated 25.02.2016	Details as per EC	Amendment Sought
EC letter dt. 25.02.2016- Company Name	Telangana State Power Generation Corporation Limited	Telangana Power Generation Corporation Limited
EC letter dt. 25.02.2016- Subject & Para 2 & 6	.... in ML area of 906 ha of M/s Telangana State Power Generation Corporation Limited, located in Village Tadicherla, District Karimnagar (Telangana).....	.... in ML area of 930 ha of M/s Telangana Power Generation Corporation Limited, located in Village Tadicherla, District Jayashankar Bhupalpally (Telangana).....
EC letter dt. 25.02.2016- Para 3.iii	The total geological Reserve is 47.9355 MT. The mineable reserve is 45.36 MT, extractable reserve is 45.36 MT. The per cent of extraction would be 94.63%.	The total geological Reserve is 50.0845MT. The mineable reserve is 47.509MT, extractable reserve is 47.509MT. The percent of extraction would be 94.85%.
EC letter dt. 25.02.2016- Para 3.iv	The coal grades are A to G having stripping ratio of 13.66, the average Gradients 1 in 3.7 to 5.8 towards north to NNE and 1 in 4 to 5 towards ENE- and NE. There will be total ten seams with thickness ranging from 0.05 to 67.90 meters.	The coal grades are A to G having stripping ratio of 13.04, the average Gradient is 1 in 3.7 to 5.8 towards north to NNE and 1 in 4 to 5 towards ENE- and NE. There will be total ten seams with thickness ranging from 0.20 to 5.55meter.
EC letter dt. 25.02.2016- Para 3.viii	... two external OB Dumps covering an area of 137.61 Ha. (D1= 77.70 Ha & D2 = 59.91 Ha).... one internal dump covering an area of 607.80 ha having a height upto ground level with the quantity of 543.599 mm ³.	... three external OB Dumps Three external OB Dumps covering an area of 290.61 Ha. (D1= 77.70 Ha, D2 = 59.91 Ha & D3=153).... one internal dump covering an area of 656.86 ha having a height upto 30m above the ground level with the quantity of 619.61 mm ³
EC letter dt. 25.02.2016- Para 3.viii	The final mine voids will have an area of 49.06 ha. and depth 320 m bgl, which will be reduced by using TPP ash mixed with OB.	There will be no final mine void since entire quarry shall be backfilled with crown dump of 30 m.
EC letter dt. 25.02.2016- Para 3.x	The life of mine is 21 years. Maximum depth of the mine is 320 m. At the end of mine life an area of 607.80 ha of the quarry would be backfilled.	The life of mine is 22 years. Maximum depth of the mine is 310 m. At the end of mine life an area of 656.86 ha of the quarry would be backfilled.

Details of EC dated 25.02.2016	Details as per EC	Amendment Sought
EC letter dt. 25.02.2016- Para 3.x	Transportation: The transportation of coal from mine to power station shall be by covered conveyor belt to avoid spillage. Transportation of coal will from face to CHP will be by dumpers. There will be no siding. Coal will be used for captive Kakatiya Thermal Power Project (TPS) 1 x 500 MW, located at Chelpuru, about 15 km away from the Coal Block.	Transportation: The transportation of coal from mine to power station shall be by covered conveyor belt to avoid spillage. Transportation of coal from face to CHP will be by dumpers. There will be no siding. Coal will be used for captive Kakatiya Thermal Power Project (TPS) 1 x 600 MW, located at Chelpur, about 17.2 km away from the Coal Block. Hence, the coal transportation from mine to power plant is carried out via road till completion of construction of conveyor.
EC letter dt. 25.02.2016- Para 3.xviii	Total afforestation plan shall be implemented covering an area of 769.81 hectare at the end of mining where reclaimed external OB dump 137.61 hectare and internal OB Dump 607.80 hectare. Green belt over an area of 12.40 hectare.	Total afforestation plan shall be implemented covering an area of 818.87 hectare at the end of mining where reclaimed external OB dump 137.61 hectare and internal OB Dump 656.86 hectare. Green belt over an area of 12.40 hectare.
EC letter dt. 25.02.2016- A. Specific Conditions xxii	Final mine void depth will not be more than 40 meters. The void area will be converted into water body. The remaining area will be back filled up to the ground level.....	There is one internal dump covering an area of 656.86 ha having 30m height above ground level with the quantity of 619.61 mm ³
EC letter dt. 25.02.2016- A. Specific Conditions xxxv	OB shall be stacked at two earmarked external OB dump site(s) only.....	OB shall be stacked at three earmarked external OB dump site(s) only.....
EC letter dt. 25.02.2016- A. Specific Conditions xlii	A Progressive afforestation plan shall be implemented covering an area of 769.81 Ha at the end of mining, which includes reclaimed External OB dump area (137.61 Ha), Internal OB dump area (607.80 Ha) and Green belt (12.40 Ha).....	A Progressive afforestation plan shall be implemented covering an area of 818.87 Ha at the end of mining, which includes reclaimed External OB dump area (137.61 Ha), Internal OB dump area (656.86 Ha) and Green belt (12.40 Ha)
EC letter dt. 25.02.2016- A. Specific Conditions xliii	.. total 615.559 Mm ³ of OB... There are two external OB Dumps covering an area of 137.61 Ha. (D1= 77.70 Ha & D2 = 59.91 Ha). Both the dumps will have 71.96 mm ³ of OB's. ...	.... total 619.61 Mm ³ of OB ....There are three external OB dumps covering an area of 290.61 ha. (D1—77.70 ha, D-2- 59.91 Ha & D3=153 ha) All the dumps will have 167.81 mm ³ of OB....
EC letter dt. 25.02.2016- A. Specific Conditions xliii	.... there is one internal dump covering an area of 607.80 ha having an height above ground level with the quantity of 543.599 mm ³	There is one internal dump covering an area of 656.86 ha having 30m height above ground level with the quantity of 619.61 mm ³
EC letter dt. 25.02.2016- A. Specific Conditions xliii	...The final mine voids will have an area of 49.06 ha. and depth 320 m bgl, which will be reduced by using TPP ash mixed with OB. The maximum height of external OB dumps for hard OB will not exceed 90 m.	...There will be no final mine void since entire quarry shall be backfilled with crown dump of 30 m. The maximum height of external OB dumps for hard OB will not exceed 100 m.
EC letter dt. 25.02.2016- A. Specific Conditions xlviii	Of the total quarry area of 656.86 Ha, the backfilled quarry area of 607.80 Ha shall be reclaimed with plantation and	Of the total quarry area of --656.86 Ha, the backfilled quarry area of 656.86 Ha shall be reclaimed with plantation and
EC letter dt. 25.02.2016- A. Specific Conditions xlviii	..... a void of 49.06 Ha at a depth of 60 m is proposed to be converted into a water body shall be gently sloped and the upper benches shall be terraced and stabilized	There is no void area. There is one internal dump covering an area of 656.86 ha having 30m height above ground level with the quantity of 619.61 mm ³

Details of EC dated 25.02.2016	Details as per EC	Amendment Sought
	with plantation/afforestation...	

32.3.5: Traffic Assessment Study Report:

Current Coal transportation arrangement:

F.Y.	Mode wise dispatch (MT)			
	Rail	Belt Pipe Conveyor (BPC)	Road	Total
2023-24	0	0	2.5	2.5
2024-25	0	0	2.5	2.5

Entire dispatch is by road at present.

The proposed coal transportation is as follows:

S. No.	Mode	Quantity (MT)
1	Rail	0 MT
2	Belt Pipe Conveyor (BPC)	0 MT
3	Road	2.5 MT
Total		2.50 MT

The coal transportation was proposed through conveyor from the mine to the Kakatiya Thermal Power Station as per EC. However, the conveyor route land acquisition could not be completed and the coal is being transported via road and is anticipated to be continued for another 5 years. Transportation of coal from mine to Kakatiya Thermal Power Project located will be via dumpers/ trucks/ tippers over a distance of around 62 km by road till the establishment of conveyor.

Traffic Assessment Study: Tadicherla-1 Coal Block Opencast Mine project is a working mine of Telangana Power Generation Corporation Limited. The project was granted EC vide J-11015/858/2007-IA-II(M) dated 25.02.2016. As per EC specific condition Para 3.x “The transportation of coal from mine to power station shall be by covered conveyor belt to avoid spillage. Transportation of coal will from face to CHP will be by dumpers. There will be no siding. Coal will be used for captive Kakatiya Thermal Power Project (TPS) 1 x 500 MW, located at Chelpuru, about 15 km away from the Coal Block.”

However, present dispatch arrangement is limited to road only as follows:

Mode	Quantity (MTPA)
Road	2.5
Total	2.5

The coal transportation was proposed through conveyor from the mine to the Kakatiya Thermal Power Station as per EC. However, the conveyor route land acquisition could not be completed and the coal is being transported via road and is anticipated to be continued for another 5 years. Transportation of coal from mine to Kakatiya Thermal Power Project located will be via dumpers/ trucks/ tippers over a distance of around 62 km by road till the establishment of conveyor.

Coal dispatch arrangement for Kakatiya Thermal Power Project w.r.t. road mode is through the route comprises of haul road within mine lease boundary (2.854 km), road from mine lease boundary to Tadicherla village (1.575 km), State Highway (14.421 km), National Highway 353C (30.296 km) and other/ village roads (12.866 km).

The objective of the traffic impact assessment is to evaluate the impacts due to transportation of coal by road to the nearby consumers. One-month baseline data from 16.02.2025 to 15.03.2025 at five locations has been recorded.

The vehicles passing through the road (in both ways) were counted at the selected locations for 24 hrs during the study period. Category-wise vehicle counting has been done continuously and recorded in the traffic volume count on hourly basis under respective categories. The vehicle count was recorded in weekdays and weekends for stimulating the real scenarios. The vehicle count was conducted at five locations considering the local traffic movement at (1) Mallaram village (aerially 4.01 km, in NE direction from ML), (2) Koyyur (aerially 12.7 km, in NE direction from ML), (3) Kataram (aerially 22.2 km, in NE direction from ML), (4) Bhupalpally (aerially 14.4 km, in SE direction from ML) and (5) Chelpur Bhupalpally (aerially 16.6 km, in SE direction from ML).

The traffic volume count included the following vehicles, namely, LMV, buses, trucks, motor cycles and scooters, cycles, animal draw vehicles and others. The number of vehicles per hour were counted and converted into Passenger Car Units (PCUs) using factor given in IRC: 64-1990 for rural areas and IRC: 106-1990 for urban areas. Total length of road in urban area is 2.90 km out of 62.012 km.

During study period the traffic it was found that traffic density along the rural road varies from 3.9% to 76.9% of maximum capacity utilisation. On urban road (through Bhupalpally) the most frequent peak hour is 17:00 – 18:00 and peak PCU/hr is 1477, which utilises 19.1%-34.5% of the maximum capacity of roads passing through urban area. The current coal dispatch by road is reflected in the rural as well as urban sections.

Air Quality Monitoring Data:

Parameters	Core Zone	Buffer Zone	Traffic study (along road)
PM _{2.5}	30.0 to 70.0 microg/m ³	15.0 to 28.0 microg/m ³	33.5 to 44.0 microg/m ³
PM ₁₀	61.0 to 135.0 microg/m ³	42.0 to 55.0 microg/m ³	63.1 to 82.2 microg/m ³
SO ₂	11.4 to 17.5 microg/m ³	7.4 to 9.5 microg/m ³	9.6 to 24.0 microg/m ³
NO _x	15.0 to 21.0 microg/m ³	12.2 to 17.5 microg/m ³	14.3 to 30.1 microg/m ³

Ambient Noise Quality:

Time	Industrial Zone	Residential Zone	Traffic study (along road)
Day Time	57 to 67 dB(A)	50 to 59 dB(A)	52.6 to 62.19 dB(A)
Night Time	49 to 60 dB(A)	39 to 45 dB(A)	43.34 to 56.12 dB(A)

Details of existing control measures:

- Approx. 2,20,600 nos. of plants were planted in the years 8 in 92.96 Ha within the mine lease area. Also 8000 no. of plants were planted along the transport road from CHP premises to end of the mine premises, along the road from manway to embankment.
- Currently all the trucks / tippers involved / deployed / used for transportation of coal are covered with tarpaulin & stamped.
- Only Trucks/Tippers with valid PUC certification & fitness certificate and using unadulterated diesel are allowed to ply.
- Continuous water sprinkling is being taken throughout the road for minimising the air pollution.

- 11 nos. water tankers are deployed which cover a length of 49 kms- 26 km within the quarry limits, 11 km public road and 12 km coal transport road. Around 14 trips times per day in summer and 10 times a days in winter on coal transport road of 12 km.
- 66 nos. of water mist sprays are installed in CHP at different points such as coal unloading points, crushers, at belt conveyor etc
- No honking (in route for movement of empty trucks using public roads) along the settlements stretch. Boards have been installed at 3 locations, 2 were located at settlements of contract workers & employee and 1 at the settlements of supervisors.
- Planned preventive maintenance for all tippers/truck as per manufacturers schedule.
- Awareness program, safety talks, pep talks for the Tipper drivers & local people is in practice. These are held atleast once in month. Sensitising the drivers about prevention of road kill and handling of wildlife encounters while driving through forest areas.
- Speed bumps near settlements are installed at settlements of workers and settlements of supervisor in order to ensure slow driving.
- Displaying of Hoardings on safety issues & wildlife protection along transport route. They are installed at multiple locations along & throughout the transport roads at main gate, CHP area & along the haul roads in quarry area.
- All vehicle drivers involved in road transportation of coal to have contact number of crane operators for emergency. Drivers are provided with adequate first aid kits and are also trained in first aid in case of emergency
- Provision of First Aid Kit to all tippers and first aid training to drivers.
- 24 x 7 Ambulance & Crane facility is available.
- Traffic marshals employed from village population to moderate traffic at the villages along the routes at Tadicherla & Mallaram
- Trucks plying are following a “no horn, low speed” protocol while passing through inhabited stretches.
- Facilities for rest/ stay/ hygiene/ sanitation for drivers provided at the mine site, parking for dumpers,

Details of proposed control measures: There is no increase in the transportation, hence, the current measures will be continued.

32.3.6: Details of Court Cases: 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.

32.3.7: Written submissions: During the meeting PP submitted the following details:

1. Pre-mining land use to be revised as per the ML in the environmental clearance dated 25.02.2016.

The pre mining land use has been revised as per the ML area in the environmental clearance dated 25.02.2016 and is given below:

S. No.	Land Use	Within ML Area (ha)	Outside ML Area (ha)	Total
1	Agricultural Land	860.64	23.70	884.34
2	Forest land	38.00		38.00
3	Waste land			0.00

4	Grazing land			0.00
5	Surface Water Bodies	6.55		6.55
6	Settlements	0.03	0.30	0.33
7	Other (Specify)- community land	0.78		0.78
	TOTAL	906.00	24.00	930.00

2. To clarify that the 24 ha of project area which was previously outside lease area but part of Project area, whether it contains any coal reserves and requires to be mined?

The area of 24 ha which was previously outside the lease area but part of the project area is located on the south eastern corner of the project boundary, in a triangular shape.

- It is a non-mineralised area, therefore there is no coal under it
- This area is being used for facility only and shall continue to be used for facility in the future as well
- This area will not be used for coal excavation or dumping
- The increase in coal reserves has no relation to this area. The increase in coal reserves is due to the inclusion of thin coal seams for coal reserve estimation during the preparation of the Mine Closure Plan in 2017, which has been left out prior to that during the preparation of the Mine Plan in 2008. Due to addition of reserve of thin seams IA1, IA2, III1 & IIIB, total geological Reserve increased from 47.9355 to 50.0845 million tonnes. This consequently led to increase in mineable reserve from 45.36 to 47.509 million tonnes. This in turn led to an increase in mine life from 21 years to 22 years.

Observations and deliberation of the Committee:

32.3.8: The EAC noted the following:

1. MoEF&CC originally accorded EC for Tadicherla-1 Coal Block Opencast Mine having capacity 2.5 MTPA within the ML area of 906 Ha, vide letter dated 25.02.2016 in the name of M/s Telangana State Power Generation Corporation Limited and the same was transferred to M/s Telangana Power Generation Corporation Limited vide letter dated 26.07.2025.
2. The above mentioned project is under Operation.
3. The instant project is submitted for seeking amendment in conditions pertaining to transportation of coal through road, revision in the dumping strategy as per the newly approved mine closure plan and related changes and increase in the ML area from 906 Ha to 930 Ha, as per the recommendations of the Ministry of Coal's standing Committee.
4. Committee deliberated on the request for amendment for change in lease area from 906 Ha to 930 Ha. PP submitted that, MOC's Standing Committee advised for inclusion of land area for mining and its allied activities of 24 ha (which is outside the mining lease as per approved Mining Plan) for inclusion into the mining lease. This is also in compliance with Hon'ble Supreme Court in the matter of WP(C) No. 435 of 2012 in Goa Foundation Vs Union of India & Ors vide order dated 21st April, 2014. Committee also observed that the public hearing held on 20.10.2008 was held for entire 930 Ha of the project area (ML area = 906 Ha, outside ML area = 24 Ha). Also,

lease deed for the entire 930 Ha has been executed by the Government of Telangana vide letter dated 14.07.2025.

5. Committee further deliberated on the changes in the certain paras of EC dated 25.02.2016, due to the updated mine plan and mine closure plan, approved as on 13.09.2017. All the changes proposed to be envisaged are discussed in para 32.3.4 (2) mentioned above.
6. During the deliberation the Committee observed that, PP has proposed to rehandle the overburden completely and no void will be left at the end on the mine life. Committee opined that the filling of voids completely is not possible due to certain reasons such as subsidence of OB, quantum of OB generated will be less than that of the total of OB generated and mineral excavated. Committee sought more clarity on the same and opined that the paras and conditions in the EC pertaining to void shall remain unchanged till the time complete clarity in this regard is given. During the deliberation, Committee also observed that a revised mine plan is under preparation. EAC opined that more clarity in this regard shall be given in the upcoming mine plan and accordingly the amendment shall be sought.
7. Another amendment sought by the PP is for seeking extension in timeline for implementation of covered conveyor belt from mine to power station, where the coal is proposed to be transported. The coal transportation was proposed through conveyor from the mine to the Kakatiya Thermal Power Station as per EC. However, the conveyor route land acquisition could not be completed and the coal is being transported via road and is anticipated to be continued for another 5 years. Transportation of coal from mine to Kakatiya Thermal Power Project located will be via dumpers/ trucks/ tippers over a distance of around 62 km by road till the establishment of conveyor.
8. Committee deliberated on the transport assessment study report submitted by the PP and observed that the coal being transported by road is 2.5 MTPA. Coal dispatch arrangement for Kakatiya Thermal Power Project w.r.t. road mode is through the route comprises of haul road within mine lease boundary (2.854 km), road from mine lease boundary to Tadicherla village (1.575 km), State Highway (14.421 km), National Highway 353C (30.296 km) and other/ village roads (12.866 km). Committee observed that the AAQ and noise quality parameters along the road through which the coal is being transported are within the permissible limits. Committee also deliberated on the pollution control measures and opined that carry out thick plantation on both the sides of the coal transportation route in consultation with the highway authorities. Committee further opined that, PP shall carryout regular maintenance of the potholes on roads, repair and maintenance of roads, scrapping of material fallen on roads, and removal of scraps from mining areas. Along with this, PP shall make sure that all the pollution control equipments are in good working condition and maintenance of those equipment is regularly carried out.

Also, Committee opined that PP shall be allowed to transport the coal by road only till 3 years from the date of grant of EC amendment and conveyor shall be installed within the said time frame.

9. Project proponent shall clarify regarding the coal grade A-G, as no such coal grade exists. Hence Committee sought clarity in this regard.

Recommendations of the Committee:

32.3.9: In view of the foregoing and after the detailed deliberations, the Committee **recommended** the instant proposal for grant of following amendment in the EC granted vide letter no. J-11015/858/2007-IA-II(M), dated 25.02.2016, as detailed below, subject to stipulation of the following additional specific conditions:

Para/ Conditions as per EC dated 25.02.2016	Description as per approved EC dated 25.02.2016	Recommendation of EAC
EC letter dt. 25.02.2016- Title – Company Name	Tadicherla-1 Coal Block, Godavari Valley Coal Field Opencast coal mine of 2.5 MTPA in ML area of 906 ha of M/s Telangana State Power Generation Corporation Limited , located in Village Tadicherla District Karimnagar (Telangana) - Environmental Clearance reg.	Agreed. With regard to the changes in the said para, Committee is of the agreed to amend the same as follows: <i>“MTPA in ML area of 930 ha of M/s Telangana Power Generation Corporation Limited, located in Village Tadicherla District Karimnagar (Telangana) - Environmental Clearance reg.”</i>
EC letter dt. 25.02.2016- Subject & Para 2 & 6 – change in ML area	.... in ML area of 906 ha of M/s Telangana State Power Generation Corporation Limited, located in Village Tadicherla, District Karimnagar (Telangana).....	Agreed. With regard to the changes in the said para, Committee is of the agreed to amend the same as follows: <i>“....in ML area of 930 ha of M/s Telangana Power Generation Corporation Limited, located in Village Tadicherla, District Jayashankar Bhupalpally (Telangana).....”</i>
EC letter dt. 25.02.2016- Para 3.iii	The total geological Reserve is 47.9355 MT. The mineable reserve is 45.36 MT, extractable reserve is 45.36 MT. The per cent of extraction would be 94.63%.	Agreed. With regard to the changes in the said para, Committee is of the agreed to amend the same as follows: <i>“The total geological Reserve is 50.0845 MT. The mineable reserve is 47.509MT, extractable reserve is 47.509MT. The percent of extraction would be 94.85%.”</i>
EC letter dt. 25.02.2016- Para 3.iv	The coal grades are A to G having stripping ratio of 13.66, the average Gradients 1 in 3.7 to 5.8 towards north to NNE and 1 in 4 to 5 towards ENE- and NE. There will be total ten seams with thickness ranging from 0.05 to 67.90 meters.	Not Agreed.

Para/ Conditions as per EC dated 25.02.2016	Description as per approved EC dated 25.02.2016	Recommendation of EAC
EC letter dt. 25.02.2016- Para 3.viii	There are two external OB Dumps covering an area of 137.61 Ha. (D1= 77.70 Ha & D2 = 59.91 Ha). The height for both the dumps would be 100 m with a total quantity of 71.96 mm ³ . The year of back filling would be 3 years. There is one internal dump covering an area of 607.80 ha having a height upto ground level with the quantity of 543.599 mm ³ . The final mine voids will have an area of 49.06 ha. and depth 320 m bgl, which will be reduced by using TPP ash mixed with OB.	Partially Agreed. With regard to the changes in the said para, Committee is of the agreed to amend the same as follows: <i>“There are two external OB Dumps covering an area of 137.61 Ha. (D1= 77.70 Ha & D2 = 59.91 Ha). The height for both the dumps would be 100 m with a total quantity of 71.96 mm³. The year of back filling would be 3 years. There is one internal dump covering an area of 607.80 ha having a height upto 30 meter above the ground level with the quantity of 619.61 mm³. The final mine voids will have an area of 49.06 ha. and depth 320 m bgl, which will be reduced by using TPP ash mixed with OB.”</i>
EC letter dt. 25.02.2016- Para 3.x	The life of mine is 21 years . Maximum depth of the mine is 320 m . At the end of mine life an area of 607.80 ha of the quarry would be backfilled.	Partially Agreed. With regard to the changes in the said para, Committee is of the agreed to amend the same as follows: <i>“The life of mine is 22 years. Maximum depth of the mine is 310 m. At the end of mine life an area of 607.80 ha of the quarry would be backfilled”</i>
EC letter dt. 25.02.2016- Para 3.x	Transportation: The transportation of coal from mine to power station shall be by covered conveyor belt to avoid spillage. Transportation of coal from face to CHP will be by dumpers. There will be no siding. Coal will be used for captive Kakatiya Thermal Power Project (TPS) 1 x 500 MW, located at Chelpuru, about 15 km away from the Coal Block.	Partially agreed. With regard to the changes in the said para, Committee is of the agreed to amend the same as follows: <i>“Transportation: The transportation of coal from mine to power station shall be by covered conveyor belt to avoid spillage. Transportation of coal from face to CHP will be by dumpers. There will be no siding. Coal will be used for captive Kakatiya Thermal Power Project (TPS) 1 x 600 MW, located at Chelpur, about 17.2 km away from the Coal Block. Hence, the coal transportation from mine to power plant is carried out via road till 3 year from the date of grant of EC amendment. PP shall implement closed conveyor within the said period and thereafter no coal transportation by road shall be allowed.”</i> <i>PP should do 3 tier plantation along the transportation route immediately to mitigate the pollution through the trucks etc.</i>
EC letter dt. 25.02.2016- Para	Total afforestation plan shall be implemented covering an area of 769.81	Not Agreed.

Para/ Conditions as per EC dated 25.02.2016	Description as per approved EC dated 25.02.2016	Recommendation of EAC
3.xviii	hectare at the end of mining where reclaimed external OB dump 137.61 hectare and internal OB Dump 607.809 hectare . Green belt over an area of 12.40 hectare. Density of tree plantation 2500 trees/ ha of plants.	
EC letter dt. 25.02.2016- A. Specific Conditions xxii	Final mine void depth will not be more than 40 meters. The wide area will be converted into water body. The remaining area will be back filled up to the ground level and covered with about a meter thick top soil and put to use.	Not Agreed.
EC letter dt. 25.02.2016- A. Specific Conditions xxxv	OB shall be stacked at two earmarked external OB dumpsite(s) only. The ultimate slope of the dump shall not exceed 28°. Monitoring and management of existing reclaimed dumpsites shall continue until the vegetation becomes self-sustaining. Compliance status shall be submitted to the Ministry of Environment, Forest & Climate Change and its concerned Regional Office on yearly basis.	Not Agreed.
EC letter dt. 25.02.2016- A. Specific Conditions xlii	A Progressive afforestation plan shall be implemented covering an area of 769.81 Ha at the end of mining, which includes reclaimed External OB dump area (137.61 Ha), Internal OB dump area (607.80 Ha) and Green belt (12.40 Ha) and in township located outside the lease by planting native species in consultation with the local DFO/Agriculture Department. The density of the trees shall be around 2500 plants per ha. Massive plantation shall be carried out in open spaces in and around the mine and a 3-tier avenue plantation along the main approach roads to the mine.	Not Agreed.
EC letter dt. 25.02.2016- A. Specific Conditions xliii	An estimated total 615.559 Mm³ of OB will be generated during the entire life of the mine. There are two external OB dumps covering an area of 137.61 ha. (D1=77.70 ha & D2=59.91 ha). Both the dumps will have 71.96 mm³ of OB. The year of back filling would be 3 years. There is one internal dump covering an area of 607.80 ha having a height upto ground level with the quantity of 543.599 mm³ . The final mine voids will have an area of 49.06 ha . And depth 320 m bgl , which will be reduced by using TPP ash mixed with OB. The maximum height of external OB dumps for hard OB will not exceed 90 m . And that for soft OB shall not exceed 60 m. The maximum slope of the dump shall not exceed 28°. Monitoring and management of reclaimed dump sites shall continue till the vegetation becomes self-sustaining and	Partially agreed. With regard to the changes in the said para, Committee is of the agreed to amend the same as follows: <i>"An estimated total 615.559 Mm³ of OB will be generated during the entire life of the mine. There are two external OB dumps covering an area of 137.61 ha. (D1=77.70 ha & D2=59.91 ha). Both the dumps will have 71.96 mm³ of OB. The year of back filling would be 3 years. There is one internal dump covering an area of 607.80 ha having a height upto 30 meter above the ground level with the quantity of 619.61 mm³. The final mine voids will have an area of 49.06 ha and depth 310 m bgl, which will be reduced by using TPP ash mixed with OB. The maximum height of external OB dumps</i>

Para/ Conditions as per EC dated 25.02.2016	Description as per approved EC dated 25.02.2016	Recommendation of EAC
	compliance status shall be submitted to the MOEFCC and its regional office on yearly basis.	<i>for hard OB will not exceed 100 m. And that for soft OB shall not exceed 60 m. The maximum slope of the dump shall not exceed 28° Monitoring and management of reclaimed dump sites shall continue till the vegetation becomes self-sustaining and compliance status shall be submitted to the MOEFCC and its regional office on yearly basis."</i>
EC letter dt. 25.02.2016- A. Specific Conditions xlviii	Of the total quarry area of 656.86 Ha, the backfilled quarry area of 607.80 Ha shall be reclaimed with plantation and a void of 49.06 Ha at a depth of 60 m is proposed to be converted into a water body shall be gently sloped and the upper benches shall be terraced and stabilized with plantation/ afforestation by planting native plant species in consultation with the local DFO/ Agriculture Department. The density of the trees shall be around 2500 plants per ha.	Not Agreed.

Additional Specific Conditions:

1. 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, project proponent shall make sure that all the pollution control equipments are in good working condition and maintenance of those equipments is regularly carried out.
2. Additional air pollution control measures should be taken along roads being used for the transport of coal including e-/CNG/LNG vehicles.
3. Project proponent shall carry out thick plantation with native species on both the sides of the coal transportation road in consultation with the Highway authorities.
4. Project proponent shall install 1 nos of CAAQMS within the ML area in consultation with the state pollution control board, within 1 year from the date grant of the EC amendment.

Agenda No. 32.4:

32.4: Pakri Barwadih Coal Mining Project (having capacity 18 MTPA within the ML area of 3319.40 Ha) **by M/s NTPC Mining Limited**, located at villages: Barkagaon, Itij, Chiruadih, Urub, Chepa, Kalan, Nagri, Jugra, Sinduari, Churchu, Carahara, Sonbarsa, Pakri – Barwadih; District: Hazaribagh; State: Jharkhand – **Amendment in Environment Clearance – reg.**

[Online Proposal no. IA/JH/CMIN/535787/2025; Consultant: Min Mec Consultancy Pvt. Ltd. - NABET/ EIA/25-28/RA 0399 – valid up to 30.03.2028]

32.4.1: The instant proposal is for seeking amendment in Environment Clearance granted to M/s NTPC Limited vide letter no. J-11015/692/2007-IA.II(M) dated 19.05.2009 and later

transferred to M/s NTPC Mining Ltd. Vide letter no. J-11015/692/2007-IA.II(M) dated 02.05.2024 for Pakri Barwadih Coal Mining Project (having capacity 18 MTPA within the ML area of 3319.40 Ha), located at villages: Barkagaon, Itij, Chiruadih, Urub, Chepa, Kalan, Nagri, Jugra, Sinduari, Churchu, Carahara, Sonbarsa, Pakri – Barwadih; District: Hazaribagh; State: Jharkhand.

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

S. No.	Details of Letter No.	EC/Expansion EC/ Amendment in EC/Validity Extension/Transfer of EC	Capacity	Area	Status of implementation
1	J-11015/692/2007- IA.II(M) dated 19.05.2009	Fresh EC	15 MTPA	3319.42 Ha	Fresh EC
2	J-11015/692/2007- IA.II(M) dated 29.06.2016	Amendment in EC	15 MTPA	3319.42 Ha	Implemented
3	J-11015/692/2007- IA.II(M) dated 07.12.2017	Amendment in EC	15 MTPA	3319.42 Ha	Being implemented
4	J-11015/692/2007- IA.II(M) dated 14.08.2018	Amendment in EC	15 MTPA	3319.42 Ha	Implemented
5	J-11015/692/2007- IA.II(M) dated 10.11.2020	Amendment in EC	15 MTPA	3319.42 Ha	Implemented
6	J-11015/692/2007- IA.II(M) dated 16.08.2023	Amendment in EC	15 MTPA	3319.42 Ha	Implemented
7	J-11015/692/2007- IA.II(M) dated 09.11.2023	Amendment in EC	15 MTPA	3319.42 Ha	Implemented
8	J-11015/692/2007- IA.II(M) dated 15.01.2024	Amendment in EC	15 MTPA	3319.42 Ha	Implemented
9	J-11015/692/2007- IA.II(M) dated 06.03.2024	PRC Enhancement (1 st phase 20%)	18 MTPA	3319.42 Ha	Being implemented
10	J-11015/692/2007- IA.II(M) dated 02.05.2024	Transfer of EC	18 MTPA	3319.42 Ha	Transfer from NTPC Ltd to NTPC Mining Ltd
11	J-11015/692/2007- IA.II(M) dated 16.07.2024	Amendment in EC	18 MTPA	3319.42 Ha	Implemented
12	J-11015/692/2007- IA.II(M) dated 30.10.2024	Amendment in EC	18 MTPA	3319.42 Ha	Implemented
13	J-11015/692/2007- IA.II(M) dated 02.01.2025	Amendment in EC	18 MTPA	3319.42 Ha	Being Implemented

W.r.t the previous approvals, PP submitted the actual production details of the concerned mine and submitted that the mine became operational from May 2016 onwards. CTO renewal has been obtained from the SPCB and is valid up to 28.02.2026. Details of the same are as follows:

Year	Actual production (MTPA)	Planned Coal production in MTPA as per Environmental Clearance	Excess production beyond the sanctioned capacity
2017-18	2.89	15	Nil
2018-19	6.81	15	Nil
2019-20	9.42	15	Nil
2020-21	7.07	15	Nil
2021-22	8.32	15	Nil
2022-23	13.22	15	Nil
2023-24	16.31	18	Nil
2024-25	17.38	18	Nil
2025-26 (Till 28 th Aug)	5.8	18	Nil

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

Specific/ General Condition No.	Details of Conditions as per EC	Amendment Sought	Justification
Specific Condition No.- 2A (ix) of EC dated 19.05.2009 & its subsequent amendment dated 02.01.2025	<i>The PP is permitted to use service road/ state highway for transportation of 4.5 MTPA of coal to Banadag Railway Siding till 31.03.2025 only. Thereafter, only 3 MTPA of coal is permitted to transport via service road/ state highway till 31.03.2026 adopting all mitigative measures to control dust pollution. No road transportation of coal will be permitted beyond 31.03.2026."</i>	<i>Final Transportation from CHP to Railway Siding shall be done by closed belt conveyor and Rapid Loading System. PP is permitted to use Service Road/ State Highways for transportation of 6 MTPA coal till 31.03.2026 to Banadag railway siding adopting all mitigative measure to control dust pollution."</i>	<ol style="list-style-type: none"> 1. The initial EC accorded in 2009 was for 15 MTPA of Peak rated capacity (PRC), accordingly, CHP & RLS of PBCMP was designed to transport coal up to 15 MTPA. Subsequent upon the revision of mine plan, EC was granted for 18 MTPA PRC of the mine, vide File no. J-11015/692/ 2007-IA-II(M) dated 06.03.2024. 2. Presently, PBCMP dispatches coal from mine at Pakri Barwadih to railway siding at Banadag in following modes/ ways: Part I: From mine pit to crusher installed at mine pit head by mine trucks. Part II: (a) From Crusher at mine pit head to Stacker/ Reclaimer area by 8 Km long closed belt conveyor within the mine boundary and thereafter by 13.2 Km long Closed belt conveyor to Banadag Railway Siding. (b) From Stacker/ Reclaimer area to Banadag Railway Siding by road (17.429 Km). 3. Hon'ble Supreme Court had directed vide its order dated 29.01.2024 to complete the CHP system including RLS by 31.12.2024. In this regard it is to mention that Belt conveyor including RLS system has been commissioned on 15.12.2024 in compliance of the Hon'ble Supreme Court direction. 4. However, rail yard augmentation work delayed due to forest clearance of 0.709 Ha required for the same which is granted on 28.04.2025 vide letter no. FP/JH/RAIL/427316/2023. 5. It is further to submit that, the delay in railyard works also affected due to prevailing adverse law and order

Specific/ General Condition No.	Details of Conditions as per EC	Amendment Sought	Justification
			<p>situation in the area. Executives of NTPC and its contractors are getting frequent threat calls from anti-social elements/villagers. Recently these threats converted into an unfortunate incident which occurred on 8th March 2025 in which one of our executive was shot dead by anti-social element.</p> <p>6. It is also pertinent to mention that integrated commissioning of CHP, RLS and railyard work requires at least two more months for smooth and safely loading of coal to wagon after completion of yard augmentation work.</p> <p>7. The following work of railway are still pending:</p> <ul style="list-style-type: none"> i. Earth work including compaction etc. for CH-2670 to CH-2872b (202 m) in forest land. ii. Track laying with gravel spreading work CH-2670 to CH-2872b (202 m). iii. OHE work and S&T work for CH-2670 to CH-2872b (202 m). iv. Out of 09 tracks, laying work for 06 tracks has been completed and work is in process for balance 03 nos. Of tracks. v. Completion and commissioning of traction (OHE) S&T work. vi. Retaining Wall and Drain work is in progress to be completed depending upon the completion of track work. <p>It is to submit that, as FC for 0.709 ha Forest land is granted on 28.04.2025, Indian Railways would not be in position to complete the entire facilities before 15 March 2026.</p> <p>8. In time motion study it is observed that with the present arrangements of railyard, max. 9.75 rakes per day can be transported through belt conveyor from now. With this rate we can achieve max. 12 MTPA Coal transportation. However, to achieve the coal production/dispatch target of 18 MTPA, balance 6 MTPA shall require to be transported though road.</p>

Specific/ General Condition No.	Details of Conditions as per EC	Amendment Sought	Justification
			<p>9. Also, as submitted in past, the present design capacity of the belt conveyor system is 15 MTPA. To enhance the capability of the present system to 18 MTPA certain modifications and erection of additional conveyor streams are required for which the action has already been initiated and same shall be completed by 31.03.2026</p> <p>In view of above, it is submitted to kindly grant permission for transportation of the coal by road for 6 MTPA till 31.03.2026.</p>

32.4.4: Detail of the Traffic Assessment Study:

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

Coal Production:	17.38 MMT
Dispatch of Coal:	16.73 MMT (by Road – 13.26 MMT, by Conveyor – 3.47 MMT)

2. Coal Transportation Route:

Pakri Barwadih Coal Mining Project (PBCMP) is a working mine of NTPC Mining Limited. The project was granted EC vide J-11015/692/2007-IA-II(M) dated 19.05.2009 for 15 MTPA coal production which was later enhanced to 18 MTPA vide letter dated 06.03.2024. As per EC specific condition Para 2A (ix) of EC letter dated 19.05.2009 & EC amendment dated 02.01.2025 “The PP is permitted to use service road/ state highway for transportation of 4.5 MTPA of coal to Banadag Railway Siding till 31.03.2025 only. Thereafter, only 3 MTPA of coal is permitted to transport via service road/ state highway till 31.03.2026 adopting all mitigative measures to control dust pollution. No road transportation of coal will be permitted beyond 31.03.2026.”

However, present dispatch arrangement is as follows:

Mode	Quantity (MTPA) as per EC	Quantity (MTPA) being implemented
Conveyor to Banadag railway siding & thereafter by rail	15 MTPA	12 MTPA
Road to Banadag railway siding & thereafter by rail	3 MTPA	3 MTPA
Total	18 MTPA	15 MTPA

The coal transportation was proposed through conveyor from the mine to the Banadag Railway Siding for 15 MTPA while 3 MTPA was proposed through road. However, due to agitation by around 500 PAP truck owners, leading to disruption in law and order situation as well as non-completion of railyard work by Indian rail and due to delay in Stage-II FC clearance of 0.709 Ha forest land, NML proposes to enhance the road transportation of coal from present 3 MTPA to 6 MTPA. There will be no change in the existing route which comprises of mine road (1.095 km), State Highway (8.296 km), Service road along conveyor (7.345 km) and other roads (4.915 km). The route for loaded trucks is from mine to State Highway, Odarna, Phatha Chowk, Sirka, Darha, whereafter it joins the service road along conveyor, then onto Kusumbha and Banadag totalling 12.721 km. The route for the empty trucks to return to mine is slightly different having a length of 15.903 km. It starts on the

service road along conveyor from Banadag to Kusumbha to Transfer point 5 whereafter it turns towards Odarna, reaches to State Highway and back to mine. There is an overlap of 10.586 km.

The objective of the traffic impact assessment is to evaluate the impacts due to transportation of coal by road to the nearby consumers. Baseline data was collected from 05.05.2025 to 29.05.2025 at six traffic census locations and eight air and noise monitoring locations has been recorded.

The vehicles passing through the road (in both ways) were counted at the selected locations for 24 hrs during the study period. Category-wise vehicle counting has been done continuously and recorded in the traffic volume count on hourly basis under respective categories. The vehicle count was conducted at six locations considering the local traffic movement at (1) Ambe Gate, near CHP (within ML), (2) TP5 Tower More (aerially 1.4 km, in E direction from ML), (3) Odarna More (aerially 4.2 km, in ENE direction from ML), (4) Sirka Village (aerially 5.3 km, in ENE direction from ML), (5) Kusumbha village (aerially 8.6 km, in NE direction from ML) and (6) Near TP6 (aerially 3.6 km, in ENE direction from Mine).

The traffic volume count carried out as per IRC 9-1972 included the following vehicles, namely, LMV, buses, trucks, motor cycles and scooters, cycles, animal draw vehicles and others. The number of vehicles per hour were counted and converted into Passenger Car Units (PCU's) using factor given in IRC: 64-1990 for rural areas. Entire length of road is in rural area.

During study period the traffic it was found that carrying capacity utilisation along the rural road varies from 7.6% to 65.4% at present and after addition of MNLs trucks as well as natural growth in traffic till March 2026, it will increase between 12.7% to 70.4%. The peak hour traffic was observed at TP5 Tower More at 2:00 – 3:00 and peak PCU/hr as 1746, which utilises 81.5% at present which will increase to 85.7% of the maximum capacity of roads assessed as per IRC 106:1990 for urban roads. The current coal dispatch by road is reflected in the current traffic census monitoring.

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

The ambient air quality monitoring was conducted twice a week for one month's baseline from 5th May 2025 to 29th May 2025, as part of the EC compliances by NTPC Mining Ltd. Air quality was monitored at 8 locations falling along the transportation route. The concentration of PM₁₀, PM_{2.5}, SO₂ and NO₂ are ranged from 60.8 to 82.4 µg/m³, 27.9 to 39.1 µg/m³, 11.3 to 17.1 µg/m³ and 13.6 to 46.0 µg/m³, respectively. All the values are within the permissible limits for the respective land uses at all the locations.

Ambient Noise Quality: Ambient noise monitoring was carried out at 8 locations to ascertain the present noise level during May 2025. The noise monitoring data in Industrial and Residential area ranges from 48.2 - 62.8 dBA (Day), 38.6.8 – 51.8 dBA (Night) and 48.7 – 52.7 dBA (Day), 40.8 – 41.9 dBA (Night) respectively. All the values are within the permissible limits for the respective land uses at all the locations.

Details of existing control measures:

1. At Banadag Railway Siding 30 nos. Permanent/fixed type high-capacity rain guns have been installed on both side of railway siding (north and south side) to

- minimize the dust generation.
2. Dust suppression along the coal transport route is being controlled by 17 nos. of mobile water tankers of different capacity ranging from 10 KL to 18 KL.
3. Boundary wall has been constructed on both side (i.e., North & South Side) of Banadag Railway Siding along with permanent windscreen of height 20 ft.
4. To avoid accidents at night, streetlamp posts have been installed through Department of Energy, Govt of Jharkhand along the transportation road.
5. 100 nos. of solar lights have been installed along the coal transport route.
6. Regular monitoring for Ambient Air and Noise quality is being done along the coal transport route.
7. Continuous Ambient Air Quality Monitoring (CAAQMS) system has been installed in coal transport route (Sirka village).
8. Plantation has been carried out along the coal transport route. Till date 18417 nos. of plants have been planted.
9. Transportation of coal is being done through only tarpaulin covered trucks.
10. Only Trucks/Tippers with valid PUC certification & fitness certificate are allowed.
11. Safety boards are installed along the coal transportation route.
12. Awareness program, safety talks, pep talks for the Tipper drivers & local people is in practice.
13. Facilities for rest/ stay/ hygiene/ sanitation/ for drivers has been provided at the mine site.
14. Speed breaker on turnings and habitat area in order to ensure slow driving.
15. Regular cleaning and maintenance of transport route.
16. Trucks are following a “no horn, low speed” protocol while passing through village.

Details of additional control measures proposed

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

32.4.5: Details of Court Cases: Details of the pending court cases are as follows:

- a. High Court of Jharkhand : 02 Nos.
- b. NGT (EZ), Kolkata : 01 Nos

S. No.	Case No.	Date of Filing	Court	Sub/Issues	Status
1	WP (C) 4036/2021	30.09.2021	HC of Jharkhand	Writ Petition has been filed by NTPC against the State of Jharkhand and others against demand of transit fee on 100 % coal production under Jharkhand Forest Produce Transit (Regulation of Transport) Rules 2020, Jharkhand.	<p>➤ High Court of Jharkhand has ordered to pay Transit Fee on 40% Production till further order. Stay granted via order dated 10/01/22 and clubbed with other such cases of CCL, ECL, BCCL, Hindalco, SAIL, and WPDCL.</p> <p>➤ Next hearing date is 13.10.2025.</p>

S. No.	Case No.	Date of Filing	Court	Sub/Issues	Status
2	WP (C) 1759/2023	03.04.2023	HC of Jharkhand	Writ Petition filed by NTPC against the State of Jharkhand and others praying for stay on the operation, implementation and execution of the letter No. 43, dated 03.01.2023 of Divisional Forest Officer (West), Hazaribagh by which the State of Jharkhand has demanded the payment of Transit Fee for the second time (multiple time transit fee) on the same load on change of mode of transportation.	<ul style="list-style-type: none"> ➤ 1st hearing was held on 20.04.2023 ➤ Counter filed by State: 19.06.2023 ➤ Supplementary filed by NTPC on 01.09.2023. ➤ Hon'ble court vide order dated 06.09.2024 directed NTPC not to be charged twice for the same forest produce on the change of mode of transportation for transportation of any forest produce as transit fee. ➤ Hon'ble Court has stayed the order and fixed next date of hearing as 21/02/24. ➤ Case not taken up till date.
3	OA 107/2025/EZ Dated 23.06.2025 (OA 206/2025/PB)	23.06.2025	NGT, Eastern Zone, Kolkata	Petition filed by Shri Mantu Soni Vs State of Jharkhand and others regarding violation of condition no. 9 of Forest clearance Stage-II leading to obstruction in the movement of wildlife especially elephants, accidents on the roads, elephants damaging the inhabitat and Authorities do not taking action against culprits.	<ul style="list-style-type: none"> ➤ Petition dated 23.01.2025 submitted by the applicant before the Hon'ble NGT, Principle Bench, New Delhi. ➤ Hearing held on 08.05.2025 and the case was transferred to Eastern Zone, Kolkata. ➤ Hearing held on 17.07.2025 and 24.07.2025, <i>"The Applicant prays for and is granted three weeks' time for filing rejoinder affidavit"</i> ➤ Next hearing is scheduled on 09.12.2025.

Observations and deliberation of the Committee:

32.4.6: The EAC noted the following:

1. MoEF&CC has granted EC for the Pakri Barwadih Coal Mining Project of M/s NTPC Limited vide letter no. J-11015/692/2007-IA.II(M) dated 19.05.2009 for capacity of 15 MTPA in an area of 3319.42 Ha. Subsequently, various amendments for the same were issued vide letters dated 29.06.2016, 07.12.2017, 14.08.2018, 10.11.2020, 16.08.2023, 09.11.2023 and 15.01.2024. Thereafter, another EC for the peak rated capacity of 18 MTPA was granted within the same ML area of 3319.42 Ha vide letter dated 06.03.2024. Later the same was transferred from M/s NTPC Limited to M/s NTPC Mining Limited vide letter dated 02.05.2025. Subsequently EC amendments for the same were granted vide letters dated 16.07.2024, 30.10.2024 and 02.01.2025.
2. The above projects have been implemented and are already under operation.
3. The instant project has been submitted for seeking amendment in the Specific Condition No.- 2A (ix) of EC dated 19.05.2009 & its subsequent amendment dated 02.01.2025. As per the amendment granted vide letter dated 02.01.2025, it was stipulated that, *"The PP is permitted to use service road/ state highway for transportation of 4.5 MTPA of coal to Banadag Railway Siding till 31.03.2025 only. Thereafter, only 3 MTPA of coal is permitted to transport via service road/ state*

highway till 31.03.2026 adopting all mitigative measures to control dust pollution. No road transportation of coal will be permitted beyond 31.03.2026.”

Now, the PP has submitted the application for seeking increase in the quantum of coal from 4.5 MTPA to 6 MTPA to transport the same to Banadag railway siding till 31.03.2026.

4. Committee deliberated on the present coal evacuation system of coal from said mines and observed that currently the coal from mine pit to pit crushers is being transported by mine trucks and further to the CHP stockpile by 8 km belt conveyor. Further, 4.5 MTPA of the coal is being transported by tarpaulin covered trucks to the Banadag railway siding at the distance of 17.4 km. Remaining coal production is being transported from CHP stockpile to TP-10 by the belt conveyor of 13 km, then to NTPC railway siding by another belt conveyor of 1.2 km.
5. It is pertinent to mention that, the conveyor belt being constructed is only for the capacity of 15 MTPA and for another 3 MTPA (i.e., 18 MTPA), engineering designing had been modified to make the changes in the conveyor and siding capacity for 18 MTPA. PP submitted that actions for the same has already been taken and same is proposed to be completed by 31.03.2026.
6. Committee further deliberated on the progress of the belt conveyor and the railway siding till date and observed the following:

Description/ Item	% completion	Completion/ Target date	Remarks
Out of 09 tracks, laying work for 07 tracks has been completed and work is in process for balance 02nos. Of tracks.	70	10.11.2025	Track Welding work and OHE work to be completed.
Earth work including compaction etc. for CH-2670 to CH-2872b (202 m)in forest land,	60	30.11.2025	Stage-II FC for 0.709 Ha forest land granted on 28.04.2025 and unprecedented pre monsoon rain in June have delayed there start of the work.
Track laying with gravel spreading work CH-2670 to CH-2872b (202 m)	0	25.12.2025	
OHE work and S&T work for CH-2670 to CH 2872b (202 m)	0	15.01.2026	
Completion and commissioning of traction (OHE) S&T work. for CH-2670 to CH-2872b (202 m)	0	31.01.2026	
Retaining Wall, platform work and Drain work	80	15.03.2026	

7. Committee also deliberated on the ambient air quality and ambient noise quality parameters of the coal transportation route, due to the road transportation of coal and observed that, all the parameters are within the permissible limits. Committee also deliberated on the existing control measures and opined that all the PP shall carryout regular maintenance of the potholes on roads, repair and maintenance of roads, scrapping of material fallen on roads, and removal of scraps from mining areas. Along with this, PP shall make sure that all the pollution control equipments are in good working condition and maintenance of those equipment is regularly carried out.
8. Committee also opined that PP shall do intense plantation with the native species on both the side of the coal transportation road to further control the dust and noise pollution within 1 year.

9. Committee observed that, there 3 court cases pending on the said project. 2 court cases are pending in the High Court of Jharkhand and one in the NGT Eastern Zone, Kolkata. Committee opined that, PP shall comply with the final judgement of Jharkhand High Court in the case no. WP (C) 4036/2021 and WP (C) 1759/2023 and that of NGT Eastern Zone, Kolkata in case no. OA 107/2025/EZ.

Recommendations of the Committee:

32.4.7: In view of the foregoing and after the detailed deliberations, the Committee **recommended** the instant proposal for grant of amendment in the EC granted vide letter no. J-11015/692/2007-IA.II(M) dated 02.01.2025, as detailed below, subject to stipulation of the following additional specific conditions:

Conditions as per EC dated 02.01.2025	Description as per approved EC dated 02.01.2025	Recommendation of EAC
Specific Condition No.- 2A (ix) of EC dated 19.05.2009 & its subsequent amendment dated 02.01.2025	<i>The PP is permitted to use service road/ state highway for transportation of 4.5 MTPA of coal to Banadag Railway Siding till 31.03.2025 only. Thereafter, only 3 MTPA of coal is permitted to transport via service road/ state highway till 31.03.2026 adopting all mitigative measures to control dust pollution. No road transportation of coal will be permitted beyond 31.03.2026."</i>	Agreed. With regard to the changes in the said condition, Committee is of the agreed to amend the same as follows: "The PP is permitted to use service road/ state highway for transportation of 6 MTPA of coal to Banadag Railway Siding till 31.03.2026 only, adopting all mitigative measures to control dust pollution. No road transportation of coal will be permitted beyond 31.03.2026."

Additional Specific Conditions:

1. Proponent shall carryout regular maintenance of the potholes on roads, repair and maintenance of roads, scrapping of material fallen on roads, and removal of scraps from mining areas. Along with this, PP shall make sure that all the pollution control equipments are in good working condition and maintenance of those equipments is regularly carried out.
2. Additional air pollution control measures should be taken along roads being used for the transport of coal including e-/CNG/LNG vehicles.
3. Project proponent shall comply with the final judgement of Jharkhand High Court in the case no. WP (C) 4036/2021 and WP (C) 1759/2023 and that of NGT Eastern Zone, Kolkata in case no. OA 107/2025/EZ.

Agenda No. 32.5:

32.5: Pauni II Expansion OC (having production capacity of 3.25 MTPA with reduction in the ML area from 1095.52 Ha to 1050.45 Ha) by **M/s Western Coalfields Limited**, located at villages: Chincholi, Pauni, Sakhari, Waroda; **District: Chandrapur; State: Maharashtra - Amendment in Environment Clearance – reg.**

[Online Proposal no. IA/MH/CMIN/549623/2025; Consultant: CMPDIL: NABET/EIA/25-28/RA 0412 valid till 08/04/2028]

32.5.1: The instant proposal is for seeking amendment in Environment Clearance granted to M/s Western Coalfields Limited vide letter no. J-11015/80/2016-IA.II(M) dated 28.03.2019, further extended vide letter dated 13.03.2020 for Pauni II Expansion OC (having production capacity of 3.25 MTPA with reduction in the ML area 1095.52 Ha), located at villages: Chincholi, Pauni, Sakhari, Waroda; District: Chandrapur; State: Maharashtra.

Project proponent originally submitted the application for the instant project vide proposal no. IA/MH/CMIN/295210/2022, dated 13.12.2022 on Parivesh 1.0. The instant proposal was earlier appraised in the 39th EAC meeting held on 12-13th January 2023 and the same was deferred for want of additional information sought by the EAC. PP submitted the reply of the same vide letter dated 09/07/2025 along with the request to amend certain other paras of the EC dated 28.03.2019 due to reduction in the ML area from 1095.52 Ha to 1050.45 Ha. Accordingly, the PP was advised to submit a fresh application on the Parivesh 2.0 portal.

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

S. No.	Details of Letter No	EC/ Expansion EC/ Amendment in EC/ validity extension/ Transfer of EC	Capacity (MTPA)	Area (Ha)	Date of issuance	Status of Implementation
1	No.J-11015/71/2005-IA.II(M)	EC	0.6	316.30	02.02.2006	Implemented
2	J-11015/80/2016-IA.II(M)	Revalidation and expansion EC	3.25	1095.52	28.03.2019	Being Implemented
3	J-11015/80/2016-IA.II(M)	Extension EC	3.25	1095.52	13.03.2020	Being Implemented
4	J-11015/80/2016-IA.II(M)	EC Amendment	3.25	1095.52	01.12.2020	Being Implemented

The actual production details of the Pauni – II Expansion OC Mine, from the commencement of operations in FY 2016-17 onwards, are provided in the table below. CTO renewal has been obtained from Maharashtra Pollution Control Board vide letter no. format1.0/CAC/UAN No. MPCB-CONSENT-0000200022/CR/2507000248 dated 02.07.2025, valid up to 31.03.2026.

Year	EC Sanctioned capacity (MTPA)	Actual Production (MTPA)	Excess production beyond the EC sanctioned capacity
2016-17	0.60	0.51	NIL
2017-18	0.60	0.306	NIL
2018-19	0.60	0.599	NIL
2019-20	3.25	2.105	NIL
2020-21	3.25	2.80	NIL
2021-22	3.25	3.249	NIL
2022-23	3.25	3.249	NIL
2023-24	3.25	3.249	NIL
2024-25	3.25	3.249	NIL

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

Specific/ General condition no.	Details of conditions as per EC	Amendment sought	Justification
Specific condition no. (iii) of	PP shall implement off pit conveyor system i.e from coal handling	PP shall implement off pit conveyor system i.e from coal handling plant	An extension of the project timeline is requested due to delays in the tendering process and award of work for the

EC dated 13.03.2020	plant to Railway siding with silo loading facility in three years (i.e 2023).	to Railway siding with silo loading facility by June'2027.	construction of the SILO (coal to be sourced from Gauri-Pauni OC, Sasti OC, and Pauni-II OC). The LOA was issued to the contractor on 15.05.2025. The requested extension aligns with the extension granted under the EC amendment for Gauri-Pauni OC, dated 23.07.2025.
Specific condition no. (xii)	PP shall not divert proposed nallah till it justifies the reason for diversion.	PP shall divert the proposed nallah as mentioned in the approved Mining Plan only after due permission secured from state Irrigation Department.	These nallahs pass over the quarry patch; hence, diversion of the nallahs is required to extract the coal reserves, as there is no alternative. Furthermore, it is to be noted that the Lendi and Sakhari nallahs have already been diverted with the approval of the State Irrigation Department. The NOC acquired for diversion of Lendi nallah and Sakhari nallah from the state irrigation department of Maharashtra are submitted.
Existing para 3 (vi), (vii), (viii), (ix), (xiv), (xv), (xvi), (xii), (xviii) of EC Dt. 28.03.2019	Expansion of Pauni-II Opencast Coal Mining Project from 0.6 MTPA to 3.25 MTPA of M/s Western Coalfields Limited in mine lease area of 1095.52 ha located in District Chandrapur (Maharashtra).	Expansion of Pauni-II Opencast Coal Mining Project from 0.6 MTPA to 3.25 MTPA of M/s Western Coalfields Limited in mine lease area of 1050.45 ha located in District Chandrapur (Maharashtra).	Expansion of Pauni-II Opencast Coal Mining Project from 0.6 MTPA to 3.25 MTPA of M/s Western Coalfields Limited in mine lease area of 1050.45 ha located in District Chandrapur (Maharashtra). Pointwise amendment sought in the para 3 of the EC dated 28.03.2019 is as follows:

Pointwise amendment sought in the para 3 of the EC dated 28.03.2019 is as follows:

S. N o.	Existi ng Para No.	Existing EC					Proposed Amendment				
1.	3. (vi)	Total Mine lease area is 1095.52 ha. Mining Plan (Including Progressive Mine) has been approved by the WCL Board on vide letter no. WCL/BD/SECTT/BM-307/2018/830, dated 26 th December’2018.					The Mine lease area, approved for the present EC, is 1050.45 ha. Mining Plan (Including Progressive Mine) has been approved by the WCL Board on 28.08.2023 and communicated vide letter no. WCL/Office of CS/BM-355/2023-24/626, dated 09.09.2023. The total mine lease area for the Pauni-II Expansion OC Project is 1105.95 ha , out of which 1050.45 ha is required for Phase-I (considered for granting of EC) , and the remaining 55.50 ha is required for Phase-II . The entire mine lease area is distributed across both phases, i.e 1105.95 ha.				
2.	3.(vii)	Pre Mining Land Use details (Area in Ha)					Pre Mining Land Use details Area (in ha)				
		Sl. No.	Land Type	Within ML area	Outside ML area	Total Land	Sl. No.	Land Type	Phase-I	Phase-II	Total Land (Phase-I +Phase II)
		1	Agricultural Land	718.69	0	718.69					
		2	Forest land	0	0	0					
		3	Waste land	60.53	0	60.53	1	Tenancy Land	962.45	43.43	1005.88
		4	Grazing land	0	0	0	2	Govt. Land	88.00	0.00	88.00
		5	Surface water bodies	0	0	0	3	Forest	0.0	12.07	12.07
		6	settlements	0	0	0	Total		1050.45	55.50	1105.95
		7	Others (industrial)	316.30	0	316.30	Land Use during mining				
		Total		1095.52		1095.52	Sl. No.	Particulars		Area (ha)	
							1	External OB dump		199.91	

S. N o.	Existi ng Para No.	Existing EC	Proposed Amendment																																																																																																																																																																								
		<div>Land use - Post Mining<table><tr><th>Sr. No</th><th>Land use</th><th colspan="5">Land use (ha)</th></tr><tr><th></th><th></th><th>Plantation</th><th>Water Body</th><th>Public Use</th><th>Undisturbed</th><th>Total</th></tr><tr><td>1</td><td>External OB Dump</td><td>214.57</td><td>0</td><td>0</td><td>0</td><td>214.57</td></tr><tr><td>2</td><td>Top soil Dump</td><td>35.40</td><td>0</td><td>0</td><td>0</td><td>35.40</td></tr><tr><td>3</td><td>Excavation/ Quarry</td><td>107.0</td><td>188.35</td><td>0</td><td>0</td><td>295.35</td></tr><tr><td>4</td><td>Roads</td><td>0.5</td><td>0</td><td>1.5</td><td>0</td><td>2.0</td></tr><tr><td>5</td><td>Built up Area (Colony/ office)</td><td>3.0</td><td>0</td><td>7.0</td><td>0</td><td>10.0</td></tr><tr><td>6</td><td>Green Blet</td><td>0.0</td><td>0.0</td><td>0.0</td><td>0.0</td><td>0.0</td></tr><tr><td>7</td><td>Undisturbed area</td><td>0.0</td><td>0.0</td><td>186.41</td><td>0.0</td><td>186.41</td></tr><tr><td>8</td><td>Internal OB dumps</td><td>58.93</td><td>0.0</td><td>0.0</td><td>0.0</td><td>58.93</td></tr><tr><td>9</td><td>Virgin area</td><td>350.0</td><td>0.0</td><td>0.0</td><td>0.0</td><td>350.0</td></tr><tr><td colspan="2">Total</td><td>769.40</td><td>188.35</td><td>194.91</td><td>0.0</td><td>1152.66</td></tr></table></div>	Sr. No	Land use	Land use (ha)							Plantation	Water Body	Public Use	Undisturbed	Total	1	External OB Dump	214.57	0	0	0	214.57	2	Top soil Dump	35.40	0	0	0	35.40	3	Excavation/ Quarry	107.0	188.35	0	0	295.35	4	Roads	0.5	0	1.5	0	2.0	5	Built up Area (Colony/ office)	3.0	0	7.0	0	10.0	6	Green Blet	0.0	0.0	0.0	0.0	0.0	7	Undisturbed area	0.0	0.0	186.41	0.0	186.41	8	Internal OB dumps	58.93	0.0	0.0	0.0	58.93	9	Virgin area	350.0	0.0	0.0	0.0	350.0	Total		769.40	188.35	194.91	0.0	1152.66	<table><tr><td>2</td><td>Topsoil dump</td><td>44.08</td></tr><tr><td>3</td><td>Excavation</td><td>303.19</td></tr><tr><td>4</td><td>Embankment/ Road</td><td>38.50</td></tr><tr><td>5</td><td>Infrastructure</td><td>10.00</td></tr><tr><td>6</td><td>Blasting zone</td><td>200.00</td></tr><tr><td>7</td><td>Rationalization</td><td>310.27</td></tr><tr><td colspan="2">Total</td><td>1105.95</td></tr></table> <div>Land use - Post Mining<table><tr><th>S r n o</th><th>Land use</th><th>Plant ation</th><th>Wat er bod y</th><th>Pu blic / co mp any use</th><th>Othe rs (Un distu rbed)</th><th>Total</th></tr><tr><td>1</td><td>External OB dump</td><td>199.91</td><td></td><td></td><td></td><td>199.91</td></tr><tr><td>2</td><td>Top soil dump</td><td>44.08</td><td></td><td></td><td></td><td>44.08</td></tr><tr><td>3</td><td>Excavatio n</td><td>114.84</td><td>188.35</td><td></td><td></td><td>303.19</td></tr><tr><td>4</td><td>Road & Embankm ent</td><td>0.50</td><td></td><td>8.50</td><td>29.50</td><td>38.50</td></tr><tr><td>5</td><td>Infrastruct ure</td><td>3.00</td><td></td><td>7.00</td><td></td><td>10.00</td></tr><tr><td>6</td><td>Blasting Zone</td><td>200.00</td><td></td><td></td><td></td><td>200.00</td></tr><tr><td>7</td><td>Rationalis ation</td><td>160.36</td><td></td><td></td><td>149.91</td><td>310.27</td></tr><tr><td></td><td>Total</td><td>722.69</td><td>188.35</td><td>15.50</td><td>179.41</td><td>1105.95</td></tr></table></div>	2	Topsoil dump	44.08	3	Excavation	303.19	4	Embankment/ Road	38.50	5	Infrastructure	10.00	6	Blasting zone	200.00	7	Rationalization	310.27	Total		1105.95	S r n o	Land use	Plant ation	Wat er bod y	Pu blic / co mp any use	Othe rs (Un distu rbed)	Total	1	External OB dump	199.91				199.91	2	Top soil dump	44.08				44.08	3	Excavatio n	114.84	188.35			303.19	4	Road & Embankm ent	0.50		8.50	29.50	38.50	5	Infrastruct ure	3.00		7.00		10.00	6	Blasting Zone	200.00				200.00	7	Rationalis ation	160.36			149.91	310.27		Total	722.69	188.35	15.50	179.41	1105.95
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3.	4.	Total land requirement for Pauni- II expansion OC mine is 1152.66 Ha. Out of 1152.66 ha land, 21.61 ha land which is already acquired for Pauni OC has to be transferred to Pauni-II Expansion OC by boundary readjustment.	The total land requirement for the Pauni-II Expansion OC Mine is 1105.95 ha (for both phase-I & Phase-II) including the land transferred from Pauni OC to Pauni-II expansion OC.																																																																																																																																																																								
5.	3.(ix)	Total agricultural land of 1050.99 ha and govt land of 89.60 ha is involved in the project. About 12.7 ha of forest land is also required in overall 1152.66 ha land. The application for stage-I FC has already been made but FC is yet to be secured,	<div>The breakup of the land involved in the project phase-wise is as follows<table><tr><th>Land type</th><th>Total land (ha)</th><th>Phase-I land (ha)*</th><th>Phase-II land (ha)</th></tr><tr><td>Tenancy land</td><td>1005.88</td><td>962.45</td><td>43.43</td></tr><tr><td>Governm ent land</td><td>88.00</td><td>88.00</td><td>0.00</td></tr><tr><td>Forest land</td><td>12.07</td><td>0.00</td><td>12.07*</td></tr><tr><td>Total</td><td>1105.95</td><td>1050.45</td><td>55.50</td></tr></table></div> <div>*The present EC is acquired for only Phase-I. As per revised mining plan approved in the WCL Board on 28.08.2023 and communicated vide letter no. WCL/Office of CS/BM-355/2023-24/626, Dt.09.09.202, the total land in Phase-I is 1050.45 ha. The stage-I FC of 12.07 Ha forest land has been secured vide letter no. FC-II/MH-165/2021-NGP/Dt.20.03.2025.</div>	Land type	Total land (ha)	Phase-I land (ha)*	Phase-II land (ha)	Tenancy land	1005.88	962.45	43.43	Governm ent land	88.00	88.00	0.00	Forest land	12.07	0.00	12.07*	Total	1105.95	1050.45	55.50																																																																																																																																																				
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6.	3.(xii)	Total geological reserve reported in the mine lease area is 42.847 MT with 30.63 MT mineable reserves. Out of total mineable reserve of 30.63 MT, 30.63 MT are available for extraction. Percent of extraction is 72%.	The total mineable reserves as on 01.04.2023 is 22.07 MT. After considering the production in FY 2023-24 & 2024-25, the balance reserves as on 01.04.2025 tentatively are 15.57 MT.																																																																																																																																																																								
7.	3.(xiv)	Method of mining operations would be opencast with shovel dumper combination method. Life of mine is 13 years.	Method of mining operations would be opencast with shovel dumper combination method. The Life of mine as on 01.04.2025 is estimated to be approximately 5 years i.e up to FY 2029-30.																																																																																																																																																																								
8.	3(xv)	The project has three external OB dumps in an area of 214.57 ha with 90m height and 184.32 Mm³ of OB. The OB from the current mining operations shall be backfilled from 6 th tear onwards, one internal OB in an area of 107.0 ha with	The project has five external OB dumps in an area of 243.99 ha with height ranging from 30 m-90 m and 99.93 Mm³ of OB. The OB from the current mining operations has started backfilling from 7 th year onwards, one internal OB in an																																																																																																																																																																								

S. N o.	Existi ng Para No.	Existing EC	Proposed Amendment
		80.73 Mm ³ of OB.	area of 114.84 ha with 97.99 Mm ³ of OB.
9.	3.(xvi)	Total quarry area is 295.35 ha out of which backfilling will be done in 107ha while final mine void will be created in an area of 188.35 ha within a depth of 200m. Backfilled quarry area of 107 ha shall be reclaimed with plantation. Final mine void will be converted in to water body.	Total quarry area is 303.19 ha out of which backfilling will be done in 114.84 ha while final mine void will be created in an area of 188.35 ha within a depth of 200m. Backfilled quarry area of 114.84 ha shall be reclaimed with plantation. Final mine void will be converted into water body.
10.	3(xviii)	Reclamation plan in an area of 769.4 ha, comprising of 214.57 ha of external dump, 35.40 ha of top soil dump, 107.0 ha of internal dump, 412.43 ha for green belt development.	Reclamation plan in an area of 722.69 ha, compromising of 199.91 ha of external dump, 44.08 ha of top soil dump, 114.84 ha of internal dump, 363.86 ha for blasting zone, rationalization are, infrastructure and road & embankment area.

32.5.4: Details of Court Cases: 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:

32.5.5: The EAC noted the following:

1. MoEF&CC originally accorded EC for Pauni II Expansion OC vide EC letter dated 02.02.2006 for the production capacity of 0.6 MTPA within the ML area of 316.30 Ha. The same was granted revalidation along with the expansion in production capacity from 0.6 MTPA to 3.25 MTPA and the ML area from 316.30 Ha to 1095.52 Ha, vide letter dated 28.03.2019. EC extension was granted vide letter dated 13.03.2020 and later EC amendment was granted vide letter dated 01.12.2020.
2. The above mentioned project has been implemented.
3. PP submitted an application for seeking amendment in specific condition no. (iii) and Specific condition no. (xii) of EC dated 13.03.2020 and certain paras of EC dated 28.03.2019.
4. Specific condition no. (iii) of EC dated 13.03.2020 pertains to implementation of in pit conveyor system i.e from coal handling plant to Railway siding with silo loading facility in three years (i.e 2023). Committee deliberated on the same sought clarity for delay in submission of the proposal.
5. Specific Condition no. (xii) of EC dated 13.03.2020 pertains to diversion of the 2 nallahs passing through the ML area. Committee observed that the PP had already diverted the Lendi and Sakhari nallahs with the approval of the state irrigation department. However, no permission and amendment in EC in this regard was sought from the Ministry. Committee took a serious view at it and sought clarification from the proponent in this regard, as to how the diversion of water bodies has been done without seeking the permission from the Ministry.
6. Another amendment sought by the PP is in certain paras of the EC dated 28.03.2019. Such changes are regarding reduction in the ML area from 1095.52 Ha to 1050.45 Ha. Due to reduction in the ML area, certain other paras of the EC are proposed to be amended, such as land use pattern, coal reserves, method of mining, etc. Committee also observed that with reduction in the ML area, the area proposed for OB dumping

is being increased. During the deliberation the Committee observed that OB from other neighbouring mines of M/s WCL is proposed to be dumped in the said mine and vice versa.

Committee found the same to be confusing as the PP and the consultant were not able to clearly demonstrate the same. Committee opined that the PP shall submit a comprehensive OB dumping and rehandling plan for all the mines involved for the same. Such plan shall clearly bring out the area of each mine to be utilized for both internal and external OB dumps, OB from which mine is proposed to be dumped in which mine and in what quantity and how the same is proposed to be rehandled. Along with that, also submit the relevant extracts of the mine plan of each mine where dumping and accommodation of OB to and from other mine is permitted.

7. In the amendment sought in Para 3 of EC dated 28.03.2019, in the changes pertaining to land use pattern also included the details of Phase – II. As per the amendment being sought the area is being reduced from 1095.52 Ha to 1050.45 Ha. However, the land use pattern includes the details of 55.50 Ha (of Phase – II). There is a lot of ambiguity in the land use pattern submitted by the PP. Committee opined that PP shall restrict the land use pattern to Phase – I only, i.e., 1050.45 Ha and shall accordingly submit the proposal with complete clarity.
8. Committee observed that out of 303.19 ha quarry, 188.53 ha of 200 meter depth void will be created, which is very high in area and depth. PP should give plan to reduce both.

Recommendations of the Committee:

32.5.6: In view of the foregoing and after detailed deliberation, the Committee ***returned the proposal in its present form*** and asked the proponent to submit a fresh proposal, after addressing observations of EAC as mentioned above.

Agenda No. 32.6:

32.6: Gondulpara Coal Mine (having production capacity of 4 MTPA within the ML area of 513.18 Ha), by **M/s Adani Enterprises Limited** located at villages: Balodar, Gali, Hahe, Gondulpara and Phulang; District: Hazaribagh; State: Jharkhand – **Prescribing of Terms of Reference – reg.**

[Online Proposal no. IA/JH/CMIN/544929/2025; Consultant: VARDAN ENVIRONET LLP, NABET/EIA/2326/RA 0284_Rev.01, valid up to 04.05.2026]

32.6.1: M/s Adani Enterprises Limited has made an application online vide proposal no. IA/JH/CMIN/544929/2025 dated 31.07.2025 along with the application in prescribed format (CAF & Form-I), copy of pre-feasibility report and proposed ToRs for undertaking detailed EIA study as per the EIA Notification, 2006 for the project mentioned above. The proposed project activity is listed at Item. No. 1(a) Mining of minerals Under Category “A” of the schedule of the EIA Notification, 2006 and being appraised at Central Level. The project does not attracts General Condition.

Gondulpara Coal Mine (having production capacity of 4 MTPA within the ML area of 513.18 Ha), is located at villages: Balodar, Gali, Hahe, Gondulpara and Phulang; District: Hazaribagh; State: Jharkhand.

The instant proposal was earlier apprised in the 15th EAC meeting held on 06.07.2021, wherein the same was returned in present form due to the following observations of the EAC:

During presentation, PP has proposed dumping of overburden dump across the river and out of mine lease area which was not agreed to by EAC in view of Supreme Court verdict and also environmentally unsafe to manage and monitor.

As per Hon'ble Supreme Court order in the Writ Petition (Civil) No. 435 of 2012 in the matter of Goa Foundation vs Uol & Ors, at Para-29:

"a holder of mining lease does not have any right to dump any reject, tailings or waste in any area outside the leased area of the mining lease on the strength of mining lease granted under the MMDRA Act and the Rules made thereunder. Such area outside the leased area of the mining lease may belong to the State or may belong to any private person, but if the mining lease does not confer any right whatsoever on the holder of a mining lease to dump any mining waste outside the leased area, he will have no legal right whatsoever to remove his dump, overburden, tailings or rejects and keep the same in such area outside the leased area. In other words, dumping of any waste materials, tailing and rejects outside the leased area would be without a valid authorization under the lease deed".

Now the proposal is again placed in 32nd EAC Meeting held on 24-25th September 2025.

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

32.6.2: Environmental Site Settings:

The project area is covered under Survey of India Topo-sheet no. 73E/5 and is bounded by the geographical coordinates ranging from Latitude 23°50'20.598"N to 23°51'49.92"N and Longitude 85°18'20.608"E to 85°20'56"E.

Project does not fall in the Critically Polluted Area (CPA)/Severally Polluted Area (SPA). As per CEPI Assessment, 2018, the project falls within the Hazaribagh district which is severally polluted area. However, a letter dated 23.09.2025 obtained from JSPCB has been submitted by the PP, wherein it is stated that, the project falls at a distance of around 13.5 km from the nearest SPA.

Forest Area: The project involves total 219.80 Ha of forestland. Application for forest land diversion for 219.80 ha has been made vide application no. FP/JH/MIN/139492/2021 dated 26.03.2021. There is no broken forestland and the project does not involve the violation of Van (Sanrakshan Evam Samvardhan) Adhiniyam, 1980.

Protected Area: The project is not located within 10 KM of any ESZ/ ESA/ national park/ wildlife sanctuary/biosphere reserve/tiger reserve/elephant reserve/tiger corridor/elephant corridor etc. However, a Site Specific Wildlife Conservation Plan will be prepared for conservation of Schedule-I species.

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

S. No.	Govt. Order/Notifications as the case may be	Area (ha)
1.	sting Order No. NA-104/10/2020-NA; dated 8th March 2021	409.92
	Total	409.92
2.	Details of LOI (for area outside lease area) obtained vide letter no. Kha. Ni. (Koyla)Khanan Patta-25/2021, dated 18.12.2023	103.26
Grand Total (As per Approved Mine Plan)		513.18

Other Sensitive Receptors:

Project site proximity to sensitive area	Distance in km (within 5 km from the ML area)		
i. Habitation	Village	Distance (Km)	Direction
	Hahe	Within Mine lease	
	Phulang	Within Mine lease	
	Gondalpura	Within Mine lease	
	Gali	Within Mine lease	
	Balodar	Within Mine lease	
	Rudi	0.83	S
	Ambajit	1.58	WNW
	Motra	1.78	NNW
	Dunoresam	1.96	NE
	Badam	2.14	WSW
	Chapri	2.14	SE
	Rautpara	2.24	S
	Bes	2.77	N
	Mahugain Kalan	2.78	WNW
	Kutulua	2.92	SW
	Sukul Khapia	3	NW
	Mahugain Khurd	3.08	W
	Dambhadih	3.27	SW
	Jorakath	3.38	E
	Babu Balia	3.44	WNW
	Isko	3.64	SSW
	Rajhar	3.77	NW
	Haram	3.97	N
	Mardu	3.98	W
	Harli	4.12	SW
	Saheda	4.19	SSE
	Belabeltaul	4.4	WSW
	Pandaul	4.73	NW
	Chandaul	4.81	W
	Napo Kalan	5	SW
ii. School	Schools	Distance(Km)	Direction
	UPG PS Gali	Within ML	
	UPG PS Kadamatola	Within ML	
	UPG PS Tilhawa	Within ML	
	Upg p.s. balodar	Within ML	
	Upg m.s. gondalpura	0.15	SW
	Upg p.s. hahe	0.7	N
	Middle school badam	1.65	WSW
	Urdu upg m.s. girls' badam	1.68	SW
	Upg p.s. rauat para	2.01	SW
	Middle school ambajit	2.35	W
	Girls' p. Hindi school badam	2.45	SW
	Upg m.s. chapri	2.6	SE
	Upg p.s. kutulwa	3.04	SW
	Upg m.s. mahugain kalan	3.12	W
	S.S. high school harli	3.24	WSW
	Upg M.S. Bes	3.54	NNW
	Upg M.S. Harli	3.56	SW
	Upg P.S. Bela Bel Taul	4.65	SW

Project site proximity to sensitive area	Distance in km (within 5 km from the ML area)		
	Upg P.S. Rajhar	4.79	NW
	Upg M.S. Chandal	4.95	W
iii. River/ Waterbody	Water body	Distance (Km)	Direction
	Badamahi Nadi (HFL: RL 423-415 from east to west along the boundary)	east to west along the northern boundary	
	Nala (tributary of Badamahi Nadi)	Within ML area	
	Taria N	1.1	E
	Katia Nala	2.0	E
iv. Forest	Reserved/Protected forests	Distance (In km)	Direction
	Gali RF	within ML area	
	Balodar PF	within ML area	
	Hahe PF	within ML area	
	Gondalpara PF	within ML area	
	Rautpara	1.5	S
	Barkagaon RF	0.4	N
	Jorakath RF	4.3	E
v. Archaeological Survey of India (ASI) protected site	No		
vi. Any other	No		

Following are the diversions proposed for the said project: A nala (tributary of Badamahi Nadi) passes through the block which shall be diverted along the eastern boundary of the block. A study for the same is being conducted by IIT Kharagpur as per the provisions of SOP issued by Government of Jharkhand dated 22nd April 2025.

32.6.3: Mining Plan and Mine Closure Plan: Mine Plan and Mine Closure Plan has been approved by Ministry of Coal, GoI, vide letter no. GONDULPARA COAL MINEJHJH010/APP00301/2021 dated 31.07.2025.

1. Method of Mining to be adopted shall be opencast. Excavation of Coal is through combination of Surface Miner and Drilling Blasting method. The OB handling is with shovel/dumper combination etc.
2. There is no coal washery proposed in the project.
3. Total geological reserve reported in the mine lease area is 184.65 MT with 120.11 MT mineable reserves. Out of total mineable reserve of 120.11 MT, 116.68 MT are available for extraction. Percent of extraction is 70.21 %.
4. 8 seams with thickness ranging from 2 m to 20 m are workable. Grade of coal is G10 (GCV - 4540 Kcal/kg), stripping ratio: 2.3952 cum/t, while gradient is 8° to 25°.
5. Life of mine is 32 years.
6. **Waste/OB Management:** A total of 279.47 Mm³ of OB + Topsoil shall be generated. The project has one external OB dump in an area of 129.35 ha with 120 m height and 48.49 Mm³ of OB outside the boundary of the coal block allotted by Ministry of Coal. One internal OB dump with temporary external dump in an area of 166.89 ha with 227.42 Mm³ of OB is envisaged in the project.
7. **Topsoil Management:** About 3.26 Mm³ is proposed to be generated. Topsoil is proposed to be removed separately and dumped outside the quarry in a manner such that it does not lose its fertility. The topsoil would be spread over the reclaimed land, afterward. Topsoil will be stored for initial four years and during subsequent years it

will be directly spread over the reclaimed area. There is one nos of top soil dump proposed.

8. Details of land-use pattern:

a) Pre-mining

S. No.	Land Use	Within ML Area (ha)	Outside ML Area (ha)	Total (ha)
1.	Agriculture Land	221.84	Nil	221.84
2.	Forest Land	219.8	Nil	219.8
3.	Waste land	-	Nil	-
4.	Grazing land	-	Nil	-
5.	Surface water Bodies	5.56	Nil	5.56
6.	Settlements	1.38	Nil	1.38
7.	Others (Govt.-Barren, road & infra)	64.6	Nil	64.6
Total		513.18	Nil	513.18

b) Post-Mining

S. No.	Type	Total Area (ha)	Reclaimed Area (ha)	Un-reclaimed area (ha)
1.	Excavation/Quarry Area:	326.01	-	-
	(a) Backfilled areas	-	166.89	-
	(b) Excavated Void	-	-	159.12
2.	External Dump	129.35	129.35	-
3.	Safety Zone	6.5	6.5	-
4.	Road and infrastructure	12.8	12.8	-
5.	Garland Drains	1.53	-	1.53
6.	Embankment	18.84	-	18.54
7.	Others (greenbelt)	10.69	10.69	-
8.	Others (settling pond)	2.2	-	2.2
9.	Others (diversion of nallah)	5.56	-	5.56
Total		513.18	326.23	186.95

219.80 Ha afforested land shall be returned to Forest department.

9. Details of transportation:

- In-pit to surface: By tippers
- Surface to Loading: By dumpers
- Loading to Siding: By covered trucks (at the distance of approx. 12 km)

The implementation of First Mile Connectivity (FMC)—via rail, conveyor, or any other suitable mode—will be undertaken once the required infrastructure and permissions are in place. The FMC is envisaged in 4 years of the operation.

- Details of reclamation: The afforestation plan shall be done progressively covering an area of 326.23 Ha at the end of mining. This will include reclaimed external OB dump in an area of 129.35 Ha, internal dump of 166.89 Ha and greenbelt in an area of 10.69 Ha. Density of plantation shall be 2500 plants per Ha. A void of 159.12 Ha shall be converted into 30 m deep water body. 12.8 Ha of road & infrastructure area and 6.5 Ha of safety zone is also proposed to be reclaimed.

32.6.4: Baseline Data:

Period	Baseline Data			Additional Study (If any)
AAQ parameters at 12 Locations (min and max)	Core Zone			
	PM ₁₀	=	48.50 to 77.10 µg/m ³	
	PM _{2.5}	=	30.20 to 51.60 µg/m ³	
	SO ₂	=	9.60 to 17.70 µg /m ³	

Period	Baseline Data			Additional Study (If any)
	NO _x	=	17.80 to 30.90 µg/m ³	
	CO	=	0.53 to 0.86 mg/m ³	
	Buffer Zone			
	PM ₁₀	=	30.50 to 64.50 µg/m ³	
	PM _{2.5}	=	19.70 to 41.80 µg/m ³	
	SO ₂	=	6.00 to 14.00 µg/m ³	
	NO _x	=	11.30 to 24.40 µg/m ³	
	CO	=	0.15 to 0.71 mg/m ³	
Ground water quality at 14 Locations	pH	:	7.10 to 7.96	
	Total Dissolved solids	:	234.00 mg/L to 347.00 mg/L	
	Hardness	:	95.04 mg/L to 142.56 mg/L	
	Chlorides	:	29.52 mg/L to 44.28 mg/L	
	Fluoride	:	0.31 mg/L to 0.46 mg/L	
	Heavy metals Fe	:	0.30 mg/L to 0.45 mg/L	
	Zinc as Zn	:	0.23 mg/L to 0.34 mg/L	
	Copper as Cu	:	<0.002 mg/L to 0.10 mg/L	
	Cyanide as CN	:	<0.02 mg/L	
	Aluminium as Al	:	<0.005 mg/L	
	Boron	:	<0.01 mg/L	
	Chromium as Cr	:	<0.002 mg/L	
	Phenolic Compound	:	< 0.001 mg/L	
	Manganese as Mn	:	<0.01 mg/L	
	Cadmium as Cd	:	<0.002 mg/L	
	Lead as Pb	:	<0.002 mg/L	
	Selenium as Se	:	<0.001 mg/L	
	Arsenic as As	:	<0.005 mg/L	
	Mercury as Hg	:	<0.0005 mg/L	
	Total Coliform	:	Absent	
Surface water quality at 14 Locations	pH	:	6.84 to 8.09	
	Hardness	:	114.54 mg/L to 266.67 mg/L	
	DO	:	5.60 mg/L to 6.70 mg/L	
	BOD	:	8.15 mg/L to 35.00 mg/L	
	COD	:	12.00 mg/L to 87.00 mg/L	
	Fe	:	0.28 mg/L to 0.65 mg/L	
	Aluminium as Al	:	<0.005 mg/L	
	Boron	:	<0.01 mg/L	
	Chromium as Cr	:	<0.002 mg/L	
	Phenolic Compound	:	<0.001 mg/L	
	Zinc as Zn	:	0.19 mg/L to 0.44 mg/L	
	Copper as Cu	:	<0.002 mg/L to 0.09 mg/L	
	Manganese as Mn	:	<0.01 mg/L	
	Cadmium as Cd	:	<0.002 mg/L	
Noise levels Leq (Day and Night)	Core Zone			
	Day Time	:	49.38 dB(A) to 60.24 dB(A)	
	Night Time	:	39.16 dB(A) to 42.15 dB(A)	
	Buffer Zone			
	Day Time	:	44.20 dB(A) to 51.20 dB(A)	
	Night Time	:	35.84 dB(A) to 42.68 dB(A)	
Soil quality at 12 Locations	pH	:	7.05 to 8.05	
	Conductivity	:	0.140 mS/cm to 0.324 mS/cm	
	water holding capacity	:	25.05% to 36.88%	
	bulk density	:	1.24 gm/cc to 1.46 gm/cc	
	chloride as cl	:	114.20 mg/kg to 206.40 mg/kg	
	calcium as ca	:	82.39 mg/kg to 210.50 mg/kg	
	sodium as Na	:	98.40 mg/kg to 188.29 mg/kg	

Period	Baseline Data		Additional Study (If any)
	Potassium as K	: 95.17 mg/kg to 176.50 mg/kg	
	Organic matter	: 0.35% to 0.65%	
	Magnesium as Mg	: 7.23 mg/kg to 13.68 mg/kg	
	Available Nitrogen as N	: 238.38 kg/hect to 341.41 kg/hect.	
	Available Phosphorus	: 11.49 kg/hect. to 21.42 kg/hect.	
	Zinc (as Zn)	: 1.20 mg/kg to 2.18 mg/kg	
	Manganese (as Mn)	: 20.11 mg/kg to 36.35 mg/kg	
	Lead (as Pb)	: 0.21 mg/kg to 0.39 mg/kg	
	Cadmium (as Cd)	: <0.5 mg/kg	
	Chromium (as Cr)	: 0.24 mg/kg to 0.49 mg/kg	
	Copper (as Cu)	: 1.07 mg/kg to 1.95 mg/kg	
Water Requirement	The total water required for the project is estimated as 1386 KLD. Service water requirement, water requirement for workshop, drinking and sanitation, at the initial stage of 2-3 years, will be met from ground water. Mine quarry water will collect sufficient water, which will meet the industrial demand. Potable water demand at mine, mine facilities will be met through ground water by bore wells. Application for obtaining the approval of the Central Ground Water Authority for water withdrawal will be submitted after the approval of ToR.		

32.6.5: Details of Water Requirement: PP submitted that, the total water required for the said project is 1386 KLD which will be sourced from ground water. Application for obtaining the permission for the same will be submitted to CGWA after the grant of ToR.

PP further stated that a tributary of Badmahi River flows through the block from south to north, which ultimately discharges into the Badmahi River. This nala is proposed to be diverted along the eastern boundary of the block.

32.6.6: Details of Power Requirement and diversion of High-Tension/Transmission Line: Overall power demand will be approximately 2 MVA for initial year of operation and the same shall ramp up to 6.5 MVA for life of mine. Power will be received at Substation-1 at 33 kV from nearby substation. Further PP submitted that no High-Tension/Transmission Line is proposed for diversion.

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

S. No	Type of Waste	Source	Quantity (TPA)	Mode of Treatment	Disposal
1.	Food Waste and Other Domestic waste	Manpower employed at Site	75.57	Authorized Vendors	Domestic waste shall be treated in Soak Pits
2.	Plastic Waste	site office and canteen etc.	1	CPCB/SPCB Authorized recycling Vendors	Plastic Waste Management (Amendment) Rules, 2024
3.	Electronic Waste	Administrative office & service building.	1	Authorized Vendors	As per E- Waste (Management) Rules, 2022
4.	Used Batteries	Vehicles at sites	1	Authorized Vendors	As per Batteries Management rules 2022, sold to authorize vendors for recycling/ refurbishment.

S. No	Type of Waste	Source	Quantity (TPA)	Mode of Treatment	Disposal
5.	Used Oils, Waste Oil, Empty Oil barrels	Mine Workshop, Mine Machinery	50.0	Authorized Vendors	Handed over to CPCB/SPCB authorized vendor

32.6.8: Plantation: The afforestation plan shall be done progressively covering an area of 326.23 ha at the end of mining including Green belt of 10.69 Ha, Backfilled area 166.89 Ha, reclamation of External OB dump of 129.35 Ha, Safety Zone and Road and Infrastructure area of 19.3 Ha. Density of plantation shall be 2500 plants per Ha.

32.6.9: Rehabilitation & Resettlement Plan: R&R plan will be prepared by the user agency which will be submitted to District Administration, for its approval. Total 5 Nos. of villages (Balodar, Gali, Hahe, Gondulpara and Phulang) present inside the mine lease area in which 3 Nos. of villages i.e. Balodar, Gali, Gondulpara villages to be shifted fully and rest Hahe & Phulang villages will be shifted partially. The land outsees will be given rehabilitation and resettlement benefits according to the Govt. of Jharkhand R&R Policies and prevailing practice in industries in the vicinity.

32.6.10: Project Cost: The project cost of the said project is Rs. 1617.27 Crore.

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

32.6.12: Written Submissions: PP submitted the following details during the meeting:

S. No.	Information sought	Reply of PP
1.	Copy of report on selection of suitable external overburden dump site conducted by IIT Kharagpur.	Report submitted. The report concluded that, “ <i>provision of external dump area is necessary, with two possible alternatives available along the northern boundary of the block. In both cases, some extent of forestland involvement for OB dumping remains unavoidable. In comparison, Option 2 lies entirely within coal-bearing land, and hence is not considered suitable for OB dumping.</i> ”
2.	Updated pre-mining and post-mining land use pattern	Submitted as mentioned in Para 32.6.3 (8)
3.	Certificate of JSPCB regarding distance from nearest CPA/ SPA.	Certificate submitted.

Deliberations and Observation of the Committee:

32.6.13: The Committee noted the following:

1. The instant proposal is for grant of Terms of Reference to M/s Adani Enterprises Limited for Gondulpara Coal Mine (having production capacity of 4 MTPA within the ML area of 513.18 Ha), located at villages: Balodar, Gali, Hahe, Gondulpara and Phulang; District: Hazaribagh; State: Jharkhand.
2. The instant proposal is a Greenfield opencast project.
3. The instant project was earlier apprised in 15th EAC meeting held on 06.07.2021,

wherein the same was returned in present form due to certain observations of the EAC (as mentioned in para 32.6.1 mentioned above). Now the proposal is again placed in 32nd EAC Meeting held on 24-25th September 2025.

4. The EAC took into consideration the project site through kml file on the Google Earth presented by the project proponent along with DSS of the project site on PARIVESH.
5. Project does not fall in the Critically Polluted Area (CPA)/ Severely Polluted Area (SPA), as per CEPI Assessment 2018. As per CEPI Assessment, 2018, the project falls within the Hazaribagh district which is severally polluted area. However, a letter dated 23.09.2025 obtained from SPCB has been submitted by the PP, wherein it is stated that, the project falls at a distance of around 13.5 km from the nearest SPA.
6. The project involves total 219.80 Ha of forestland. Application for forest land diversion for 219.80 ha has been made vide application no. FP/JH/MIN/139492/2021 dated 26.03.2021. There is no broken forestland and the project does not involve the violation of Van (Sanrakshan Evam Samvardhan) Adhiniyam, 1980.
7. The project is not located within 10 KM of any ESZ/ESA/ national park/ wildlife sanctuary/ biosphere reserve/ tiger reserve/ elephant reserve/ tiger corridor/ elephant corridor etc. There is presence of Schedule – I species within the study area and Wildlife Conservation Plan is yet to be prepared.
8. Committee observed that there are various schools within the ML area and in close vicinity of the ML area. Committee opined that relocation plan for the schools which are within the ML area shall be submitted and mitigation measures shall be submitted for the schools which are within the close vicinity of the ML area, along with the application for Environment Clearance.
9. The said coal block has been allotted to the proponent by Ministry of Coal, Government of India, vide vesting order no. NA-104/10/2020-NA, dated 08.03.2021 for the area of 409.92 Ha. Apart from the 409.92 Ha, PP has also obtained an area of 103.26 Ha area adjacent to 409.92 Ha vide letter of intent no. Kha. Ni. (Koyla)Khanan Patta-25/2021, dated 18.12.2023 from Government of Jharkhand, for the purpose of dumping of OB, as there is not enough space to dump OB on the 409.92 Ha allotted by Ministry of Coal. In view of this, now the total ML area is 513.81 Ha.

Committee further observed that out of the additional 103.26 Ha, 65.228 Ha is forestland. Proponent has submitted application for Stage I FC for 219 ha including 65.228 ha application no. FP/JH/MIN/139492/2021 dated 26.03.2021. EAC further deliberated on the Study Report carried out by IIT Kharagpur for selection of suitable external overburden dump site for the said mine and observed that in its conclusion, it is mentioned that *“provision of external dump area is necessary, with two possible alternatives available along the northern boundary of the block. In both cases, some extent of forestland involvement for OB dumping remains unavoidable. In comparison, Option 2 lies entirely within coal-bearing land, and hence is not considered suitable for OB dumping.”*

Committee opined that PP shall explore the feasibility of OB dumping in the mines adjacent to the said coal mine, as per the provisions of OM dated 31.01.2025 issued by MoC. Feasibility report in this regard shall be annexed to the EIA/ EMP report.

PP shall submit the requisite forest clearance as per the Van (Sanrakshan Evam Samvardhan) Adhiniyam, 1980 for the forestland proposed to be utilized for OB dumping.

10. Mine Plan and Mine Closure Plan has been approved by Ministry of Coal, GoI, vide letter no. GONDULPARA COAL MINEJHJH010/APP00301/2021 dated 31.07.2025.
11. Method of Mining to be adopted shall be opencast. Excavation of Coal is through combination of Surface Miner and Drilling Blasting method. The OB handling is with shovel/dumper combination etc.
12. Total geological reserve reported in the mine lease area is 184.65 MT with 120.11 MT mineable reserves. Out of total mineable reserve of 120.11 MT, 116.68 MT are available for extraction. Percent of extraction is 70.21 %.
13. Life of mine is 32 years.
14. Committee deliberated on the top soil removal and management and observed that, about 3.26 Mm³ top soil is proposed to be generated. Topsoil is proposed to be removed separately and dumped outside the quarry in a manner such that it does not lose its fertility. The topsoil would be spread over the reclaimed land, afterward. Topsoil will be stored for initial four years and during subsequent years it will be directly spread over the reclaimed area. There is one no. of top soil dump proposed.
15. Committee deliberated on the land use pattern submitted by the PP and observed certain discrepancies in the same. PP submitted the rectified land use pattern.
16. Committee further deliberated on the transportation proposed for the said project and observed that the coal is proposed to be transported from in-pit to surface by tippers. Further from surface to loading by dumpers. From loading to siding the same is proposed to be transported by covered trucks at a distance of approximately 12 km. However, PP submitted that the implementation of First Mile Connectivity (FMC)—via rail, conveyor, or any other suitable mode will be undertaken once the required infrastructure and permissions are in place. The FMC will facilitate direct coal transportation from the pithead to the designated railway siding.
17. Committee deliberated on the baseline data submitted by the PP and observed the parameters to be within limits.
18. Committee further deliberated on the water requirement for the said project and observed that total water requirement for the said project is 1386 KLD which will be sourced from ground water. Water withdrawal permission from the concerned authority will be obtained after the grant of ToR.
19. Committee further observed that, a tributary of Badmahi River flows through the block from south to north, which ultimately discharges into the Badmahi River. This nala is proposed to be diverted along the eastern boundary of the block. Committee opined that the PP shall carry out ecosystem services study, aquatic bio-diversity study and up-stream and down-stream study for the said nallah. PP shall also obtain necessary permission from the State Irrigation Department for diverting the said nallah.

PP further submitted that 45 m barrier will be left from the Badmahi River and no mining activity shall be carried out in that area. Committee opined that thick plantation shall be done with the native species in the barrier to be left along with the Badmahi river and a 2 year time bound action plan in this regard shall be submitted along with the budgetary provisions.
20. Overall power demand will be approximately 2 MVA for initial year of operation and the same shall ramp up to 6.5 MVA for life of mine. Power will be received at Substation-1 at 33 kV from nearby substation. No High-Tension/Transmission Line is proposed for

diversion.

21. The afforestation plan shall be done progressively covering an area of 326.23 ha at the end of mining including Green belt of 10.69 Ha, Backfilled area 166.89 Ha, reclamation of External OB dump of 129.35 Ha, Safety Zone and Road and Infrastructure area of 19.3 Ha. Density of plantation shall be 2500 plants per Ha.
22. Committee observed that out of 326.01 ha quarry, 159.12 ha void with 30 meter depth will be created. PP should give the plan to reduce the area of void.
23. Committee observed that the instant project involves the rehabilitation and resettlement of the 5 villages falling within the ML area. Total 5 Nos. of villages (Balodar, Gali, Hahe, Gondulpara and Phulang) present inside the mine lease area in which 3 Nos. of villages i.e. Balodar, Gali, Gondulpara villages to be shifted fully and rest Hahe & Phulang villages will be shifted partially. The land outsees will be given rehabilitation and resettlement benefits according to the Govt. of Jharkhand R&R Policies and prevailing practice in industries in the vicinity.
24. The project cost of the said project is Rs. 1617.27 Crore.
25. 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.
26. Committee deliberated on the written submissions made by the PP and found the same to be satisfactory.

Recommendations of the Committee:

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

Specific ToRs:

- i. Project Proponent shall submit the drone video & photographs of the ML area and transportation route proposed for this project with special focus on the sensitive receptors in the ML area and in the transportation route.
- ii. Project proponent shall submit the Stage – I forestry clearance on the 219.80 Ha of forest land involved in the mine lease area and 65.228 Ha of forestland outside the ML area proposed to be used for OB dumping.
- iii. Project proponent shall submit an action plan for relocation of four schools located within the ML area and schools in close vicinity to the lease area in consultation with the State Government of Chhattisgarh.
- iv. PP shall submit a letter from the State Forest Department for the impact on the baseline data of the forest area due to the mining activities of the instant project.
- v. Biodiversity analysis of the core zone and buffer zone of the ML area shall be done through any reputed institutions having NABET accreditation. The study report shall inter-alia include impact of mining on flora and fauna and action plan for complying

with the mitigation measures shall be submitted. The Ecology and biodiversity study should include likely impact of land use change in terms of use of forest area for surface infrastructural development in relation to the climate change of that area and what will be the affect after adopting the mitigation measures.

- vi. PP shall explore the possibilities of utilization of OB material for different purposes (in construction of roads/ manufacture of artificial sand, aggregates/ use for farmers etc.) and accordingly Plan shall be included in EIA/EMP Report.
- vii. Project proponent shall explore the feasibility of OB dumping in the mines adjacent to the said coal mine, as per the provisions of OM dated 31.01.2025 issued by MoC. Feasibility report in this regard shall be annexed to the EIA/ EMP report.
- viii. Project proponent to prepare Environmental Cost Benefit Analysis for the project in EIA/EMP Report.
- ix. Impact of proposed project/activity on hydrological regime of the area shall be assessed and report be submitted. Hydrological studies as per GEC 2015 guidelines to be prepared and submitted.
- x. Project proponent shall prepare Watershed management plan for Badmahi river through a reputed institutions having NABET accreditation. Project proponent shall submit the same along with the matrix containing action plan including that thick plantation shall be done with the native species in the barrier to be left along with the Badmahi river within 2year time, to comply with the recommendations of the study report with physical & financial outlay.
- xi. The socio-economic study shall be conducted with actual survey report and a comparative assessment to be provided from the census data of 2011-part B to be provided in EIA/ EMP report also economic status of the study area and what economically project will contribute should be clearly mention. The study should also include the status of infrastructural facilities and amenities present in the study area and a comparative assessment with census data of 2011 part A to be provided and to link it with the initialization and quantification of need based survey for CER activities to be followed.
- xii. A detailed traffic study along with presence of habitation in 100 mts distance from both side of road, the impact on the air quality and noise quality with its proper measures and plan of action with timeline for widening of road. The project will increase the no. of vehicle along the road which will indirectly contribute to carbon emission so what will be the compensatory action plan should be clearly spell out in EIA/ EMP report.
- xiii. Project proponent shall prepare the EIA-EMP report and thereafter conduct the Public Consultation, including public hearing, through concerned SPCB in the Hazaribagh District as per the provisions/procedure contained in the EIA Notification, 2006.
- xiv. PP shall submit the EIA/EMP report after the plagiarism check using authenticated plagiarism software.
- xv. As per the Ministry's OM dated 30.09.2020, to address the concerns raised during Public Hearing, Project Proponent is required to submit the detailed activities proposed with year wise budgetary provision for next 5 years (Capital and recurring). Activities proposed shall be part of EMP.

- xvi. PP should provide in the EIA Report details of all the statutory clearances, permissions, no objection certificates, consents etc. required for this project under various Acts, Rules and regulations and their status or estimated timeline after grant of EC.
- xvii. The PP should submit the number of saplings to be planted in area to be covered under afforestation & green belt, location of plantation, target for survival rate and budget earmarked for the afforestation & green belt development. In addition to this PP should show on a surface plan (5-year interval for life of mine) of suitable scale the area to be covered under afforestation & green belt clearly mentioning the latitude and longitude of the area to be covered during each 5 years. The capital and recurring expenditure to be incurred needs to be submitted. Plantation plan should be prepared in such a way that 80% of the plantation to be carried out in first 5 years and for the remaining years the proposal for gap filling. The seedling of height not less than 2 meters to be selected and accordingly cost of plantation needs to be decided. In addition to this plantation in the safety zone at lease boundary the plantation should be completed within 2 years only. PP should submit a concurrent plantation plan.
- xviii. Project Proponent should submit the quantity of surface or ground water to be used for this project. The complete water balance cycle need to be submitted. In addition to this PP should submit a detailed plan for rain water harvesting measures to be taken. The PP should submit the year wise target for reduction in consumption of the ground/surface water by developing alternative source of water through rain water harvesting measures. The capital and recurring expenditure to be incurred needs to be submitted.
- xix. PP should give the plan to reduce the area of void because out of 326.01 ha quarry, 159.12 ha void with 30 meter depth will be created
- xx. Project Proponent shall obtain water withdrawal permission from CGWA for 1386 KLD.
- xxi. Project Proponent shall obtain permission from the Water Resource Department for diversion of tributary of Badmahi river and copy of the same shall be submitted.
- xxii. Project Proponent should clearly bring out the details of the manpower to be engaged for this project with their roles /responsibilities/designations. In addition to this PP should mention the number and designation of person to be engaged for implementation of environmental management plan (EMP). The capital and recurring expenditure to be incurred needs to be submitted.
- xxiii. Project Proponent should submit the year-wise, activity wise and time bound budget earmarked for EMP, occupational health surveillance, and activities proposed to address the issues raised during Public Hearing. The capital and recurring expenditure to be incurred needs to be submitted.
- xxiv. In case of ground water abstraction/intersection, the PP shall comply with the Ministry's OM dated 23/05/2019. Compliance status needs to be presented before EAC at the time of appraisal.
- xxv. Project Proponent should clearly bring out that what is the specific diesel consumption ~ (Liters/Tonne of total material handled) and steps to be taken for reduction of the same. The year-wise target for reduction in the specific diesel consumption needs to be submitted. PP shall also explore the possibility of using e-vehicles/LPG/CNG-based machinery and trucks for the operation and transportation of coal.

- xxvi. All the certificates viz. Involvement of Forest land, distance from protected area, and list of flora & fauna should be duly authenticated by the Forest Department. The Certificate should bear the name, designation, official seal of the person signing the certificate and dispatch number.
- xxvii. Details on waste water generation (Industrial and domestic), their treatment (technology, methodology and capacity) and disposal to be submitted.
- xxviii. Details on renewable energy proposed to be installed as energy conservation measures shall be submitted.
- xxix. PP shall submit the action plan to adhere to the Plastic Waste Management Rules 2016 and to adhere Ministry's OM dated 18/07/2022.
- xxx. PP shall submit design details of all Air Pollution control equipment (APCEs) to be implemented as part of the Environment Management Plan vis-à-vis reduction in the concentration of emission for each APCE.
- xxxi. The PP should ensure that only NABET accredited consultant shall be engaged for the preparation of EIA/EMP Reports. PP shall ensure that accreditation of consultant shall be valid during the collection of baseline data, preparation of EIA/EMP report and during the appraisal process. The PP and consultant should submit an undertaking the information and data provided in the EIA Report and submitted to the Ministry are factually correct and PP and consultant are fully accountable for the same.
- xxxii. The PP should submit the photographs of monitoring stations & sampling locations. The photograph should bear the date, time, latitude & longitude of the monitoring station/sampling location. In addition to this PP should submit the original test reports and certificates of the labs which will analyse the samples.
- xxxiii. The R&R Plan shall be prepared in consultation with the district collector for the 8 villages namely- Pelma, Urba, Maduadumar, Lalpur, Hinjhar, Jarhidih, Sakta & Milupara village.
- xxxiv. Project proponent is advised to implement the '*Ek Ped Maa Ke Naam*' Campaign which was launched on 5th June 2024 on the occasion of the World Environment Day to increase the forest cover across the Country. This plantation drive is other than Green belt development.
- xxxv. 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.

25th SEPTEMBER, 2025 [THURSDAY]

Agenda No. 32.7:

32.7: Gondbahera Ujheni East underground Coal Mine (having production capacity 3 MTPA within the ML area of 1130 Ha) **by M/s Mahan Energen Limited**, located at villages: Majhauri, Ujjaini, Pachaur & Kunda; Tehsil; Deosar; **District: Singrauli; State: Madhya Pradesh – Environment Clearance – reg.**

[Online Proposal No. IA/MP/CMIN/549647/2025; Consultant: VARDAN ENVIRONET LLP, NABET/EIA/2326/RA 0284 _Rev.01, valid up to 04.05.2026]

32.7.1: M/s Mahan Energen Limited has made an application online vide proposal no. IA/MP/CMIN/549647/2025 dated 08.09.2025 along with the copy of EIA/EMP report, CAF & Form seeking Environment Clearance (EC) under the provisions of the EIA Notification, 2006 for the project mentioned above. The proposed project activity is listed at item no. 1(a) Mining of minerals Under Category “A” of the schedule of the EIA Notification, 2006 and appraised at Central Level. The project does not attract General Conditions as specified in Schedule of the EIA Notification, 2006.

Gondbahera Ujheni East Coal Mine (having production capacity 3 MTPA within the ML area of 1130 Ha), is a Greenfield underground coal mining project located at villages: Majhauri, Ujjaini, Pachaur & Kunda; Tehsil; Deosar; District: Singrauli; State: Madhya Pradesh.

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

32.7.2: Environmental Site Settings:

The project area is covered under Survey of India Topo-sheet No. 63L/8 (G44W8) and is bounded by the geographical coordinates ranging from 24°8’31” N to 24°10’44” N and Longitude 82°22’25” E to 82°25’7” E.

Project does not fall in the Critically Polluted Area (CPA)/Severally Polluted Area (SPA), as per CEPI Assessment, 2018. The project falls in the Singrauli district of Madhya Pradesh, which is a Severally Polluted Area (SPA) as per the CEPI Assessment 2018. However, PP has submitted a letter obtained from Madhya Pradesh Pollution Control Board vide letter dated 02.05.2025, wherein it is mentioned that the said project is at a distance of approximately 15.8 km away from specified CEPI area.

Forest Area: The project involves total 469.612 Ha of forestland. Application for forest land diversion for 469.612 Ha has been made vide application no. FP/MP/MIN/QRY/532908/2025 dated 04.04.2025. There is no forestland broken till date and the said project does not involves violation of Van (Sanrakshan Evam Samvardhan) Adhiniyam, 1980.

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

There are 35 species (*Jackal, Grey Wolf, Sambhar, Dhole, Indian Elephant, Wild Cat, Chinkara, Mongoose, Striped Hyena, Indian Porcupine, Common Otter, Indian Pangolin, Honey Badger, Sloth Bear, Leopard, Four-horned antelope, Indian Chevrotain/ Mouse Deer, Indian Civet, Indian Fox, Russel’s Viper, Indian Cobra, Yellow Rat Snake, Indian Python, Bengal Monitor Lizard, Checkered Keelback, Shikra, Pied Hornbill, Tawny Eagle, Pea-fowl, Changeable Hawk-Eagle, Small Minivet, White stork, White Rumped Vulture, White*

Scavenger Vulture, King Vulture) that fall under the Schedule-I category as per the Indian Wildlife (Protection) Amendment Act, 2022. A detailed Wild Life Conservation/Management plan for conservation of Schedule-I species for an amount of Rs 5.61 Crore has been prepared. The Conservation Plan has been recommended by DFO and forwarded to PCCF, Madhya Pradesh vide letter Ref No. 5258 dated 01.09.2025. The plan is yet to be approved.

Mine Lease Details:

S. No.	Govt. Order/Notifications as the case may be	Area (ha)
1.	sting Order No. NA-104/8/2022-NA; dated 10 th October 2022, MoC, GOI.	1130
	Total	1130
2.	Details of LOI (for area outside lease area)	0
	Grand Total	1130

Gondbahera Ujheni East Coal Block, covering an area of 1130 Ha, has been allotted to MP Natural Resources Private Limited for Commercial Coal Mining purpose by GoI, Ministry of Coal vide order no. NA-104/8/2022-NA, Dated 10th Oct 2022 and later MoC has given consent for mine ownership is transfer to M/s Mahan Energen Limited vide letter dated 13th May 2024.

Other Sensitive Receptors:

Project site proximity to sensitive area	Distance in km (within 5 km from the ML area)		
i. Habitation	Village	Distance (Km)	Direction
	Majhauri	Within Lease Area	
	Ujjaini		
	Pachaur		
	Kunda		
	Manihari	0.7	NE
	Jobgarh	1.96	NNE
	Tenduha	3.38	S
	Khekhada	3.45	NNE
	Talwa	3.84	NW
	Baghadih	4.01	NNW
	Barhawatola	4.09	NE
	Daga	4.21	E
ii. School	Schools	Distance (Km)	Direction
	Sardar Balabh Bhai Patel School, Majauri	Within the Lease Area	
	Pachour Middle School	0.1	S
	High School, Ujjaini	0.62	NW
	Jobgarh School	2.0	NE
	Govt. Middle School, Bhaluhi	3.2	NW
	AWC Gram Pidarwah	3.4	S
	Govt. MS.Karkosa - Middle School	3.7	S
	Khekhda Primary School	4.0	NE
	Bright Academy Public School	4.1	NE
	Eklavya Model Residential School	4.7	NE

Project site proximity to sensitive area	Distance in km (within 5 km from the ML area)		
iii. River/ Waterbody	Water body	Distance (km)	Direction
	Bandha Nallah	Passing through the Project Site	
	Sajhwa Nallah	Passing through the Project Site	
	Kanchan Dam	1.4	E
	Kanchanmunda Nallah	1.7	SE
	Kanchan Nallah	3.2	E
	Jurni Nallah	4.6	N
	Mohan Nallah	5.1	SW
	Khakhan Nallah	8.8	N
iv. Forest	Reserved/Protected forests	Distance (In km)	Direction
	Mohanban RF	Inside the Project Site	
	Pidarwah PF	4.0	S
	Teldah PF	6.8	E
	Orgari PF	7.3	N
	Kari PF	7.5	NW
	Purail PF	8.6	W
	Gidher PF	9.0	N
v. Archaeological Survey of India (ASI) protected site	Nil		
vi. Any other	No		

No diversion is proposed for the project, and there has been no previous diversion.

32.7.3: Details of ToR:

Date of applications	ToR letter Details	Date of Accord	ToR Validity
17.04.2025	IA-J-11015/11/2025-IA-II(M)	19.05.2025	18.05.2029

PP obtained CTE from the MPPCB vide Consent No: CTE-63142, dated 30.09.2025, and the same is valid till 31.08.2030.

32.7.4: Details of Mining Plan: Mine Plan and Mine Closure Plan has been approved by Ministry of Coal, GoI, vide letter no. Gondbahera Ujheni East Coal Mine MPMP051/APP00314/2023 dated 28.03.2025.

1. Method of mining to be adopted for the said project shall be underground mining using fully mechanized board and pillar mining method by deploying Continuous Miner technology.
2. Total geological reserve reported are 325.674 MT in the geological block, out of which mineable reserves are 167.587 MT and extractable reserves are 72.394 MT. Percentage of extraction is 22.23 %.
3. There are total 10 workable seams, with thickness ranging between 0.5 to 14.55 m. Grade of Coal is G – 8.
4. Life of mine is 33 years.
5. Only 0.04 Mcum of top soil will be generated and the same will be used in greenbelt development.
6. About 477000 Cum of Over burden will be generated during drivage of drift and shaft. The same will be utilized for the development of embankment.
7. Land use pattern:
 - a. Pre – mining land use pattern:

S. No.	Land Use	Within ML Area (ha)	Outside ML Area (ha)	Total
8.	Agricultural Land	327.925	Nil	327.925
9.	Forest land	469.612	Nil	469.612
10.	Barren Land	81.684	Nil	81.684
11.	Grazing Land	14.11	Nil	14.11
12.	Surface Water Bodies	25.818	Nil	25.818
13.	Habitation/Settlements	35.955	Nil	35.955
14.	Other (Roads & Other infrastructure)	8.08	Nil	8.08
15.	Other (Industrial Use)	166.816	Nil	166.816
Total		1130	Nil	1130

b. Post mining land use pattern:

S. No.	Type	Total Area	Reclaimed Area	Un-reclaimed area
10.	Excavation/Quarry Area:	-	-	-
	(a) Backfilled areas	-	-	-
	(b) Excavated Void	-	-	-
11.	Top Soil Dump	-	-	-
12.	Safety Zone	-	-	-
13.	Road and Infrastructure	21.457	19.237	2.220
14.	Green belt	10.000	10.000	0
15.	UG Entry	2.820	2.820	0
16.	Undisturbed/ Mining right for UG	1095.723	0	1095.723
Total		1130	32.057	1097.943

8. Details of transportation of coal

- In pit to surface:** Coal from the underground will be evacuated to surface through a series of conveyors
- Surface to siding:** Upon reaching the surface, the coal shall be transported through conveyor system (CHP) to SILO point at Railway Siding. Overhead bunkers (15000 T) are proposed in the CHP system. Conveyor length from bunkers to SILO is 330m within lease area and 40 m outside lease area
- Surface to loading:** The coal handling plant shall have facilities for receiving coal from conveyor and loading into rail wagons by Wagon Loading System/Rapid Loading System (RLS). A railway siding which is proposed adjacent to the GBU East Coal Mine at village Majhauri will be used for coal dispatch.

9. Details of reclamation: The afforestation plan shall be made progressively covering an area of 32.057 ha at the end of mining. This will include 19.237 ha for road & infrastructure area and 2.82 ha for UG Entry. Apart from this, greenbelt will be developed in an area of 10 Ha.

10. Density of plantation shall be 2500 plants per Ha.

32.7.5: Baseline Data:

Period	March to May 2025	Additional Study (if any)
AAQ parameters at 20 Locations (min and max)	Core Zone: $PM_{10} = 49.90 \text{ to } 74.80 \mu\text{g}/\text{m}^3$ $PM_{2.5} = 27.30 \text{ to } 43.70 \mu\text{g}/\text{m}^3$ $SO_2 = 6.00 \text{ to } 17.10 \mu\text{g}/\text{m}^3$	

Period	March to May 2025	Additional Study (if any)
	<p>NO_x = 8.00 to 29.70 µg/m³ = 0.51 to 0.81 mg/m³ Buffer Zone: PM₁₀ 29.80 to 72.80 µg/m³ PM_{2.5} = 15.90 to 42.10 µg/m³ SO₂ = 6.0 to 14.90 µg/m³ NO_x = 7.10 to 25.0 µg/m³ = 0.50 to 0.72 mg/m³</p>	
Incremental GLC Level	<p>Core Zone: PM₁₀ = 0.061 to 8.95 µg/m³ PM_{2.5} = 0.38 to 5.55 µg/m³ SO₂ = 0.03 to 0.51 µg/m³ Nox = 0.04 to 0.67 µg/m³ = 0.00003 to 0.000017 µg/m³ Buffer Zone: PM₁₀ = 0.07 to 0.66 µg/m³ PM_{2.5} = 0.03 to 0.41 µg/m³ SO₂ = 0.0006 to 0.018 µg/m³ Nox = 0.00 to 0.003 µg/m³ = 0.0000001 to 0.0000013 µg/m³</p>	
Ground water quality at 10 Locations	<p>pH: 7.16 to 7.95, Total Dissolved solids: 297 to 574 mg/l; Hardness: 126.57 to 296 mg/l; Chlorides: 43.4 to 79.2 mg/l, Fluoride: 0.31 to 0.86 mg/l. Heavy metals Fe: 0.4 to 0.78 mg/l, Zinc as Zn: 0.29 to 0.58 mg/l, Copper as Cu: BLQ(LOQ-0.05) to 0.22 mg/l, Cyanide as CN: BLQ(LOQ-0.02) mg/l, Aluminium as Al: BLQ(LOQ-0.03) mg/l, Boron: BLQ(LOQ-0.2) mg/l, Chromium as Cr: BLQ(LOQ-0.05) mg/l, Phenolic Compound: BLQ(LOQ-0.1) mg/l, Manganese as Mn: BLQ(LOQ-0.05) mg/l, Cadmium as Cd: BLQ(LOQ-0.05) mg/l, Lead as Pb: BLQ(LOQ-0.05) mg/l, Selenium as Se: BLQ(LOQ-0.005) mg/l, Arsenic as As: BLQ(LOQ-0.005) mg/l, Mercury as Hg: BLQ(LOQ-0.0005) mg/l, Total Coliform: <1.8 MPN/100ml.</p>	
Surface water quality at 8 Locations	<p>All the Parameters Like pH varies from 7.12 to 7.92, Total Hardness varies from 110.96 to 211.19 mg/l, Total Dissolved Solids varies from 218 to 411 mg/l, Dissolved Oxygen varies from 5.7 to 6.8 mg/l, BOD: 6.0 to 22 mg/l. COD from 12 to 60 mg/l. Fe: 0.27 to 0.51 mg/l, Aluminium as Al: BLQ(LOQ-0.03), Boron: BLQ(LOQ-0.2), Chromium as Cr: BLQ(LOQ-0.05), Phenolic Compound: BLQ(LOQ-0.1), Zinc as Zn: 0.18 to 0.35 mg/l, Copper as Cu: BLQ(LOQ-0.05) to 0.19 mg/l, Manganese as Mn: BLQ(LOQ-0.05) mg/l, Cadmium as Cd: BLQ(LOQ-0.05) mg/l, Total Coliform: 350 to 900 MPN/100ml., E. Coli: 170 to 500 MPN/100ml etc. are found within the permissible limits.</p>	
Noise levels Leq (Day and Night)	<p>Core Zone (Residential Zone) 45.27 to 52.32 dB(A) for the day time and 37.11 to 42.87 dB(A) for the Night time. Buffer Zone (Silent Zone) 43.89 to 45.2 dB(A) for the day time and 34.51 to 34.6 dB(A) for the Night time. Buffer Zone (Commercial Zone) 54.6 to 54.6 dB(A) for the day time and 47.1 to 47.1 dB(A) for the Night time. Buffer Zone (Residential Zone) 43.9 to 53.18 dB(A) for the day time and 36.0 to 43.62 dB(A) for the Night time.</p>	
Traffic assessment study findings	<p>90% of the total coal produced is proposed to be transported by rail and 10% of the total coal production is proposed to be transported by road to the nearby small scale industry users. The transportation</p>	<p>ffic Study Report mitted along</p>

Period	March to May 2025	Additional Study (if any)																														
	<p>of coal is proposed by a series of conveyors and men's transportation is proposed by chair lift arrangements. Out of the total excavation 3.0 MTPA only 10% coal (0.3 MTPA) will be transported through road. The density of heavy vehicles was comparatively low. For the transportation of 0.3 MTPA coal a detailed traffic study given below-</p> <p>Traffic study has been conducted at NH 39 which is approximately 5.55 Km (distance) from the mine site.</p> <p>Existing level of service (LOS) is:</p> <table><tr><th>Road</th><th>V (Volume in PCU/day)</th><th>C (Capacity in PCU/day)</th><th>V/C Ratio</th><th>LOS</th></tr><tr><td>Approach PWD Road (Near Baghadih village)</td><td>1123</td><td>6000</td><td>0.18</td><td>A</td></tr><tr><td>NH-39 (Near Odagadi village)</td><td>11469</td><td>35000</td><td>0.32</td><td>B</td></tr></table> <p>PCU load after proposed project will be 1123(Existing) +279 & 11469+279 (Additional) PCU/hr and level of service (LOS) will be:</p> <table><tr><th>Road</th><th>Existing/Proposed V (Volume in PCU/day)</th><th>C (Capacity in PCU/day)</th><th>V/C Ratio</th><th>LOS</th></tr><tr><td>Approach PWD Road (Near Baghadih Village)</td><td>1402</td><td>6000</td><td>0.23</td><td>B</td></tr><tr><td>NH-39 (Near Odagadi village)</td><td>11748</td><td>35000</td><td>0.33</td><td>B</td></tr></table> <p>Note: Capacity as per IRC- 64-1990 Guide line for capacity for roads.</p> <p>Conclusion: The level of service (LOS) will change from Excellent to Very Good for approach PWD Road and will remain same for NH-39, after including additional traffic due to proposed project.</p>	Road	V (Volume in PCU/day)	C (Capacity in PCU/day)	V/C Ratio	LOS	Approach PWD Road (Near Baghadih village)	1123	6000	0.18	A	NH-39 (Near Odagadi village)	11469	35000	0.32	B	Road	Existing/Proposed V (Volume in PCU/day)	C (Capacity in PCU/day)	V/C Ratio	LOS	Approach PWD Road (Near Baghadih Village)	1402	6000	0.23	B	NH-39 (Near Odagadi village)	11748	35000	0.33	B	with the EIA/ EMP report
Road	V (Volume in PCU/day)	C (Capacity in PCU/day)	V/C Ratio	LOS																												
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Approach PWD Road (Near Baghadih Village)	1402	6000	0.23	B																												
NH-39 (Near Odagadi village)	11748	35000	0.33	B																												
Flora and fauna	<p>There are no wildlife sanctuaries in 10 km radius of the project. There are 35 species that fall under the Schedule-I category as per the Indian Wildlife (Protection) Amendment Act, 2022.</p> <p>A detailed Wild Life Conservation/Management plan for conservation of Schedule-I species for an amount of Rs 561 Lakhs has been prepared. The Conservation Plan has been approved by DFO and forwarded to PCCF, Madhya Pradesh vide letter Ref No. 5258 dated 01.09.2025.</p>																															
Water requirement	<p>Ground Water Intersection: The post-monsoon water level varies from 2.94 m to 8.00 m below ground level. In the pre-monsoon period, it varies from 4.13 m to 10.00 m below ground level. Intersection of Ground water will be done for which, permission from CGWA has been obtained vid NOC no. NOC/MIN/MP/2025/743/N dated 09.06.2025</p> <p>Water Requirement: 1650 KLD</p> <p>NOC (For Surface Water): Not Applicable</p> <p>NOC (Ground Water): Yes, permission from CGWA has been obtained vid NOC no. NOC/MIN/MP/2025/743/N dated 09.06.2025</p>	Comprehensive Hydrogeological report submitted along with EIA/ EMP report																														

32.7.6: Details of Water Requirement: The water requirement for the said project is 1650 KLD. Permission from CGWA has been obtained vid NOC no. NOC/MIN/MP/2025/743/N dated 09.06.2025. PP also submitted that no water body is proposed to be diverted in the instant project.

32.7.7: Public Consultation/ Hearing:

Details of advertisement given	09.07.2025
Date of public consultation	12.08.2025
Venue	J.P. School Mor, Village-Majhauri, Tehsil - Bargawan, District-Singrauli (M.P.)
Presiding Officer	<ul style="list-style-type: none"> Sanjeev Kumar Pandey, Additional Collector, Sing Shri Sanjeev Mehra, Regional Officer, M.P. Pollution Control Board, Singrauli Region
Number of Person Attended Hearing	2000
Number of representation received in writing from the district and outside of district, please give details:	written representations 10 and oral representation are 30
Major issues raised	<ul style="list-style-type: none"> Adequate environmental protection measures. Massive afforestation. Health Care Facilities, Solar street lighting, community Centre

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

S. No.	Proposed Activities under Public Hearing Commitment Scheme	Place of Implementation	Phasing of Allocated proposed PH Commitment Budget, Rs. Lakhs						
			FY 26- 27	FY 27-28	FY 28-29	FY 29-30	FY 30-31	Capital Budget (in lakhs)	Recurring budget (in lakhs)
1.	Education	- Majhauri, Kunda							
	Providing clean drinking water and sanitation facilities in schools in ML area		10	10	10	-	-	30	10
	Construction of Primary school/Higher Secondary School		8	15	15	15	15	68	7
	Renovation of Primary school/Higher Secondary School Conversion to smart Anganwadis.		4	7	10	10	10	41	5
	Distribution of bicycles to Bonafide students		3	3	5	5	5	21	4
2.	Health	- Majhauri, Ujjaini, Pachaur, Kunda	100	50	0	0	0	150	50
	Development of regional Healthcare unit including snake bite treatment centre		18	0	0	0	0	18	4
	Provision of 1 Ambulance & Health Camps		3.50	3.50	3.50	3.50	3.50	17.5	3
3.	Infrastructure Development	Majhauri, Ujjaini, Pachaur, Kunda							
	Construction and repair of road, Bridges, ponds etc		22	40	35	30	20	147	20
	Physical Work:		40	10	15	25	30	120	35

S. No.	Proposed Activities under Public Hearing Commitment Scheme	Place of Implementation	Phasing of Allocated proposed PH Commitment Budget, Rs. Lakhs						
			FY 26- 27	FY 27-28	FY 28-29	FY 29-30	FY 30-31	Capital Budget (in lakhs)	Recurring budget (in lakhs)
	Strengthening/maintenance of village roads, Rain Water Harvesting at Community Area, Construction of Cowshed Solar streetlights in Community Area, Rejuvenation of the existing village pond Construction of new ponds Development of check dams Installation of settling tanks								
4.	Agricultural Facilities Physical Work: Donation of seeds, saplings, manure to needy farmers, Financial assistance for Irrigation facilities, Construction of farm ponds for needy farmers, Conducting Training programs on modern agricultural techniques to enhance productivity once every three months in consultation with the Krishi Vigyan Kendra, Singrauli.	Majhauri, Ujjaini, Pachaur, Kunda,	5	30	25	15	15	90	7
5.	Skill Development Skill Development Training Center (Skill Development Training for operators, fitters, electricians) Training centers for Ladies (stitching, Embroidery, tailoring etc.)	Ujjaini, Kunda	25	25	20	10	10	90	20
6.	Plantation/Environment Management Plantation in schools present within ML area and in vicinity Avenue Plantation in consultation with gram panchayats of the study area. Distribution of Saplings to Local Villagers Block Plantation around Government Buildings	Majhauri, Ujjaini, Pachaur, Kunda,	10	10	12	12	12	56	8
Total								848.5	173

32.7.8: Project Cost and EMP Cost: The capital cost of the proposed project is Rs. 204700 Lakhs and the capital cost for environmental protection measures is proposed as Rs. 3765.632 Lakhs. The annual recurring cost towards the environmental protection measures is proposed as Rs. 482.0572 Lakhs. The employment generation from the proposed project is 1083 through direct and indirect employment.

S. No.	Description of Item	Proposed In (Lakh)	
		Capital Cost (In Lakh)	Recurring Cost/annum (In Lakhs)
(i)	Pollution Control	100	50
(ii)	Water Management	90	50
(iii)	Online Ambient Air Quality Monitoring Station	200	20
(iv)	Online Effluent/ flow Monitoring Station	20	5

S. No.	Description of Item	Proposed In (Lakh)	
		Capital Cost (In Lakh)	Recurring Cost/annum (In Lakhs)
(v)	ETP {Oil Water Separator (Workshop)} and STP	30	2
(vi)	Plantation nursery and Greenbelt Development	200	50
(vii)	Environment Lab Establishment/ Environment Monitoring	60	20
(viii)	Gap Plantation & Biodiversity	150	0
(ix)	Planation within the community Area/ Gap Plantation	1200	120
(x)	Soil Conservation Plan	70	10
(xi)	Pond (Water Bodies) Rejuvenation and Conservation Activities	95.56	10
(xii)	Budget for Public hearing issues	668.5	113
(xiii)	Budget for Green belt development	320.572	32.0572
(xiv)	Budget for Wildlife Management Plant	561.0	0
Total		3765.632	482.0572

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

S. No.	Type of Waste	Source	Quantity (TPA)	Mode of Treatment	Disposal
6.	Municipal Solid waste	Domestic waste from site office, Canteen etc.	89.34	Authorized Vendors	Disposed off as per the solid waste management rule, 2016
7.	Plastic Waste	Site office, Canteen etc.	4.5	CB/SPCB Authorized recycling Vendors	Waste Management (Amendment) Rules, 2024
8.	Electronic Waste	Computers, switches, cables etc.	0.3	Authorized Vendors	per E- Waste (Management) Rules, 2022
9.	Used Batteries	Vehicles at sites	0.5	Authorized Vendors	per Batteries Management rules 2022, sold to authorize vendors for recycling/refurbishment.
10.	Biomedical Waste	Primary Health Center	0.1	Setup with Community health center	Yellow & Red
11.	Used Oils, Waste Oil, Empty Oil barrels	Mine Workshop	4.0	Authorized Vendors	Handed over to CPCB/SPCB authorized vendor

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

The project will receive power from nearest 132/33kV substation in Dogari (South side) or Morwa (East side) locations under MP Madhya Kshetra Vidyut Vitaran Company Limited. To cater the demand of power, it is proposed to install 4 x 5 MVA 33/6.6 kV outdoor transformers at proposed substation.

32.7.11: Plantation: Proposed greenbelt will be developed in 10 Ha which is about 29% of the total ML area. Total of 32.057 Ha area will be developed as plantation. A 7.5 m wide

greenbelt, consisting of at least 3 tiers around mine boundary will be developed as greenbelt and green cover as per CPCB/MoEF&CC, New Delhi guidelines. Local and native species will be planted with a density of 2500 trees per hectare. Total no. of 25000 saplings will be planted and nurtured in 10 Ha in 5 years. In addition to this plantation shall be carried out in nearby village community area and Gap Planation in Forest.

32.7.12: Rehabilitation & Resettlement issues: The project does not have rehabilitation and resettlement as the proposed project is an underground mine with limited surface activities.

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

32.7.14: Undertaking/ Affidavit: PP vide an affidavit submitted that, it is a proposed Underground Coal Mine. That there is no construction is done at site. There is no litigation on the project either at Hon'ble NGT or any other court of Law. The Gondbahera Ujheni East Coal Mine has been allotted by Government of India, Ministry of Coal, New Delhi to M/s MP Natural Resources Pvt. Ltd. (MPNRPL) as per Vesting order no. NA-104/8/2022-NA Dated 10 Oct 2022 through auction. Subsequently, coal block ownership was transferred to M/s Mahan Energen Limited (MEL). 34.277 ha land is required for the project out of which 33.10 ha is private land and 1.17 ha is government land. Private land will be purchased directly/through MPLRC (Under Section 247), and R&R is not required for the project. That there is no difference in the documents submitted te, Common Application Form, Form 1, Conceptual Plan, Pre-Feasibility Report and presentation being made to the EAC. That as per EIA Notification dated 14.09.2006, as amended thereof, the coal mining projects having an area > 500 ha falls under the category A of Sr. No. 1 (Mining of Minerals), Project or Activity' 1(a)". Thus, the Gondbahera Ujheni East Underground Coal Mine project having an area of 1130 ha. falls under Category "A". Therefore, we are submitting the project to MoEF&CC. Further, the company undertook that the contents of this declaration are true and correct to best of my knowledge and belief, that nothing has been concealed.

32.7.15: Written submission: PP submitted the following information during the meeting:

1. A budget of Rs. 668.5 lakhs (capital) was earmarked for implementation of issues raised in the public hearing. A revised plan for addressing public hearing issues including development of regional healthcare unit and Snakebite Treatment Centre is submitted. The budget for addressing public hearing issues is now enhanced to Rs. 848.5 lakhs (capital).
2. There are two schools present within our mining lease area. They will not be disturbed or relocated due to our underground mining operations. Further, plantation will be carried out and sanitation facilities will be provided including clean drinking water in both schools. A provision for the same has been earmarked in the revised public hearing action plan.
3. Since it is an underground mining project, there may be risks associated to surface subsidence due to mining activity. A scientific study for prediction of subsidence through 3D modelling has been conducted by CSIR- CIMFR, Dhanbad, based on the outcome of study, there will be no significant impact on surface due to subsidence till end of UG mine, as subsidence management techniques are considered in the study. During the operation phase of the project, continuous monitoring of subsidence will be carried out and subsidence management measures shall be taken up as per CMR

2017 and DGMS guidelines. Any damage resulted due to surface subsidence will be compensated by the company, an undertaking in this regard is submitted.

4. Two numbers of Continuous Ambient Air Quality Monitoring Stations (CAAQMS) shall be installed in mine lease area, an undertaking in this regard is submitted.
5. Solar power panels shall be provided and maintained within mine lease area and in schools, community buildings and government buildings in our vicinity. An undertaking regarding the same is submitted.
6. Our proposed project is located at a distance of 15.8 km from Severely Polluted Area of Singrauli. A letter from Member Secretary, MP State Pollution Control Board dated 2.5.2025 indicating the same is submitted.

Deliberations and Observation of the Committee:

32.7.16: The Committee noted the following:

1. The instant proposal is a Greenfield project for grant of Environment Clearance (EC) of Gondbahera Ujheni East Coal Mine (having production capacity 3 MTPA within the ML area of 1130 Ha) by M/s Mahan Energen Limited, located at villages: Majhauri, Ujjaini, Pachaur & Kunda; Tehsil; Deosar; District: Singrauli; State: Madhya Pradesh.
2. Project does not fall in the Critically Polluted Area (CPA)/Severally Polluted Area (SPA), as per CEPI Assessment, 2018. The project falls in the Singrauli district of Madhya Pradesh, which is a Severally Polluted Area (SPA) as per the CEPI Assessment 2018. However, PP has submitted a letter obtained from Madhya Pradesh Pollution Control Board vide letter dated 02.05.2025, wherein it is mentioned that the said project is at a distance of approximately 15.8 km away from specified CEPI area.
3. Committee observed that, the instant proposal accorded ToR on 19.05.2025. It was apprised to the EAC that as per the Ministry's O.M. dated 14.01.2025, wherein it has been decided that MoEF&CC while granting Terms of Reference (ToR) shall forward the copy of ToR parallelly to the concerned SPCB with request to upload their comments for incorporating the CTE conditions in the EC itself. PP has obtained CTE from the MPPCB vide Consent No: CTE-63142, dated 30.09.2025, and the same is valid till 31.08.2030. Committee opined that PP shall comply with all the conditions prescribed by the MPPCB in the CTE dated 30.09.2025.
4. The project involves total 469.612 Ha of forestland. Application for forest land diversion for 469.612 Ha has been made vide application no. FP/MP/MIN/QRY/532908/2025 dated 04.04.2025. There is no forestland broken till date and the said project does not involves violation of Van (Sanrakshan Evam Samvardhan) Adhiniyam, 1980. Member Secretary apprised the EAC that, as per OM dated 09/09/2011, after the EAC has recommended the project for environmental clearance, it would be processed on file for obtaining decision of the Competent Authority for grant of environmental clearance. In the cases where the Competent Authority has approved the grant of environmental clearance, the proponent will be informed of the same and a time limit of 12 months will be given to submit the requisite Stage – I forestry clearance. On receipt of the same, formal EC letter will be issued by the Ministry.
5. The project is not located within 10 KM of any ESZ/ ESA/ national park/ wildlife

sanctuary/ biosphere reserve/ tiger reserve/ elephant reserve/tiger corridor/elephant corridor etc. There is presence of Schedule – I species present within the ML area. A wildlife Conservation/Management plan for conservation of Schedule-I species for an amount of Rs 5.61 Crore has been prepared. The same is yet to be approved. Committee opined that, the same shall be approved by the competent authority and shall be accordingly implemented.

6. Committee observed that, Gondbahera Ujheni East Coal Block, covering an area of 1130 Ha, has been allotted to MP Natural Resources Private Limited for Commercial Coal Mining purpose by GoI, Ministry of Coal vide order no. NA-104/8/2022-NA, Dated 10th Oct 2022 and later MoC has given consent for mine ownership is transfer to M/s Mahan Energen Limited vide letter dated 13th May 2024.
7. Mine Plan and Mine Closure Plan has been approved by Ministry of Coal, GoI, vide letter no. Gondbahera Ujheni East Coal Mine MPMP051/APP00314/2023 dated 28.03.2025.
8. Method of mining to be adopted for the said project shall be underground mining using fully mechanized board and pillar mining method by deploying Continuous Miner technology.
9. Total geological reserve reported are 325.674 MT in the geological block, out of which mineable reserves are 167.587 MT and extractable reserves are 72.394 MT. Percentage of extraction is 22.23 %.
10. Life of mine is 33 years. Grade of Coal is G – 8.
11. Only 0.04 Mcum of top soil will be generated and the same will be used in greenbelt development. About 477000 Cum of overburden will be generated during drirage of drift and shaft. The same will be utilized for the development of embankment.
12. Committee deliberated on the pre-mining and post-mining land use pattern of the said project. Committee observed that, area required for surface rights is 34.277 Ha and the same is proposed in the non-forestland. Committee opined that during the operational phase, continuous monitoring of surface subsidence shall be carried out. All subsidence management measures shall be implemented strictly in accordance with the provisions of the Coal Mines Regulations, 2017 (CMR 2017) and the guidelines issued by DGMS. Committee further opined that any damage to property, infrastructure, or community assets which may arise due to subsidence will be fully compensated by the company. PP submitted an undertaking in this regard.
13. Committee deliberated on the coal transportation of the said project and observed that from the in-pit to surface the coal is proposed to be transported by series of conveyor. From surface to siding the coal is proposed to be transported by conveyor system (CHP) to SILO point at Railway Siding. Overhead bunkers (15000 T) are proposed in the CHP system. Conveyor length from bunkers to SILO is 330m within lease area and 40 m outside lease area. The coal handling plant will have facilities for receiving coal from conveyor and loading into rail wagons by Wagon Loading System/Rapid Loading System (RLS). A railway siding which is proposed adjacent to the GBU East Coal Mine at village Majhauili will be used for coal dispatch. Only

10% of the total coal production will be transported by road to the nearby small scale industry users. Committee opined that PP shall carryout regular maintenance of the potholes on roads, repair and maintenance of roads, scrapping of material fallen on roads, and removal of scraps from mining areas. Committee also opined that PP shall do intense plantation with the native species on both the side of the coal transportation road to further control the dust and noise pollution, within 2 years.

14. Committee deliberated on the baseline data submitted by the PP and observed that, data collection has been done during March – May 2025. All the parameter have been found to be within the permissible limits. Committee opined that PP shall install 2 CAAQMS within the said ML area, within 1 year from the date of grant of EC.
15. Committee deliberated on the water requirement for the said project and observed that, the water required for the said project is 1650 KLD. Permission from CGWA has been obtained vid NOC no. NOC/MIN/MP/2025/743/N dated 09.06.2025. PP also submitted that no water body is proposed to be diverted in the instant project. Committee opined that, PP shall include the budget for pond rejuvenation in the public hearing budget. PP submitted updated Public Hearing plan.
16. Committee deliberated on the public hearing held on 12.08.2025 for the said project. Approx. 2000 people attended the PH and 10 written representations and 30 oral representations were received for the said project. The major issues raised were related to environmental protection, massive afforestation, healthcare facilities, solar street lighting and community centre. PP submitted a public hearing action plan in accordance to the MoEF&CC OM dated 30.09.2020. Committee opined that PP shall include the budget for development of regional healthcare unit and snakebite treatment centre and pond rejuvenation plan and accordingly update the said PH budget. PP submitted and updated PH plan with the budget of Rs. 848.5 Lakhs.
17. Apart from this, Committee opined that PP shall carry out plantation in the schools present within the ML area and shall make provisions for supply of water for plantation and sanitation. PP submitted the same in the update PH action plan.
18. Committee also opined that the PP shall install the solar lights within the ML area, schools, hospitals and mine infrastructure.
19. Further, Committee deliberated on EMP budget submitted by the PP and observed that, the capital cost for environmental protection measures is proposed as Rs. 3765.632 Lakhs and the annual recurring cost towards the environmental protection measures is proposed as Rs. 482.0572 Lakhs/Annum. Committee opined that the same shall be efficiently implemented in a time – bound manner.
20. The project will receive power from nearest 132/33kV substation in Dogari (South side) or Morwa (East side) locations under MP Madhya Kshetra Vidyut Vitaran Company Limited. To cater the demand of power, it is proposed to install 4 x 5 MVA 33/6.6 kV outdoor transformers at proposed substation.
21. Committee deliberated on the plantation activities proposed for the said project and observed that, greenbelt will be developed in 10 Ha which is about 29% of the total ML area. Total of 32.057 Ha area will be developed as plantation. A 7.5 m wide

greenbelt, consisting of at least 3 tiers around mine boundary will be developed as greenbelt and green cover with in 2 years as per CPCB/MoEF&CC, New Delhi guidelines. Local and native species will be planted with a density of 2500 trees per hectare. Total no. of 25000 saplings will be planted and nurtured in 10 Ha in 5 years. In addition to this plantation shall be carried out in nearby village community area. Watershed plan with gap Planation in Forest area shall be made with the help of Forest department and should be implemented accordingly. Budgetry provision should be submitted accordingly.

22. There is no rehabilitation and resettlement proposed in the said project.
23. There is no legal issue/violation w.r.t i) Environment (Protection) Act, ii) Air(P&CP) Act, Water (P&CP), Act, Van (Sanrakshan Evam Samvardhan) Adhiniyam, Wildlife Protection Act, MMDR Act, Factories Act. Further, there is no court case on the project.

Recommendations of the Committee:

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

A. Specific Conditions:

1. Project proponent shall submit the Stage – I Forest Clearance for diversion of forestland of 469.612 ha involved in the project for non-forestry activity prior to grant of Environment Clearance.
2. Project proponent shall comply with all the conditions prescribed by the MPPCB in the CTE dated 30.09.2025.
3. PP shall ensure that entire UG mine seepage will be pumped to the surface into the sedimentation tank. It will be 100% reutilized within mine for sprinkling & greenbelt irrigation. Excess treated shall be given to nearby farmers for irrigation, villagers for non- potable other use, nearby industries or discharged into nearby stream after ensuring compliance to prescribed norms and prior permission from MPPCB.
4. Project proponent is not permitted to transport the coal by road. Transportation of coal shall be done only by conveyor belt followed by railway as committed. Only 10% of the total coal production shall be allowed by road.
5. Project proponent shall install the solar lights within the ML area, schools, hospitals and mine infrastructure.
6. Project proponent shall carry out plantation in the schools present within the ML area and shall make provisions for supply of water for plantation and sanitation.
7. Project proponent shall fully compensate for the damage to property, infrastructure, or community assets which may arise due to subsidence, as committed.
8. The budget proposed for PH is Rs 848.5 Lakhs. The budget proposed shall be kept

in a separate account and audited annually. Project proponent shall implement the action plan to address the issues raised during public hearing within a time frame of 5 years from the date of grant of EC. PP shall submit the progress report regarding the implementation of action plan to concerned RO along with the six-monthly compliance report.

9. PP shall implement the protective measure proposed in Environment Management Plan (EMP) in a time-bound manner. The budget earmarked for the same is Rs 3765.632 Lakhs (Capital) and Rs 482.0572 Lakhs/Annum (recurring) and should be kept in separate accounts and audited annually. The implementation status along with the amount spent with documentary proof shall be submitted to the concerned Regional Office for the activities carried out during the previous year.
10. No OB shall be dumped on the forestland. PP shall use the OB generated during the installation of mine shaft and mine incline in infrastructure development.
11. PP shall pay to farmers of agricultural land if there is any loss due to pollution found by concerned District Commissioner as per extent rules or norms. Suitable measures for enrichment of nitrogen in the soil will be taken up for improving soil fertility and effective steps will be taken to support the farming community in enhancing the production.

B. STANDARD CONDITIONS:

1. Statutory Conditions:

- i. The Environmental Clearance shall be subject to orders of Hon'ble Supreme Court of India, Hon'ble High Courts, NGT and any other Court of Law, from time to time, and as applicable to the project.
- ii. Mining shall be carried out as per the approved Mining Plan (including Mine Closure Plan) abiding by mining laws related to coal mining and the relevant provisions under CMR, 2017 and circulars issued by Directorate General of Mines Safety (DGMS) from time to time.
- iii. Mining activities shall not be carried out in the forestland, until the Stage - II Forestry Clearance is obtained under the relevant provisions of Van (Sanrakshan Evam Samvardhan), Adhiniyam, 1980, for 469.612 Ha of forestland involved in the ML area.
- iv. The project proponent shall obtain prior approval / clearance from the National Board for Wildlife, if applicable.
- v. In case of the presence of Schedule-I species in the study area, the project proponent shall prepare a Conservation Plan & Wildlife Management Plan which shall be approved by the Chief Wildlife Warden. The recommendations of the approved Conservation Plan / Wildlife Management Plan shall be implemented in consultation with the State Forest Department. The implementation report shall be furnished along with the six-monthly compliance report (in case of the presence of Schedule-I species in the study area).
- vi. The project proponent shall obtain Consent to Operate under the provisions of Air (Prevention & Control of Pollution) Act, 1981 and the Water (Prevention & Control of Pollution) Act, 1974 from the concerned State Pollution Control Board/ Pollution

Control Committee.

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

2. Air Quality Mitigation Measures and Monitoring

- i. Coal handling points like stockyards / sidings shall be equipped with effective control measures like water sprinkling, fog cannons, wind barriers, vertical greenery systems.
- ii. Effective control measures such as regular water sprinkling/rain gun/ fog cannons /mist sprinkling, etc., shall be installed in critical areas like coal transport roads, loading/unloading and transfer points.
- iii. Transportation of the coal through the existing road passing through any village shall be avoided. In such cases, it is proposed to construct a 'bypass' road, such that the impact of sound, dust and accidents could be appropriately mitigated. Major approach roads shall be black topped / made with concrete and properly maintained.
- iv. Vehicular emissions shall be kept under control and regularly monitored. All the vehicles engaged in coal transportation shall operate only after obtaining 'PUC' certificate from the authorized pollution testing centres. The proponent must strive to use electric vehicles / eco-friendly fuel based vehicles as far as possible.
- v. In order to prevent particulates getting airborne and in order to mitigate dust concentrations, proper housekeeping shall be maintained by the project.
- vi. Plantation in core zone and along the coal transportation route shall be taken up within 2 years after issue of EC for control of air pollution. Native tree species shall be selected for plantation.
- vii. It shall be ensured that the ambient air quality parameters conform to the norms prescribed by the Central/State Pollution Control Board.
- viii. For ambient air quality monitoring, at least 4 sampling sites shall be established (of which 1 shall be situated in the upwind direction, 1 in core zone and balance 2 shall be located in the buffer zone - in downwind direction and near receptors) for

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

- ix. The project shall install an automatic weather monitoring station in the core zone. At least 2 online ambient air quality monitoring stations (CAAQMS) for monitoring of PM₁₀, PM_{2.5}, SO₂, NO_x shall be installed - one in core zone and one in buffer zone, in consultation with the SPCB. The data from the CAAQMS shall be connected to CPCB server as well as SPCB server. The calibration of CAAQMS installed shall be carried out as per the calibration protocol for CAAQMS system specified by CPCB and records shall be maintained.

3. Water Quality Mitigation Measures and Monitoring

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

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

4. Noise Prevention and Monitoring

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

5. Risk and subsidence

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

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

6. Land Reclamation

- i. Digital Survey of entire lease hold area/core zone using Satellite Remote Sensing survey shall be carried out at least once in three years for monitoring land use pattern and report in 1:50,000 scale or as notified by Ministry of Environment, Forest and Climate Change (MoEF&CC) and shall be submitted to MoEF&CC/Regional Office (RO).
- ii. Post-mining land be rendered usable as specified in the Guidelines for Preparation of Mine Closure Plan, issued by the Ministry of Coal dated 31st January, 2025 and subsequent amendments. The post closure land form must be safe & stable and should incorporate repurposing activities like renewables, energy efficiency *etc.* as feasible.
- iii. The project proponent shall make necessary alternative arrangements, if grazing land is involved in core zone, in consultation with the State government to provide alternate areas for livestock grazing, if any. In this context, the project proponent shall implement the directions of Hon'ble Supreme Court with regard to acquiring grazing land.
- iv. Project proponent shall implement the 'Ek Ped Maa Ke Naam' Campaign, which was launched on 5th June 2024 on the occasion of the World Environment Day to increase the forest cover across the Country. This plantation drive is other than green belt development. The action in this regard shall be submitted concerned RO in six monthly report.
- v. Greenbelt will be developed in 10 ha which is about 29 % of the total mine infrastructure area. A 5-15 m wide greenbelt, consisting of at least 3 tiers around core zone will be developed within 2 years 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 801423 saplings will be planted and nurtured in 32.057 hectares in 36 years. Thus, the total plantation raised in the mine lease will be over 2.9% of total ML area at the end of the mining. Along with this, Miyawaki plantation shall be carried out and plantation shall also be carried out in the nearby environmentally sensitive receptors.
- vi. Watershed plan with gap Planation in Forest area shall be made with the help of Forest department and should be implemented accordingly. Budgetry provision should be submitted accordingly.

7. Public Hearing and Human Health Issues:

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

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

8. Others:

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

9. Corporate Environment Policy:

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

10. Miscellaneous:

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

commencement of mining operations.

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

Agenda No. 32.8:

32.8: Proposed Coal Washery Plant of 2.5 MTPA Capacity within the project area of 8 Ha, by **M/s Alpha Coal Benefication and Infrastructure LLP**, located at village: Pidartali; Pidartali Industrial Area MPIDC, District: Singrauli; State: Madhya Pradesh - **Prescribing of Terms of Reference – reg.**

[Online Proposal no. IA/MP/CMIN/550526/2025; Consultant: Pollution and Ecology Control Services - NABET Accreditation no. NABET/EIA/2225/RA 0291 – valid up to 16.10.2025]

32.8.1: M/s. Alpha Coal Benefication and Infrastructure LLP has made an online application vide proposal no. IA/MP/CMIN/550526/2025 dated 04/09/2025 along with the application in prescribed format (Form-1), copy of pre-feasibility report for getting Terms of Reference (ToR) for undertaking detailed EIA study as per the EIA Notification, 2006 for the project mentioned above. The proposed project activity is listed 2(a) Coal washeries under Category “A” of the schedule (all schedules pertaining to the project) of the EIA Notification, 2006 and attracts general condition as the proposed project site is within 5 km from the boundary of severally polluted area namely Singrauli. Hence, the proposal is being appraised at Central Level as Category ‘A’ project.

Coal Washery Plant of 2.5 MTPA Capacity within the project area of 8 Ha, is a new project, located at village: Pidartali; Pidartali Industrial Area MPIDC, District: Singrauli; State: Madhya Pradesh.

32.8.2: The Committee noted the following from the proposal submitted by the project proponent:

1. M/s. Alpha Coal Beneficiation and Infrastructure LLP has made an application in appropriate format and along with relevant documents for grant of Terms of Reference for Proposed Coal Washery Plant of 2.5 MTPA Capacity within the project area of 8 Ha, located at village: Pidartali; Pidartali Industrial Area MPIDC, District: Singrauli; State: Madhya Pradesh.
2. Project proponent submitted the application for obtaining terms of reference on Parivesh Portal vide proposal no. IA/MP/CMIN/550526/2025 dated 04/09/2025 for undertaking detailed EIA study as per the EIA Notification, 2006.
3. The Committee deliberated on the instant proposal along with the documents and presentation submitted by the project proponent and observed the following shortcomings:
 - i. Committee deliberated on the alternative sites explored by the PP and observed that, and opined that PP shall submit the environmental parameters of all the sites explored for implementation of the said washery and further opined that a comparative analysis of the environmental parameters of all the sites shall also be presented to the Committee.
 - ii. Committee deliberated on the transportation method to be used for washed coal and reject and opined that no clarity on the same has been provided. Committee sought the clarity on distance of the final consumers to whom the washed coal and rejects is proposed to be transported and the method of transportation to be adopted.
 - iii. Committee further observed that the agenda documents (Annexure – II and Annexure – IV), submitted by the PP are incomplete and the data has not been filled in the prescribed format. Proponent and the consultant are required to carefully fill the required information and the agenda documents shall be timely circulated.
 - iv. The committee advised the proponent to revisit the entire proposal in totality including the above mentioned observations. Thereafter, appropriate changes in all the requisite documents such as common application form, EIA/EMP report and the presentation etc shall be carried out and the proposal shall be submitted afresh for fresh consideration by the EAC.

Recommendations of the Committee:

32.8.3: In view of the foregoing and after detailed deliberations, the EAC *returned the proposal in its present form.*

Agenda Item No. 32.9

32.9: Batura Open Cast Coal Mine Project (having production capacity of 2 MTPA within the ML area of 942.873 Ha) **by M/s South Eastern Coalfields Limited** located at villages: Khanda, Rampur & Beliya; Tehsil: Anuppur & Jaitahari; District: Shahdol & Anuppur; State: Madhya Pradesh - **Amendment in Environment Clearance – reg.**

[Online Proposal no. IA/MP/CMIN/541096/2025; Consultant: CMPDIL: NABET/EIA/25-28/RA 0412 valid till 08/04/2028]

32.9.1: M/s South Eastern Coalfields Limited has made an online application vide proposal no. IA/MP/CMIN/541096/2025 dated 12.06.2025 seeking amendment in Environment Clearance dated 01.02.2021 granted for Batura Opencast Coal Mining project (area: 942.873 Ha having production capacity 2 MTPA), located at Villages Khanda, Rampur and Beliya; Tehsil: Anuppur & Jaitahari; District: Shahdol & Anuppur; State: Madhya Pradesh.

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

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

S. No.	Details of Letter No.	EC/ Expansion EC/ Amendment in EC/ Validity extension/ Transfer of EC	Capacity (MTPA)	ML Area in (Ha)	Date of issuance
1	J-11015/65/2016-IA II (M)	EC	2.00	942.873	01.02.2021

W.r.t the previous approvals, project proponent submitted the actual production details of the concerned mine and submitted that the mine became operational from February 2023 onwards. CTO renewal has been obtained from MPPCB and is valid up to 31.08.2026. 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
2022-23	2.0	0.051	NIL
2023-24	2.0	1.216	NIL
2024-25	2.0	1.701	NIL

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

Specific/ General Condition	Details of Conditions as per EC	Amendment sought	Justification
Specific condition no 4(v) of EC dated 01.02.2021	Transportation of coal from Coal Handling Plant shall be through mechanized covered trucks for 3 years. The conveyor system till railway siding shall be implemented within 3 years.	Transportation of coal from the Coal Handling Plant shall be through mechanized covered trucks. The silo loading system at Railway siding shall be implemented by 31.10.2027. PP shall implement the in-pit conveyor	The mine obtained its Environmental Clearance on 01.02.2021 and fresh Consent to Operate was granted on 26.09.2022. Operations commenced with overburden removal on 30.01.2023, followed by coal production on 17.03.2023. At present, coal is dispatched by rail from Burhar Railway Siding and by road to local consumers. SECL is committed to installing a CHP/Silo with in-pit belt conveyor at the Batura OCP. However, the work involves several sequential activities feasibility and detailed project reports (FSR/DPR) with geophysical investigations, approvals from SECL and Railways, land acquisition, and clearances from multiple agencies—which have contributed to delays. The status is as follows: A. Rail Line Construction <ul style="list-style-type: none"> DPR with geophysical investigation was awarded to M/s IPRCL on 31.03.2021 and finalized on 25.03.2022.

Specific/ General Condition	Details of Conditions as per EC	Amendment sought	Justification
		belt system by 01.01.2030.	<ul style="list-style-type: none"> Project Management Consultancy was subsequently awarded to M/s IPRCL on 24.03.2023. The other allied activities related to track laying are under process. 58.89 Ha land required for the track has been notified vide S.O. 3396(E) dated 24.07.2025 and is under acquisition. Estimated completion: 2 years. <p>B. Silo and Siding Construction</p> <ul style="list-style-type: none"> LOA issued to M/s BDEPL ACBIL UI JV on 26.10.2024; site handed over on 10.02.2025. Work is in progress. Estimated completion: 2 years. <p>C. In-pit Belt Conveyor</p> <ul style="list-style-type: none"> As per mine planning, drivage of the access trench will be completed in the 3rd year, enabling installation of the in-pit conveyor and Truck Receiving Stations (TRS) by the 4th year. Long-term contract (NIT no. GeM-177 dated 28.05.2025) includes provision for coal transportation by tippers to TRS, for onward movement to Silo/CHP via the in-pit conveyor. Estimated completion: 4 years.
Specific condition no 4(xviii) of EC dated 01.02.2021	Toe wall of at least 10 mts height should be constructed along the OB dump.	Toe walls of upto 10 Feet height should be constructed along the OB dump.	<p>Presently, the mine is in its initial stage, with an active quarry area of 89 ha. An external dump, including a topsoil dump, has been developed over 26 ha during 2023–24 and 2024–25. The dump height is maintained within 30 m, with slopes stabilized by grass cover, plantation, and provision of a stone toe wall.</p> <p>In compliance with EC conditions, a 10 m high permanent RCC toe wall was initially proposed. However, the estimated cost of this structure was about 13% of the total project cost, which makes it financially unviable for the company.</p> <p>Considering that the external dump height is restricted to 30m, dumps have already been stabilized for 1–2 years with ongoing reclamation, and the site geology and dump geometry are favourable, a wall of up to 10 ft height is technically adequate and would be more practically stable. It is therefore requested that the condition for construction of a 10 m high toe wall be amended to 10 ft high toe wall along the OB dumps.</p>
Specific condition no 4(xxv) of EC dated 01.02.2021	Mining shall be carried out only by surface miners for the project (as proposed) and silo loading till railway siding through in-pit conveyor should be installed to avoid road transportation in 3 years.	Mining will be carried out by Surface Miner from 01 April 2026, and implementing the silo loading system will be completed by 31.10.2027 and in-pit conveyor should be installed up to Silo by	<p>Justification for delay in deployment of Surface Miner:</p> <p>As per the Project Report, a proposal for procurement of one Surface Miner was initiated, and a tender was floated on 03.08.2021. However, it was cancelled on 09.11.2021 as no technically acceptable offers were received.</p> <p>Subsequently, a note sheet dated 02.07.2023 was initiated for hiring a Surface Miner with in-built dust suppression system and allied equipment. This proposal was not concluded, and a revised proposal was also examined. After due consideration of technical, operational, and financial aspects, it was found unviable and dropped.</p> <p>To address the requirement, a long-term contract (10 years) was formulated, and a tender was floated vide NIT No.</p>

Specific/ General Condition	Details of Conditions as per EC	Amendment sought	Justification
		01.01.2030	<p>GEM-177 dated 28.05.2025. The proposal is presently under technical scrutiny and finalisation at SECL HQ. The contract includes the provision for deployment of Surface Miners, with expected commissioning within 6 months of tender finalisation.</p> <p>The construction of CHP/Silo/Siding, Railway line and In-pit belt conveyor– As per justification provided for Specific condition no 4(v)</p>

32.9.4: Justification regarding delay implementation of Coal handling plant with silo loading system at Railway siding:

The mine obtained its Environmental Clearance on 01.02.2021, and fresh Consent to Operate was granted on 26.09.2022. Operations commenced with overburden removal on 30.01.2023, followed by coal production on 17.03.2023. At present, coal is dispatched by rail from Burhar Railway Siding and by road to local consumers.

SECL is committed to installing a CHP/Silo with in-pit belt conveyor at the Batura OCP. However, the work involves several sequential activities—feasibility and detailed project reports (FSR/DPR) with geophysical investigations, approvals from SECL and Railways, land acquisition, and clearances from multiple agencies—which have contributed to delays. The status is as follows:

A. Rail Line Construction

- DPR with geophysical investigation was awarded to M/s IPRCL on 31.03.2021 and finalized on 25.03.2022.
- Project Management Consultancy was subsequently awarded to M/s IPRCL on 24.03.2023. The other allied activities related to track laying are under process.
- 58.89 Ha land required for the track has been notified vide S.O. 3396(E) dated 24.07.2025 and is under acquisition.
- Estimated completion: 2 years.

B. Silo and Siding Construction

- LOA issued to M/s BDEPL ACBIL UI JV on 26.10.2024; site handed over on 10.02.2025. Work is in progress.
- Estimated completion: 2 years.

C. In-pit Belt Conveyor

- As per mine planning, drivage of the access trench will be completed in the 3rd year, enabling installation of the in-pit conveyor and Truck Receiving Stations (TRS) by the 4th year.
- Long-term contract (NIT no. GeM-177 dated 28.05.2025) includes provision for coal transportation by tippers to TRS, for onward movement to Silo/CHP via the in-pit conveyor.
- Estimated completion: 4 years.

32.9.5: Justification for reduction in Toe wall height from 10 m to 10 feet along OB

dump.

Presently, the mine is in its initial stage, with an active quarry area of 89 ha. An external dump, including a topsoil dump, has been developed over 26 ha during 2023–24 and 2024–25. The dump height is maintained within 30 m, with slopes stabilized by grass cover, plantation, and provision of a stone toe wall.

In compliance with EC conditions, a 10 m high permanent RCC toe wall was initially proposed. However, the estimated cost of this structure was about 13% of the total project cost, which makes it financially unviable for the company.

Considering that the external dump height is restricted to 30m, dumps have already been stabilized for 1–2 years with ongoing reclamation, and the site geology and dump geometry are favourable, a wall of up to 10 ft height is technically adequate and would be more practically stable.

32.9.6: Justification for delay in deployment of Surface Miner.

Proposal for procurement of one Surface Miner was initiated, and a tender was floated on 03.08.2021. However, it was cancelled on 09.11.2021 as no technically acceptable offers were received.

Subsequently, a note sheet dated 02.07.2023 was initiated for hiring a Surface Miner with in-built dust suppression system and allied equipment. This proposal was not concluded, and a revised proposal was also examined. After due consideration of technical, operational, and financial aspects, it was found unviable and dropped.

To address the requirement, a long-term contract (10 years) was formulated, and a tender was floated vide NIT No. GEM-177 dated 28.05.2025. The proposal is presently under technical scrutiny and finalisation at SECL HQ. The contract includes the provision for deployment of Surface Miners, with expected commissioning within 6 months of tender finalisation.

32.9.7: Current and proposed dispatch arrangement for coal: (details of 26.9 km road towards railway siding required)

Current dispatch arrangement for coal:

S. No.	Quantity of Coal (MTP)	Dispatch medium
1.	0.4823	By Rail- through Burhar Railway siding at a distance of 26.9 Km
2.	1.2917	By road – Directly to consumers
Total	1.774	
Total transport through rail: 27.2% (2024-25)		
Total transport through road: 72.8% (2024-25)		

Proposed dispatch arrangement for coal:

S. No.	Quantity of Coal (MTPA)	Dispatch medium	Status/ Timelines
1.	90 % of EC capacity (1.8 MTPA)	By rail- from proposed Rampur Batura Railway Siding	02 years
2.	10 % of EC capacity (0.2 MTPA)	By road – Directly to local consumers	In operation

S. No.	Quantity of Coal (MTPA)	Dispatch medium	Status/ Timelines
Total	2.0 MTPA		
Total coal transport through Silo/ Rail: 1.8 MTPA (90 %)			
Total coal transport through road sale: 0.2 MTPA (10 %)			

32.9.8: Traffic Impact Assessment: Currently from Batura Opencast Coal Mining project, out of 1.774 MT of coal dispatched in FY 2024-25, 0.4823 MT is being dispatched through Burhar railway siding at a distance of 26.9 km and 1.2917 MT is dispatched through road sale. This road sale is being dispatched through State Highway which ultimately joins NH 43 after 6 KM, through which it dispatches to different local consumers.

Traffic details of the coal transportation road are as follows:

Location	No. of PCU's/Hr	V/C	LoS
TS1 – Near Railway Crossing	334.8	0.22	B
TS2 – Near Sone River	517.45	0.34	B
TS3 – Batura to Anuppur Flyover	347.6	0.23	B

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

The Level of Service (LoS) at all three traffic stations is B, which represents a zone of stable flow with good operating conditions. The present traffic volumes are well within the design service capacity of the road.

Air quality monitoring data

Period April 24 – March 25														
S. No.	Name of Station	PM ₁₀			PM _{2.5}			SO ₂			NO ₂			Remarks
		Min	Max	Avg	Min	Max	Avg	Min	Max	Avg	Min	Max	Avg	
Standards		250			-			120			120			Industrial-Core
1.	Mine site office	126	248	194	57	86	68	14	36	22	18	41	26	
Standards		100			60			80			80			Residential
2.	Rampur village	48	88	71	36	65	50	12	29	17	16	34	21	
3.	Bakhi Village	55	95	73	28	54	38	16	29	22	20	35	27	
4.	Bakho Village	42	79	59	23	54	36	13	28	20	17	32	24	

Details of existing control measures

S. No.	Control Measures	Locations	Coverage/ Throw	Qty. (in Nos.)
1	Fixed Sprinklers	Burhar Railway Sidings	15 m	10
2	Truck Mounted Mobile Fog Cannons (40 m throw)	Haul Roads, Coal & OB Transportation Roads, Mine Faces and Loading/ unloading Areas	40 m	02
3	Mobile Water Tankers (10 kl)	Haul Roads, Coal & OB Transportation Roads, Mine Faces and Loading/ unloading Areas	3-5 m	02
	Mobile Water Tankers (10 kl)	Haul Roads, Coal & OB Transportation Roads, Mine Faces and Loading/ unloading	3-5 m	01

S. No.	Control Measures	Locations	Coverage/ Throw	Qty. (in Nos.)
		Areas		
4	Mechanical Road Sweepers	Public Transportation Road	Entire road	02
5	Wind Barrier	Around coal stockyard	850m length, 4m Height	
	Total			
NOTE: Fixed Fog Cannons (100 m throw) of 05 nos. is under installation phase for Batura OC at Stock and 03 at Burhar Railway Siding. CAAQMS also provided for continuous monitoring of Air Quality.				

Noise Quality

Noise quality monitoring data

Period April 24 – March 25						
Location	Parameter	Unit	Minimum Value	Maximum Value	Average Value	Prescribed Standard
Mine site office(khanda village)	Noise Level Day	dB	45.4	67.2	57.2	75
	Noise Level Night	dB	43.1	62	51.4	70
Rampur Village	Noise Level Day	dB	35.4	67.2	48.7	55
	Noise Level Night	dB	33.7	56.6	42.2	45
Bakhi Village	Noise Level Day	dB	40.1	53.9	46.7	55
	Noise Level Night	dB	30.2	45.8	38.6	45
Bakho Village	Noise Level Day	dB	39.6	50.6	45.6	55
	Noise Level Night	dB	31.5	44.4	38.3	45

32.9.9: Details of Court Cases:

About 97 nos. of Civil cases related to dispute between parties regarding land compensation, land entitlement etc. in acquired land are pending (as on 25.09.2025). These cases are distributed across various courts, including 8 cases in the Madhya Pradesh High Court Jabalpur, 2 cases in Chhattisgarh High Court, Bilaspur, 82 Cases in Civil Court Burhar and 5 cases in Collector and SDM Court Shahdol.

There is no violation case pending under Environment (Protection) Act, Air (P&CP) Act, Water (P&CP) Act, Wildlife Protection Act, MMDR Act, Factories Act etc.

32.9.10: Written Submissions: PP during the meeting submitted an undertaking that the construction of the coal evacuation system, specifically the in-pit belt conveyor up to the CHP silo, will be completed by 31.12.2028.

Observations and deliberation of the Committee:

32.9.11: The EAC noted the following:

1. MoEF&CC has granted EC for Batura Open Cast Coal Mine Project (having production capacity of 2 MTPA within the ML area of 942.873 Ha), located at

Villages Khanda, Rampur and Beliya; Tehsil: Anuppur & Jaitahari; District: Shahdol & Anuppur; State: Madhya Pradesh to M/s South Eastern Coalfields Limited vide letter no. J-11015/65/2016-IA II (M) dated 01.02.2021.

2. The mine became operational from February 2023 onwards. The above project is partly implemented and the mine is already under operation.
3. The instant proposal is for seeking amendment in specific condition no. 4 (v), 4 (xviii) and 4 (xxv) of EC dated 01.02.2021.
4. Specific Condition no. 4 (v) of EC dated 01.02.2021 stipulated that, “*Transportation of coal from Coal Handling Plant shall be through mechanized covered trucks for 3 years. The conveyor system till railway siding shall be implemented within 3 years.*” As per the stipulated condition, the PP was supposed to implement the CHP and conveyor by 31.01.2024. Committee deliberated on the delay caused the same and observed that, the installation work of CHP/Silo with in-pit belt conveyor involves several sequential activities—feasibility and detailed project reports (FSR/DPR) with geophysical investigations, approvals from SECL and Railways, land acquisition, and clearances from multiple agencies—which have contributed to delays. The same has been discussed in para no. 32.9.3 mentioned above. PP sought the extension in timeline for installation of CHP/Silo with in-pit belt conveyor by 31.10.2027 and 01.01.2030. Committee opined that the PP shall submit a reduced timeframe for the same and shall accordingly seek the extension. During the meeting the PP submitted vide an Undertaking that the coal evacuation system, specifically the in-pit belt conveyor up to the CHP Silo will be completed by 31.12.2028.
5. Specific Condition no. 4 (xxv) of EC dated 01.02.2021 stipulated that “Mining shall be carried out only by surface miners for the project (as proposed) and silo loading till railway siding through in-pit conveyor should be installed to avoid road transportation in 3 years.”

Committee deliberated on the delay in deployment of surface miner and observed that, the tender floated for surface miner on 03.08.2021 had to be cancelled on 09.11.2021 as no technically acceptable offers were received. Subsequently other tenders were floated and had to be dropped as found to be unviable. To address the requirement, a long-term contract (10 years) was formulated, and a tender was floated vide NIT No. GEM-177 dated 28.05.2025. The proposal is presently under technical scrutiny and finalisation at SECL HQ. The contract includes the provision for deployment of Surface Miners, with expected commissioning within 6 months of tender finalisation. PP had sought extension in timeline for deployment of surface miner by 01.04.2026.

6. Specific Condition no. 4 (xviii) of EC dated 01.02.2021 stipulated that “Toe wall of at least 10 mts height should be constructed along the OB dump.”

PP submitted that presently, the mine is in its initial stage, with an active quarry area of 89 ha. An external dump, including a topsoil dump, has been developed over 26 ha during 2023–24 and 2024–25. The dump height is maintained within 30 m, with slopes stabilized by grass cover, plantation, and provision of a stone toe wall. In compliance with EC conditions, a 10 m high permanent RCC toe wall was initially proposed. However, the estimated cost of this structure was about 13% of the total project cost, which makes it financially unviable for the company. Considering that the external dump height is restricted to 30m, dumps have already been stabilized for 1–2 years with ongoing reclamation, and the site geology and dump geometry are favourable, a wall of up to 10 ft height is technically adequate and would be more practically stable.

7. Committee further deliberated on the current and proposed coal evacuation system for the said project and observed that currently approx. 72% of the coal is being transported by road and remaining 23% of coal is being transported by rail.
After the implementation of CHP/ Silo and in-pit belt conveyor the coal proposed to be transported by road shall be just 10% and remaining 90% will be transported by rail.
8. Committee further deliberated on the traffic impact assessment report and the AAQ parameters submitted by the PP and observed that, the AAQ parameters are within the permissible limits. However, the values of PM10 are found to be on the higher side in Bakhi Village (buffer zone). Committee opined that PP shall take adequate measures to improve the air quality in the Bakhi village. Intense plantation shall be done within 2 years on the road side and within the village in order to improve the air quality of the same.
9. Committee also deliberated on the existing control measures and opined that all the PP shall carryout regular maintenance of the potholes on roads, repair and maintenance of roads, scrapping of material fallen on roads, and removal of scraps from mining areas. Along with this, PP shall make sure that all the pollution control equipments are in good working condition and maintenance of those equipments is regularly carried out.
10. Committee also opined that PP shall do intense plantation with the native species on both the side of the coal transportation road to further control the dust and noise pollution.
11. Committee further observed that there is no court case related to environment pending on the said project.

Recommendations of the Committee:

32.9.12: In view of the foregoing and after the detailed deliberations, the Committee **recommended** the instant proposal for grant of amendment in the EC granted vide letter no. J-11015/65/2016-IA II (M) dated 01.02.2021, as detailed below, subject to stipulation of the following additional specific conditions:

Conditions as per EC dated 02.01.2025	Description as per approved EC dated 02.01.2025	Recommendation of EAC
Specific condition no 4(v) of EC dated 01.02.2021	Transportation of coal from Coal Handling Plant shall be through mechanized covered trucks for 3 years. The conveyor system till railway siding shall be implemented within 3 years.	Partially agreed. With regard to the changes in the said condition, Committee is of the agreed to amend the same as follows: <i>“Transportation of coal from the Coal Handling Plant to railway siding shall be through mechanized covered trucks till 31.10.2027. The silo loading system at Railway siding shall be implemented by 31.10.2027 and the in-pit conveyor belt system shall be implemented by 31.12.2028. After that only 10% of the total coal production shall be allowed by road.”</i>
Specific condition no 4(xviii) of EC dated 01.02.2021	Toe wall of at least 10 mts height should be constructed along the OB dump.	Agreed. With regard to the changes in the said condition, Committee is of the agreed to amend the same as follows: <i>“Toe walls of upto 10 Feet height should be constructed</i>

<p>Specific condition no 4(xxv) of EC dated 01.02.2021</p>	<p>Mining shall be carried out only by surface miners for the project (as proposed) and silo loading till railway siding through in-pit conveyor should be installed to avoid road transportation in 3 years.</p>	<p><i>along the OB dump.”</i> Partially agreed. With regard to the changes in the said condition, Committee is of the agreed to amend the same as follows: <i>“Mining will be carried out by Surface Miner from 01 April 2026, and CHP - silo shall be implemented by 31.10.2027 and in-pit conveyor shall be upto the Silo by 31.12.2028.”</i></p>
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Additional Specific Conditions:

1. Proponent shall carryout regular maintenance of the potholes on roads, repair and maintenance of roads, scrapping of material fallen on roads, and removal of scraps from mining areas. Along with this, PP shall make sure that all the pollution control equipments are in good working condition and maintenance of those equipments is regularly carried out.
2. Additional air pollution control measures should be taken along roads being used for the transport of coal including e-/CNG/LNG vehicles.
3. Project proponent shall carry out thick plantation with native species on both the sides of the coal transportation road in consultation with the Highway authorities within 2 years.
4. Plantation shall be carried out with the fruit bearing and native species along and within the Bakhi Village to improve the air quality therein.
5. All the recommendations made in the Traffic Assessment Study Report regarding coal transportation by road shall be strictly adhered with. PP shall install one CAAQMS along the coal transportation road in consultation with the SPCB. Compliance in this regard shall be submitted along with the six monthly compliance to the concerned Regional Office and also kept on the web portal of the company.

Agenda No. 32.10:

32.10: Sasti Expansion OCP (having capacity 2.50 MTPA within ML area of 1120.48 Ha) by **M/s Western Coalfields Limited**, located at villages: Sasti & Mathra; Tehsil: Rajura; **District: Chandrapur; State: Maharashtra - Amendment in Environment Clearance – reg.**

[Online Proposal no. IA/MH/CMIN/549928/2025; Consultant: Consultant: CMPDIL: NABET/EIA/25-28/RA 0412 valid till 08/04/2028]

32.10.1: The instant proposal is for seeking amendment in Environment Clearance granted to M/s Western Coalfields Limited vide letter no. J-11015/435/2006-IA.II(M) dated. 13.09.2023 for Sasti Expansion OCP (having capacity 2.50 MTPA within ML area of 1120.48 Ha), located at villages: Sasti & Mathra; Tehsil: Rajura; District: Chandrapur; State: Maharashtra.

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

Sl. no.	Details of Letter No	/ Expansion EC/ Amendment in EC/ validity extension/ Transfer of EC	Capacity (MTPA)	Area (ha)	Date of issuance	Status of Implementation
	1015/435/2006-IA.II(M)	Expansion EC		9.69	05.2007	Completed
	1015/435/2006-IA.II(M)	Expansion EC		20.48	09.2023	Not Implemented

The actual production details of the Sasti Expansion OC mine, from the commencement of operations in 1985 onwards. CTO renewal has been obtained from Maharashtra Pollution Control Board vide letter no. Format1.0/CAC/UAN No.MPCB-CONSENT-0000241482/CR/2509001066, dated 11.09.2025, valid up to 31.03.2027.

Year	EC Sanctioned capacity (MTPA)	Actual Production (MTPA)	Excess production beyond the EC sanctioned capacity
2007-08	2.50	1.46	Nil
2008-09	2.50	1.67	Nil
2009-10	2.50	1.70	Nil
2010-11	2.50	1.59	Nil
2011-12	2.50	1.64	Nil
2012-13	2.50	1.55	Nil
2013-14	2.50	1.58	Nil
2014-15	2.50	1.74	Nil
2015-16	2.50	1.73	Nil
2016-17	2.50	1.61	Nil
2017-18	2.50	1.56	Nil
2018-19	2.50	1.62	Nil
2019-20	2.50	1.68	Nil
2020-21	2.50	1.79	Nil
2021-22	2.50	1.35	Nil
2022-23	2.50	2.45	Nil
2023-24	1.88	2.50	Nil
2024-25	2.01	2.50	Nil

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

Specific/ General condition no.	Details of conditions as per EC	Amendment sought	Justification
Specific condition no. 1.5	PP shall implement dedicated in-pit conveyor belt with silo loading system till railway siding on or before December 2025. Accordingly, SPCB may grant CTO strictly comply this	PP shall implement dedicated off-pit conveyor belt with silo loading system till railway siding by June'2027. Accordingly, SPCB may grant CTO strictly comply this condition.	The construction work for the Silo was awarded to the contractor on 15.05.2025, with a scheduled completion date of 13.12.2026 as per the LOA. However, due to delays in OB re-handling, drawing clearances, and the impact of the monsoon, an amendment is being sought to extend the construction period up to June 2027.
Specific condition no. 1.16	PP shall increase the bed capacity of the existing hospital from 25 to 50 bedded at Sasti Township and allow local villager to avail the hospital facility. Quarterly health check-up campaign shall be conducted in all the	This condition may be considered for exemption.	The average daily occupancy of the area hospital is approx. 30%. Further the presence of a 25-bedded Ballarpur Area Hospital at Sasti , along with two dispensaries and access to the Rajura Government Hospital , ensures that both employees and

Specific/ General condition no.	Details of conditions as per EC	Amendment sought	Justification
	villages located in 10km buffer area.		the local population have timely and effective access to medical care . This network of facilities is adequately equipped and staffed to meet routine as well as emergency healthcare needs in the region.
Specific condition no. 1.11	Implement the integrated transportation system with Dhuptala OC mine locating near to the existing mine owned by M/s western Coalfields Limited	This condition may be considered for exemption.	An integrated SILO system has been approved for nearby three mines Gauri-Pauni expansion OC, Pauni-II expansion OC and Sasti expansion OC with a capacity of 10 MTPA. Further, this system cannot accommodate the additional load of Dhuptala OC. Further as per the approved PR of Dhuptala OC, the coal is to be transported to nearby Ballarpur siding (approx 4.5 km).

32.10.4: Justification for extension in timeline for installation of in-pit conveyor belt and Silo Loading System and railway siding:

i. Chronology of the activities undertaken and in progress

S. No.	Date	Activity
Note: It is pertinent to mention that the chronology of the EC acquired in the case of the Gauri-Pauni Expansion OC (3.5 MTPA) and Pauni-II Expansion OC (3.25 MTPA) has also been included, as the decision for an integrated SILO for all three mines — Gauri-Pauni Expansion OC, Pauni-II Expansion OC, and Sasti Expansion OC — was developed at a later stage		
1	13.03.2020	EC for Pauni-II expansion OC has been granted by MoEF&CC for a production capacity of 3.25 MTPA in mine lease area of 1095.52 Ha.
2	01.12.2020	Amendment in EC specific condition regarding extension in construction of SILO has been granted by MoEF&CC for a production capacity of 3.25 MTPA in mine lease area of 1095.52 Ha.
3	27.12.2022	EC for Gauri-Pauni expansion OC has been granted by MoEF&CC for a production capacity of 3.5 MTPA in project area of 1296.42 Ha (1291.42 Ha within mine lease area +5 Ha outside mine lease area)
4	08.04.2023	Approval of Project Report for Gauri-Pauni (Production Capacity: 5.25 MT) by WCL board with a capital provision for installation of SILO with rapid loading system.
5	July'2023	Railway coordinates and Rail top are finalised
6	August'2023	Final NIT has been received from CMPDI (capital of CHP Rs. 283.79 Cr) with linear railway.
7	14.09.2023	Award of Work to IPRCL for construction of railway siding by WCL
8	13.09.2023	EC for Sasti Expansion OC was granted by MoEF&CC for a production capacity of 2.5 MTPA in Mine lease area of 1120.48 ha.
9	09.12.2023	Approval of Project Report for Amalgamated Gauri- Pauni (production capacity: 9 MTPA) by WCL board with a capital provision for installation of SILO with belt conveyor.
10	January'2024	The option of merry-go-round railway system has been explored as per the suggestions of South central railway.
11	March'2024	Revised NIT has been received from CMPDI (capital of CHP Rs. 336.96 Cr) with Merry-go-round.
12	May'2024	Due to the higher cost of the CHP, WCL made a few modifications to the NIT. The final NIT, along with the estimate, was sent by CMPDI to WCL HQ,

S. No.	Date	Activity
		including the capital cost of the CHP (Rs. 291.12 Cr) and the Merry-go-round railway line.
13	June'2024	Due to change of railway line from Merry-go-round to linear system, WCL sent to new rail top and co-ordinates.
14	July'2024-August'2024	Final NIT With estimate sent by CMPDI to WCL HQ (Capital of CHP Rs. 311.74 Cr) with linear railway line.
15	10.09.2024	Tender floated on CIL e-procurement portal
16	14.11.2024	Technical bid (Cover-1) opened
17	15.05.2025	LOA issued to selected bidder
18	02.06.2025	Site handover
19	14.06.2025	Commencement of work
Note: The capital provision for the construction of the railway siding has been included in the approved Project Report (PR) of the Sasti Expansion OC, while the capital provision for the construction of the SILO has been included in the approved PR of the Amalgamated Gauri-Pauni Expansion OC		
20	23.07.2025	An amendment in EC of Gauri-Pauni expansion OC was granted by MoEF&CC regarding the extension of SILO construction up to June'2027.

ii. Justification for the extension of timeline

In line with approved project report, NIT for SILO loading system with belt conveyor has been prepared by CMPDIL and tender has been floated by WCL on 10.09.2024 and LOA issued on 15.05.2025. Further, the site has been handed over to the contractor on 02.06.2025 and date of commencement of work as per the site handover letter is 14.06.2025.

S. No.	Activity	Timeline
1	System drawing clearances from CMPDI	31.12.2025
2	Construction period As per the NIT time period for construction of plant including Trail, Run, PGT & commissioning is 548 days (ie upto 13.12.2026 from date of commencement of work). But Considering the hampering of work in monsoon season (6 months cumulative for 2025, 2026 & 2027), delay in drawing clearances, site clearance works like OB rehandling etc., additional timeline is proposed.	30.06.2027
	Total extension in timeline required	30.06.2027 (in line with extension granted by EAC in respect of Gauri-Pauni expansion OC vide EC amendment letter Dt. 23.07.2025)

As per the NIT conditions, the total time required for the construction of the plant, including trial runs, Performance Guarantee Test (PGT), and commissioning, is 548 days from the date of execution of agreement.

The work involves Planning, design, Engineering, Construction, Fabrication, Erection, Supply, Installation, testing, trial Run, and Commissioning of the following:

- One number RCC Silo of 4,000 te capacity with Rapid Loading System outfits with average loading rate of 4500-8500 TPH
- Automatic sampling unit
- Two sets of Truck Receiving stations
- RCC overhead bunker of 12,000 te with plough feeders and associated belt conveyors
- With dust suppression system
- Fire Fighting System
- Landscaping
- Service roads etc.,

iii. Present status of installation of Silo Loading System and Railway Siding

The work order for construction of Railway track and Siding at Sasti-Pandharpauni line to facilitate Coal evacuation from proposed CHP/ SILO at Sasti OCM, Ballarpur Area” was awarded to IPRCL on 14.09.2023 with proposed capital investment of Rs 133.16 Crore. However, as per approved DPR, the total capital investment is Rs.156.20 Crore including GST.

The initial date of commencement of work was 14.09.2023 with proposed completion date of 13.03.2026. The route length of the railway track is 3.3 km. At present the work is undergoing in full swing with physical progress of 25%. The ground preparation work, material delivery are under progress. Further, financial progress of 18.60% has been completed. Based on the current situation, the tentative timeline for commissioning of Silo Loading system is proposed to be June’2027 and completion of construction of railway siding by March’2026.

32.10.5: Justification for seeking exemption in the condition pertaining to implementation of Integrated Transportation System between Sasti Expansion OC and Dhuptala OC mine (Specific Condition No. 1.11):

Dhuptala expansion OC is an existing mine with a production capacity of 1.7 MTPA covering an area of 1300.91 ha as per the EC granted by MoEF&CC vide letter no.J-11015/538/2008-IA.II(M),Dt.10.01.2013. However, the project could not take off due to want of cost-plus customer. After signing of cost-plus agreement in October 2021, mining operations commenced in May’2022. Below are the reasons why the feasibility of implementing an Integrated Transportation System between Sasti Expansion OC and Dhuptala OC mine is not possible:

1. Coal grade mismatch:

The Dhuptala OC mine operates under a cost-plus agreement for the supply of G-11 grade coal. In contrast, Sasti OC, Gauri-Pauni Expansion OC, and Pauni-II OC produce G-9 grade coal. As mixing of different coal grades is not permissible under the cost-plus agreement, blending coal from Dhuptala OC with that from these other mines is not feasible. Therefore, integrating Dhuptala OC coal into the proposed 10 MTPA SILO system—designed exclusively for G-9 grade coal—would lead to grade dilution, making such integration unfeasible.

2. Capacity Constraints at Gauri-Deep Siding & proposed SILO: Presently, coal from Gauri-Pauni expansion OC, Pauni-II expansion OC, and Sasti expansion OC is being transported to the Gauri-Deep siding. A proposed SILO with a handling capacity of 10 MTPA along with railway siding at sasti is being planned specifically to cater to these three projects.

Additionally, the existing coal transportation road leading to the Gauri-Deep siding and the proposed SILO does not have the capacity to handle additional coal volumes from Dhuptala OC. Therefore, routing Dhuptala OC coal through this system is not feasible.

3. Proximity and Infrastructure: There are currently two railway sidings in the Ballarpur area viz. Gauri Deep railway siding and Ballarpur railway siding. The Ballarpur siding, located approximately 4.5 km from the Dhuptala OC mine, is the nearest and most suitable for coal dispatch.

As per the approved Project Report, coal transportation from Dhuptala OC is to be carried out by trucks/dumpers to Ballarpur Railway Siding. Currently, coal from the following mines is transported to this siding:

- Ballarpur OC (Capacity: 0.625 MTPA)
- Ballarpur UG (Capacity: 0.26 MTPA)
- Dhuptala OC (Existing Capacity: 1.7 MTPA; Proposed Capacity: 2.5 MTPA)

It is important to note that the Ballarpur OC mine is expected to exhaust its mineable reserves by FY 2027–28. Post this period, the available capacity at Ballarpur siding can be fully utilized for dispatch of coal from Dhuptala OC, thereby ensuring the siding infrastructure does not remain underutilized.

Logistically and contractually, the two mines i.e Sasti OC & Dhuptala OC are aligned with different infrastructure and consumer commitments. Integrating transportation between them would disrupt existing agreements and overload the dispatch system intended for Sasti Expansion OC, Gauri-Pauni OC & Pauni-II OC

32.10.6: Justification for the condition pertaining to increasing the bed capacity of the existing hospital (specific condition no. 1.16):

The **Sasti Expansion Opencast Mine** operates under the **Ballarpur Area**, which provides a **two-tier medical facility system**. These facilities ensure accessible and effective medical care for employees and their families across different locations within the area.

Medical facilities and locations:

S. No.	Facility type	Location	Distance from Sasti Mine
1	Dispensary	Gouri	300 m
2	Dispensary	Ballarpur	8 km
3	Ballarpur Hospital	Sasti township	2km

The hospital was initially established as a dispensary in 1998 and was later upgraded to a 25-bedded Ballarpur Area Hospital in the year 2000. The hospital is well-equipped and supported by trained technical staff to effectively handle a wide range of medical needs.

Hospital facilities:

i. Medical infrastructure and equipment

- a) Facilities like OT room, 24 hrs casualty room, labour room etc.
- b) Medical equipment's like ECG, cardiac multipara, oxygen concentrators, auto clave, Defibrillator gynecological examination couch etc,
- c) 7 life-support ambulances deployed across the Area Hospital and associated dispensaries.

ii. Medical staff and overall manpower distribution (including paramedical staff)

- Overall Manpower distribution

Total Man power	Skilled manpower	Unskilled manpower	Contractual manpower	Medical staff
112	51	32	16	13

- Medical staff distribution

Facility	Number of doctors
Ballarpur Area Hospital(Sasti)	11
Ballarpur Sub-Area dispensary	1
Gauri Sub-Area dispensary	1

Details of the admission of patients & average bed occupancy in last three years.

Details of entitled and non-entitled patients (IPD admission)			
Financial Year	Entitled	Non-entitled	Total
2022-23	1723	172	1895
2023-24	2086	22	2108
2024-25	2422	86	2508
Up to July'2025	779	56	835

Financial Year	Average bed occupancy
2022-23	2659
2023-24	3709
2024-25	4275
Up to July'2025	1510

The average daily occupancy of the hospital is approx. 30%.

In addition to the medical infrastructure under Ballarpur Area, there is one government hospital- **Rajura Government Hospital**, located approximately **10.2 km** from the **Sasti OC mine**.

The presence of a **25-bedded Ballarpur Area Hospital at Sasti**, along with two dispensaries and access to the **Rajura Government Hospital**, ensures that both employees and the local population have **timely and effective access to medical care**. This network of facilities is adequately equipped and staffed to meet routine as well as emergency healthcare needs in the region.

During the FY 2024-25, a total of **20 nos. General Health Camps** were conducted under the **CSR initiative** in nearby villages including **Sasti, Gauri, Mathra, Chincholi, Pauni, Kadoli, Antergaon, Hirapur, Sakhri, and Manoli**.

In addition, **11 specialized welfare camps** were organized focusing on **liver disease awareness, blood donation, National TB Eradication Program, cancer awareness**, and other health-related issues.

32.10.7: Traffic Assessment Study Report:

Present and proposed Coal evacuation system of Sasti expansion OC:

Year	Rail cum road (MTPA)*	Road (MTPA)
2024-25	0.81	1.21
2023-24	1.09	0.94
*Gauri deep railway siding is located at 6km from Sasti expansion OC.		
Present coal evacuation system	Coal evacuation system up to June'2027	Coal evacuation system after June'2027

<p>a) Road cum rail mode. The coal from the pit is transported via 6.00 km (approximately) road to the Gouri deep railway siding ensuring all the environmental control measures being enforced.</p> <p>b) To miscellaneous consumers by road.</p>	<p>a) Road cum rail mode. The coal from the pit is transported via a 6.00 km (approximately) road to the Gouri deep railway siding ensuring all the environmental control measures being enforced.</p> <p>b) To miscellaneous consumers by road.</p>	<p>a) Approximately 80% of the total dispatch will be transported via belt conveyor to the SILO loading system at the entry point to major thermal power plants. The road transport from pit head to railway siding at Gauri Deep of length 6.0 km will be reduced to 1.2 km i.e. up to proposed Truck receiving station.</p> <p>b) To miscellaneous consumers by road approx. 20% of the total dispatch.</p>
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In connection to the amendment of specific condition no.1.11, the traffic assessment study has been carried out for both the mines Sasti expansion OC & Dhuptala expansion OC and details are deliberated as follows:

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

The number of vehicles (traffic volume count on hourly basis) from the **mine exit of Sasti Expansion to the Gauri-Deep siding & mine exit of Dhuptala expansion OC to Ballarpur siding** has been **manually recorded at one-hour intervals**.

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

Details	Sasti Expansion OC				Dhuptala expansion OC			
Coal dispatch arrangement	Currently through road and rail mode. The road transport from pit head to railway siding at Gauri Deep of length 6.0 km approx. The road segment overlaps with the road transportation segment of Gauri-Pauni expansion OC & Pauni-II OC at one Junction.				Currently through road & rail mode. The road transport from pit head to railway siding at Ballarpur is of length 4.5km approx.			
Details of coal transportation road	Route	Type of Road	No. of lanes	Length (km)	Route	Type of Road	No. of lanes	Length (km)
	AB	Black topped	Two	2.99	DE	Black topped	Two	4.50
	BC	Black topped	Two	2.89				
	Total			5.88				
	The AB route is converting to concrete road. Work is on-going and will be completed by Oct’2025							
Traffic volume count on hourly basis recorded at	Two locations				One location			
	Section	Description			Section	Description		
	AB	From coal stock yard of Sasti expansion OC to junction point from Gauri-Pauni expansion OC & Pauni-II expansion OC.			DE	From coal stock yard of Dhuptala expansion OC to Ballarpur railway siding.		
BC	Junction point to Gauri-Deep railway siding.							

Traffic density on coal transportation route with max PCU/hour	570	541
Most frequent peak hour	Section BC is 15:00 – 16:00	Section DE is 14:00 -15:00
LOS of road (Traffic volume observed/ Capacity ratio of road)	Very good	Very good.
Environmental receptors along the coal transportation route	a) Gauri village -1.3 km from coal transportation road. b) Goyegaon village-700m from coal transportation road.	a) Sasti village-within ML area and is proposed to be diverted. b) Ballarpur town- approx. 1km stretch

The monitoring data of the environmental receptors along the coal transportation of Sasti Expansion OC & Dhuptala expansion OC from July'2024 to June'2025 are as follows.

Location	PM ₁₀ (µg/m ³)		PM _{2.5} (µg/m ³)		NO _x (µg/m ³)		SO ₂ (µg/m ³)	
	Max	Min	Max	Min	Max	Min	Max	Min
Gauri village (1.3 km from Sasti OC)	88	42	42	16	15	7	BDL	BDL
Goyegaon village (700m from the coal transportation road)	89	48	43	16	15	5	BDL	BDL
Sasti Village (within ML area of Dhuptala OC)	89	45	48	16	14	7	BDL	BDL
Filter plant colony (WCL Ballarpur colony)	94	48	48	15	17	6	BDL	BDL
Permissible Limit (Coal mining standards GSR 742 (E))	100		60		80		80	

The following are the control measures being enforced in the projects along the coal transportation route.

Project	Existing Control measures	Proposed control measures
Sasti Expansion OC	<ul style="list-style-type: none"> 25 no's of fixed sprinklers at coal stock, weigh bridge 05 no's of mobile water sprinklers (16 KL to 28 KL) Surface miner deployed which reduces coal blasting and number of transfer points. Tyre wash system at exist of the mine Road sweeping machine 1 no fog cannon 	<ul style="list-style-type: none"> 3 nos of fog cannons have been procured and will be commissioned by sep'2025

	<ul style="list-style-type: none"> • 3 no. LNG trucks for coal transportation 	
Gouri deep Railway siding	<ul style="list-style-type: none"> • 16 no of fixed sprinklers at railway siding • Wind barrier of length 750m and 6m height. • 2 nos of fog cannons. 	
Dhuptala expansion OC	<ul style="list-style-type: none"> • Fixed sprinklers at coal stock and weigh bridge- 16 nos (Throw- 35m) • Mobile water sprinklers – 4 nos (Throw-100m, coverage-360°, 250 lit/min. • Tyre wash system at exist of the mine 	<ul style="list-style-type: none"> • 3 nos of fog cannons have been procured and will be commissioned by Sep'2025 • 1 no of CAAQMS
Ballarpur railway siding	<ul style="list-style-type: none"> • 2 no.of fog cannons • 10 nos of fixed sprinklers 	<ul style="list-style-type: none"> • Profile sheet Cladding along the track with a height of 5m by Oct'2025.

32.10.8: Details of Court Cases: 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.

32.10.9: Written Submissions: PP during the meeting submitted the following:

S. No.	Additional details sought	Reply/ Action plan/ status
1	A technical note regarding the method to be explored for reducing the mine void of 286.90 ha with a depth of 200 m, which is proposed to be converted into a water body at the end of the mine life, shall be submitted.	<p>As per the approved mining plan by the WCL Board vide Resolution No. WCL/Office of CS/BM-345/2022-23/499 dated 29.09.2022, coal reserves are to be extracted from a depth of 200 meters. Accordingly, the final depth of the water body will be 200 m. The existing mine lies entirely within the Sasti Geological Sub-block and partially within the Mathara Geological Sub-block.</p> <p>To minimize land degradation and avoid external OB dumping (within ML area), around 93% of the overburden is being backfilled within the mine. Backfilling is carried out up to a height of 90 m over 275.80 ha, out of the total excavation area of 544.79 ha. If the present mine doesn't expand beyond 200m depth in future, around 35 Mm³ of OB will be utilized to fill the mine up to 150 m depth from internal dump of Sasti OC. It is also pertinent to mention that, in this case, a portion of the proposed void area may be partially backfilled with OB. However, the backfilling will not reach the original ground level. Accordingly, the total void area has been detailed in the post-mining land use plan.</p> <p>The mine cross section showing the final mine void of 150 m depth is submitted.</p> <p>Further, it is to be noted that all efforts will be made to reduce the void area by utilizing overburden from future expansions, depending on the quantity of coal and OB to be extracted.</p>
2	The water utilisation for various activities shall be submitted.	According to the Comprehensive Hydrogeological Report with modelling study report, the projected groundwater inflow is 2,613 m ³ /day, and the rainwater accumulation in the mine pit is 7,938 m ³ /day, resulting in a total groundwater

		<p>abstraction of 10,551 m³/day. Out of the total mine water, 3,377 m³/day is utilized for industrial purposes such as dust suppression (via mobile tankers, fixed sprinklers, and fog cannons), firefighting, tyre washing, and other operational uses. Additionally, 28 m³/day is used for domestic purposes at service buildings and offices.</p> <p>The remaining excess mine water, after treatment, is discharged into nearby natural watercourses. This discharge also contributes to maintaining the environmental flow (E-flow) of the natural water courses.</p> <p>It is pertinent to mention that, the application for renewal CGWA NOC for the estimated quantity has been submitted for approval and is under process.</p> <p>Status of CGWA NOC: The NOC for ground water abstraction from Sasti OC Mine has been obtained by NOC no. CGWA/NOC/MIN/REN/1/2024/10301 dated 11.12.2024 with validity from 03.08.2023 to 02.08.2025. The CGWA renewal application for duration from 03.08.2025 to 02.08.2027 has been submitted on 02.08.2025 in BhuNeer application code-10877-MIN/MH/2025/8178/R-2.</p> <p>The proposal has been considered in 237th EAC meeting held on 02.09.2025, minutes of the meeting uploaded on 17.09.2025, Compliance of EAC directives/ ATR on MoM submitted on 22.09.2025. The proposal has been considered in 239th EAC meeting scheduled on 30.09.2025. The renewal application is under process at CGWA.</p>
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Observations and deliberation of the Committee:

32.10.10: The EAC noted the following:

1. MoEF&CC originally accorded EC for Sasti Expansion OCP vide letter dated 03.04.1989 for the production capacity of 1 MTPA within the ML area of 674.09 Ha. Later EC for expansion was granted vide letter dated 19.05.2005 for the production capacity of 1.6 MTPA within the ML area of 714.09 Ha, 17.05.2007 for the production capacity of 2.5 MTPA within the ML area of 919.69 Ha, 13.09.2023 for the production capacity of 2.5 MTPA within the ML area of 1120.48 Ha.
2. The above-mentioned project has been implemented.
3. PP submitted an application for seeking amendment in specific condition no. 1.5, 1.16 & 1.11 of EC dated 13.09.2023.
4. Specific Condition no. 1.5 of EC dated 13.09.2023, stipulated that, "PP shall implement dedicated in-pit conveyor belt with silo loading system till railway siding on or before December 2025. Accordingly, SPCB may grant CTO strictly comply this condition."
PP sought extension in timeline for implementation of the same till June 2027. Committee deliberated on the delay in implementation of in-pit conveyor belt and Silo Loading System and railway siding. PP submitted that, due to delays in OB re-handling, drawing clearances, and the impact of the monsoon, the work has been delayed and is anticipated to be completed by 23.07.2025.
Committee deliberated on the present status of the work completed and observed that, The route length of the railway track is 3.3 km. At present the work is undergoing in full swing with physical progress of 25%. The ground preparation work, material

delivery are under progress. Further, financial progress of 18.60% has been completed. Based on the current situation, the tentative timeline for commissioning of Silo Loading system is proposed to be June'2027 and completion of construction of railway siding by March'2026.

5. Specific Condition no. 1.16 stipulated that, *“PP shall increase the bed capacity of the existing hospital from 25 to 50 bedded at Sasti Township and allow local villager to avail the hospital facility. Quarterly health check-up campaign shall be conducted in all the villages located in 10 km buffer area.”*

PP sought an exemption for the said condition, stating that the average daily occupancy of the area hospital is approx. 30%. Further the presence of a 25-bedded Ballarpur Area Hospital at Sasti, along with two dispensaries and access to the Rajura Government Hospital, ensures that both employees and the local population have timely and effective access to medical care. This network of facilities is adequately equipped and staffed to meet routine as well as emergency healthcare needs in the region.

Committee opined that instead of fully exempting the said condition, PP shall strengthen the existing hospital and shall introduce 2 nos of ICUs in the said 25 bedded hospital at Sasti, within 1 year from the date of grant of EC amendment.

6. Specific Condition no. 1.11 stipulated that, *“Implement the integrated transportation system with Dhuptala OC mine locating near to the existing mine owned by M/s Western Coalfields Limited.”* PP sought exemption for the said condition, stating that, an integrated SILO system has been approved for nearby three mines Gauri-Pauni expansion OC, Pauni-II expansion OC and Sasti expansion OC with a capacity of 10 MTPA. Further, this system cannot accommodate the additional load of Dhuptala OC. Further as per the approved project report of Dhuptala OC, the coal is to be transported to nearby Ballarpur siding (approx 4.5 km). PP also submitted certain other reasons coal grade mismatch, capacity constraints at Gauri Deep Siding & proposed silo, proximity and infrastructure as discussed in para 32.10.5 mentioned above.

7. Further Committee deliberated on the traffic assessment study report of the said project and the present and proposed coal evacuation system. Committee observed that currently, 0.81 MTPA of the coal production is being transported via 6.00 km (approximately) road to the Gauri deep railway siding ensuring all the environmental control measures being enforced. Remaining 1.21 MTPA coal is being transported to miscellaneous consumers via road. Post implementation of in-pit conveyor belt with silo loading system till railway siding 80% of the total dispatch will be done via belt conveyor to the SILO loading system at the entry point to major thermal power plants. The road transport from pit head to railway siding at Gauri Deep of length 6.0 km will be reduced to 1.2 km i.e. up to proposed Truck receiving station. And remaining 20% of the coal production will be done by road to the miscellaneous consumers.

8. Committee deliberated on the AAQ and noise quality parameters of the coal transportation road and observed that, all the parameters are found to be within the permissible limits. Committee opined that the PP shall continue to implement the existing control measures and shall also procure and commission 3 nos of fog cannons by September 2025. Committee further opined that PP shall carryout regular maintenance of the potholes on roads, repair and maintenance of roads, scrapping of material fallen on roads, and removal of scraps from mining areas. Along with this, PP

shall make sure that all the pollution control equipments are in good working condition and maintenance of those equipments is regularly carried out.

9. Committee also opined that PP shall do intense plantation with the native species on both the side of the coal transportation road to further control the dust and noise pollution.
10. 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.
11. Committee also sought a plan for reducing the mine void of 286.90 ha with a depth of 200 m, which is proposed to be converted into a water body at the end of the mine life. PP submitted the same and proposed the final mine void to be converted to water body of a depth of 150 m. Committee opined that PP shall accordingly make the changes in the mine plan and get the same approved by the competent authority.

Recommendations of the Committee:

32.10.11: In view of the foregoing and after the detailed deliberations, the Committee **recommended** the instant proposal for grant of amendment in the EC granted vide letter no. J-11015/435/2006-IA.II(M) dated 13.09.2023, as detailed below, subject to stipulation of the following additional specific conditions:

Conditions as per EC dated 13.09.2023	Description as per approved EC dated 13.09.2023	Recommendation of EAC
Specific condition no. 1.5	PP shall implement dedicated in-pit conveyor belt with silo loading system till railway siding on or before December 2025. Accordingly, SPCB may grant CTO strictly comply this	Agreed. With regard to the changes in the said condition, Committee is of the agreed to amend the same as follows: <i>“PP shall implement the dedicated in-pit conveyor belt with silo loading system till railway siding by June 2027. Thereafter only 20% of the coal production shall be allowed to be transported by road to the nearby local consumers.”</i>
Specific condition no. 1.16	PP shall increase the bed capacity of the existing hospital from 25 to 50 bedded at Sasti Township and allow local villager to avail the hospital facility. Quarterly health check-up campaign shall be conducted in all the villages located in 10km buffer area.	Agreed. Committee recommended to delete the condition.
Specific condition no. 1.11	Implement the integrated transportation system with Dhuptala OC mine locating near to the existing mine owned by M/s Western Coalfields Limited	Agreed. Committee recommended to delete the condition.

Additional Specific Conditions:

1. Proponent shall carryout regular maintenance of the potholes on roads, repair and maintenance of roads, scrapping of material fallen on roads, and removal of scraps from mining areas. Along with this, PP shall make sure that all the pollution control equipments are in good working condition and maintenance of those equipments is regularly carried out.
2. Additional air pollution control measures should be taken along roads being used for the transport of coal including e-/CNG/LNG vehicles.
3. Project proponent shall carryout intense plantation with the native species on both the side of the coal transportation road to further control the dust and noise pollution.
4. Project proponent shall introduce two number of Intensive Care Units (ICU) in the already existing 25 – bedded hospital at Sasti, within 1 year from the date of grant of EC amendment.
5. Project proponent shall procure and commission 3 nos of fog cannons by September 2025, as committed.

Agenda No. 32.11:

32.11: Ramagundam Coal Mine (RG Coal Mine) [Conversion of UG Mines to OC (closed GDK 10 & working Vakilpalli sequentially) and Amalgamation of RG OC I Expansion Project, RG OC II Extension Project & Adriyala Longwall Project] (having production capacity 21 MTPA within the ML area of 4326.08 Ha] **by M/s Singareni Collieries Company Limited** located at villages: Pannur, Nagepally, Ladnapur, Ratnapur, Bhudavarampeta, Ramayyapalli, Vakilpalli, Jallipalli and Mulkalapalli; **District: Peddapalli; State: Telangana - Prescribing of Terms of Reference – reg.**

[Online Proposal no. IA/TG/CMIN/549072/2025; Consultant: Environment Protection Training And Research Institute - NABET/EIA/24-27/RA 0337 valid up to 21.01.2027]

32.11.1: M/s. The Singareni Collieries Company Limited has made an application online for the proposed Ramagundam Coal Mine (RG Coal Mine) vide proposal no. IA/TG/CMIN/549072/2025 dated 04.09.2025 along with the application in prescribed format (CAF & Form-I), copy of pre-feasibility report and proposed ToRs for undertaking detailed EIA study as per the EIA Notification, 2006 for the project mentioned above. The proposed project activity is listed at Item. No. 1(a) (Mining of Minerals) Under Category “A” of the schedule of the EIA Notification, 2006 and does not attract general condition being appraised at Central Level.

Ramagundam Coal Mine Project is Conversion of UG Mines to OC (closed GDK 10 & working Vakilpalli sequentially) and Amalgamation of RG OC I Expansion Project, RG OC II Extension Project & Adriyala Longwall Project for enhancement of production capacity from 13.74 MTPA to 21 MTPA and increase in lease area from 3266.88 ha to 4326.08 ha. It is located at: villages: Pannur, Nagepally, Ladnapur, Ratnapur, Bhudavarampeta, Ramayyapalli, Vakilpalli, Jallipalli and Mulkalapalli; District: Peddapalli; State: Telangana.

Initially PP submitted the above mentioned proposal vide proposal no. IA/TG/CMIN/533627/2025 dated 17.04.2025 and the same was appraised in the 27th EAC Meeting held on 18-19th June 2025. The EAC returned the said proposal in its present form on account of certain observations, such as implementation of remediation plan for the mines

involving violation and reduction in depth and area of voids proposed post mining. Now the above mentioned proposal is placed in 32nd EAC Meeting held on 24-25th September 2025.

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

32.11.2: Details of previous approvals:

S. No.	Details of Letter No.	EC / Expansion EC / Amendment in EC / Validity extension / Transfer of EC	Capacity (MTPA)	Area (Ha)	Date of issuance	Status of implementation
1	Ramagundam Opencast -I Coal Mine Project: No. J-11015/142/ 2005-IA.II (M)	EC	1.5	710.13	11.09.2006	EC expansion obtained
	Ramagundam Opencast -I Coal Mine Expansion Project-Phase-II:No.J-11015/534/ 2007.IA.II (M),	EC Expansion	From 1.50 to 3.0 (peak 3.30)	923.88	31.07.2008	EC expansion obtained under Violation category
	Ramagundam Opencast -I Coal Mine Expansion Project-Phase-II: F.No. 23-71/2018-IA (III) and EC Identification No. EC23A042TG157307	EC Expansion	From 3.30 to 5.30		16.01.2023	Violation category
	Ramagundam-I Opencast Coal Mine Project Expansion- Phase-II F. No. 23-71/2018-IA(III) and EC25A0101TG5425428A	Amendment in Environment Clearance	5.30	923.88	13.08.2025	Amendment in conditions pertaining to release of bank guarantee deposited for implementation of RP&NCRAP stipulated in the EC dated 16.01.2023
2	Ramagundam O/c project-II No.J.11015/39/84-Env5-IA.II	EC	2.0	496.00	10.01.1992	EC expansion obtained
	Ramagundam Opencast-II Coal Mine Extension Project: No.J-11015/355/ 2007-A.II(M)	EC Expansion	2.0 to 4.0 (Peak-4.5)	2255.90	27.04.2010	EC expansion
3	Adriyala Shaft Coal Mining Project F. No.J-11016/24/ 2004-IA.II (M)	EC	2.144	340 Ha +23.90 ha (outside the project area)	11.10.2004	EC expansion obtained
	Adriyala Shaft Underground Coal Mining Expansion Project: No.J-11015/24 /2004-IA.II (M)	EC Expansion	From 2.144 to 3.14		30.01.2015	EC expansion
4	GDK-9 Incline Extension Project (Vakalpalli Mine): No:J-11015/29/68 /IA.II	EC	0.45	205.34	14.08.1989	EC expansion obtained under violation category
	Vakalpalli Mine (GDK-9 Incline Extension Project): No.23-253/2018-IA.III(V) and EC identification No. EC24A042TG138067	EC	0.35		25.06.2024	Violation category. The RP&NCRAP has been implemented and the bank guarantee for the same has been released vide letter no. Lr.No.8/TGPCB/EC/B G/2025-18, dated 25.07.2025 by the Telangana Pollution Control Board.

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
5	Godhavarikhani No. -10 Incline F. no. J-11015/14/86-IA	EC	0.45	234.00	09.07.1986	Mining operations stopped

Details of actual coal production vis-à-vis sanctioned capacity since 1993-94 as follows:

1. Ramagundam-I Opencast Coal Mine Project Expansion-Phase-II

Year	EC sanctioned capacity (MTPA)	Actual production (MTPA)	Excess production beyond the EC sanctioned capacity (MTPA)
1993-94	3.3	2.33	0.00
1994-95	3.3	2.20	0.00
1995-96	3.3	2.33	0.00
1996-97	3.3	2.32	0.00
1997-98	3.3	2.06	0.00
1998-99	3.3	2.34	0.00
1999-00	3.3	2.85	0.00
2000-01	3.3	2.65	0.00
2001-02	3.3	3.08	0.00
2002-03	3.3	3.25	0.00
2003-04	3.3	2.65	0.00
2004-05	3.3	3.25	0.00
2005-06	3.3	3.22	0.00
2006-07	3.3	3.00	0.00
2007-08	3.3	1.62	0.00
2008-09	3.3	2.20	0.00
2009-10	3.3	2.98	0.00
2010-11	3.3	3.40	0.10
2011-12	3.3	4.08	0.78
2012-13	3.3	4.71	1.41
2013-14	3.3	5.29	1.99
2014-15	3.3	5.29	1.99
2015-16	3.3	5.03	1.73
2016-17	3.3	5.37	2.07
2017-18	3.3	5.30	2.00
2019-20	3.3	4.73	1.43
2019-20	3.3	4.65	1.35
2020-21	3.3	4.28	0.98
2021-22	3.3	3.29	0.00
2022-23	3.3	3.29	0.00
2023-24	5.3	3.69	0.00
2024-25	5.3	3.50	0.00

2. Ramagundam Opencast-II Coal Mine Extension Project:

Year	EC sanctioned capacity (MTPA)	Actual production (MTPA)	Excess production beyond the EC sanctioned capacity (MTPA)
1993-94	2.0	0.3	0.00
1994-95	2.0	0.62	0.00

Year	EC sanctioned capacity (MTPA)	Actual production (MTPA)	Excess production beyond the EC sanctioned capacity (MTPA)
1995-96	2.0	1.76	0.00
1996-97	2.0	1.98	0.00
1997-98	2.0	1.97	0.00
1998-99	2.0	1.54	0.00
1999-00	2.0	1.98	0.00
2000-01	2.0	1.21	0.00
2001-02	2.0	1.41	0.00
2002-03	2.0	1.5	0.00
2003-04	2.0	1.9	0.00
2004-05	2.0	1.94	0.00
2005-06	2.0	1.97	0.00
2006-07	2.0	1.930	0.00
2007-08	2.0	1.920	0.00
2008-09	2.0	1.950	0.00
2009-10	2.0	1.960	0.00
2010-11	4.5	3.250	0.00
2011-12	4.5	2.140	0.00
2012-13	4.5	1.006	0.00
2013-14	4.5	0.730	0.00
2014-15	4.5	0.700	0.00
2015-16	4.5	1.500	0.00
2016-17	4.5	1.850	0.00
2017-18	4.5	1.930	0.00
2019-20	4.5	2.160	0.00
2019-20	4.5	2.360	0.00
2020-21	4.5	2.520	0.00
2021-22	4.5	3.230	0.00
2022-23	4.5	2.400	0.00
2023-24	4.5	2.220	0.00
2024-25	4.5	3.000	0.00

3. Adriyala Shaft Underground Coal Mining Expansion Project

Year	EC sanctioned capacity (MTPA)	Actual production (MTPA)	Excess production beyond the EC sanctioned capacity (MTPA)
2010-11	2.144	1.30	0.00
2011-12	2.144	1.59	0.00
2012-13	2.144	1.89	0.00
2013-14	2.144	1.55	0.00
2014-15	3.14	0.70	0.00
2015-16	3.14	1.85	0.00
2016-17	3.14	1.20	0.00
2017-18	3.14	0.39	0.00
2019-20	3.14	1.73	0.00
2019-20	3.14	2.06	0.00
2020-21	3.14	1.05	0.00
2021-22	3.14	1.14	0.00
2022-23	3.14	1.70	0.00
2023-24	3.14	1.40	0.00
2024-25	3.14	0.40	0.00

4. Vakilpalli Mine (formerly GDK-9 Incline)

Year	EC sanctioned capacity (MTPA)	Actual production (MTPA)	Excess production beyond the EC sanctioned capacity (MTPA)
1993-94	0.45	0.55	0.10
1994-95	0.45	0.52	0.78
1995-96	0.45	0.41	0.00
1996-97	0.45	0.75	0.30
1997-98	0.45	0.56	0.11
1998-99	0.45	0.34	0.00
1999-00	0.45	0.29	0.00
2000-01	0.45	0.20	0.00
2001-02	0.45	0.19	0.00
2002-03	0.45	0.16	0.00
2003-04	0.45	0.39	0.00
2004-05	0.45	0.34	0.00
2005-06	0.45	0.455	0.05
2006-07	0.45	0.29	0.00
2007-08	0.45	0.41	0.00
2008-09	0.45	0.54	0.95
2009-10	0.45	0.58	1.38
2010-11	0.45	0.31	0.00
2011-12	0.45	0.43	0.00
2012-13	0.45	0.505	0.55
2013-14	0.45	0.43	0.00
2014-15	0.45	0.35	0.00
2015-16	0.45	0.35	0.00
2016-17	0.45	0.31	0.00
2017-18	0.45	0.21	0.00
2019-20	0.45	0.19	0.00
2019-20	0.45	0.14	0.00
2020-21	0.45	0.12	0.00
2021-22	0.45	0.20	0.00
2022-23	0.45	0.35	0.00
2023-24	0.45	0.35	0.00
2024-25	0.35	0.33	0.00

5. Godavari Khani No.10 Incline (Mining operation stopped)

Year	EC sanctioned capacity(MTPA)	Actual production (MTPA)	Excess production beyond the EC sanctioned capacity (MTPA)
1993-94	0.45	0.45	0.00
1994-95	0.45	0.45	0.00
1995-96	0.45	0.45	0.00
1996-97	0.45	0.45	0.00
1997-98	0.45	0.45	0.00
1998-99	0.45	0.35	0.00
1999-00	0.45	0.41	0.00
2000-01	0.45	0.37	0.00
2001-02	0.45	0.38	0.00
2002-03	0.45	0.40	0.00
2003-04	0.45	0.40	0.00
2004-05	0.45	0.40	0.00
2005-06	0.45	0.40	0.00
2006-07	0.45	0.35	0.00
2007-08	0.45	0.38	0.00
2008-09	0.45	0.54	0.00

Year	EC sanctioned capacity(MTPA)	Actual production (MTPA)	Excess production beyond the EC sanctioned capacity (MTPA)
2009-10	0.45	0.48	0.00
2010-11	0.45	0.39	0.00
2011-12	0.45	0.41	0.00
2012-13	0.45	0.38	0.00
2013-14	0.45	0.34	0.00
2014-15	0.45	0.22	0.00
2015-16	0.45	0.29	0.00
2016-17	0.45	0.27	0.00
2017-18	0.45	0.21	0.00
2019-20	0.45	0.11	0.00

32.11.3: Environmental Site Settings: The project area is covered under Survey of India Topo Sheet No. E44H10 and is bounded by the geographical coordinates ranging from Latitudes N 18°36'48" to 18°41'36" & Longitudes E 79°31'41" to 79°36'42".

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

Forest Area: The project involved total 703.23 ha of forest land the details of the approval already obtained or applied for is as follows:

S. No.	Forest land (ha)			Remarks
	Surface rights	UG rights	Total	
1	247.00	0	412.40	- 247.00 ha FL was diverted (stage-II FC) vide Letter No. 8-109/2005-FC, dated 05.05.2008 valid for 20 years.
	147.42	0		- 147.42 ha FL was diverted (stage-II FC) vide Letter No. 8-109/2005-FC, dated 01.08.2013 valid for 20 years.
	0	17.98		- 17.98 ha remained with UG rights. - Application for the balance 17.98 ha was submitted for conversion from UG to surface rights. - As per the instructions of PCCF, TG DGPS survey was conducted and the extent was authenticated by the PCCF, TG as 17.994 ha.
Sub-total	394.42	17.98	412.40	
2	290.83	0	290.83	- 290.83 ha is part of 330.1826 ha of FL for which Stage-I Forest Clearance was obtained vide Lr. No 8-16/2021-FC, dated 21.11.2023.
Total	685.25	17.98	703.23	

Total broken forestland is 394.28 Ha (on which Stage – II forest clearance has been accorded). The project does not involve violation of Van (Sanrakshan Evam Samvardhan) Adhiniyam, 1980.

Protected Area: The project is not located within 10 KM of any ESZ/ ESA/ national park/ biosphere reserve/ tiger reserve/ elephant reserve/tiger corridor/elephant corridor etc. However, the project is located within 6.07 KM of Siwaram (Crocodile) Wild Life Sanctuary. NOC obtained from the National Board for Wildlife (NBWL), vide F. No. 6-66/2021 WL, dt. 07.02.2022. As directed, an amount of Rs.821.76 lakhs was deposited with “Forest Bio-

Diversity Conservation Society of Telangana” for taking up wildlife mitigation measures. Further, there is no violation of WLP Act, 1972.

A Wild Life Conservation Plan for 28 schedule-I species (namely: *Indian Pangolin, Indian Wolf, Four-horned Antelope, Sambar, Indian Crested Porcupine, Indian Fox, Indian Giant Squirrel, Indian Grey Mongoose, Jungle Cat, Small Indian Civet, Indian Flapshell Turtle, Indian Star Tortoise, Bengal monitor, Indian Python, Red sand boa, Checkered Keelback, Indian Chameleon, Indian Cobra, Indian Rat Snake, Russell’s Viper, Black Kite, Black-winged Kite, Grey Jungle Fowl, Indian Peafowl, Shikra, Short-toed Snake Eagle, Small Minivet and White-eyed Buzzard*) was prepared and approved by the Principal Chief Conservator of Forests and Chief Wildlife Warden for an amount of Rs.335.68 lakhs, vide Re.No.3505/2020/WL-1, dt. 08.04.2021.

Mining Lease: Total mine lease area is 4326.08 Ha, out of which 3915.57 Ha covered in 3 Mining leases and balance 410.51 ha is NCBA for which LOI has already been obtained. Details of the same are as follows:

S. No.	Project Area (in ha)	Mining Lease Details
1.	1.87	Renewal of Additional South Godavari Mining Lease (1554 ha), vide G.O.Ms. No. 201, I & C (M.II) Dept, dated: 31.07.2008 & Proceeding No. 4531/M/20003, dated 12.11.2018 and valid up to 16.09.2025.
2.	37.46	Renewal of South Godavari Mining Lease (6848 ha), vide G.O.Ms. No. 2 Energy (PR-I) Dept, dated 12.01.2015 & Proceeding No. 2463/ML/2012, dated 26.03.2015 and valid up to 31.12.2034
3.	96.24	Julapalli Mining Lease (3657.69 ha), vide G.O.Ms. No. 02, Energy (POWER.II) Dept, dated 26.05.2022 & Proceeding No. 3077/ML/2022, dated 27.10.2022 and valid up to 18.12.2041
4.	10.51	Consent granted by State Govt. for RG OC-I (89.83 ha), vide Lr. No 1037/PR(A1)/2018, dated 18.09.2018 and RG OC-II (320.68 ha), 1212/PR(A1)/2018, dated 15.11.2018.
Total	166.08	

Land details for the instant project are as follows:

Nature of land involved	Area existing (Ha)	Additional proposed area (Ha)	Total area required (Ha)
Non – forest land	2868.98	753.87	3622.85
Forest land	397.9	305.33	703.23
Total	3266.88	1059.2	4326.08

Other Sensitive Receptors:

Project site proximity to sensitive area	Distance in km (within 5 km from the ML area)		
i. Habitation	Village Name	Distance (km)	Direction
	Julapally	1.10	NW
	Mulkalapally	0.9	NW
	Kamanpur	2.5	NW
	Gundaram	4.5	NW
	Rompikunta	5.5	NW
	8-Incline Colony (SCCL)	0.4	NW
	Penchikalapeta & Pothana Colony (SCCL)	2.2	NW
	Allur	1.3	NW
	Verrlapally	3.5	NW
	Pannur	0.2	W
	Centenary Colony (SCCL)	0.5	W

Project site proximity to sensitive area	Distance in km (within 5 km from the ML area)		
	Kalvacharla	2.0	W
	Rajapur	4.0	W
	Ratnapur	0.5	W
	Nagepally	0.2	W
	Adivarmpeta	0.3	SW
	Begumpeta	2.5	SW
	Jallaram	3.0	N
	Chillapally	1.2	N
	Gunjapadugu	1.0	N
	Singireddy pally	3.2	N
	Mustyala	5.2	N
	Godvarikhani	5.1	N
	Nagaram	0.9	NE
	Bestapalle	3.2	NE
	Pandulapalle	0.7	E
	Kachirajpally	4.5	SE
	Puttapaka	0.9	SE
ii. School	Particulars	Distance (km)	Direction
	MPPS, Julapally	1.30	NW
	ZPHS, Julapally	1.40	NW
	MPPS, Mulkalpally	1.2	NW
	ZPHS, Kamanpur	2.8	NW
	MPUPS, kamanpur	3.5	NW
	MPPS, kamanpur	4.0	NW
	MPUP, Gundaram	5.0	NW
	Singareni High School, 8-Inc. colony	1.5	NW
	Singareni Primary School, 8-Inc. Colony	1.5	NW
	Sri Vani Vidyanikethan, 8-Inc. Colony	1.1	NW
	MPUPS, Penchikalapeta	2.2	NW
	MPUPs, Allur	1.5	NW
	MPPS, Veerlapally	3.5	NW
	MPPS, Pannur	0.5	W
	MPPS, Centenary Colony	1.5	W
	Krishnaveni talent Pvt. School, Centenary Colony	1.5	W
	ZPHS, Kalvacherla	2.0	W
	MPPS, Kalvacherla	2.5	W
	Rainbow Primary Pvt. School, Kalvacherla	2.5	W
	MPPS, Rajapur	4.0	W
	MPPS, Ratnapur	0.8	W
	MPUPS, Ratnapur	0.5	W
	ZPHS, Nagepally	0.5	W
	MPPS, Nagepally	0.5	W
	MPUPS, Adivarmpeta	0.5	SW
	MPPS, Begumpeta	2.8	SW
	ZPHS, Begumpeta	3.0	SW
	ZPHS, Gunjapadugu	1.0	N
	MPPS (Scheduled Caste), Gunjapadugu	1.0	N
	MPPS, Gunjapadugu	1.2	N
	MPPS, Singireddypally	3.5	N
	MPPS-Bestapalle	3.2	NE
	MPPS, Puttapaka	1	SE
	MPPS- Mandal Parishat Primary School, MPUPS - Mandal Parishat Upper Primary School, ZPHS- Zilla Parishat High School.		

Project site proximity to sensitive area	Distance in km (within 5 km from the ML area)		
	River/ Nallah	Distance (km)	Direction
iii. River/ Waterbody	Bokkala Vagu	Within ML area	
	Sri ram Sagar Project canals (L6, L7, L8)	Within ML area	
	Rajapur Cheruvu	Within ML area	
	Ramayyapalli Cheruvu	Within ML area	
	Jallaram vagu	0.5	N
	River Godavari (HFL Data is 138.10 m as on 10.10.1995)	5.0	E
	Shila Samudram tank	4.5	E
	Pandulapally tank	1.0	E
	Kamanpur Tank	2.2	NW
	Gundaram Reservior	4.2	NW
	Begumpeta Cheruvu	2.2	SW
iv. Forest	Particulars	Distance (km)	Direction
	Adriyala RF	Within ML area	
	Upprlakesharam RF	Within ML area	
	Begampet Rf	0.4	S
	Khammampalli RF	1	SW
	Ramgir RF	4.2	SW
v. Archaeological Survey of India (ASI) protected site	No		
vi. Any other	No		

Following diversions are proposed for the said project:

- Bokkala vagu:

A seasonal nallah, Bokkala vagu flowing across the mine is proposed to be diverted for a length of 2.3 km. Permission has been obtained from I&CADD, Telangana State for the proposed diversion, vide Ir. No. CE/CDO/SE-1/EE-2/DEE-II/Bokkalavagu/26/2022, dt. 08.03.2022.

- SRSP canals:

The existing Sri Ram Sagar Project (SRSP) L6 canal will be merged in to L8 canal and will be allowed to continue to flow in it (For this purpose, L8 canal will be widened for a length of 3.60 km).

Subsequently, the merged L6 canal will be diverted for a length of 2.0 km and will be reconnected to its original course on the downstream side. All these diversions and widening will be done after obtaining necessary permissions from I&CADD, Telangana

Mitigation measures proposed:

All the mitigation measures will be taken up as per the recommendations of the I&CADD, Telangana State and the detailed mitigation measures will be incorporated in EIA/EMP report.

32.11.4: Mining Plan and Mine Closure Plan: Mining Plan (Including Mine Closure Plan) of Ramagundam Coal Mine (RG Coal Mine) [Conversion of UG Mines to OC (closed GDK 10 & working Vakalpalli sequentially) and Amalgamation of RG OC I Expansion Project, RG OC II Extension Project & Adriyala Longwall Project] has been approved by the Ministry of Coal vide Lr. No 55026/1/ 2020-CPAM, dated: 18th August 2020.

1. It is an opencast cum underground mine. Excavation of coal is proposed Shovel dumper& Dragline / in-pit crushing and conveying technology and highly mechanized

LW equipment; Development of trunk / gate roadways by Bolter Miners / Road headers; B&P by CM / LHDs / SDLs at odd patches.

2. Total geological reserve reported in the mine lease area is 1023.45 MT with 633.45 MT mineable reserves. Out of total mineable reserve of 633.45 MT, 524.57 (OC-344.09; UG-180.48) are extractable. Reserves already extracted are 209.59 MT (OC-161.81; UG-47.78). Balance extractable reserves are 314.98 MT.
3. Total 11 nos of seams are workable, with thickness ranging between, 0.08 – 18.3 m. Grade of coal is G-10 and stripping ratio is 1:8.27.
4. Life of mine: 41 years (OC-24; UG-41).
5. The project has four external OB dumps in an area of 1352.13 ha with 120 m height and 862.60 Mm³ of OB. Two internal OB in an area of 874.54 ha with 120 m height and 1986.66 Mm³ of OB is envisaged in the project.
6. Details of Land usage

a. Pre-mining

S. No.	Land Use	Within ML Area (ha)	LOI Area (ha)	Total
1.	Agricultural Land	2955.678	384.202	3339.88
2.	Forest land	703.23	0	703.23
3.	Waste land	0	0	0
4.	Grazing land	15.23	0	15.23
5.	Surface Water Bodies	37.275	1.875	39.15
6.	Settlements	0	0	0
7.	Other (Township/Barren/Abadi)	204.157	24.433	228.59
Total		3915.57	410.51	4326.08

b. Post mining

S. No.	Type	Total Area	Reclaimed Area	Un-reclaimed area
1.	Excavation/Quarry Area	1932.76		
	(a) Backfilled areas	874.54	826.27	48.27
	(b) Excavated Void	1058.22	0	1058.22
2.	External Dump	1352.13	1352.13	0
3.	Green belt	420.91	420.91	0
4.	Safety zone	389.9	323.49	66.41
5.	Road and infrastructure	170.41	147.96	22.45
6.	Diversion/ below River/ Nala/ canal/ garland Drains	55.48	0	55.48
7.	Embankment	4.49	4.49	0
	Total	4326.08	3075.25*	1250.83

* Reclaimed Area includes Agricultural Land - 335.04 ha (at post-closure stage)

7. Details of transportation of Coal:

- a. In pit to surface: Coal will be transported from quarry to surface through series of belt conveyors.
- b. Surface to siding: Coal will be transported through series of belt conveyors from surface to siding.
- c. Siding to loading: Coal will be transported through series of belt conveyors from siding to silo loading and from there through Rail mode to customers.
- d. Quantity being transported by Road/Rail/conveyer/ropeway: Quantity of 13.30 MT is being transported by Rail mode.

- e. Proposed change in transportation means it any, give details: The capacity of the existing transport system is sufficient for dispatching the enhanced peak production capacity of 21 MTPA.
8. Reclamation: Afforestation shall be progressively done covering an area of 3075.25 ha at the end of mining. This will include, reclaimed external OB dump in 1352.13 Ha, internal dump of 826.27 Ha and greenbelt in 420.91 ha (including Agricultural Land - 335.04 ha at post closure stage), others (such as excavation area along ML boundary, along roads and infrastructure, embankment area and in township located outside the lease etc) 475.94 Ha. Density of plantation shall be 2500 plants per Ha.

Following three nos of voids are proposed:

- a. Void of RG OC – I within an area of 533.94 Ha with maximum depth of 350 m.
- b. Void of RG OC-II within an area of 524.28 Ha with the maximum depth of 330 m
- c. Void of Adriyala UG Mine with the maximum depth of 850 m.

32.11.5: Baseline Data:

Period	October to December, 2024
AAQ parameters at 15 Locations (5 in core zone and 10 in buffer zone)	Core Zone PM ₁₀ = 141 to 184.3 µg/m ³ PM _{2.5} = 42.3 to 61.2 µg/m ³ SO ₂ = 11.7 to 13.3 µg /m ³ NO _x = 11.8 to 17.6 µg/m ³ CO = BDL Buffer Zone PM ₁₀ = 58 to 77 µg/m ³ PM _{2.5} = 34.4 to 44.2 µg/m ³ SO ₂ = 10.5 to 11.7 µg/m ³ NO _x = 9.6 to 14.1 µg/m ³ CO = BDL
Incremental GLC Level	The present proposal is for seeking ToR and incremental GLC Levels will be incorporated in EIA/EMP report.
Ground water quality at 6 locations	pH: 7.3 to 7.7, Total Hardness: 345 to 474 mg/l, Chlorides: 68 to 182 mg/l, Fluoride: 0.52 to 0.85 mg/l. Heavy metals: The concentrations of heavy metals Cadmium (Cd), Manganese (as Mn), Copper (Cu), Lead (Pb), Zinc (as Zn), Selenium (as Se), Arsenic (as As), Chromium (Cr), Nickel (Ni) and Aluminum (as Al) were either below the detection limits or within the permissible limits at all locations.
Surface water quality at 11 locations	pH: 7.3 to 8.4 DO: 5.4 to 6.6 mg/l and BOD: 2.6 to 2.9 mg/l. COD from 19.3 to 29 mg/l. The surface water quality conforms to Class-B as per CPCB water quality criteria.
Noise levels Leq (Day and Night)	Industrial Area: 43.6 dB(A) to 58.1 dB(A) for the day time and 32.4 dB(A) to 44.8 dB(A) for the Night time. Residential Area: 40.4 dB(A) to 49.4 dB(A) for the day time and 30.1 dB(A) to 37.7 dB(A) for the Night time.
Traffic assessment study findings	Will be incorporated in EIA/EMP

Flora and fauna	<p>Endangered Flora: <i>Pterocarpus santalinus</i> (planted) and <i>Tectona grandis</i>.</p> <p>Endangered Fauna: 21 Schedule – I Species (namely: <i>Indian Pangolin</i>, <i>Indian Wolf</i>, <i>Four-horned Antelope</i>, <i>Sambar</i>, <i>Indian Crested Porcupine</i>, <i>Indian Fox</i>, <i>Indian Giant Squirrel</i>, <i>Indian Grey Mongoose</i>, <i>Jungle Cat</i>, <i>Small Indian Civet</i>, <i>Indian Flapshell Turtle</i>, <i>Indian Star Tortoise</i>, <i>Bengal monitor</i>, <i>Indian Python</i>, <i>Red sand boa</i>, <i>Checkered Keelback</i>, <i>Indian Chameleon</i>, <i>Indian Cobra</i>, <i>Indian Rat Snake</i>, <i>Russell's Viper</i>, <i>Black Kite</i>, <i>Black-winged Kite</i>, <i>Grey Jungle Fowl</i>, <i>Indian Peafowl</i>, <i>Shikra</i>, <i>Short-toed Snake Eagle</i>, <i>Small Minivet</i> and <i>White-eyed Buzzard</i>)</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.335.68 lakhs, vide letter No. Re.No.3505/2020/WL-1, dt. 08.04.2021.</p>
Water Requirement	<ul style="list-style-type: none"> Source of Water: Mine seepage water Ground Water Intersection: Ground water level is intersecting at a depth of 20 m Water Requirement: 10,200 KLD NOC (For surface water): Not applicable NOC (Ground Water): Available for all operating mines. However, an application has been submitted for the proposed RG Coal Mine

32.11.6: Details of Water Requirement: The water requirement for the said project is 10,200 KLD and the source of water shall be mine seepage water. Following are the details of the permissions obtained for groundwater are as follows:

S. No.	Project Name	Ltr. No. & Date.
1	RG OC-I Exp. Project, Phase-II	Lr.No.08/TGGWD/WALTA/NOC/PDPL/ Mine/ RG-OC-I Expansion Phase-II, dt: 08.05.2025
2	RG OC-II Extension Project	Lr.No.04/TGGWD/WALTA/NOC/PDPL/Mine/ RG-OC-II, dt: 10.01.2025.
3	Adriyala Shaft Project	Lr.No.05/TGGWD/WALTA/NOC/PDPL/ Mine/ Adriyala Shaft UG Coal, dt: 07.04.2025.
4	Vakilpalli Mine:	Lr.No.06/TGGWD/WALTA/NOC/PDPL/ Mine/ Vakilpalli-U/G, dt: 07.04.2025.
5	GDK 10 Incline	Lr.No. 1081/T/2007, dated 10.09.2007

Further, PP submitted that, 2.3 km length of Bokkalavagu will be diverted and the diversion length is 1.5 km. SRSP canal of 3.5 km will also be diverted.

32.11.7: Details of Power Requirement and diversion of High-Tension/Transmission Line: The power requirement for the said project is 35.03 MVA. The source of power supply is from SCCL 132/33 kV sub-station, RG III Area. Further, no HT Line/ Transmission Line is proposed for diversion.

32.11.8: Details of Solid and Hazardous Waste Generation:

S. No.	Type of Waste	Source	Quantity	Mode of Treatment	Disposal	Remarks
1	Overburden (Solid waste)	Quarrying	32000000 TPA	Haul Road	External & Internal Dumping with reclamation activity	All environmental protection measures will be addressed in EIA/EMP report.
2	Lead acid batteries	HEMM	1 TPA	Road	Disposed to authorized recyclers	Disposed as per the provisions of Hazardous & Other Wastes (Management & Tran boundary

S. No.	Type of Waste	Source	Quantity	Mode of Treatment	Disposal	Remarks
						Movement) Rules, 2016.
3	Used Oil	HEMM and other machinery	180 KL/Annum	Road	Disposed to authorised recyclers	Disposed as per the provisions of Hazardous & Other Wastes (Management & Transboundary Movement) Rules, 2016.
4	ETP sludge	Washing of HEMM	48 Litres/Annum	Road	Disposed to authorised recyclers	Disposed as per the provisions of Hazardous & Other Wastes (Management & Transboundary Movement) Rules, 2016.
5	Plastic bottles, covers, damaged furniture	Pit offices	0.02	Road	Disposed to authorized recyclers	Disposed as per the provisions of Hazardous & Other Wastes (Management & Transboundary Movement) Rules, 2016.
6	Damaged computer peripherals, LED lamps etc.,	Office, workshops etc.,	0.1	Road	Disposed to authorized recyclers	Disposed as per the provisions of E-waste (Management) Rules, 2022.

32.11.9: Plantation: Out of 4326.08 ha of project area, plantation will be done in a phased manner in area of 3075.25 ha over the dump yards, safety zone, greenbelt, excavation area along ML boundary, roads and infrastructure and embankment area. The details of stage wise plantation details are furnished hereunder:

Stage	Progressive Plantation	Cumulative Plantation
Up to 31.03.2020	279.44	279.44
Y-1	59.52	338.96
Y-3	146.94	485.9
Y-5	124.46	610.36
Y-10	652.75	1263.11
Y-15	596.95	1860.06
Y-17	566.95	2427.01
Y-20	167.39	2594.40
Y-25	195.29	2789.69
Y-30	115.36	2905.05
Y-35	0	2905.05
Y-40	0	2905.05
Y-41	26.59	2931.64
Y-45	143.61	3075.25
Y-46	3075.25	

32.11.10: Rehabilitation & Resettlement Plan: Total 5 nos of villages are involved (namely: Ladnapur, Rachapalli, Rajapur, Akkepalli and Budhavarampet) in the said project. Out of these villages one village (Rachapalli) has been completely rehabilitated and 2 more villages (Akkapalli and Rachapalli) are partially rehabilitated. Villages Rajapur and Budhavarampet is further proposed to be shifted. There are 4816 nos of project displaced families involved, out of which 2116 PDFs has already been rehabilitated and remaining 2700 PDFs will be further rehabilitated.

32.11.11: Project Cost: Total capital cost of the said project is Rs. 2194.05 Crores.

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

Deliberations and Observation of the Committee:

32.11.13: The Committee noted the following:

1. The instant proposal is for grant of terms of reference for Ramagundam Coal Mine (RG Coal Mine) [Conversion of UG Mines to OC (closed GDK 10 & working Vakilpalli sequentially) and Amalgamation of RG OC I Expansion Project, RG OC II Extension Project & Adriyala Longwall Project] (having production capacity 21 MTPA within the ML area of 4326.08 Ha] of M/s Singareni Collieries Company Limited, located at villages: Pannur, Nagepally, Ladnapur, Ratnapur, Bhudavarampet, Ramayyapalli, Vakilpalli, Jallipalli and Mulkalapalli; District: Peddapalli; State: Telangana.
2. The instant proposal was earlier apprised in the 27th EAC Meeting held on 18-19th June 2025. The EAC returned the said proposal in its present form on account of certain observations, such as implementation of remediation plan for the mines involving violation and reduction in depth and area of voids proposed post mining. Now the above mentioned proposal is placed in 32nd EAC Meeting held on 24-25th September 2025.
3. Ramagundam Coal Mine Project is Conversion of UG Mines to OC (closed GDK 10 & working Vakilpalli sequentially) and Amalgamation of RG OC I Expansion Project, RG OC II Extension Project & Adriyala Longwall Project for enhancement of production capacity from 13.74 MTPA to 21 MTPA and increase in lease area from 3266.88 ha to 4326.08 ha.
4. The details of the previous approvals obtained for the above mentioned mines are as mentioned in para no. 32.11.2. All the ECs or CTOs obtained are being implemented.
5. The EAC took into consideration the project site through kml file on the Google Earth presented by the project proponent along with DSS of the project site on PARIVESH.
6. Project does not fall in the Critically Polluted Area (CPA)/ severely polluted Area (SPA), as per CEPI Assessment 2018.
7. The project involves total 703.23 ha of forestland. Out of this, PP has already obtained Stage – II forest clearance for 394.42 Ha of forestland for surface rights and 17.98 Ha of FC for underground rights. Further, PP has submitted application for conversion of underground rights to surface rights for 17.98 Ha of forestland. For the remaining 290.83 Ha of forestland, PP has obtained the stage – I forest clearance. Details of the approvals accorded is submitted in Para 32.11.3 mentioned above.

8. The project is not located within 10 KM of any ESZ/ ESA/ national park/ biosphere reserve/ tiger reserve/ elephant reserve/tiger corridor/elephant corridor etc. However, the project is located within 6.07 KM of Siwaram (Crocodile) Wild Life Sanctuary. NOC obtained from the National Board for Wildlife (NBWL), vide F. No. 6-66/2021 WL, dt. 07.02.2022. As directed, an amount of Rs.821.76 lakhs was deposited with “Forest Bio-Diversity Conservation Society of Telangana” for taking up wildlife mitigation measures. Further, there is no violation of WLP Act, 1972.

Apart from this, the project also involves presence of Schedule – I species, and a Wildlife Conservation Plan was prepared and approved by the Principal Chief Conservator of Forests and Chief Wildlife Warden for an amount of Rs.335.68 lakhs, vide Re.No.3505/2020/WL-1, dt. 08.04.2021. PP should revisit the list of Schedule-I species as there is some discrepancy in the list provided by the PP and accordingly shall modify the WLCP.

9. Total mine lease area is 4326.08 Ha, out of which 3915.57 Ha covered in 3 Mining leases and balance 410.51 ha is NCBA for which LOI has already been obtained. Details of the approvals obtained have been mentioned in Para 32.11.3, mentioned above.
10. Committee deliberated on the sensitive receptors present in close vicinity of the ML area and observed that, there are various schools present within 1 km of the ML area. Committee opined that PP shall submit the plan to relocate these schools. If not proposed to be relocated, PP shall submit mitigation measures to be undertaken for these schools.
11. Mining Plan (Including Mine Closure Plan) of Ramagundam Coal Mine (RG Coal Mine) [*Conversion of UG Mines to OC (closed GDK 10 & working Vakilpalli sequentially) and Amalgamation of RG OC I Expansion Project, RG OC II Extension Project & Adriyala Longwall Project*] has been approved by the Ministry of Coal vide Lr. No 55026/1/ 2020-CPAM, dated: 18th August 2020.
12. Method of mining to be adopted shall be opencast cum underground mine. Excavation of coal is proposed Shovel dumper& Dragline / in-pit crushing and conveying technology and highly mechanized LW equipment; Development of trunk/ gate roadways by Bolter Miners / Road headers; B&P by CM / LHDs / SDLs at odd patches.
13. Total geological reserve reported in the mine lease area is 1023.45 MT with 633.45 MT mineable reserves. Out of total mineable reserve of 633.45 MT, 524.57 (OC-344.09; UG-180.48) are extractable. Reserves already extracted are 209.59 MT (OC-161.81; UG-47.78). Balance extractable reserves are 314.98 MT.
14. Life of mine: 41 years (OC-24; UG-41). Grade of coal is G-10 and stripping ratio is 1:8.27.
15. The project has four external OB dumps in an area of 1352.13 ha with 120 m height and 862.60 Mm³ of OB. Two internal OB in an area of 874.54 ha with 120 m height and 1986.66 Mm³ of OB is envisaged in the project.
16. Committee deliberated on the mode of transportation of coal proposed for the said mine and observed that from in pit to surface and further from surface to siding the coal is proposed to be transported by series of belt conveyor. From siding to loading the coal will be loaded with silo and will be transported to the final consumer by rail.

Committee also observed that the existing transportation system is sufficient to dispatch the peak rated capacity production of 21 MTPA from the said mines. Committee opined that as committed by the PP, the entire coal transportation shall be done by conveyor and rail itself and road transportation of coal shall be done.

17. During the deliberation, Committee observed that the area of void and the depth of void, which is proposed to be converted into water is too much. Committee opined, that the PP shall rework on the mine plan and reduce the area and depth of the proposed void.
18. Committee deliberated on the baseline data submitted by the PP and found the parameters to be within the permissible limits. Committee observed that the values of PM₁₀ are observed to be on the higher side. Committee opined that, PP shall submit a time bound action plan along with the budgetary provisions to mitigate the air pollution being caused due to the mining activities. EMP shall accordingly prepared and submitted.
19. Total water requirement for the said project is 10,200 KLD. Source of water shall be mine seepage water. Permission from CGWA for the same has been obtained individually for all the mines. Details of the same has been discussed in para 32.11.6 mentioned above.
20. During the deliberation Committee observed that Bokkalavagu and SRSP canal is proposed to be diverted. Committee opined that PP shall carryout the aquatic biodiversity for the Bokkalavagu stream and SRSP canal by a NABET accredited consultant.
21. The power requirement for the said project is 35.03 MVA. The source of power supply is from SCCL 132/33 kV sub-station, RG III Area. Further, no HT Line/ Transmission Line is proposed for diversion.
22. Committee deliberated on the plantation activities proposed for the said project and observed that, out of 4326.08 ha of project area, plantation will be done in a phased manner in area of 3075.25 ha over the dump yards, safety zone, greenbelt, excavation area along ML boundary, roads and infrastructure and embankment area. A plan for stage-wise plantation has been submitted by the PP in this regard.
23. Committee deliberated on the rehabilitation and resettlement issues for the said project and observed that, total 5 nos of villages are involved (namely: Ladnapur, Rachapalli, Rajapur, Akkepalli and Budhavarampet) in the said project. Out of these villages one village (Rachapalli) has been completely rehabilitated and 2 more villages (Akkapalli and Rachapalli) are partially rehabilitated. Villages Rajapur and Budhavarampet is further proposed to be shifted. There are 4816 nos of project displaced families involved, out of which 2116 PDFs has already been rehabilitated and remaining 2700 PDFs will be further rehabilitated. Committee opined that the rehabilitation of the remaining 2700 PDFs shall be done at the earliest in accordance to the rules of the State Government.
24. Total capital cost of the said project is Rs. 2194.05 Crores.
25. There is no legal issue/violation w.r.t i) Environment (Protection) Act, ii) Air(P&CP) Act, Water (P&CP), Act, Van (SanrakshanEvamSamvardhan) Adhiniyam, Wildlife Protection Act, MMDR Act, Factories Act. Further, there is no court case on the project.

Recommendations of the Committee:

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

Specific ToRs:

1. Project Proponent shall submit the drone video & photographs of the ML area and transportation route proposed for this project with special focus on the sensitive receptors in the ML area and in the transportation route.
2. Project Proponent shall obtain fresh stage I FC for the 17.98 Ha of forestland, for the underground rights are to be converted into surface rights.
3. Project proponent shall submit an action plan for relocation of schools located in close vicinity to the lease area in consultation with the State Government of Telangana.
4. A Cumulative Environmental Impact Assessment study of all the coal mines situated adjacent to the mine lease area shall be conducted and the same shall be included in the EIA/EMP report. Details of industrial units present in 10 km radius of the ML area shall be earmarked in map and submitted.
5. PP shall submit a letter from the State Forest Department for the impact on the baseline data of the forest area due to the mining activities of the instant project.
6. Project proponent shall modify the mine plan in order to reduce the area and depth of the mine void which is proposed to be converted into water body. Along with this, PP shall also submit the void management plan along with the EC application.
7. Biodiversity analysis of the core zone and buffer zone of the ML area shall be done through any reputed NABET accredited institute. The study report shall inter-alia include impact of mining on flora and fauna and action plan for complying with the mitigation measures shall be submitted. The Ecology and biodiversity study should include likely impact of land use change in terms of use of forest area for surface infrastructural development in relation to the climate change of that area and what will be the affect after adopting the mitigation measures.
8. PP shall explore the possibilities of utilization of OB material for different purposes (in construction of roads/ manufacture of artificial sand, aggregates/ use for farmers etc.) and accordingly Plan shall be included in EIA/EMP Report.
9. No mining activity shall be proposed on grazing land till the alternate land is provided of same area to the community. PP shall strictly adhere with the rules of State Government in this regard and provide alternate land for grazing to the villagers in consultation with the District Collector. Valid documents in this regard shall be submitted along with the application for EC.
10. Impact of proposed project/activity on hydrological regime of the area shall be assessed and report be submitted. Hydrological studies as per GEC 2015 guidelines to be prepared and submitted.
11. The socio-economic study shall be conducted with actual survey report and a comparative assessment to be provided from the census data of 2011-part B to be provided in EIA/ EMP report also economic status of the study area and what

economically project will contribute should be clearly mention. The study should also include the status of infrastructural facilities and amenities present in the study area and a comparative assessment with census data of 2011 part A to be provided and to link it with the initialization and quantification of need based survey for CER activities to be followed.

12. A detailed traffic study along with presence of habitation in 100 mts distance from both side of road, the impact on the air quality and noise quality with its proper measures and plan of action with timeline for widening of road. The project will increase the no. of vehicle along the road which will indirectly contribute to carbon emission so what will be the compensatory action plan should be clearly spell out in EIA/ EMP report.
13. Project proponent shall prepare the EIA-EMP report and thereafter conduct the Public Consultation, including public hearing, through concerned SPCB in the Peddapalli District as per the provisions/procedure contained in the EIA Notification, 2006.
14. PP shall submit the EIA/EMP report after the plagiarism check using authenticated plagiarism software.
15. As per the Ministry's OM dated 30.09.2020, to address the concerns raised during Public Hearing, Project Proponent is required to submit the detailed activities proposed with year wise budgetary provision for next 5 years (Capital and recurring). Activities proposed shall be part of EMP.
16. PP should provide in the EIA Report details of all the statutory clearances, permissions, no objection certificates, consents etc. required for this project under various Acts, Rules and regulations and their status or estimated timeline after grant of EC.
17. The PP should submit the number of saplings to be planted in area to be covered under afforestation & green belt, location of plantation, target for survival rate and budget earmarked for the afforestation & green belt development. In addition to this PP should show on a surface plan (5-year interval for life of mine) of suitable scale the area to be covered under afforestation & green belt clearly mentioning the latitude and longitude of the area to be covered during each 5 years. The capital and recurring expenditure to be incurred needs to be submitted. Plantation plan should be prepared in such a way that 80% of the plantation to be carried out in first 5 years and for the remaining years the proposal for gap filling. The seedling of height not less than 2 meters to be selected and accordingly cost of plantation needs to be decided. In addition to this plantation in the safety zone at lease boundary the plantation should be completed within 2 years only. PP should submit a concurrent plantation plan.
18. Project Proponent should submit the quantity of surface or ground water to be used for this project. The complete water balance cycle need to be submitted. In addition to this PP should submit a detailed plan for rain water harvesting measures to be taken. The PP should submit the year wise target for reduction in consumption of the ground/surface water by developing alternative source of water through rain water harvesting measures. The capital and recurring expenditure to be incurred needs to be submitted.
19. Project Proponent shall obtain water withdrawal permission from ground water authority for 10,200 KLD.
20. Project proponent shall carry out aquatic biodiversity study for the Bokkalavagu

stream and SRSP canal, which are proposed to be diverted through a NABET accredited consultant.

21. Project Proponent should clearly bring out the details of the manpower to be engaged for this project with their roles /responsibilities/designations. In addition to this PP should mention the number and designation of person to be engaged for implementation of environmental management plan (EMP). The capital and recurring expenditure to be incurred needs to be submitted.
22. Project Proponent should submit the year-wise, activity wise and time bound budget earmarked for EMP, occupational health surveillance, and activities proposed to address the issues raised during Public Hearing. The capital and recurring expenditure to be incurred needs to be submitted.
23. In case of ground water abstraction/intersection, the PP shall comply with the Ministry's OM dated 23/05/2019. Compliance status needs to be presented before EAC at the time of appraisal
24. Project Proponent should clearly bring out that what is the specific diesel consumption ~ (Liters/Tonne of total material handled) and steps to be taken for reduction of the same. The year-wise target for reduction in the specific diesel consumption needs to be submitted. PP shall also explore the possibility of using e-vehicles/LPG/CNG-based machinery and trucks for the operation and transportation of coal.
25. All the certificates viz. Involvement of Forest land, distance from protected area, and list of flora & fauna should be duly authenticated by the Forest Department. The Certificate should bear the name, designation, official seal of the person signing the certificate and dispatch number.
26. Details on waste water generation (Industrial and domestic), their treatment (technology, methodology and capacity) and disposal to be submitted.
27. Details on renewable energy proposed to be installed as energy conservation measures shall be submitted.
28. PP shall submit the action plan to adhere to the Plastic Waste Management Rules 2016 and to adhere Ministry's OM dated 18/07/2022.
29. PP shall submit design details of all Air Pollution control equipment (APCEs) to be implemented as part of the Environment Management Plan vis-à-vis reduction in the concentration of emission for each APCE.
30. The PP should ensure that only NABET accredited consultant shall be engaged for the preparation of EIA/EMP Reports. PP shall ensure that accreditation of consultant shall be valid during the collection of baseline data, preparation of EIA/EMP report and during the appraisal process. The PP and consultant should submit an undertaking the information and data provided in the EIA Report and submitted to the Ministry are factually correct and PP and consultant are fully accountable for the same.
31. PP should revisit the Wild Life Management Plan regarding the Schedule I species as there is discrepancy in the list of Schedule – I species present in the said area.
32. The PP should submit the photographs of monitoring stations & sampling locations. The photograph should bear the date, time, latitude & longitude of the monitoring station/sampling location. In addition to this PP should submit the original test reports and certificates of the labs which will analyse the samples.

33. Project proponent obtain a letter from the district collector as credible proof that rehabilitation and resettlement issues are involved in the said project and submit the same along with the application for Environment Clearance.
34. Project proponent is advised to implement the 'Ek Ped Maa Ke Naam' Campaign which was launched on 5th June 2024 on the occasion of the World Environment Day to increase the forest cover across the Country. This plantation drive is other than Green belt development.
35. 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. 32.12:

32.12: Jhiria Underground Project (having production capacity of 0.33 MTPA within the ML area of 557 Ha), by **M/s South Eastern Coalfields Limited** located at villages: Dumar kachar, Malga, Bhatitarai; Tehsil: Kotma; **District: Anuppur; State: Madhya Pradesh - Revalidation of Environmental Clearance based on ADS Reply – reg.**

[Online Proposal no. IA/MP/CMIN/7363/2002; File no. J-11015/13/2002-IA.II(M)]

32.12.1: M/s South Eastern Coalfields Limited has made an online application vide proposal no. IA/MP/CMIN/7363/2002 dated 11.09.2018 along with copy of Form, certified compliance report (as part of ADS reply) and sought for revalidation of Environment Clearance (EC) accorded for Expansion of Jhiria Underground Project vide letter no. J-11015/13/2002-IA.II(M) on 04.10.2004 for production capacity of 0.33 MTPA under EIA Notification, 1994. The instant proposal is for obtaining re-validation of EC under EIA Notification, 2006, in compliance of the Gazette Notification S.O. No. 1530(E) dated 06.04.2018 for existing project with ML area of 557 Ha.

The proposal was initially considered in 44th meeting of EAC (Coal Mining Sector) held on 24-25.04.2019. Proposal was deferred for want of additional information. As per the amendment to EIA Notification, 2006 on 20.04.2022, the proposed project activity is now listed at schedule no. 1(a) “mining of minerals” Under Category “A” of the schedule of the EIA Notification, 2006.

The ADS reply was initially submitted by the Project Proponent on 06.05.2024, following which subsequent ADS were raised on 25.05.2024. The ADS reply was submitted on 02.08.2025, and further ADS were issued on 13.08.2025, which were replied to by the PP on 18.08.2025. Now the proposal has been placed in 32nd EAC meeting held on 25.09.2025 for appraisal based on ADS replies submitted by the PP.

32.12.2: The Committee noted the following from the proposal submitted by the project proponent:

1. The instant proposal is for revalidation of EC accorded by M/s South Eastern Coalfields Ltd for Jhiria Underground Project granted vide letter no. J-11015/13/2002-IA.II(M) on 04.10.2004 for production capacity of 0.33 MTPA within the ML area of 557 Ha under

EIA Notification, 1994. The instant proposal is for obtaining re-validation of EC under EIA Notification, 2006, in compliance of the Gazette Notification S.O. No. 1530(E) dated 06.04.2018 for existing project with ML area of 557 Ha.

2. PP applied for revalidation of EC in PARIVESH Portal on 11.09.2018, i.e., well within the window period of 6 months (i.e. before 5.10.2018) and also submitted Form-1 as required under S.O 1530(E) dated 06.04.2018 for the re-validation of EC under EIA Notification 2006 (as amended).
3. Committee observed that the said project was earlier apprised in 44th meeting of EAC (Coal Mining Sector) held on 24-25.04.2019 and the same was deferred for want of additional information. The ADS reply was initially submitted by the Project Proponent on 06.05.2024, following which subsequent ADS were raised on 25.05.2024. The ADS reply was submitted on 02.08.2025, and further ADS were issued on 13.08.2025, which were replied to by the PP on 18.08.2025.
4. Committee deliberated on the certified compliance report obtained by the PP. The status of compliance of earlier EC was obtained from MoEF&CC, IRO Bhopal vide letter no – 3-11/2004(Env) dated 11.07.2025. No non – complied/ partially complied conditions reported in Certified Compliance report of Jhiria Underground Project. However, there were certain conditions stated as being complied and Committee deliberated on the same. Details of the same is as follows:
 - i. Committee observed that as per specific condition no. x of EC dated 04.10.2004, PP was supposed to install sewage treatment plant in the colony. However, the same is yet to be installed.
 - ii. As per specific condition no. xi, PP was supposed to implement Wildlife Conservation Plan. However, the same is yet to be prepared.
 - iii. As per general condition no. iii of EC dated 04.10.2004, PP was supposed to install CAAQMS. However, the same is yet to be installed.
 - iv. Rainwater harvesting structures are under construction and are yet to be completed.
5. Committee deliberated on the plantation carried out by the PP and observed that no plantation has been carried out by the proponent within the ML area. PP shall submit a time bound action plan along with the budgetary provisions for plantation within the ML area. Accordingly, the EMP cost shall be revised.
6. The action plan for public hearing submitted by the PP is found to be inadequate and the Committee opined that a revised action plan shall be submitted as per MoEF&CC O.M. dated 30/09/2020, with the increased budgetary provisions.
7. Despite the fact that the proponent has submitted back the proposal after a period of more than 6 years from its previous approval, the important EC conditions such as implementation of STP, Wildlife Conservation Plan, installation of Continuous Ambient Air Quality Monitoring System, rainwater harvesting system and plantation, etc have not been complied with. Committee took a serious view on the non-compliances of the EC conditions and opined that the revalidation of EC shall be granted only after the compliance of the aforementioned important EC conditions. Committee opined that, despite the fact that the EC has been granted more than 20 years, PP failed to comply with the important EC conditions is a serious negligence on the part of proponent and the same shall not be repeated in future.

Recommendations of the Committee:

32.12.3: In view of the foregoing and after detailed deliberations, the EAC *deferred* the above-mentioned proposal and asked the proponent to comply with the non-conformities and thereafter submits the proposal for consideration by the EAC.

ANNEXURE-I

GENERIC TOR FOR AN OPEN CAST COAL MINE PROJECT

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

should be provided.

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

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

- (xii) Break-up of lease/project area as per mining plan should be provided.
- (xiii) Impact of changes in the land use due to the project if the land is predominantly agricultural land/forest land/grazing land, should be provided.
- (xiv) One-season (other than monsoon) primary baseline data on environmental quality - air (PM₁₀, PM_{2.5}, SO_x, NO_x and heavy metals such as Hg, Pb, Cr,As,etc), noise, water (surface and groundwater), soil - along with one-season met data coinciding with the same season for AAQ collection period should be provided.
- (xv) Map (1: 50, 000 scale) of the study area (core and buffer zone) showing the location of various sampling stations superimposed with location of habitats, other industries/mines, polluting sources, should be provided. The number and location of the sampling stations in both core and buffer zones should be selected on the basis of size of lease/project area, the proposed impacts in the downwind (air)/downstream (surface water)/groundwater regime (based on flow). One station should be in the upwind/upstream/non-impact/non- polluting area as a control station. The monitoring should be as per CPCB guidelines and parameters for water testing for both ground water and surface water as per ISI standards and CPCB classification wherever applicable. Observed values should be provided along with the specified standards.
- (xvi) Study on the existing flora and fauna in the study area (10km) should be carried out by an institution of relevant discipline. The list of flora and fauna duly authenticated separately for the core and study area and a statement clearly specifying whether the study area forms a part of the migratory corridor of any endangered fauna should be given. If the study area has endangered flora and fauna, or if the area is occasionally visited or used as a habitat by Schedule-I species, or if the project falls within 15 km of an ecologically sensitive area, or used as a migratory corridor then a Comprehensive Conservation Plan along with the appropriate budgetary provision should be prepared and submitted with EIA-EMP Report; and comments/observation from the CWLW of the State Govt. should also be obtained and furnished.
- (xvii) Details of mineral reserves, geological status of the study area and the seams to be worked, ultimate working depth and progressive stage-wise working scheme until the end of mine life should be provided on the basis of the approved rated capacity and calendar plans of production from the approved Mining Plan. Geological maps and sections should be included. The Progressive mine development and Conceptual Final Mine Closure Plan should also be shown in figures. Details of mine plan and mine closure plan approval of Competent Authority should be furnished for green field and expansion projects.
- (xviii) Details of mining methods, technology, equipment to be used, etc., rationale for

- selection of specified technology and equipment proposed to be used vis- à-vis the potential impacts should be provided.
- (xix) Impact of mining on hydrology, modification of natural drainage, diversion and channeling of the existing rivers/water courses flowing through the ML and adjoining the lease/project and the impact on the existing users and impacts of mining operations thereon.
 - (xx) Detailed water balance should be provided. The break-up of water requirement for the various mine operations should be given separately.
 - (xxi) Source of water for use in mine, sanction of the Competent Authority in the State Govt and impacts vis-à-vis the competing users in the upstream and downstream of the project site should be given.
 - (xxii) Impact of mining and water abstraction from the mine on the hydrogeology and groundwater regime within the core zone and 10 km buffer zone including long-term monitoring measures should be provided. Details of rainwater harvesting and measures for recharge of groundwater should be reflected in case there is a declining trend of groundwater availability and/or if the area falls within dark/grey zone.
 - (xxiii) Impact of blasting, noise and vibrations should be given.
 - (xxiv) Impacts of mining on the AAQ and predictions based on modeling using the ISCST-3 (Revised) or latest model should be provided.
 - (xxv) Impacts of mineral transportation within the mining area and outside the lease/project along with flow-chart indicating the specific areas generating fugitive emissions should be provided. Impacts of transportation, handling, transfer of mineral and waste on air quality, generation of effluents from workshop etc, management plan for maintenance of HEMM and other machinery/equipment should be given. Details of various facilities such as rest areas and canteen for workers and effluents/pollution load emanating from these activities should also be provided.
 - (xxvi)
 - (xxvii) Effort be made to reduce/eliminate road transport of coal inside and outside mine and for mechanized loading of coal through CHP/ Silo into wagons and trucks/tippers.
 - (xxviii) Details of waste OB and topsoil generated as per the approved calendar programme, and their management shown in figures as well explanatory notes tables giving progressive development and mine closure plan, green belt development, backfilling programme and conceptual post mining land use should be given. OB dump heights and terracing based on slope stability studies with a max of 28o angle as the ultimate slope should be given. Sections of final dumps (both longitudinal and cross section) with relation to the adjacent area should be shown.
 - (xxix) Efforts be made for maximizing progressive internal dumping of O.B., sequential mining, external dump on coal bearing area and later rehandling into the mine void. --to reduce land degradation.
 - (xxx) Impact of change in land use due to mining operations and plan for restoration of the mined area to its original land use should be provided.
 - (xxxi) Progressive Green belt and ecological restoration /afforestation plan (both in text, figures and in the tabular form as per the format of MOEFCC given below) and selection of species (native) based on original survey/land-use should be given.

Table1:Stage-wise Land use and Reclamation Area (ha)

S.N.	Land use Category	Present (1 st Year)	5 th Year	10 th Year	20 th Year	24 th Year(end o fminelife)*
1.	Backfilled Area Reclaimed with					

	plantation)					
2.	Excavated Area (not reclaimed)/void					
3.	External OB dump Reclaimed with plantation)					
4.	Reclaimed Top soil dump					
5.	Green Belt Area					
6.	Undisturbed area (brought Under plantation)					
7.	Roads (avenue plantation)					
8.	Area around buildings and Infrastructure					
	TOTAL					

*As a representative example

Table2: Stage Wise Cumulative Plantation

S.No.	YEAR*	Green Belt	External Dump	Backfilled Area	Others (Undisturbed Area/etc)	TOTAL
1.	1 st year					
2.	3 rd year					
3.	5 th year					
4.	10 th year					
5.	15 th year					
6.	20 th year					
7.	25 th year					
8.	30 th year					
9.	34 th year (end of minelife)					
10.	34-37 th Year (Post-mining)					

*As a representative example

(xxxii) Conceptual Final Mine Closure Plan and post-mining land use and restoration of land/habitat to the pre- mining status should be provided. A Plan for the ecological restoration of the mined out area and post mining land use should be prepared with detailed cost provisions. Impact and management of wastes and issues of re-handling (wherever applicable) and backfilling and progressive mine closure and reclamation should be furnished.

Table3: Post-Mining Land use Pattern of ML/Project Area (ha)

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

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

the Public Hearing is in the regional language, an authenticated English Translation of the same should be provided.

- (xli) Inbuilt mechanism of self-monitoring of compliance of environmental regulations should be indicated.
- (xlii) Status of any litigations/court cases filed/ pending on the project should be provided.
- (xliii) Submission of sample test analysis of Characteristics of coal: This should include details on grade of coal and other characteristics such as ash content, Sand heavy metals including levels of Hg, As, Pb, Cr etc.
- (xliv) Copy of clearances/approvals such as Forestry clearances, Mining Plan Approval, mine closer plan approval. NOC from Flood and Irrigation Dept.(if req.), etc. wherever applicable.

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

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

Annexure – II

STANDARD EC CONDITIONS FOR UNDERGROUND COAL MINES

1. Statutory Conditions:

- xiv. 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.
- xv. Mining shall be carried out as per the approved Mining Plan (including Mine Closure Plan) abiding by mining laws related to coal mining and the relevant provisions under CMR, 2017 and circulars issued by Directorate General of Mines Safety (DGMS) from time to time.
- xvi. Mining activities shall not be carried out in the forestland, until the Stage - II Forestry Clearance is obtained under the relevant provisions of Van (Sanrakshan Evam Samvardhan), Adhiniyam, 1980, for ha of forestland involved in the ML area.
- xvii. The project proponent shall obtain prior approval / clearance from the National Board for Wildlife, if applicable.
- xviii. In case of the presence of Schedule-I species in the study area, the project proponent shall prepare a Conservation Plan & Wildlife Management Plan which shall be approved by the Chief Wildlife Warden. The recommendations of the approved Conservation Plan / Wildlife Management Plan shall be implemented in consultation with the State Forest Department. The implementation report shall be furnished along with the six-monthly compliance report (in case of the presence of Schedule-I species in the study area).
- xix. The project proponent shall obtain Consent to Operate under the provisions of Air (Prevention & Control of Pollution) Act, 1981 and the Water (Prevention & Control of Pollution) Act, 1974 from the concerned State Pollution Control Board/ Pollution Control Committee.
- xx. The project proponent shall obtain the necessary permission from the Central Ground Water Authority for groundwater abstraction & usage prior to commencement of mining. The proponent shall also obtain necessary permissions for drawl / usage of surface water, if applicable, prior to commencement of mining.
- xxi. Solid/hazardous waste generated in the mines needs to be addressed in accordance to the Solid Waste Management Rules, 2016/Hazardous & Other Waste Management Rules, 2016 and subsequent amendments.
- xxii. In case of diversion of water body / road / railway lines / transmission line, approval for the same from competent authority shall be submitted, as applicable.
- xxiii. Permission of power supply to be taken from the concerned authority for meeting power demand of the project site.
- xxiv. The annual peak production at any given time shall not exceed the limit as prescribed in the EC.

- xxv. Validity of EC shall be as per life of the mine as mentioned in EC letter or 30 years, whichever is earlier, as per EIA Notification, 2006 and its amendments therein.
- xxvi. In case of change in mining method from UG to OC, prior approval of the Ministry of Environment, Forests and Climate Change (MoEFCC) shall be obtained.

2. Air Quality Mitigation Measures and Monitoring

- x. Coal handling points like stockyards / sidings shall be equipped with effective control measures like water sprinkling, fog cannons, wind barriers, vertical greenery systems.
- xi. Transportation of coal, to the extent if permitted by road, shall be carried out by covered trucks. Effective control measures such as regular water sprinkling/rain gun/ fog cannons /mist sprinkling, etc., shall be installed in critical areas like coal transport roads, loading/unloading and transfer points.
- xii. Transportation of the coal through the existing road passing through any village shall be avoided. In such cases, it is proposed to construct a 'bypass' road, such that the impact of sound, dust and accidents could be appropriately mitigated. Major approach roads shall be black topped / made with concrete and properly maintained.
- xiii. Vehicular emissions shall be kept under control and regularly monitored. All the vehicles engaged in coal transportation shall operate only after obtaining 'PUC' certificate from the authorized pollution testing centres. The proponent must strive to use electric vehicles / eco-friendly fuel based vehicles as far as possible.
- xiv. In order to prevent particulates getting airborne and in order to mitigate dust concentrations, proper housekeeping shall be maintained by the project.
- xv. Plantation in core zone and along the coal transportation route shall be taken up for control of air pollution. Native tree species shall be selected for plantation.
- xvi. It shall be ensured that the ambient air quality parameters conform to the norms prescribed by the Central/State Pollution Control Board.
- xvii. For ambient air quality monitoring, at least 4 sampling sites shall be established (of which 1 shall be situated in the upwind direction, 1 in core zone and balance 2 shall be located in the buffer zone - in downwind direction and near receptors) for monitoring of pollutants. The frequency of monitoring for core zone shall be as per Coal Mine Standards GSR 742 (E) dated 25.09.2000 and for buffer zone shall be as per NAAQS, 2009. Location of the stations shall be decided based on the meteorological data, topographical features and environmentally and ecologically sensitive receptors in consultation with the State Pollution Control Board. The monitoring reports shall be submitted to Regional Office of MoEF&CC and SPCB/CPCB as a part of the six monthly compliance report.
- xviii. The project shall install an automatic weather monitoring station in the core zone. At least 2 online ambient air quality monitoring stations (CAAQMS) for monitoring of PM₁₀, PM_{2.5}, SO₂, NO_x shall be installed - one in core zone and one in buffer zone, in consultation with the SPCB. The data from the CAAQMS shall be connected to CPCB server as well as SPCB server. The calibration of CAAQMS installed shall be carried out as per the calibration protocol for CAAQMS system specified by CPCB and records shall be maintained.

3. Water Quality Mitigation Measures and Monitoring

- x. The water pumped out from the mine (seepage water / mine effluent), after treatment,

shall be utilized for industrial purpose viz. dust suppression on roads, plantation, and for domestic uses, etc. Balance water after treatment, if any, shall be discharged into surrounding water bodies with prior permission from concerned SPCBs/PCCs.

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

4. Noise Prevention and Monitoring

- v. Adequate measures shall be taken for control of noise levels as per Noise Pollution Rules, 2016 in the work zone environment. Operational safety norms for worker safety as prescribed by DGMS for UG coal mines must be adhered to.

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

5. Risk and subsidence

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

6. Land Reclamation

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

- x. Project proponent shall implement the 'Ek Ped Maa Ke Naam' Campaign, which was launched on 5th June 2024 on the occasion of the World Environment Day to increase the forest cover across the Country. This plantation drive is other than green belt development. The action in this regard shall be submitted concerned RO in six monthly report.
- xi. Greenbelt will be developed in --- ha which is about --- % of the total mine infrastructure area. A 5-15 m wide greenbelt, consisting of at least 3 tiers around core zone 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 ----- saplings will be planted and nurtured in ----- hectares in --- years. Thus, the total plantation raised in the mine lease will be over ---% of total ML area at the end of the mining. Along with this, Miyawaki plantation shall be carried out and plantation shall also be carried out in the nearby environmentally sensitive receptors.

7. Public Hearing and Human Health Issues:

- ix. Implementation of the time bound action plan on the issues raised during the public hearing shall be ensured. The project proponent shall undertake all the tasks/measures as per the time bound action plan submitted with budgetary provisions during the public hearing.
- x. Land oustees shall be compensated as per the norms laid down in the R&R policy of the company/State Government/Central Government, as applicable. Adequate facility of drinking water, plantation and other social amenities should be provided to established R&R villages.
- xi. The work zone environment shall be maintained as prescribed under Coal Mines Regulations, 2017 & DGMS (complying with provisions regarding illumination, temperature, humidity, dust, noise, etc.)
- xii. The project proponent shall undertake occupational health survey for initial and periodical medical examination of the personnel engaged in the project and maintain records accordingly as per the provisions of The Mines Act, 1952 and rules made thereunder and DGMS circulars. Besides regular periodic health check-up, 20% of the personnel identified from workforce engaged in active mining operations shall be subjected to health check-up for occupational diseases and hearing impairment, if any, as per Clause No. 123, 124 & 125 of Coal Mines Regulations, 2017.
- xiii. 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.
- xiv. 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.
- xv. Effective arrangement shall be made to provide and maintain sufficient supply of drinking water at suitable points, for all the persons employed.
- xvi. The project proponent shall follow the mitigation measures provided in this Ministry's OM No.Z11013/5712014-IA.II (M) dated 29th October, 2014, titled

‘Impact of mining activities on habitations-issues related to the mining projects wherein habitations and villages are the part of mine lease areas or habitations and villages are surrounded by the mine lease area’.

8. Others:

- v. The project shall comply with the recommendations of the additional studies like Traffic Study, Biodiversity Management Plan, Carbon Footprint Assessment, as applicable.
- vi. In pursuant to the Ministry’s OM dated 18/07/2022. PP shall also create awareness among the people working in the project area as well as in its surrounding area on the ban on Single Use Plastic (SUP) in order to ensure compliance of Ministry’s Notification published by the Ministry on 12/08/2021.
- vii. The project shall align its activities towards some SDGs and submit the details in its six-monthly compliance report on routine basis.
- viii. Efforts should be made to reduce energy and fuel consumption by conservation, efficiency improvements and use of renewable energy.
- xi. Post closure monitoring of air quality, water, land & soil etc. shall be carried out by NABL accredited laboratories and analysed with EMP measures at regular interval. A suitable recommendation in this regard, shall be furnished to RO, MoEF&CC for compliance. The data used for analysis shall be obtained from routine environmental monitoring, continuous air / water QMS, etc.
- xii. In case the project is located either in Critically Polluted Area or in Severely Polluted Area, compliance w.r.t action plan to address environmental safeguards as per OM dated 31st October, 2019 (Ref. F.No. 22-23/2018-IA.III (Pt)) shall be submitted.
- xiii. Third Party Environmental Audit shall be undertaken once in every three years through reputed institutes or scientific agencies.

9. Corporate Environment Policy:

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

10. Miscellaneous:

- xvi. The project proponent shall make public the environmental clearance granted for their

project along with the environmental conditions and safeguards at their cost by prominently advertising it at least in two local newspapers of the District or State, of which one shall be in the vernacular language within seven days of receipt of EC and in addition, this shall also be displayed in the project proponent's website permanently.

- xvii. 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.
- xviii. 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.
- xix. The project proponent shall submit six-monthly reports on the status of the compliance of the stipulated environmental conditions on the website of the ministry of Environment, Forest and Climate Change at Parivesh portal.
- xx. The monitoring data w.r.t environmental parameters shall be uploaded on the company's website and displayed at the project site at a suitable location. The circular No.J-20012/1/2006-1A.11 (M) dated 27th May, 2009 issued by Ministry of Environment, Forest and Climate Change shall also be referred in this regard for its compliance.
- xxi. 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.
- xxii. The project authorities shall inform to the Regional Office of the MoEFCC regarding commencement of mining operations.
- xxiii. The project authorities must strictly adhere to the stipulations made by the State Pollution Control Board and the State Government.
- xxiv. 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.
- xxv. No further expansion or modifications in the mine shall be carried out without prior approval of the Ministry of Environment, Forests and Climate Change (MoEF&CC).
- xxvi. 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.
- xxvii. The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.
- xxviii. The Ministry reserves the right to stipulate additional conditions if found necessary. The Company, in a time bound manner, shall implement these conditions.
- xxix. 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
- xxx. 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.

Annexure – III

GENERIC TORs FOR AN OPENCAST - CUM UNDERGROUND COAL MINE PROJECT

- i. An EIA-EMP Report would be prepared for a combined peak capacity of.....MTPA for OC-cum-UG project which consists of.... MTPA in an ML/project area of ha for OC and MTPA for UG in an ML/project area of ha based on the generic structure specified in Appendix III of the EIA Notification 2006.
- ii. An EIA-EMP Report would be prepared for MTPA rated capacity to cover the impacts and environment management plan for the project specific activities on the environment of the region, and the environmental quality encompassing air, water, land, biotic community, etc. through collection of data and information, generation of data on impacts including prediction modelling for MTPA of coal production based on approved project/Mining Plan for MTPA. Baseline data collection can be for any season (three months) except monsoon.
- iii. The ToRs prescribed for both opencast and underground mining are applicable for opencast – cum underground mining.

Annexure – IV

LIST OF PARTICIPANTS OF EAC (COAL) IN 32ND MEETING HELD ON 24-25TH SEPTEMBER 2025, THROUGH PHYSICAL MODE

S. No.	Name & Address	Role	24.09.2025	25.09.2025
1.	Shri Inder Pal Singh Matharu, IFS (Retd.)	Chairman	Present	Present
2.	Shri Lalit Kapur	Member	Present	Present
3.	Dr. Umesh Jagannathrao Kahalekar	Member	Present	Present
4.	Dr. Santosh Kumar Hampannavar	Member	Present	Absent
5.	Shri Savalge Chandrasekhar	Member	Present	Present
6.	Shri K. B. Biswas	Member	Present	Present
7.	Prof. Shyam Shanker Singh	Member	Present	Present
8.	Dr. Vinod Agrawal	Member	Present	Present
9.	Shri Prasoon Gargava, Scientist - F	Representative of Central Pollution Control Board	Absent	Absent
10.	Shri Mahi Pal Singh, Chief Engineer	Representative of Central Electricity Authority (CEA)	Present	Present
11.	Shri Harmeet Sahaney	Representative of Indian Meteorological Department (IMD)	Absent	Absent
12.	Prof. R M Bhattacharjee	Representative of IIT/ISM Dhanbad	Present	Present
13.	Shri Sundar Ramanathan	Scientist 'F' & Member Secretary	Present	Present
MoEF&CC				
1.	Dr. Rajesh Prasad Rastogi	Scientist 'D'	Present	Present

Approval of the Chairman

Re: Final MoM_(Coal Mining Sector)_32 EAC meeting_24-25 Sept. 2025

2 emails

Inderpal Singh Matharu <matharu0204@gmail.com >

Thu, 09 Oct 2025 6:12:55 PM +0530

To "RAJESH PRASAD RASTOGI"<rp.rastogi@gov.in>

Dear Rajesh ji,

I have gone through the final MoM of 32 EAC meeting (COAL Mining Sector) held during 24-25 Sept. 2025. All the points discussed in the meeting have been incorporated along with the amendments done in final draft of MoM. Hence I approve the final MoM.

Inder Pal singh Matharu
Chairman
EAC, Coal mining and Thermal Power
MoEF&CC