

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

Date of zero draft MoM sent to Chairman: 17/12/2024

Approval by Chairman: 23/12/2024

Uploading on PARIVESH: 23/12/2024

SUMMARY RECORD OF THE NINETEENTH (19TH) MEETING OF EXPERT APPRAISAL COMMITTEE (EAC) HELD ON 10TH & 11TH DECEMBER 2024 FOR ENVIRONMENT APPRAISAL OF COAL MINING SECTOR PROJECTS THROUGH HYBRID MODE.

DAY-1: 10TH DECEMBER, 2024 [TUESDAY]

At the outset, the Chairman welcomed the Expert members & other participants and requested to start the proceeding as per the agenda listed for this meeting. The list of Members who participated in the meeting is at **Annexure – I**. The Standard/Generic EC & ToR conditions shall be system generated through the PARIVESH Portal.

Confirmation of the Minutes of the 18th Meeting of the EAC (Coal): The minutes of the 18th meeting of the EAC (Coal) held during 27th November, 2024 have been confirmed by the EAC.

Agenda No. 19.1

19.1: Expansion of Karo Opencast Coal Mining (area 526.32 Ha having capacity 15 MTPA) by M/s Central Coalfields Limited, located at Villages: Kara, Kargali, BaidkaroAnsh, Bakri Kuri&Emlo; District: Bokaro; State: Jharkhand –Grant of amendment in EC regarding (i) extension of timelines regarding implementation of RP & NCRAP and release of Bank Guarantee (ii) extension of timeline for road transportation and construction of railway siding and belt conveyor along with silo till December, 2026 –regarding.

[Online Proposal No. IA/JH/CMIN/499069/2024; Consultant: CMPDI - NABET/EIA/22-25/SA 0223 valid up to 08.04.2025]

19.1.1: The instant proposal is for amendment in Environment Clearance granted to M/s Central Coalfields Limited, vide letter no. F. No. 23-69/2018-IA.II(M)-V dated 27.12.2019 for Karo Opencast Coal Mining Project (area 526.32 Ha having capacity 15 MTPA) located at Villages: Kara, Kargali, BaidkaroAnsh, Bakri Kuri&Emlo; District: Bokaro of Jharkhand. Earlier the EC dated 27/12/2019 was amended on 16/01/2023 wherein the production capacity of coal was restricted to 3.5 MTPA and permission was accorded for coal transportation by road till December, 2024.

19.1.2: 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-11015/544/2009-IA.II(M)	EC	1.5	226.33	24.12.2014	Implemented
2	F. No. 23-69/2018-IA.II(M)-V - EC was accorded under the violation category under the provisions of S.O. 804 (E) dated 14/03/2017	Expansion EC	11 (Normative capacity) and 15 (Peak capacity)	526.32	27.12.2019	Being implemented
3	F. No. 23-69/2018-IA.II(M)-V	Amendment in EC (for dropping the construction of proposed washery and revising the layout of belt conveyor and extension in timeline for belt-conveyor with Silo and railway siding till December, 2024)	11 (Normative capacity) and 15 (Peak capacity) Conditionally restricted to 3.5 MTPA.	526.32	16.01.2023	Being implemented

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

19.1.3: Production Details: PP submitted that the concerned mines became operational from FY 2014-15 onwards. Details of the same are as follows:

Year	Actual Coal Production in MTPA	Planned Coal production in MTPA as per Environmental Clearance	Excess Production
2014-15	1.63	1.50	0.13
2015-16	1.95	1.50	0.45
2016-17	1.50	1.50	Nil
2017-18	1.50	1.50	Nil
2018-19	1.50	1.50	Nil
2019-20	3.27	11.0/ 15.0 MTPA	Nil
2020-21	2.22	11.0/ 15.0 MTPA	Nil
2021-22	2.75	11.0/ 15.0 MTPA	Nil
2022-23	1.52	3.50 MTPA	Nil
2023-24	1.32	3.50 MTPA	Nil
2024-25 (up to 30.11.2024)	1.64	3.50 MTPA	Nil

CTO renewal has been obtained from JSPCB vide SPCB/HO/RNC/CTO-17738414/2024/507 dated 25.03.2024, valid up to 31.03.2029.

19.1.4: Certified Compliance Report and Action Taken Report thereon: The Regional Office, Ranchi vide letter no. 103-551/ROR-2024, dated 05.09.2024 issued the monitoring report on the status of compliance of conditions imposed in the EC letter dated 27.12.2019 and its amendment dated 16.01.2023, granted by MoEF&CC. As per the said report there are minor partial compliances. The proponent submitted the Action Taken Report of the same to RO vide letter no. PO/KARO OCP/2024-25/972 dated 06.09.2024. Details of RO on the Conditions in which amendment is sought and the partially complied conditions are as follows:

Condition no.	Details as per EC	Observation of RO	Action Taken
Specific Condition no. 5 (xiv), of EC granted vide letter F. No. 23-69/2018-IA.II(M)-V dated 27.12.2019	Garland Drain (6.16 km) and toe wall (5.3 km) shall be constructed.	PP has constructed toe wall (length 2210 m) and garland drain (length 2155 m) around OB dump no. 1&2.	Toe wall (length-2210 m) and garland drain (length-2155m) around the OB no. 1&2 along the Karonallah has been constructed. Further length of 2500 m of toe wall and 2300 m of garland drain will be constructed along OB dump near karonallah. At present internal dumping is being done. The said work will be completed till December 2024.
Specific Condition no. 5 (xvi), of EC granted vide letter F. No. 23-69/2018-IA.II(M)-V dated 27.12.2019	The proposed Karo pond at new location shall be constructed with a cost of Rs. 20.0 Lakhs as proposed with proper mitigation measures.	PP has constructed Karo Pond at new location (near Subhasnagar). Expenditure incurred for construction of pond and its subsequent renovations is Rs. 9.54 lakhs only as per documents shown.	Karo pond has been constructed departmentally at new location (near Subhasnagar), desilting is done regularly. Expenditure incurred for construction of pond and its subsequent renovation is Rs. 9.54 lakhs as per documents shown. Further proposal for renovation and desilting of pond is under process. The said work will be completed till December 2024.

19.1.5: Details regarding amendment sought in the EC dated 27/12/2019

I. Brief of EC dated 27/12/2019

MoEF&CC has accorded EC for Karo Opencast Coal Mining Project vide letter dated 27/12/2019 for the area of 526.32 Ha having normative capacity of 11 MTPA and peak capacity of 15 MTPA, under violation category as per the provisions contained under S.O. 804(E), dated 14.03.2017. As per the EC accorded, the proponent has to comply with the following conditions with respect to Remediation Plan (RP) Natural and Community Resource Augmentation Plan (NCRAP).

- i. EAC recommended for an amount of Rs 487.204 lakhs towards Remediation plan and Natural and Community Resource Augmentation plan to be spent within a span of three years. The details are given below:

A. Remediation Plan (RP)

S. No.		Activity Proposed	Year 1 (in lakhs)	Year 2 (in lakhs)	Year 3 (in lakhs)	Total (Rs in lakhs)
1	Water Environment	Construction of check dam across diverted karonalafor ground recharge and other community purposes.	0	60	30	90
2		Restoration and beautification of existing wells and water bodies in the vicinity of villages (Amlo, Charakpania, Kurpania, Kargali Village etc).	10	5	5	20
3		Additional Water Sampling for analysis of Ground Water at nearby 4 villages (Amlo, Charakpania, Kurpania, Kargali Village etc).	1.168	1.168	1.168	3.504
Total Water Environment						113.504
1		Additional plantation in nearby villages Charakpania, Kurpania, Kargali Village etc).	22	4	4	30
2		Distribution of fruit bearing saplings like Amla, Guava, Mango, Lichi etc. to nearby villages (10,000 Nos.)	3	3	4	10
3	Ecology	Development of Nursery for raising samplings, training and distribution and to nearby villagers	0	0	25	25
Total Ecological Environment						65
1	Air & Noise Environment	Provision for construction of metaled road (approx. 1.56km)	0	28	28	56
2		Additional avenue plantation and maintenance in subsequent years along transportation road and other village roads adjacent to Project boundary.	19.5	3.35	3.35	26.20
3		Additional Health Camps to monitor the respiratory and E&T health status of nearby villages.	2	1	1	4
4		Providing wind curtains with fabric dust filters and other control measures along the Kargali PO Office, Washery Office and other industrial	5	5	3.9	13.9

S. No.		Activity Proposed	Year 1 (in lakhs)	Year 2 (in lakhs)	Year 3 (in lakhs)	Total (Rs in lakhs)
		buildings.				
Total Air Environment						100.1
1	Land Environment	Collection and disposal of municipal waste from CCL colonies (karo colony, Jawaharnagar & subhashnagar)	0.5	0.5	0.5	1.5
2		Providing colour coded bins in schools, hospitals etc (5 numbers)	0.6	0	0	0.6
3		Plantation in vacant/open spaces in nearby villages for prevention of soil erosion (1100 saplings)	1.1	0.2	0.2	1.5
Total Land Environment						3.6
1	Socio-economic	Additional Skill Development training programme to the unemployment youth.	10	5	5	20
2		Construction of additional community toilets for nearby villages (4 numbers)	5	2.5	2.5	10
3		Organizing additional Sports and Cultural festivals	1	0.5	0.5	2
4		Additional awareness programme on Environment protection	1.5	1.5	2	5
Total Socio-Economic Environment						37

B. Action Plan for Natural Resource Augmentation

S No.	Activity Proposed	Year 1	Year 2	Year 3	Total
1	Community level RO Plants for safe drinking water	0	0	50,00,000	50,00,000
2	Providing solar lamps along along the roads and supply of solar lights to households in nearby villages (100 Nos approx)	0	10,00,000	10,00,000	20,00,000
3	Desilting of village ponds	1,00,000	1,00,000	1,00,000	3,00,000
Total		1,00,000	11,00,000	61,00,000	73,00,000

C. Action Plan for Community Resource Augmentation Plan

S. No	Activity Proposed	Year 1 (Rs in lakhs)	Year 2 (Rs in lakhs)	Year 3 (Rs in lakhs)	Total (Rs in lakhs)
1	Repair and maintenance of roads in nearby villages	5	5	5	15
2	Development of green belt along streams, ponds etc	5	5	10	20
3	Providing community toilets in nearby villages/schools/communities (6 Nos)	15	15	0	30
4	Laying of pipeline/infrastructure for clean water supply to nearby communities/villages	0	20	10	30
Total					95

D.Summary of RP& NCRAP

S. no.	Activities	Total (Rs. in Lakh)
1.	Cost of damage/ remediation with respect of ecological aspects	319.204
2.	Natural Resource Augmentation Plan for three years	73.00
3.	Community Resource Augmentation Plan for three years	95.00
TOTAL		487.204

ii. Total budgetary provision with respect to Remediation plan and Natural & Community Resource Augmentation plan is Rs. 487.204 lakhs.

iii. Therefore, project proponent shall be required to submit a bank guarantee of an amount of Rs. 487.204 lakhs/- towards Remediation Plan and Natural and Community Resource Augmentation Plan with the SPCB prior to the grant of EC.

iv. Remediation plan shall be completed in 3 years whereas bank guarantee shall be for 5 years. The bank guarantee shall be released after successful implementation of the EMP, followed by recommendations of the EAC and approval of the regulatory authority.

II. Provisions contained under S.O. 804 (E) dated 14/03/2017

The bank guarantee will be released after successful implementation of the Remediation Plan (RP) & Natural and Community Resource Augmentation Plan (NCRAP) and after the recommendation by regional office of the Ministry, Expert Appraisal Committee and approval of the Regulatory Authority.

III. Status of implementation of RP & NCRAP along with the recommendation of Regional Office

A. Remediation plan

Head	Activities as per EC dated 27/12/2019	Status of activities undertaken by CCL		Recommendations of Regional Office as per the report	
	Activities	Allocated Fund (Rs. In Lakhs)	Expenditure incurred (Rs. In Lakhs)	Status of compliance by CCL along with expenditure incurred	
Water Environment	Construction of check dam across diverted karonala for ground recharge and other community purposes.	90.00	44.57	02 Nos Check Dam across Karo stream has been constructed. SITE-1 (Check Dam No-1): 14.29 Lakhs SITE-2 (Check Dam No-2): 30.28 Lakhs. Total fund utilized: - Rs. 44.57 Lakhs.	Complied
	Restoration and beautification of existing wells and water bodies in the vicinity of villages (Amlo, Charakpania, Kurpania, Kargali Village etc).	20.00	25.91	Restoration, beautification and deepening of pond at palamu panchayat, Baidhkaro panchayat, bandukbeda and renovation of of wells at Kurpaniya, charakpaniabasti has been done. Total fund utilized: - Rs. 25.91 Lakhs.	Complied
	Additional Water Sampling for analysis of Ground Water at nearby 4 villages (Amlo, Charakpania, Kurpania, Kargali Village etc).	3.504	3.36	Additional Water Sampling for analysis of Ground Water at nearby 4 villages (Amlo, Charakpania, Kurpania, Kargali Village) has been done. Total fund utilized: - Rs. 3.36 Lakhs	Complied
Total Water Environment (A)		113.504	73.84		
Ecology	Additional plantation in nearby	30.00	18.52	Additional plantation and maintenance in nearby villages Charakpania,	Complied

Head	Activities as per EC dated 27/12/2019	Status of activities undertaken by CCL		Recommendations of Regional Office as per the report
Activities	Allocated Fund (Rs. In Lakhs)	Expenditure incurred (Rs. In Lakhs)	Status of compliance by CCL along with expenditure incurred	
	villages Charakpania, Kurpania, Kargali Village etc).		KurpaniaKargaliBandukberaetc has been done. Total fund utilized:-Rs. 18.52 Lakhs.	
	Distribution of fruit bearing saplings like Amla, Guava, Mango, Lichi etc. to nearbyvillages (10,000 Nos.)	10.00	10.76 Complied Distribution of fruit bearing saplings like Amla, Guava, Mango, Lichi etc. to nearby villages (10,000 Nos.) has been done. Total fund utilized:-Rs. 10.76 Lakhs.	Complied
	Development of Nursery for raising samplings, training and distribution and to nearby villagers	25.00	26.68 Development of Nursery has been done. Raising of samplings is being done. Total fund utilized:-Rs. 26.68 Lakhs.	Complied
Total Ecological Environment (B)	65.00	55.96		
Air & Noise Environment	Provision for construction of metaled road (approx. 1.56km)	56.00	207.82 Construction of metaled road (approx. 1.5 Km length & width 10 m) has been completed. Total fund utilized:-Rs. 207.82 Lakhs.	Complied
	Additional avenue plantation and maintenance in subsequent years along transportation road and other village roads adjacent to Project boundary.	26.20	15.75 Additional avenue plantation and maintenance in subsequent years along transportation road and other village roads adjacent to Project boundary has been done. Total fund utilized :-Rs. 15.75 Lakhs.	Complied
	Additional Health Camps to monitor the respiratory and E&T health status of nearby villages.	4.00	17.58 Additional Health Camps to monitor the respiratory, E&T and eye health status of nearby villages has been done. Total fund utilized:-Rs. 17.58 Lakhs.	Complied
	Providing	13.90	90.58 Wind curtain fabric dust	Complied

Head	Activities as per EC dated 27/12/2019	Status of activities undertaken by CCL			Recommendation s of Regional Office as per the report
Activities	Allocate d Fund (Rs. In Lakhs)	Expenditur e incurred (Rs. In Lakhs)	Status of compliance by CCL along with expenditure incurred		
	wind curtains with fabric dust filters and other control measures along the Kargali PO Office, Washery Office and other industrial buildings.			filters along the Kargali PO Office, Washery Office, Kargali Workshop and other industrial buildings has been constructed at a cost of Rs.84.02 Lakh. And Maintenance of fabric dust filters has been done at cost of Rs. 6.56 Lakh. Total fund utilized:- Rs. 90.58 Lakhs.	
Total Air Environment (C)		100.10	331.73		
Land Environment	Collection and disposal of municipal waste from CCL colonies (karo colony, Jawaharnagar & subhashnagar)	1.50	25.08	Collection and disposal of municipal waste from CCL colonies (karo colony, Jawahar Nagar &Subhash Nagar etc.) has been done. Total fund utilized: - Rs. 25.08 Lakhs.	Complied
	Providing colour coded bins in schools, hospitals etc (5 numbers)	0.60	0.60	Color coded bins in nearby schools and hospitals (5 Nos bins in each schools & hospitals) are distributed at a cost of Rs.0.60 Lakhs. Total fund utilized: - Rs. 0.60 Lakhs.	Complied
	Plantation in vacant/open spaces in nearby villages for prevention of soil erosion (1100 saplings)	1.50	2.49	Plantation in vacant/open spaces in nearby villages for prevention of soil erosion (1100 saplings) has been done at a cost of Rs. 2.49 Lakhs. Total fund utilized: - Rs. 2.49 Lakhs.	Complied
Total Land Environment (D)		3.60	28.17		
Socio Economic	Additional Skill Development training programme to the unemployem t youth.	20.00	11.91	Additional Skill Development training programme to the unemployed youth conducted. Tailoring, computer training, food processing training organized to unemployed youth of neaby villages. Also for Self Employment, Sewing Machine Distribution has been done.	Complied

Head	Activities as per EC dated 27/12/2019	Status of activities undertaken by CCL		Recommendations of Regional Office as per the report	
	Activities	Allocated Fund (Rs. In Lakhs)	Expenditure incurred (Rs. In Lakhs)	Status of compliance by CCL along with expenditure incurred	
				Total fund utilized :- Rs. 11.91 Lakhs	
	Construction of additional community toilets for nearby villages (4 numbers)	10.00	8.67	Additional community toilets for nearby villages (04-numbers) has been constructed at Jawaharnagar, Palamu, Kargali gate and Chalkari village. Also Construction of community hall with toilet facility at chalkari has been done. Further repairing of two nos of toilet is being done in Bandukbera village. Total fund utilized:-Rs. 8.67 Lakhs.	Complied
	Organizing additional Sports and Cultural festivals	2.00	7.85	Sports (football & badminton) among players of nearby villagers has been organized in month of march 2021-22. Also sports items like football, badminton etc has been distributed. Total fund utilized:-Rs. 7.85 Lakhs.	Complied
	Additional awareness programme on Environment protection	5.00	5.68	Additional awareness programme on Environment protection is conducted regularly. Drawing, painting, essay competition among students of nearby schools was held online on the occasion of World Environment Day 2020. An awareness programme on Environment protection conducted and Biodegradable bags were distributed to nearby villagers. Total fund utilized :- Rs. 5.68 Lakhs	Complied
Total	Socio-Economic Environment (E)	37.00	34.11		
	DRP (Damage Remediation Plan) = F= (A+B+C+D+E)	319.204	523.81		

B. Action Plan for Natural Resource Augmentation

Head	Activities as per EC dated 27/12/2019	Status of activities undertaken by CCL			Recommendations of Regional Office as per the report
Activities	Allocated Fund (Rs. in Lakhs)	Expenditure Incurred (Rs. in Lakhs)	Status of compliance by CCL along with expenditure incurred in Rs.Lakhs		
Natural Resource Augmentation Plan	Community level RO Plants for safe drinking water	50.00	22.28	Installation of RO plant having capacity of 6000LPH 02 Nos. along with all its requirement like room (20 feet X 20 feet) and pipeline for safe drinking water has been constructed. Total fund underutilization:- Rs. 22.28 Lakhs.	Complied
	Providing solar lamps along the roads and supply of solar lights to households in nearby villages (100 Nos approx)	20.00	17.68	200 nos of solar lamps along the roads in nearby villages has been installed in FY 2021-22 and in 2023-24. Total fund utilized:- Rs. 17.68 Lakhs.	Complied
	Desilting of village ponds	3.00	15.29	De-silting and deepening of village ponds has been done. Total fund utilized:-Rs. 15.29 Lakhs.	Complied
Natural Resource Augmentation (G)	73.00	55.25			

C. Action Plan for Community Resource Augmentation Plan

Head	Activities as per EC dated 27/12/2019	Status of activities undertaken by CCL			Recommendations of Regional Office as per the report
Activities	Allocated Fund (Rs. in Lakhs)	Expenditure Incurred (Rs. in Lakhs)	Status of compliance by CCL along with expenditure incurred in Rs.Lakhs		
Community Resource Augmentation Plan	Repair and maintenance of roads in nearby villages	15.00	39.28	Repair and maintenance of road has been completed in nearby villages. Total cost of Rs. 39.28 lakhs has been spent.	Complied

Head	Activities as per EC dated 27/12/2019	Status of activities undertaken by CCL			Recommendations of Regional Office as per the report
	Activities	Allocated Fund (Rs. in Lakhs)	Expenditure Incurred (Rs. in Lakhs)	Status of compliance by CCL along with expenditure incurred in Rs.Lakhs	
	Development of green belt along streams, ponds etc	20.00	4.88	Green belt plantation along Karo stream and ponds has been completed at a cost of Rs.4.88 Lakh.	Complied
	Providing community toilets in nearby villages/schools/communities (6 Nos)	30.00	12.67	6 nos. of toilet in nearby villages/schools have been constructed in fy 2020-21 and in one number of community hall along with toilet has been constructed in chalkari village in fy-2021-22. Further repairing of two nos of toilet has been done in Bandukbera village. Total cost is Rs. 12.67 Lakhs has been spent.	Complied
	Laying of pipeline/ infrastructure for clean water supply to nearby communities/villages	30.00	46.08	Deep boring has been done for clean water supply at Ghutiyatandbasti, Charakpaniya, RajakTolaChalkari. In total Rs. 46.08 lakh has been spent.	Complied
Community Resource Augmentation Plan (H)		95	102.91		

D. Summary of RP&NCRAP

S. no.	Activities	Total (Rs. in Lakh)	Total Funds Utilized (Rs in Lakhs)
1.	Cost of damage/ remediation with respect of ecological aspects	319.204	523.81
2.	Natural Resource Augmentation Plan for three years	73.00	55.25
3.	Community Resource Augmentation Plan for three years	95.00	102.91
TOTAL		487.204	681.97

IV. Justification regarding deviation in head-wise NCRAP Cost:

- Central Coalfields Limited is a Public Sector Undertaking (PSU) under Govt. of India.
- While proposing the RP & NCRAP activities in respect of Karo OCP in the EIA/EMP, the estimate and timeline of the activities proposed were based on general cost estimate, however during execution of the said activities, site specific estimates based on the SOR were prepared. Accordingly, the tender of the said activities were floated on Tender portal of CIL/GeM Portal, as per the procurement manual of Govt. of India. Accordingly, after the scrutiny of bids received, the works were awarded to the prospective bidder for execution of the work.
- As is the general practice with any tender, the final price of the activities ends up on the higher/lower side compare to the estimated cost, based on the bidder's reasoning of the cost associated with any activities, timeline of the work and other conditions of the site and locality where the work has to be executed.
- As such, although the activities as proposed in the RP & NCRAP has been completed, there is some deviation between head-wise allotment of the fund from the approved RP & NCRAP Plan.

Justification in delay of timeline in implementation:

- The Bank Guarantee against the DRP & NCRAP of Karo Expansion OCP was submitted to Jharkhand State Pollution Control Board (JSPCB) on 16.08.2019 with validity of 5 years i.e, till 15.08.2024. Accordingly, EC of Karo OCP was issued by 27.12.2019 with timeline to complete the activities within 3 years and release of BG within 5 years.
- However, due to onset of Covid-19 from March-2020, the implementation of the activities were delayed by approximately 1 year.
- Despite the said delay, CCL has completed the activities within the BG validity period and requested the Regional Office, MoEF&CC on 18.03.2024 for site inspection.
- Accordingly, after issuance of CCR on 05.09.2024, application for amendment in EC was submitted to MoEF&CC for release of Bank Guarantee.

V. Amendment sought in the EC dated 27/12/2019

Conditions as per EC dated 27/12/2019	Description as per approved EC dated 27.12.2019	Details of amendment sought
5(i)	EAC recommended for an amount of Rs.487.204 lakhs towards Remediation plan and Natural and Community Resource Augmentation plan to spent within a span of three years.	Activities envisaged under Remediation Plan (RP) and Natural and Community Resource Augmentation Plan (NCRAP) has been completed with a financial out lay of Rs. 681.97 lakhs and the same has been mentioned in Certified Compliance Report (CCR) dated 05.09.2024 of RO, MoEF&CC, Ranchi.
5(ii)	Total budgetary provision with respect to Remediation plan and Natural & Community Resource Augmentation plan is Rs. 487.204	Total budgetary provision with respect to Remediation plan and Natural & Community Resource Augmentation plan is Rs. 681.97 lakhs.

Conditions as per EC dated 27/12/2019	Description as per approved EC dated 27.12.2019	Details of amendment sought
	lakhs.	
5(iv).	Remediation plan shall be completed in 3 years whereas bank guarantee shall be for 5 years. The bank guarantee shall be released after successful implementation of the EMP, followed by recommendations of the EAC and approval of the regulatory authority.	Bank guarantee shall be released by JSPCB as the activities envisaged under Remediation Plan (RP) and Natural and Community Resource Augmentation Plan (NCRAP) has been completed with a financial out lay of Rs. 681.97 lakhs and the same has been mentioned in Certified Compliance Report (CCR) dated 05.09.2024 of RO, MoEF&CC, Ranchi.

19.1.6: Details regarding amendment sought in the EC amendment dated 16/01/2023

MoEF&CC vide letter dated 16/01/2023 amended the EC dated 27/12/2019 for dropping the construction of proposed washery, revising the layout of belt conveyor and extension in timeline for implementation of belt-conveyor with Silo and railway siding till December, 2024.

Justification for extension in timeline for implementation of belt-conveyor with Silo and railway siding

Work has been awarded for Karo Railway Siding and CHP (with belt conveyor and silo), and construction is under progress. These works will be completed in all respect by December 2026. Until December 2026, road transportation of coal through tarpaulin-covered tippers to Kargali railway siding may be allowed.

Work progress for modification in existing Karo Railway Siding for Rapid Loading System as submitted by the proponent is as follows:

1. CCL issued work order to IPRCL on 12.12.2022.
2. Tender floated by IPRCL on 18.04.2023.
3. Tender finalized and work awarded by IPRCL to its agency on 31.07.2023.
4. Site handed over by CCL to IPRCL on 12.01.2024.
5. Slope stability and work of gabion wall as per the report approved by IIT Patna is under progress and is expected to be completed by December 2024.
6. 734.5 tonne of Rail procurement is already completed.
7. Completion of formation work is expected to be completed by December 2024 and that of bridges is expected to be completed by March 2025.
8. Thereafter, completion of other work in all respect, i.e., OHE, signaling, inspections by railway & commissioning is expected to be completed by December 2026.

PP also submitted the site photos of the Karo Railway Siding.

Work progress for the construction of Conveyor Belt and SILO:

PP submitted that length of conveyor belt has been reduced from 6.5 km to 2.1 km as it was decided to not construct non-coking coal washery for the project as per the SO 1561 (E), dated 21.05.2020, MoEF&CC. Earlier orientation also required forest land diversion and possession of non-forest land which would have taken extra time as compared to current re-oriented conveyor belt which is without any hindrance regarding diversion or possession of land. This re-orientation of conveyor belt was also approved by Amendment in EC dated 16.01.2023.

1. CCL issued work order for construction of Conveyor Belt and SILO to Asian Indwell on 05.02.2024.
2. Soil testing for the Truck receiving Hopper, Ground Bunker, transfer House (1 and 2), RLS (Rapid Loading System) and sub-station has been completed.
3. Supply order for Rotary plough feeder, Vibrating Feeder, magnetic separator, belt weigher, RLS, and Conveyor belts has been placed.
4. Plot plan and bunker are approved and approval for drawing of SILO and TRS is awaited.
5. Therefore, completion of work in all respect is expected to be December 2026.

Conditions as per EC dated 16.01.2023	Description as per approved EC dated 16.01.2023	Details of amendment sought
Specific Condition no. 4(iii), of EC granted vide letter F. No. 23-69/2018-IA.II(M)-V dated 16.01.2023	PP shall complete the work of Karo railway siding and Belt conveyor along with Silo by December 2024. No road transportation will be allowed after the completion of the work of railway siding, and accordingly SPCB shall not grant Consent to Operate after December 2024.	PP shall complete the work of Karo railway siding and Belt conveyor along with Silo by December 2026 . No road transportation will be allowed after the completion of the work of railway siding, and accordingly SPCB shall not grant Consent to Operate after December 2026 .

19.1.7: Traffic Assessment Study: PP submitted the Traffic Assessment Study, in which it is stated that existing coal transportation road is a dedicated road for coal dispatch from mine to Kargali siding. The existing road is 2.2 km, wherein 0.4 km falls within mine lease of existing Karo OCP and remaining 1.8 km is outside the mine lease of Karo OCP and within the leasehold of CCL. The said road was built by CCL as a dedicated coal transportation road connecting Karo OCP and Kargali Siding. This road is not part of any existing public road. However, some commuters from nearby CCL colonies use this road. This road is covered with PCC topping, and the width of carriage way is around 10 m measured at different cross sections along the road. Based on the width of the road and nature of traffic, this road can be classified as Two-lane two-way road. The settlement adjacent to this road include the Karo village and New Karo Colony within the ML of Karo OCP, and Jawahar Nagar colony and Subhash Nagar Colony located outside the ML of Karo OCP and adjacent to the coal transportation route.

The existing Pollution Control measures include 2 no. of mobile water sprinklers along Coal Transportation Road (CTR) and 45 no. of fixed sprinklers along CTR and 25 nos. along Rly siding. Avenue plantation (Both Natural and Planted) all along the CTR and rly siding.

PM₁₀ Analyzer is installed in Karo OCP (near CTR at mine boundary) for continuous monitoring and is connected online to JSPCB.

The transportation of coal from mines to Karo/Kargali siding 10606 tonnes/day and total number of trips made by trucks for movement of coal daily is around 424 trucks. Therefore, total traffic generated due to transport of 3.5 MTPA from mine to siding is 178 PCU/Hr. Thus, traffic density study for the said road for worst case scenario (3.5 MTPA) has been done by adding 85 PCU/Hr.

The report also covered the ambient air quality of the villages nearby the coal transportation road of last 3 quarters. Average concentration of PM₁₀ in Karo village, New Karo Colony, Jawahar Nagar and Kargali Rest House is recorded to be between 65-81 µg/m³, 75-95 µg/m³, 71-88 µg/m³ and 75-94 µg/m³ respectively. Similarly, average concentration of PM_{2.5} is recorded to be between 36-47 µg/m³, 39-47 µg/m³, 42-53 µg/m³ and 42-54 µg/m³ respectively. The same is found to be within the prescribed standards. However, there are various air pollution control measures been adopted by the proponent.

The report also covered the existing noise quality and impact of coal transportation route. The same was monitored fortnightly at four nearby habitations Jawahar Nagar Colony, Karo Village, New Karo Colony and New Kargali Rest House and based on the values monitored, the monitored noise levels during day time are well within the permissible limits. However, noise levels at night time are found to be slightly above the prescribed norms. The estimated noise levels for Jawahar Nagar Colony, Karo Village, New Karo Colony and New Kargali Rest House during the day were recorded to be between 50.3-59.4 dBA, 49.3-60.2 dBA, 49.5-58.2 dBA and 44.2-50.5 dBA respectively. Similarly estimated noise levels for Jawahar Nagar Colony, Karo Village, New Karo Colony and New Kargali Rest House during the night time were recorded to be between 44.5-51.2 dBA, 43.5-50.7 dBA, 43.1-50.4 dBA and 44.2-50.5 dBA respectively.

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

19.1.9: Written Submissions: PP vide email dated 11.12.2024 submitted an undertaking stating the following:

1. Sewage Treatment Plant will be constructed within 3 months.
2. Forest land shall not be disturbed at designated place of External Dump – 2 (within ML).
3. Check dams constructed as per DRP & NCRAP of Karo OCP shall be renovated and necessary interventions such as construction of wing wall and plantation will be done along the embankment of Karo Stream.
4. Enclosed the affidavit dated 12.07.2018 to MoEF&CC that no case was filed. Pending against Karo OCP under the matter of Common Cause vs Union of India and ors.

Observations and deliberation of the Committee:

19.1.10: The EAC noted the following:

- i. MoEF&CC has initially granted EC for Karo Opencast Coal Mining Project vide letter dated 24.12.2014 for the area of 226.33 Ha having capacity 1.5 MTPA and further granted EC under violation category vide letter dated 27.12.2019 for the area of 526.32 Ha having normative capacity of 11 MTPA and peak capacity of 15 MTPA. This EC was further amended vide letter dated 16.01.2023 for extension in timeline of road transportation and installation of CHP along with Silo and railway siding,

restricting the EC capacity to 3.5 MTPA till the installation of CHP along with Silo and railway siding is completed.

- ii. The project involves 304.1 Ha of Forestland and PP accorded Stage – II forest clearance on 77.43 Ha and 226.67 Ha of forestland on 31.03.2004 and 26.07.2024 respectively.
- iii. The project is partly implemented and the mine is under operation.
- iv. The instant proposal is now placed before the EAC for seeking amendment in conditions pertaining to implementation of Remediation Plan (RP) and Natural and Community Resource Augmentation Plan (NCRAP), release of bank guarantee and further extension in the timeline for allowing the transportation of coal by road and installation of CHP along with Silo and railway siding by December, 2026.
- v. It is observed that the specific condition no. 5 (i), of EC granted vide letter F. No. 23-69/2018-IA.II(M)-V dated 27.12.2019 stipulated that *“EAC recommended for an amount of Rs.487.204 lakhs towards Remediation plan and Natural and Community Resource Augmentation plan to spent within a span of three years (along with the details of the DRP & NCRAP).”* Now the PP has sought amendment for the same stating that the DRP and NCRAP has been implemented and has also submitted the monitoring report of RO in this regard. However, the Committee observed that the overall expenditure done by the PP in this regard is more than that stipulated in the EC condition. Further, the head-wise spending done by the PP in some activities is less than that specified in the EC whereas the head-wise spending done by the PP in some activities is more than that specified in the EC. In this regard, justification furnished by the proponent has been deliberated upon and found it satisfactory. Further, the Committee also opined that regular maintenance of the ecological environment developed by the proponent as part of RP shall be carried out and plantation shall be done along the embankment of Karo Stream.
- vi. It is observed that the specific condition no. 5 (iv), of EC granted vide letter F. No. 23-69/2018-IA.II(M)-V dated 27.12.2019 stipulated that *“Remediation Plan shall be completed in 3 years and whereas bank Guarantee shall be for 5 years. The bank guarantee shall be released after successful implementation of EMP, followed by recommendation of the EAC and approval of regulatory authority.”* Now, the PP has sought amendment for the same for releasing the Bank Guarantee as the remediation plan has been implemented. The Committee is of the opinion that bank guarantee may be released as the activities envisaged under Remediation Plan (RP) and Natural and Community Resource Augmentation Plan (NCRAP) has been completed with a financial out lay of Rs. 681.97 lakhs and the same has been mentioned in Certified Compliance Report (CCR) dated 05.09.2024 of RO, MoEF&CC, Ranchi.
- vii. Committee also sought clarification on the delay in implementation of the remediation plan. PP submitted that the Bank Guarantee against the DRP & NCRAP of Karo Expansion OCP was submitted to Jharkhand State Pollution Control Board (JSPCB) on 16.08.2019 with validity of 5 years i.e, till 15.08.2024. Accordingly, EC of Karo OCP was issued by 27.12.2019 with timeline to complete the activities within 3 years

and release of BG within 5 years. However, due to Covid – 19 from March 2020 onwards, the implementation of the activities was delayed. In this regard, justification furnished by the proponent has been deliberated upon and found it satisfactory.

- viii. Further, the PP has sought amendment in the Specific Condition no. 4(iii), of EC granted vide letter F. No. 23-69/2018-IA.II(M)-V dated 16.01.2023. The Committee observed that, earlier when PP sought amendment for the same vide EC letter dated 16.01.2023, the Ministry while granting EC restricted the production capacity of the same mine to 3.5 MTPA till the time CHP along with silo and railway siding is installed. Committee deliberated on the status of completion of the same and observed that, the construction work is under progress and will take time to complete. The Committee also questioned about the delay taking place in completion of the same. PP submitted that the EC granted vide letter dated 27.12.2019 was for increase in production capacity from 1.5 MTPA to 11/ 15 MTPA (normative/ peak) along with the establishment of 7 MTPA coal washery on the project site. However, with the policy change as per S.O. 1561(E) dated 21/05/2020, the proponent decided not to proceed with the construction of proposed washery for the Karo OCP Project. Consequently, the planned belt conveyor system layout was revised to transport the coal directly from the mine to the railway siding, bypassing the need for washery. The Committee opined that the construction of the same shall be completed by December 2025.
- ix. The Committee observed that the, CHP with belt conveyor and silo being constructed is for the capacity of 7 MTPA, however, EC capacity is for 11/ 15 MTPA (normative/ peak). PP submitted that the total mineable reserves for Karo OCP as per the approved mine plan and EC granted were 105.17 million tonne. The reserves were proposed to be extracted from two separate quarries within the project area of Karo OCP. 42.06 million tonne from quarry 1 with peak production of 5 MTPA and 63.12 MTPA from quarry 2 with peak production of 6 MTPA. Originally it was planned to operate both the quarries simultaneously to achieve the production of 11 MTPA. However, quarry 2 could not be operated due to delay in according Stage – II FC. While the Stage – I FC was accorded on 24.12.2018, the Stage – II FC was accorded on 26.07.2024. Quarry 2 is yet to be operational and is expected to start operations from FY 2025-26 onwards only, after the site handover and other necessary permissions from the Forest Department are obtained. The year-wise production from the project since the grant of EC is submitted as below:

FY	Quarry 1	Quarry 2	Total
2019-20	3.27	0	3.27
2020-21	2.22	0	2.22
2021-22	2.75	0	2.75
2022-23	1.51	0	1.51
2023-24	1.31	0	1.31

Due to delay in operationalizing of Quarry 2 the project's normative production capacity is now expected to reach at only 7 MTPA due to depletion of coal reserves in Quarry 1. Hence, accordingly Railway siding and CHP with belt conveyor and Silo has been planned for a capacity of 7 MTPA only.

- x. Committee deliberated on the Traffic Assessment Study Report submitted by the PP and deliberated on the existing and proposed measures for mitigation of air and noise

pollution. Committee observed that the transportation of coal is being done by a dedicated road for coal transportation from mine to Kargali Siding and this road is 10m wide of 2.2 km. The Committee also deliberated on the air quality of the colony near the coal transportation route and suggested the proponent to strengthen the plantation on the road sides. Committee also suggested to strictly follow the measures suggested in Traffic Assessment Study Report for mitigation of air pollution. Committee opined that the proponent shall also install two more CAAQMS in the buffer zone of ML area.

- xi. The Committee also deliberated on the Certified Compliance Report submitted by the proponent and observed that the PP has not constructed the ETP and STP. PP submitted that the idea of constructing the ETP has been dropped as washery was not being constructed. However, Committee opined that the STP must be constructed by the PP within next 3 months.
- xii. Committee also observed that as per the approved Mine Plan and previous EC, external dumps are proposed on the forestland, for which forest clearance has also been obtained by the PP. The Committee suggested that no external dumping should be done on the forestland for proposed external dump – 2.
- xiii. The Committee observed that there are no court cases pending on the project.

Recommendations of the Committee:

19.1.11: 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. F. No. 23-69/2018-IA.II(M)-V dated 27.12.2019 and its subsequent amendment dated 16.01.2023, as detailed below **subject to stipulation of following additional specific conditions and uploading of written submissions on PARIVESH portal.** Other terms and conditions prescribed in EC dated 27.12.2019 and its subsequent amendment dated 16/01/2023 shall remain unchanged:

Condition No. as per EC dated 27.12.2019 & its subsequent amendment dated 16.01.2023	Description as per approved EC	Recommendation of EAC
Specific Condition no. 5 (i), of EC granted vide letter F. No. 23-69/2018-IA.II(M)-V dated 27.12.2019	EAC recommended for an amount of Rs.487.204 lakhs towards Remediation plan and Natural and Community Resource Augmentation plan to spent within a span of three years.	Activities envisaged under Remediation Plan (RP) and Natural and Community Resource Augmentation Plan (NCRAP) has been completed with a financial out lay of Rs. 681.97 lakhs and the same has been mentioned in Certified Compliance Report (CCR) dated 05.09.2024 of RO, MoEF&CC, Ranchi.

Condition No. as per EC dated 27.12.2019 & its subsequent amendment dated 16.01.2023	Description as per approved EC	Recommendation of EAC
Specific Condition no. 5 (ii), of EC granted vide letter F. No. 23-69/2018-IA.II(M)-V dated 27.12.2019	Total budgetary provision with respect to Remediation plan and Natural & Community Resource Augmentation plan is Rs. 487.204 lakhs.	Total budgetary provision with respect to Remediation plan and Natural & Community Resource Augmentation plan is Rs. 681.97 lakhs.
Specific Condition no. 5 (iv), of EC granted vide letter F. No. 23-69/2018-IA.II(M)-V dated 27.12.2019	Remediation plan shall be completed in 3 years whereas bank guarantee shall be for 5 years. The bank guarantee shall be released after successful implementation of the EMP, followed by recommendations of the EAC and approval of the regulatory authority.	Bank guarantee shall be released by JSPCB as the activities envisaged under Remediation Plan (RP) and Natural and Community Resource Augmentation Plan (NCRAP) has been completed with a financial out lay of Rs. 681.97 lakhs and the same has been mentioned in Certified Compliance Report (CCR) dated 05.09.2024 of RO, MoEF&CC, Ranchi.
Specific Condition no. 4(iii), of EC granted vide letter F. No. 23-69/2018-IA.II(M)-V dated 16.01.2023	PP shall complete the work of Karo railway siding and Belt conveyor along with Silo by December 2024. No road transportation will be allowed after the completion of the work of railway siding, and accordingly SPCB shall not grant Consent to Operate after December 2024.	PP shall complete the work of Karo railway siding and Belt conveyor along with Silo by December 2025 . No road transportation will be allowed after the completion of the work of railway siding, and accordingly SPCB shall not grant Consent to Operate after December 2025 .

Additional Specific Conditions:

- i. PP shall construct the Sewage Treatment Plant by March 2025 and the work for the same shall start immediately. Compliance status in this regard shall be submitted to the concerned Regional Office along with the six monthly compliance report.
- ii. The height of toe-walls constructed around the check dams shall be increased and renovated by February 2025. Compliance status in this regard shall be submitted to the concerned Regional Office along with the six monthly compliance report.
- iii. PP shall complete the work of Karo railway siding and Belt conveyor along with Silo by December 2025. No road transportation will be allowed after the completion of the work of railway siding, and accordingly SPCB shall not grant Consent to Operate after December 2025.

- iv. In addition to this existing 1 CAAQMS, PP shall install additional two continuous ambient air quality monitoring station in the buffer zone of mine lease area in consultation of JSPCB within 1 year from the date of grant of EC amendment.
- v. One nos of truck mounted fog canon for dust suppression of coal transportation road and siding must be deployed by January 2025.
- vi. One automatic wheel washing system for different heavy-duty vehicles on coal transportation road at exit point of Karo OCP must be deployed by March 2025.
- vii. Avenue plantation all along the road for transportation of coal shall be carried out by the project proponent during the coming planting season.

Agenda No. 19.2

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

[Online Proposal No. IA/TG/CMIN/505873/2024; Consultant: Environment Protection & Training Research Institute – NABET/EIA/24-27/RA0337 valid up to 21.01.2027]

19.2.1: The instant proposal is for amendment in Environment Clearance granted to M/s Singareni Collieries Company Limited (SCCL) accorded vide letter no 23-254/2018-IA.III(V) dated 20.05.2021 for Expansion of Gauthamkhani Opencast Coal Mining Project (area 902 Ha having capacity 4 MTPA) located at Village: Penagadapa, District: BhadradriKothagudem; State: Telangana.

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

S. No.	DetailsofLetterNo.	EC/Expansion EC/Amendmentin EC/Validity extension/ Transfer ofEC	Capacity (MTPA)	Area (Ha)	Date of issuance of EC	Status of implementation
1	File No.J-11015/46/89 - JA-11(M),	EC (Initial)	2.00	1113.00	13.01.1993	Implemented
2	File No. J-11015/46 /89-JA-11(M).	Additional Environmental Conditions for EC dated 13.01.1993.	2.00	1113.00	09.05.2001	Implemented
3	File No. 23-254/2018-IA.III(V)	Expansion EC under violation category	4.00	902.00	20.05.2021	Implemented

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

19.2.3: PP submitted that the concerned mines became operational from FY 1993-94onwards. Details of the same are as follows:

MoM of 19th meeting of the EAC for Coal Mining sector held on 10th & 11th December, 2024

Year	Coal production in MTPA	EC capacity in MTPA	Excess Production
1993-94	0.843	--	0.843
1994-95	0.622		0.622
1995-96	0.575		0.575
1996-97	0.511		0.511
1997-98	0.466		0.466
1998-99	0.457		0.457
1999-00	0.455		0.455
2000-01	0.714		0.714
2001-02	0.700		0.700
2002-03	0.437		0.437
2003-04	0.354		0.354
2004-05	0.188		0.188
2005-06	0.253		0.253
2006-07	0.290		0.290
2007-08	0.350		0.350
2008-09	0.375		0.375
2009-10	0.359		0.359
2010-11	0.655		0.655
2011-12	0.439		0.439
2012-13	0.653		0.653
2013-14	0.697	0.697	
2014-15	0.549	0.549	
2015-16	0.569	0.569	
2016-17	0.454	0.454	
2017-18	0.396	0.396	
2018-19	0.437	0.437	
2019-20	0.416	0.416	
2020-21	0.313	0.313	
2021-22	Nil	0.843	Mine closed on 16.01.2021
2022-23	Nil	0.843	
2023-24	Nil	0.843	

CTO renewal (red category) has been obtained from the SPCB on 22.03.2017 and was valid up to 31.03.2022 (Mine closed on 16.01.2021).

19.2.4: Certified Compliance Report and Action Taken Report thereon: The Regional Office, Hyderabad vide letter no. ENV/IRO-HYD/CCR-52/A/2021, dated 24.10.2024, issued a monitoring report on the status of compliance of conditions stipulated in the EC letter dated 20.05.2021, granted by the MoEF&CC. As per the said report there is a minor partial compliance pertaining to information on the on-ground implementation of works and financial utilization (which has to be sought from the Forest Department) and mine void of GK OCP is yet to be filled. Apart from this, in the said report, Regional Office also reported the compliance status to the activities related to the Remediation plan, Natural resource Augmentation plan and Community Resource Augmentation plan.

Details of the partially complied conditions are as follows:

Condition no.	Details as per EC	Observation of RO
Partial-Compliance of EC Specific Condition (v)	Wild life conservation plan as approved by the Competent Authority shall be implemented.	<p>Partially Complied</p> <p>A Wildlife Conservation Plan for Schedule-I species was approved by the Principal Chief Conservator of Forest (HoFF) and Chief Wild life Warden (FAC), TS for Rs.478.60 Lakhs, vide LtrNo.Prl.CCF(HoFF),TS, Hyderabad, Rc.No. 5694/2021/WL-1, Dt.12.10.2021. For the implementation of the Wildlife conservation plan, SCCL deposited Rs.478.60 Lakhs on 24.03.2022 in favor of the State Forest Department into the Biodiversity Conservation Society of Telangana (BIOSOT).</p> <p>However, PP has not provided information on the ground implementation of works and financial utilization, which may be sought from the Forest Department.</p>
Partial-Compliance of EC Standard Condition 4.1 (a) (iii)	The project proponent shall prepare a Site Specific Conservation Plan / Wildlife Management Plan and approved by the Chief Wildlife Warden. The recommendations of the approved Site-Specific Conservation Plan / Wildlife Management Plan shall be implemented in consultation with the State Forest Department. The implementation report shall be furnished along with the six-monthly compliance report (in case of the presence of schedule-	<p>Partially Complied</p> <p>The Principal Chief Conservator of Forest (HoFF) and Chief Wildlife Warden (FAC), TS. approved a Wildlife Conservation Plan for Schedule-I species for Rs. 478.60 Lakhs, vide Ltr No. Prl CCF (HoFF), TS, Hyderabad, Rc.No. 5694/2021/WL-1, Dt.12.10.2021.</p> <p>To implement the Wildlife conservation plan, SCCL deposited Rs.478.60 Lakhs on 24.03.2022 in favor of the State Forest Department into the Bio-diversity Conservation Society of Telangana (BIOSOT).</p> <p>However, PP has not provided the information related to the on-ground implementation of</p>

Condition no.	Details as per EC	Observation of RO
	I species in the study area).	works and financial utilization, which may be sought from the Forest Department.
Partial compliance with EC Standard Condition 4.1 (f) (ii)	The final mine void depth should preferably be as per the approved Mine Closure Plan, and in case it exceeds 40 m, adequate engineering interventions shall be provided for sustenance of aquatic life therein. The remaining area shall be backfilled and covered with thick and alive top soil. Post-mining land be rendered usable for agricultural/forestry purposes and shall be diverted. Further action will be treated as specified in the guidelines for Preparation of Mine Closure Plan issued by the Ministry of Coal dated 27th August, 2009 and subsequent amendments.	<p>Partly Complied. GK OCP is proposed to amalgamate with the adjacent VK-7 Incline and PVK-5 Incline mines under the name of VK Coal Mine for which MoC, GoI, approved MP&MCP. Vide 38011/12/2017 PCA, dated 27.01.2020 and ToR was issued by MoEF&CC vide IA 23 78/2018-IA(III) dated.27.10.2021 and PH was conducted on 19.04.2022.</p> <p>In this proposed amalgamation project GK OC voids will be filled completely by the OB extracted from the VK-7 & PVK-5 Incline areas.</p> <p>After obtaining EC for the proposed VK Coal Mine the final mine void will be maintained as per the approved MP&MCP of VK Coal Mine.</p>

19.2.5: Details regarding amendment sought in the EC dated 20.05.2021

I. Brief of EC dated 20.05.2021

MoEF&CC has accorded EC for expansion of Gauthamkhani Opencast Coal Mining Project vide letter no 23-254/2018-IA.III(V) dated 20.05.2021 for an area of 902 Ha having capacity 4 MTPA, under the violation category as per the provisions contained under S.O. 804(E), dated 14.03.2017. As per the EC accorded, the proponent has to comply with the following conditions with respect to Remediation Plan (RP) & Natural and Community Resource Augmentation Plan (NCRAP).

- i. An amount of Rs. 540.0 lakhs towards Remediation plan and Natural and Community Resource Augmentation plan to be spent within a span of three years. The details of Remediation plan, Natural resource Augmentation plan and Community Resource Augmentation plan with budgetary provision are mention below:

Remediation plan with the budgetary provisions:

S. No.	Component Remediation	Remediation Proposed	Description	Locations	Unit Rate in Rs.	Total Qty	Total Cost	Year I	Year II
							In Lakhs		
1a	Air & Noise Environment	Dust Suppression	Providing wind barrier and vertical greenery outside ML area towards the direction of head CHP.	Outside ML boundary area	30,00,000/100 mtrs	500 m	150.0	70.0	80.0

S. No.	Component Remediation	Remediation Proposed	Description	Locations	Unit Rate in Rs.	Total Qty	Total Cost	Year I	Year II
							In Lakhs		
1b	Noise Environment and Ecology	Avenue Plantation	Plantation of total 3000 Nos native plants at Rs. 1000 per sapling, including maintenance for 3 years in nearby villages.	1. Rudrampur 2. Kothagudem 3. Periphery of the outside the lease area	1000	3000	30.0	15.0	15.0
Sub Total - A							180.0	85.0	95.0

Natural Resource Augmentation Plan with the budgetary provision

S. No.	Component Remediation	Remediation Proposed	Description	Locations	Unit Rate in Rs.	Total Qty	Total Cost	Year I	Year II
							In Lakhs		
2a	Natural resource augmentation plan	Construction and annual maintenance of 20 nos rain water harvesting in nearby villages	Construction of RWH – 20 Nos @ 2,00,000/ per RWH (including raw material, labour, construction and maintenance for 1 year)	Penagadapa Sitampet	2,00,000	20	40.0	20.0	20.0
2b		Energy Conservation by adapting Green Energy technology	Providing 1 KW solar street lighting (including panels, inverters, wiring, structure, connectors. Junction boxes, etc.) in nearby villages @ Rs. 50,000 per unit.	Penagadapa Kothagudem Rudrampur	50,000	100	50.0	25.0	25.0
Sub-total - B							90.0	45.0	45.0

Community Resource Augmentation Plan with the budgetary provision

S. No.	Component Remediation	Remediation Proposed	Description	Locations	Unit Rate in Rs.	Total Qty	Total Cost	Year I	Year II
							In Lakhs		
3a	Community Resource Augmentation	Improving health status of people during	Providing materials related to Covid-19 prevention to the	1. Penagadapa 2. Rudrampur 3. Ramavaram	2,00,000	10	20.0	20.0	0

S. No.	Component Remediation	Remediation Proposed	Description	Locations	Unit Rate in Rs.	Total Qty	Total Cost	Year I	Year II
							In Lakhs		
	Plan	the pandemic (Covid 19)	nearby villagers. (@Rs.2,00,000/village). 1. Placement of 4 Nos in each village Viral disease air & surface transmission prevention equipment for active containment of the pathogens (Including Corona family of viruses) - Rs.25,000/unit. 2. Masks Rs.50,000 (Distribution of 2000 masks @ Rs.25/mask) 3. Sanitisors- Rs.50,000 (Distribution of 1000 sanitizers @ Rs.50/sanitizer).	4. Gouthampur 5. Chunchupalli 6. Gareebpeta 7. 3 Incline 8. Vanamanagar 9. Rampur 10. Dhanbad					
		Development of infrastructure for recreation for improving the health conditions	Development of ECO Park near by GK OC dumps by developing Lawns, Gardens, theme plantation, Cacti garden, birds watching arrangements, cycling track, walking track and adventurous sports, arrangements like trekking etc.	GK OCP	LS	1	250	125	125
Sub Total – C							270	145	125

Summary RP & NCRAP

S. No.	Description	Estimated Cost (Rs. in lakhs)
1	Remediation Plan	180
2	Natural Resource Augmentation Plan	90
3	Community Resources Augmentation Plan	270
Total		540

ii. Total budgetary provision with respect to Remediation plan and Natural & Community Resource Augmentation plan is Rs 540.0 lakhs. Therefore, project

proponent shall be required to submit a bank guarantee of an amount of Rs. 540.0 lakhs towards Remediation plan and Natural and Community Resource Augmentation plan with the SPCB prior to the grant of EC.

- iii. Remediation plan shall be completed in 2 years whereas bank guarantee shall be for 5 years. The bank guarantee will be released after successful implementation of the remediation plan. and Natural and Community Resource Augmentation Plan, and after the recommendation by regional office of the Ministry, Expert Appraisal Committee and approval of the Regulatory Authority.

II. Provisions contained under S.O. 804 (E) dated 14/03/2017

The bank guarantee will be released after successful implementation of the Remediation Plan (RP) & Natural and Community Resource Augmentation Plan (NCRAP) and after the recommendation by regional office of the Ministry, Expert Appraisal Committee and approval of the Regulatory Authority.

III. Status of implementation of RP & NCRAP along with the recommendation of Regional Office

Remediation Plan with the budgetary provision:

Head	Activities as per existing EC in RP		Status of activities undertaken by SCCL		Recommendations of Regional Office as per the report
	Activities	Allocated Fund (Rs. In Lakhs)	Expenditure incurred (Rs. In Lakhs)	Status of compliance by SCCL/ Fund Utilized or to be utilized by SCCL)	
Air and Noise Environment	Dust Suppression - Providing wind barrier and vertical greenery outside ML area towards the direction of head CHP for a length of 500m, outside ML boundary Area.	150,00,000	146,23,227.64	The construction of a wind barrier and vertical greenery outside the ML area for 500 m in the direction of CHP has been completed.	Complied
Noise Environment And Ecology	Avenue Plantation - Plantation of total 3000 Nos native plants at	30,00,000	30,03,103.64	Plantation of more than 3000 native species in Rudrampur, Kothagudem, and periphery of the outside the mine boundary completed. PP has planted Ficus bengalensis, Ficus religiosa, Spathodium companulatum, Millingtonia hortensis, Petloporum pterocarpum,	Complied

Head	Activities as per existing EC in RP		Status of activities undertaken by SCCL		Recommendations of Regional Office as per the report
	Activities	Allocated Fund (Rs. In Lakhs)	Expenditure incurred (Rs. In Lakhs)	Status of compliance by SCCL/ Fund Utilized or to be utilized by SCCL)	
	Rs.1000 per sapling, including maintenance for 3 years in nearby villages (Rudrampur, Kothagudem, periphery of the outside the mine boundary).			Delonixregia, Terminalliaarjuna, Dalbergialatifolia, Azadirachtaindica, Bauhuniablackiana, Anthocephalus damba etc.	
TOTAL		180,00,000	176,26,331.28		

Natural & Community Resource augmentation plan along with a budget:

Head	Activities as per existing EC in RP		Status of activities undertaken by SCCL		Recommendations of Regional Office as per the report
	Activities	Allocated Fund (Rs. In Lakhs)	Expenditure incurred (Rs. In Lakhs)	Status of compliance by SCCL/ Fund Utilized or to be utilized by SCCL)	
Natural Resource augmentation plan	Construction and annual maintenance of 20 No's. Rain Water Harvesting in nearby village.	40,00,000	41,72,513.32	Construction of Rain 20 No's Water Harvesting was completed in the nearby villages.	Complied
	Energy Conservation by adapting green energy technology - Providing 1 KW Solar Street Lighting (including panels, inverters, wiring, structure, connectors, junction boxes, etc.) in nearby villages @ Rs.50,000 per unit in Penagadapa,	50,00,000	73,60,743.67	The installation of 100 units of solar lighting was completed in all the villages.	Complied

Head	Activities as per existing EC in RP		Status of activities undertaken by SCCL		Recommendations of Regional Office as per the report
	Activities	Allocated Fund (Rs. In Lakhs)	Expenditure incurred (Rs. In Lakhs)	Status of compliance by SCCL/ Fund Utilized or to be utilized by SCCL)	
	Kothagudem, Rudrampur villages.				
Community Resource Augmentation Plan	Improving Health Status of people during the Pandemic (Covid – 19) Providing materials related to Covid-19 prevention to the nearby 10 villagers. (@Rs.2,00,000/village) 1. Placement of 4 No's in each village Viral disease air & surface transmission prevention equipment for active containment of the pathogens (Including Corona family of viruses) - Rs.25, 000/unit. 2. Masks- Rs.50,000(Distribution of 2000 masks@ Rs.25/mask) 3. Sanitisors-Rs.50,000 (Distribution of 1000 sanitizers @ Rs.50/sanitizer).	20,00,000	20,09,124.88	40 No's of Pathogens (Viral diseases air & surface transmission prevention equipment for active containment of the pathogens (Including Corona viruses) installed. 71250 Masks were distributed in 10 villages. 28500 Sanitizers were distributed in 10 villages.	Complied
	Development of infrastructure for recreation for improving the health conditions – Development of ECO park near by GK OC dumps by developing Lawns, Gardens, theme plantation, cacti garden, birds watching arrangements, cycling track, walking track and adventurous sports arrangements like trekking etc	250,00,000	347,85,162.12	ECO park development at the GK OC Dumps by developing lawns, gardens, theme plantation, bird watching tower, walking tract etc.	Complied
TOTAL		360,00,000	367,94,287		

Summary

S. No.	Description	Allotted Estimated Cost (Rs. in Lakhs)	Actual Amount spent by SCCL (Rs. in Lakhs)
1	Remediation Plan	180,00,000	176,26,331.28
2	Natural Resource Augmentation Plan	90,00,000	115,33,256.99
3	Community Resources Augmentation Plan	270,00,000	367,94,287
TOTAL		540,00,000	659,53,875.27

IV. Amendment sought in the EC dated 20.09.2024

Conditions as per EC dated 20.05.2021	Description as per approved EC dated 20.05.2021	Details of amendment sought
Specific Condition No 4(i)	An amount of Rs. 540.0 lakhs towards Remediation plan and Natural and Community Resource Augmentation plan to be spent within a span of three years. The details of Remediation plan, Natural resource Augmentation plan and Community Resource Augmentation plan with budgetary provision	Activities envisaged under Remediation Plan (RP) and Natural and Community Resource Augmentation Plan (NCRAP) has been completed with a financial out lay of Rs. 659.53 lakhs and the same has been mentioned in Certified Compliance Report (CCR) dated 24.10.2024 of RO, MoEF&CC, Hyderabad.
Specific Condition No 4(ii)	Total budgetary provision with respect to Remediation plan and Natural & Community Resource Augmentation plan is Rs 540.0 lakhs. Therefore, project proponent shall be required to submit a bank guarantee of an amount of Rs. 540.0 lakhs towards Remediation plan and Natural and Community Resource Augmentation plan with the SPCB prior to the grant of EC.	Total budgetary provision with respect to Remediation plan and Natural & Community Resource Augmentation plan is Rs. 659.53 lakhs.
Specific Condition No 4(iii)	Remediation plan shall be completed in 2 years whereas bank guarantee shall be for 5 years. The bank guarantee will be released after successful implementation of the remediation plan and Natural and Community Resource Augmentation Plan, and after the recommendation by regional office of the Ministry, Expert Appraisal Committee and approval of the Regulatory Authority.	Bank guarantee shall be released by TSPCB as the activities envisaged under Remediation Plan (RP) and Natural and Community Resource Augmentation Plan (NCRAP) has been completed with a financial out lay of Rs. 659.53 lakhs and the same has been mentioned in Certified Compliance Report (CCR) dated 24.10.2024 of RO, MoEF&CC, Hyderabad.

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

Observations and deliberation of the Committee:

19.2.7: The EAC noted the following:

- i. MoEF&CC has initially granted EC to M/s Singareni Collieries Company Limited (SCCL), vide letter no File No.J-11015/46/ 89 - JA-11(M), dated 13.01.1993, for the capacity of 2 MTPA within an area of 1113 Ha, further issued another EC for the same capacity and area with additional specific conditions on the existing EC vide letter dated 09.05.2001 for Gauthamkhani Opencast Coal Mining Project located at Village: Penagadapa, District: Bhadrakoti, State: Telangana.
- ii. The Committee observed that the Ministry issued another EC to M/s Singareni Collieries Company Limited (SCCL), vide letter no File No. 23-254/2018-IA.III(V), dated 20.05.2021 for Gauthamkhani Opencast Coal Mining Project, under violation category as per MoEF&CC notification S.O. 804 (E), dated 14.03.2017.
- iii. The project involves 540.27 Ha of forestland and PP accorded Stage – I FC for the area of 261.31 Ha, 154.96 Ha and 124 Ha vide letter dated 01.02.2010, 30.09.2024 and 24.09.2024 respectively. However, clarity on the Stage – II FC accorded by the proponent is required.
- iv. The project is implemented and the mine operations are closed since FY 2021-22.
- v. The instant proposal is now placed before the EAC for seeking amendment in conditions pertaining to release of bank guarantee deposited for implementation of Damage Remediation Plan (DRP) and Natural and Community Resource Augmentation Plan (NCRAP) and release of bank guarantee.
- vi. It is observed that as per the specific condition no. 4(iii), of Environment Clearance dated 20.05.2021, *“Remediation plan shall be completed in 2 years whereas bank guarantee shall be for 5 years. The bank guarantee will be released after successful implementation of the Remediation plan and Natural and Community Resource Augmentation Plan, and after the recommendation by regional office of the Ministry, EAC and approval of the Regulatory Authority.”* Now the PP has submitted this proposal for release of bank guarantee deposited in this regard as the RP&NCRAP has been implemented as per the condition stipulated. The fund allocated by the Ministry and the fund actually spent by the PP in each head is different. However, the total amount spent by the PP is more than that allocated by the Ministry.

The Committee observed that rainwater harvesting pits developed by the proponent as part of NRAP are not found up to the mark and the same shall be modified as per the CGWA manual on Rain Water Harvesting.

- vii. The Committee further deliberated on the plantation activities done by the PP and observed that the vertical barrier plantation is yet to be done. Committee observed that the plantation activities stopped since 2019 and found the plantation done by the proponent to be inadequate. The Committee opined that gap plantation should also be carried out by the PP.

- viii. The proponent also showed the photos of the backfilled mine void area. These photos were not geo-tagged. PP is required to submit the geo-tagged photos of the backfilled mine void area and gap plantation on the backfilled area should be done. Committee also sought the details of plantation done in last 6 years.
- ix. PP also presented the drone video of the ML area to the Committee.
- x. However, the Committee observed some discrepancies in the data submitted by the PP. The Committee suggested that the correct data must be submitted to the Committee members and there should be no discrepancy in the data submitted and that presented.

Recommendations of the Committee:

19.2.8: In view of the foregoing and after the detailed deliberations, the Committee *deferred* the instant proposal and sought for following additional information for further consideration of the proposal.

- i. The rain water harvesting structures constructed by the proponent as part of NCRAP shall be modified as per the CGWA rain water harvesting manual.
- ii. Gap Plantation shall be carried out in the backfilled mine void area and vertical barrier plantation shall be completed.
- iii. Geo-tagged photographs of backfilled area shall be submitted.
- iv. Details of plantation done in last 6 years for the Gauthamkhani Opencast Mine shall be submitted.
- v. Stage – II Forest Clearance accorded by the proponent shall be submitted for 540.27 Ha of forestland forming part of the ML area.

Agenda No. 19.3

19.3: VenkateshKhani No.7 Incline (VK-7 Incline) Underground Coal Mining Project (area 580.20 Ha having capacity 0.843 MTPA) by M/s Singreni Collieries Co Ltd, located at Villages: Kistaram and Penagadapa; District: BhadradriKothagudem; State: Telangana – Regarding grant of Amendment in EC w.r.t. implementation of RP&NCRAP and release of Bank Guarantee

[Online Proposal No. IA/TG/CMIN/506197/2024; Consultant: Environment Protection & Training Research Institute – NABET/EIA/24-27/RA0337 valid up to 21.01.2027]

19.3.1: The instant proposal is for amendment in Environment Clearance granted to M/s Singreni Collieries Company Limited (SCCL), vide letter no 23-73/2018-IA.III(V) Dated.07.06.2021 for VenkateshKhani No.7 Incline (VK – 7 Incline) Underground Coal Mining Project (area 580.20 Ha having capacity 0.843 MTPA) located at Villages- Kistaram and Penagadapa; District- BhadradriKothagudem in the State of Telangana.

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

S. No.	DetailsofLetterNo	EC/Expansion EC/Amendmentin EC/Validity extension/ Transfer ofEC	Capacity (MTPA)	Area (Ha)	Date of issuance of EC	Status of implementation
1	File No. 23-73/2018-IA.III(V)	Expansion EC under violation category	0.843	580.20	07.06.2021	Implemented

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

19.3.3: Production Details: PP submitted that the concerned mines became operational from FY 1993-94onwards. Details of the same are as follows:

Year	Coal production in MTPA	EC capacity in MTPA	Excess Production
1993-94	0.843	--	0.843
1994-95	0.622		0.622
1995-96	0.575		0.575
1996-97	0.511		0.511
1997-98	0.466		0.466
1998-99	0.457		0.457
1999-00	0.455		0.455
2000-01	0.714		0.714
2001-02	0.700		0.700
2002-03	0.437		0.437
2003-04	0.354		0.354
2004-05	0.188		0.188
2005-06	0.253		0.253
2006-07	0.290		0.290
2007-08	0.350		0.350
2008-09	0.375		0.375
2009-10	0.359		0.359
2010-11	0.655	0.655	

Year	Coal production in MTPA	EC capacity in MTPA	Excess Production
2011-12	0.439		0.439
2012-13	0.653		0.653
2013-14	0.697		0.697
2014-15	0.549		0.549
2015-16	0.569		0.569
2016-17	0.454		0.454
2017-18	0.396		0.396
2018-19	0.437		0.437
2019-20	0.416		0.416
2020-21	0.313		0.313
2021-22	Nil	0.843	Mine closed on 16.01.2021
2022-23	Nil	0.843	
2023-24	Nil	0.843	

CTO renewal (red category) has been obtained from the SPCB on 22.03.2017 and was valid up to 31.03.2022 (Mine closed on 16.01.2021).

19.3.4: Certified Compliance Report and Action Taken Report thereon: The Regional Office, Hyderabad vide letter no. ENV/IRO-HYD/CCR-52/A/2021 dated 24.10.2024 issued the monitoring report on the status of compliance of conditions stipulated in the EC letter dated 07.06.2021, granted by the MoEF&CC. As per the said report there is a minor partial compliance pertaining to information on the on-ground implementation of works and financial utilization (which has to be sought from the Forest Department). Apart from this, it also furnished the compliance of Remediation plan, Natural resource Augmentation plan and Community Resource Augmentation plan with budgetary provisions.

Condition no.	Details as per EC	Observation of RO
Partial-Compliance of EC Specific Condition (v)	Wild life Conservation plan as approved by the Competent Authority shall be implemented.	<p>Partly Complied</p> <p>A Wildlife Conservation Plan for Schedule-I species was approved by the Principal Chief Conservator of Forest (HoFF) and Chief Wildlife Warden (FAC), TS. with an amount of Rs. 478.60 Lakhs, vide Ltr No. PCCF (HoFF), TS, Hyderabad, Rc. No.5694/2021/WL1, t.12.10.2021.</p> <p>For the implementation of the Wildlife conservation plan, SCCL deposited Rs. 478.60 Lakhs in favor of the State Forest Department into the Bio-diversity Conservation Society of Telangana (BIOSOT).</p> <p>However, PP has not provided information on ground implementation of works and financial utilization, which may be sought from the Forest Department.</p>

Condition no.	Details as per EC	Observation of RO
Partial-Compliance of EC Statutory Condition (iv):	The project proponent shall prepare a Site Specific Conservation Plan I Wildlife Management Plan and approved by the Chief Wildlife Warden. The recommendations of the approved Site-Specific Conservation Plan I 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.	Partly Complied A Wildlife Conservation Plan for Schedule-I species was approved by the Principal Chief Conservator of Forest (HoFF) and Chief Wild life Warden (FAC), TS. with an amount of Rs. 478.60 Lakhs, vide LtrNo.Prl.CCF (HoFF), TS,Hyderabad,Re.No.5694/2021/WL1, Dt.12.10.2021. For the implementation of the Wildlife conservation plan, SCCL deposited Rs. 478.60 Lakhs in favor of the State Forest Department into the Bio-diversity Conservation Society of Telangana (BIOSOT). However, PP has not provided information on the ground implementation of works and financial utilization, which may be sought from the Forest Department.

19.3.5: Details regarding amendment sought in the EC dated 07.06.2021:

I. Brief of EC dated 07.06.2021:

MoEF&CC accorded EC for VenkateshKhani No. 7 Incline (VK-7 Incline) Underground Coal Mining project vide letter no 23-73/2018-IA.III(V) Dated.07.06.2021 for an area of 580.20 Ha having capacity of 0.843 MTPA, under violation category as per the provisions contained under S.O. 804(E), dated 14.03.2017. As per the EC accorded, the proponent has to comply with the following conditions with respect to Natural and Community Resource Augmentation Plan (NCRAP).

- i. EAC recommended for an amount of Rs 1,33,50,000 lakhs towards Remediation plan and Natural and Community Resource Augmentation plan to be spent within a span of three years. The details of Remediation plan, Natural resource Augmentation plan and Community Resource Augmentation plan with budgetary provision are mention below:

A. Remediation plan with the budgetary provisions:

S. No.	Component Remediation	Remediation Proposed	Description	Locations	Unit Rate in Rs.	Total Qty	Total Cost	Year I	Year II
							In Lakhs		
1	Air & Noise Environment and ecology	Avenue Plantation	Plantation of total 3500 nos native plants at Rs. 1000 per sapling, including maintenance for 3 years in nearby villages	1. Penubally 2. 3 Incline 3. Rampur 4. Penagadapa 5. Ambedkarn agar	1,000	3500	35,00,000	20,00,000	15,00,000
2	Water Environment	Construction of Check dams	Lumpsum cost including materials,	1. Tellavagu 2. Penagadapa tank	10,00,000	2	20,00,000	10,00,000	10,00,000

S. No.	Component Remediation	Remediation Proposed	Description	Locations	Unit Rate in Rs.	Total Qty	Total Cost	Year I	Year II
							In Lakhs		
			labour, construction and maintenance for one year						
Sub Total							55,00,000	30,00,000	25,00,000

B. Natural & Community Resource Augmentation Plan with the budgetary provision

S. No.	Component Remediation	Remediation Proposed	Description	Locations	Unit Rate in Rs.	Total Qty	Total Cost	Year I	Year II
							In Lakhs		
1	Natural & Community Resource Augmentation Plan	Energy Conservation by adapting Green Energy technology	Providing 1 KW solar Street Lighting (including panels, inverters, wiring, structure, connectors, junction boxes) in nearby villages @ Rs. 50,000 per unit	1. Kothgudem 2. Rampur 3. Penagadapa 4. Ambedkarnagar	50,000	40	20,00,000	10,00,000	10,00,000
2	Community Resource Augmentation Plan	Development of Infrastructure	Development of parks	1. Ramavaram 2. 3 incline 3. Penagadapa	7,00,000	3	21,00,000	14,00,000	7,00,000
			Construction of CC drains	1. Penagadapa Village	LS	20,00,000	20,00,000	10,00,000	10,00,000
			School repairs	1. Rampur	LS	7,50,000	7,50,000	5,00,000	2,50,000
		Improving health status of people during the pandemic (Covid 19)	Providing materials related to Covid – 19 prevention to the nearby villagers (@Rs. 2,00,000/village). 1. Placement of 4 nos of air and surface transmission prevention Equipment for active containment of the pathogens (including corona family of viruses) – Rs 25,000/ unit 2. Masks – Rs. 50,000 (distribution of 2000	1. Ramavaram 2. 3-incline 3. Rudrampur 4. Chunchupall 5. Penagadapa	2,00,000	5	10,00,000	10,00,000	-

S. No.	Component Remediation	Remediation Proposed	Description	Locations	Unit Rate in Rs.	Total Qty	Total Cost	Year I	Year II
							In Lakhs		
			masks @ Rs 25/ mask) 3. Sanitisors – Rs. 50,000 (distribution of 1000 sanitizer).						
Sub Total							78,50,000	49,00,000	29,50,000

C. Summary RP & NCRAP

S. No.	Description	Estimated Cost (Rs. in lakhs)
1	Remediation Plan	55
2	Natural Resource Augmentation Plan	25
3	Community Resources Augmentation Plan	53.50
Total		133.50

ii. Total budgetary provision with respect to Remediation plan and Natural & Community Resource Augmentation plan is Rs 1,33,50,000. Therefore, project proponent shall be required to submit a bank guarantee of an amount of Rs 1,33,50,000/-towards Remediation plan and Natural and Community Resource Augmentation plan with the SPCB. The same has been submitted by Member Secretary, TSPCB vide its letter no. 8 TSPCB/EC/BG/2020-389 dated 10th May, 2021.

iii. Remediation plan shall be completed in 3 years whereas bank guarantee shall be for 5 years. The bank guarantee will be released after successful implementation of the remediation plan and Natural and Community Resource Augmentation Plan, and after the recommendation by regional office of the Ministry. Expert Appraisal Committee and approval of the Regulatory Authority.

II. Provisions contained under S.O. 804 (E) dated 14/03/2017

The bank guarantee will be released after successful implementation of the Remediation Plan (RP) & Natural and Community Resource Augmentation Plan (NCRAP) and after the recommendation by regional office of the Ministry, Expert Appraisal Committee and approval of the Regulatory Authority.

III. Status of implementation of RP & NCRAP along with the recommendation of Regional Office:

A. Remediation Plan with the budgetary provision:

Head	Activities as per existing EC in RP	Status of activities undertaken by SCCL	Recommendations of Regional Office
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	Activities	Allocated Fund (Rs. In Lakhs)	Expenditure incurred (Rs. In Lakhs)	Status of compliance by SCCL/ Fund Utilized or to be utilized by SCCL)	as per the report
Air and Noise environment and ecology	Plantation of total 3500 No.s native plants at Rs.1000 per sapling, including maintenance for 3 years in nearby villages (Penubally, 3 Incline, Rampur, Penagadapa & Ambedkar Nagar)	35,00,000	34,64,358.42	Plantation of 3500 plants completed in the nearby villages.	Complied
Water environment	Construction of check dams on Tellavagu and Penagadapa Tank.	20,00,000	19,42,283.00	Construction of check dam on Tellavagu and Penagadapa completed.	Complied
TOTAL		55,00,000	54,06,641.432		

B. Natural & Community Resource augmentation plan along with a budget.

Head	Activities as per existing EC in RP		Status of activities undertaken by SCCL		Recommendations of Regional Office as per the report
	Activities	Allocated Fund (Rs. In Lakhs)	Expenditure incurred (Rs. In Lakhs)	Status of compliance by SCCL/ Fund Utilized or to be utilized by SCCL)	
Natural & Community Resource augmentation plan	Providing 1 KW Solar Street Lighting (including panels, inverters, wiring, structure, connectors, junction boxes) in nearby by villages @ Rs.50,000 per unit (Kothagudem, Rampur, Penagadapa, Ambedkarnagar)	20,00,000	29,44,297.47	The installation of solar lighting in the nearby villages has been completed.	Complied
Community Resource Augmentation Plan:	Development of Parks in Ramavaram village, 3-Incline & Penagadapa village.	21,00,000	22,94,404	Park development in at 3 Incline area, Penagadapa and Ramavaram village completed.	Complied
	Construction of CC drains in Penagadapa village	20,00,000	21,65,395	Construction of CC drains in Penagadapa village completed.	Complied
	Repair of School in Rampur village	7,50,000	7,22,221	School repair in Rampur village completed.	Complied
	Providing materials related to Covid-19 prevention to the nearby villagers. (@ Rs.2, 00,000/village) for Ramavaram, 3- Incline, Rudrapur,	10,00,000	9,09,518.75	20 Nos of Pathogens (Viral disease air and surface transmission prevention	Complied

Head	Activities as per existing EC in RP		Status of activities undertaken by SCCL		Recommendation s of Regional Office as per the report
	Activities	Allocated Fund (Rs. In Lakhs)	Expenditure incurred (Rs. In Lakhs)	Status of compliance by SCCL/ Fund Utilized or to be utilized by SCCL)	
	<p>Chunchupalli Penagadapa.</p> <p>1. Placement of 4 Nos of air & surface transmission prevention equipment for active containment of the pathogens (Including Corona family of viruses)-Rs.25,000/unit</p> <p>2. Masks - Rs.50,000(Distribution of 2000 masks @ Rs.25/mask)</p> <p>3. Sanitisors-Rs.50,000 (Distribution of 1000 sanitizers @ Rs.50/sanitizer).</p>			<p>equipment for active containment of the pathogens (including Corona family of viruses) were received and installed. 35625 Masks against 10,000 were distributed in 5 villages, and 14250 Sanitisors against 5,000 were distributed in 5 villages.</p>	
TOTAL		78,50,000	90,35,836.22		

C. Summary RP&NCRAP

S. No.	Description	Allotted Estimated Cost (Rs. in Lakhs)	Actual Amount spent by SCCL (Rs. in Lakhs)
1	Remediation Plan	55,00,000	54,06,641.432
2	Natural Resource Augmentation Plan	25,00,000	29,44,297.47
3	Community Resources Augmentation Plan	53,50,000	60,91,538.75
TOTAL		13,350,000	144,42,477.64

IV. Amendment sought in the EC dated 07.06.2021

Conditions as per EC dated 07.06.2021	Description as per approved EC dated 07.06.2021	Details of amendment sought
Specific Condition no. 4 (i)	EAC recommended for an amount of Rs 1,33,50,000 lakhs towards Remediation plan and Natural and Community Resource Augmentation plan to be spent within a span of three years. The details of Remediation plan, Natural resource Augmentation plan and Community Resource Augmentation plan with budgetary provision. Details given on point (i) of para 19.2.5.	Activities envisaged under Remediation Plan (RP) and Natural and Community Resource Augmentation Plan (NCRAP) has been completed with a financial out lay of Rs. 144,42,477.64 and the same has been mentioned in Certified Compliance Report (CCR) dated 24.10.2024 of RO, MoEF&CC, Hyderabad.
Specific Condition no. 4 (ii)	Total budgetary provision with respect to Remediation plan and Natural & Community Resource Augmentation plan is Rs 1,33,50,000. Therefore, project proponent shall be required to submit a bank guarantee of an amount of Rs 1,33,50,000/-towards Remediation plan and Natural and	Total budgetary provision with respect to Remediation plan and Natural & Community Resource Augmentation plan is Rs. 144,42,477.64.

Conditions as per EC dated 07.06.2021	Description as per approved EC dated 07.06.2021	Details of amendment sought
	Community Resource Augmentation plan with the SPCB. The same has been submitted by Member Secretary, TSPCB vide its letter no. 8 TSPCB/EC/BG/2020-389 dated 10th May, 2021.	
Specific Condition no. 4 (iii)	Remediation plan shall be completed in 3 years whereas bank guarantee shall be for 5 years. The bank guarantee will be released after successful implementation of the remediation plan and Natural and Community Resource Augmentation Plan, and after the recommendation by regional office of the Ministry. Expert Appraisal Committee and approval of the Regulatory Authority.	Bank guarantee shall be released by TSPCB as the activities envisaged under Remediation Plan (RP) and Natural and Community Resource Augmentation Plan (NCRAP) has been completed with a financial out lay of Rs. 144,42,477.64 and the same has been mentioned in Certified Compliance Report (CCR) dated 24.10.2024 of RO, MoEF&CC, Hyderabad.

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

Observations and deliberation of the Committee:

19.3.7: The EAC noted the following:

- i. MoEF&CC has granted EC to M/s Singareni Collieries Company Limited (SCCL), vide letter no 23-73/2018-IA.III(V) Dated.07.06.2021 for Venkatesh Khani No.7 Incline (VK – 7 Incline) Underground Coal Mining Project (area 580.20 Ha having capacity 0.843 MTPA) located at Villages- Kistaram and Penagadapa; District-Bhadrachalam in the State of Telangana under violation category as per MoEF&CC notification S.O. 804 (E), dated 14.03.2017.
- ii. The project involves 346.66 Ha of forestland and PP accorded renewal of Stage – II forest clearance vide letter dated 17.02.2009.
- iii. The project is implemented and the mine operations are closed since FY 2021-22.
- iv. The instant proposal is now placed before the EAC for seeking amendment in conditions pertaining to release of bank guarantee deposited for implementation of Damage Remediation Plan (DRP) and Natural and Community Resource Augmentation Plan (NCRAP) and release of bank guarantee.
- v. It is observed that as per the specific condition no. 4 (iii), of Environment Clearance granted vide letter no 23-73/2018-IA.III(V) Dated.07.06.2021, stipulated that “Remediation plan shall be completed in 3 years whereas bank guarantee shall be for 5 years. The bank guarantee will be released after successful implementation of the remediation plan and Natural and Community Resource Augmentation Plan, and after the recommendation by regional office of the Ministry, Expert Appraisal Committee and approval of the Regulatory Authority.” Now the PP has submitted this proposal for release of bank guarantee deposited in this regard as the RP&NCRAP has been

implemented as per the condition stipulated. The fund allocated by the Ministry and the fund actually spent by the PP in each head is different. However, the total amount spent by the PP is more than that allocated by the Ministry.

The Committee observed that the actual amount spent by the proponent is Rs. 10,92,477.64 more than that allotted by the Ministry. The Committee is of the opinion that, regular maintenance of the developments done by the proponent as part of DRP and NCRAP shall be carried out. Further, the Committee is of the opinion that plantation activities carried out by the PP shall be strengthened.

Recommendations of the Committee:

19.3.8: In view of the foregoing and after the detailed deliberations, the Committee **recommended** the instant proposal for grant of amendment in the EC granted vide letter no 23-73/2018-IA.III(V) dated 07.06.2021 as detailed below:

Condition No. as per EC dated 07.06.2021.	Description as per approved EC	Recommendation of EAC
Specific condition 4(i)	EAC recommended for an amount of Rs 1,33,50,000 lakhs towards Remediation plan and Natural and Community Resource Augmentation plan to be spent within a span of three years. The details of Remediation plan, Natural resource Augmentation plan and Community Resource Augmentation plan with budgetary provision.	Activities envisaged under Remediation Plan (RP) and Natural and Community Resource Augmentation Plan (NCRAP) has been completed with a financial out lay of Rs. 144,42,477.64 and the same has been mentioned in Certified Compliance Report (CCR) dated 24.10.2024 of RO, MoEF&CC, Hyderabad.
Specific condition 4(ii)	Total budgetary provision with respect to Remediation plan and Natural & Community Resource Augmentation plan is Rs 1,33,50,000. Therefore, project proponent shall be required to submit a bank guarantee of an amount of Rs 1,33,50,000/-towards Remediation plan and Natural and Community Resource Augmentation plan with the SPCB. The same has been submitted by Member Secretary, TSPCB vide its letter no. 8 TSPCB/EC/BG/2020-389 dated 10th May, 2021.	Total budgetary provision with respect to Remediation plan and Natural & Community Resource Augmentation plan is Rs. 144,42,477.64. Therefore, project proponent shall be required to submit a bank guarantee of an amount of Rs 1,33,50,000/-towards Remediation plan and Natural and Community Resource Augmentation plan with the SPCB. The same has been submitted by Member Secretary, TSPCB vide its letter no. 8 TSPCB/EC/BG/2020-389 dated 10th May, 2021.
Specific condition no.4 (iii)	Remediation plan shall be completed in 2 years whereas bank guarantee shall be for 5 years. The bank guarantee will be released after successful implementation of the Remediation plan and Natural and Community Resource Augmentation Plan, and after the recommendation by regional office of the Ministry, EAC and approval of the Regulatory Authority.	Bank guarantee shall be released by TSPCB as the activities envisaged under Remediation Plan (RP) and Natural and Community Resource Augmentation Plan (NCRAP) has been completed with a financial out lay of Rs. 144,42,477.64 and the same has been mentioned in Certified Compliance Report (CCR) dated 24.10.2024 of RO, MoEF&CC, Hyderabad.

DAY-2: 11TH DECEMBER, 2024 [WEDNESDAY]

Agenda No. 19.4

19.4: Pakri Barwadih Coal Mining Project (area 3319.42 Ha having capacity 18 MTPA) 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 – Regarding Amendment in EC

**[Online Proposal No. IA/JH/CMIN/503899/2024; File No. J-11015/692/2007-IA-II(M)]
[Consultant: Min Mec Consultancy Private Limited NABET/EIA/2225/IA 0096 valid up to 29.03.2025]**

19.4.1: 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, later transferred to M/s NTPC Mining Limited vide letter no. J-11015/692/2007-IA-II(M) dated 02.05.2024 for Pakri Barwadih Coal Mining Project (area 3319.42 Ha having capacity 18 MTPA) located at Villages: Barkagaon, Itij, Chiruadih, Urub, Chepa, Kalan, Nagri, Jugra, Sinduari, Churchu, Carahara, Sonbarsa, Pakri – Barwadih; District: Hazaribagh; State: Jharkhand.

Details of all the prior ECs including the EC for which amendment is sought are summarized as below:

S. No.	Details of Letter No.	Details of EC/Expansion EC/ Amendment in EC/ Validity extension/ Transfer of EC	Capacity (MTPA)	Area (Ha)	Date of Issuance	Status of Implementation
1	J-11015/692/2007-IA.II(M)	Fresh EC	15 MTPA	3319.42	19.05.2009	Production of 15 MTPA achieved during the year 2023-2024
2	-do-	Amendment in EC [Road transportation granted till 28.06.2018]	15 MTPA	3319.42	29.06.2016	Implemented
3	-do-	Amendment in EC [Specific Condition nos (iii), (vi) & (ix) and General Condition nos (ix) & (xiii)]	15 MTPA	3319.42	07.12.2017	Being implemented
4	-do-	Amendment in EC [Road transportation granted till 28.06.2020]	15 MTPA	3319.42 Ha	14.08.2018	Implemented
5	-do-	Amendment in EC [Road transport granted till 28.06.2022 and auto extended to 28.06.2023 in line with Covid	15 MTPA	3319.42 Ha	10.11.2020	Implemented

S. No.	Details of Letter No.	Details of EC/Expansion EC/ Amendment in EC/ Validity extension/ Transfer of EC	Capacity (MTPA)	Area (Ha)	Date of Issuance	Status of Implementation
		notification of MOEF&CC]				
6	-do-	Amendment in EC [Road transport granted till 31.10.2023]	15 MTPA	3319.42 Ha	16.08.2023	Implemented
7	-do-	Amendment in EC [Road transport granted till 31.01.2024]	15 MTPA	3319.42 Ha	09.11.2023	Implemented
8	-do-	Amendment in EC [Road transport granted till 31.07.2024]	15 MTPA	3319.42 Ha	15.01.2024	Implemented
9	-do-	Peak Rated Capacity (PRC) Enhancement (1st phase 20%) as per MoEF&CC guidelines dated 11/04/2022	18 MTPA	3319.42 Ha	06.03.2024	Being implemented
10	-do-	Transfer of EC [Transfer from NTPC Ltd to NTPC Mining Ltd]			02.05.2024	Transfer from NTPC Ltd to NTPC Mining Ltd
11	-do-	Amendment in EC [Road transport granted till 31.10.2024]			16.07.2024	Implemented
12	-do-	Amendment in EC [Road transport granted till 31.12.2024 only for 15 MTPA]			30.10.2024	Being Implemented

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

19.4.2: The PP has made an online application vide proposal no. IA/JH/CMIN/503899/2024 Dated 27.11.2024 for amendment in Environmental Clearance granted vide Letter dated 19.05.2009 in EC Specific Condition no. 2A(ix), seeking further amendment for extension of timeline regarding transportation of 4.5 MTPA coal by road using State Highway/ Service Road till 31.03.2025 and thereafter 3 MTPA coal by road using State Highway/ Service Road till 31.03.2026 to Bandag railway siding.

PP submitted the following details for the amendment sought along with the justification:

Specific/General Condition No.	Details of Conditions as per EC	Amendment Sought	Justification
Specific Condition No.- 2A (ix) of EC dated 19.05.2009 and latest	<i>The PP is permitted to use Service Road/ State Highway for transportation of 15 MTPA of Coal to</i>	<i>Mineral Transportation from CHP to Railway Siding shall be done by closed belt conveyor and Rapid Loading System.</i>	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

Specific/General Condition No.	Details of Conditions as per EC	Amendment Sought	Justification
<p>amended vide letter dated 30.10.2024</p>	<p><i>Banadag railway siding till 31.12.2024 adopting all the mitigative measure to control dust pollution.</i></p>	<p><i>PP is permitted to use Service Road/ State Highways for transportation of 4.5 MTPA coal from 01.01.2025 till 31.03.2025 and thereafter 3.0 MTPA coal by road till 31.03.2026 to Banadag railway siding adopting all mitigative measure to control dust pollution.”</i></p>	<p>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.</p> <p>2. Presently, PBCMP dispatches coal from mine at Pakri Barwadih to railway siding at Banadag in following modes/ways:</p> <p>Part I: From mine pit to crusher installed at mine pit head by mine trucks for the entire quantity proposed throughout the mine life.</p> <p>Part II:</p> <p>(a) From Crusher at mine pit head to Stacker/Reclaimer area by 8 Km closed belt conveyor, within the mine boundary.</p> <p>(b) From crusher at mine pit head to Banadag railway siding by road (30 Km).</p> <p>(c) From Stacker/Reclaimer area to Banadag Railway Siding by road (23 Km).</p> <p>3. Hon’ble Supreme Court had directed vide its order dated 29.01.2024 in Civil Appeal No 6249/2021 to complete the CHP system including RLS by 31.12.2024. In this regard it is pertinent to mention that RLS system which consists of two streams, stream 1 has been commissioned on 15.11.2024 and the stream 2 will be ready by 15.12.2024 in compliance of the Hon’ble Supreme Court direction.</p> <p>4. The construction of siding being done by railways, consists of seven nos. of rail tracks out of which 3 are ready, also, the electrification and signalling work is under progress. It is likely that yard augmentation work by railways shall be completed by 31.01.2025. After yard augmentation and RLS completion, it shall require three months of time (till 31.03.2025) to synchronize the system with railways which is known as “Integrated commissioning”. In other words, it may take three months for both RLS streams to reach its rated capacity of</p>

Specific/General Condition No.	Details of Conditions as per EC	Amendment Sought	Justification
			<p>15 MT.</p> <p>5. Also, it is important to mention that the present design capacity of the CHP & RLS System, is of 15 MT per annum. To enhance the capability of the present system upto 18 MTPA certain modifications and additional conveyor Streams are required for which the action has already been taken and shall be completed by 31.03.2026.</p> <p>6. The total production/ dispatch target for FY 2024-25 from PBCMP is 18 MMT. For last quarter i.e. Q4 starting from 01.01.2025 till 31.03.2025 the total coal to be dispatch shall be 5.5 MMT to 6.0 MMT.</p> <p>7. Assuming that it may take 3 more months for both the streams of RLS to reach its rated capacity (15 MMT), the maximum quantity which may be transported through RLS shall be 13.5 MMT resulting in a shortfall of 4.5 MMT in Q4 which needs to be transported through road. (3.0 MMT due to design limitation and 1.5 MMT for stabilisation).</p> <p>8. For FY 2025-26 the shortfall of 3.0 MMT will be there due to design limitation of the present CHP the enhancement of 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 4.5 MTPA (3.0 MTPA beyond CHP design Capacity and 1.5 MTPA for stabilisation of RLS) from 01.01.2025 till 31.03.2025 and thereafter, 3.0 MTPA of coal by road till 31.03.2026.</p>

19.4.3: Certified Compliance Report and Action Taken thereof: The PP submitted that CCR from Regional office (RO), Ranchi was received on 19.06.2024 vide letter no. 103-425/376 and PP submitted ATR on the same on 26.08.2024.

With respect to the Condition for which amendment is sought, RO has given its observations and has mentioned that, *“during inspection on 30.05.2024 it was observed that coal transportation is still being done by road from Pakri Barwadih coal mine project to Banadag railway siding. It is observed that rapid loading system of the conveyor system is under*

construction near Banadag railway siding. PP informed that now full efforts are being made to complete the same before 31.12.2024.”

19.4.4: Detail of the court cases:

Case No.	Court	Brief	Next date of hearing	Decision of court and its compliance
WP (C) 5732/2016	HC of Jharkhand	Writ Petition filed by Bhartiya Suraj Dal against State of Jharkhand and others regarding pollution and diversion of forest land without obtaining the consent of Gram Sabhas under the FRA Act 2006.	Next hearing scheduled on 03.01.2025.	Last hearing conducted on 13.12.2024. Cases to be further heard on next date of hearing.
WP (C) 4036/2021	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 issued by State of Jharkhand.	Listed for hearing in first week of February 2024. No date showing for now. Next date is not given.	High Court of Jharkhand has ordered to pay Transit Fee on 40% Production till further order. Stay granted vide order dated 10/01/2022 and clubbed with other such cases.
WP (C) 1759/2023	HC of Jharkhand	Writ Petition filed by NTPC against the State of Jharkhand and others to stay 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 on the same load by stating that NTPC is liable to generate the challan for the second time when there is a change of mode of transportation.	Next hearing date is not given	Hon'ble court vide order dated 06.09.2024 directed not to charge NTPC 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 till next date of hearing to be held on 21/02/24.
WP (C) 3256/2023	HC of Jharkhand	Writ Petition filed by NTPC against the State of Jharkhand and others regarding quashing the letter No. 3426, dated 23.06.2023 of Divisional Forest Officer (West), Hazaribagh by which Forest Deptt. has denied Coal Transportation by Road.	Next hearing date is not given.	The Hon'ble High Court granted stay on DFO letter vide order dated 30.06.2023.
WP (C) 3614/2023	HC of Jharkhand	PIL filed by Shri Mantu Soni against State of Jharkhand and Others regarding FC granted to Pakri Barwadih Coal Mining Project on forged document (Consent letter of Van Prabandhan Samittee).	Next hearing date is not given.	<ul style="list-style-type: none"> ➤ CA filled by NTPC on 18.06.2024. ➤ Rejoinder filled by applicant on 27.06.2024. ➤ Supplementary Counter Affidavit filed by NTPC on

Case No.	Court	Brief	Next date of hearing	Decision of court and its compliance
				07.08.2024. ➤ Reply of affidavit filed by applicant on 20.08.2024. ➤ Last hearing conducted on 27.09.2024.
OA no 63/2023/EZ (158/2023/PB)	NGT, Kolkata	Filed by Shri Anup Kumar against State of Jharkhand and Others regarding illegal mining in Pakri Barwadih Coal Mining Project. Vide order dated 11.08.2023, NTPC and its MDO (TSMPL) has been made party by the Hon'ble court.	Next hearing is scheduled on 03.01.2025.	➤ Due to similar nature hearings are being held with Appeal No. 20/2023/EZ filed by NTPC Ltd. ➤ Last hearing held on 12.11.2024. Case to be further heard on 03.01.2025.
Appeal No 20/2023	NGT, Kolkata	Appeal filed by NTPC against State of Jharkhand & Others to stay on DFO's demand letter for payment of Penal NPV with interest in line with MOEF&CC amendment letter dated 25.05.2023 for amendment of condition no-8 of FC.	Next hearing is scheduled on 03.01.2025.	➤ 1st hearing done on 01.08.2023. Hon'ble NGT stayed on DFO's Demand letter. ➤ Last hearing held on 12.11.2024, stay continued till further order.
W.P.(PIL) 4358/2024	HC of Jharkhand	PIL filed by Shri Ravikant Singh Vs Union of India and others regarding Mining beyond lease and regarding FC granted to Pakri Barwadih Coal Mining Project on forged document (Consent letter of Van Prabandhan Samittee).	Next hearing date not given.	➤ First Hearing held on 28.08.2024. ➤ CA filled by NTPC on 02.09.2024. ➤ Last hearing held on 20.09.2024.

In addition to the above, the Hon'ble Supreme Court had directed vide its order dated 29.01.2024 in Civil Appeal No 6249/2021 to complete the CHP system including RLS by 31.12.2024. In compliance to the said order, PP informed that RLS system which consists of two streams, stream 1 has been commissioned on 15.11.2024 and the stream 2 will be ready by 15.12.2024 in compliance of the Hon'ble Supreme Court direction.

Observations and deliberation of the Committee:

19.4.5: The EAC noted the following:

- i. 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, 15.01.2024, 16.07.2024 and 30.10.2024.

- ii. Further the Peak Rated Capacity (PRC) enhancement for the project was issued vide letter dated 06.03.2024 for the capacity of 18 MTPA from 15 MTPA in the existing area of 3319.42 Ha and the same was transferred to M/s NTPC Mining Limited vide letter dated 02.05.2024. Subsequently, an amendment in condition pertaining to transportation of coal was again issued vide letter dated 30.10.2024.
- iii. It is observed by the EAC that the project involves total 643.9 Ha of forestland. Stage – II FC has been obtained by the proponent vide letter dated 17.09.2010.
- iv. The above projects have been implemented and are already under operation.
- v. Specific Condition no. – 2A (ix) of EC stipulated that the coal was to be transported from Coal Handling Plant (CHP) to railway siding by closed conveyor belt. The railway siding shall be provided with Silo Rapid Loading System. The timeline for this condition was extended till 31.12.2024, vide various amendments as stated above, subject to the order of Hon'ble Supreme Court w.r.t. Misc. Appeal (MA-001824 dated 18.08.2023) in the matter of Civil Appeal no 6249/2022 (NTPC vs Tripuri Singh Ors) filed by the Project Proponent. Now, the PP has again submitted the proposal for amendment in Specific Condition no. 2A(ix) of EC dated 19.05.2009 (last amended vide EC dated 30.10.2024)
- vi. The PP submitted 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 to be 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.
- vii. Committee was informed that the total production target for FY 2024-25 from PBCMP is 18 MTPA. For last quarter i.e. Q4 starting from 01.01.2025 till 31.03.2025 the total coal to be dispatched shall be between 5.5 MTPA to 6 MTPA. Assuming that it may take 3 more months for both the streams of RLS to reach its rated capacity (15 MTPA), the maximum quantity which may be transported through RLS shall be 13.5 MTPA resulting in a shortfall of 4.5 MTPA in Q4 which needs to be transported through road. (3 MTPA due to design limitation and 1.5 MTPA for stabilisation).
- viii. PP presented a drone vide to the Committee, of undergoing construction of CHP and Silo. Since, that area has a frequent movement of elephants, the height of conveyor is planned such that, it will give safe passage to elephants.
- ix. Committee deliberated on the present scenario of coal transportation and was informed by the proponent, that presently the transportation of coal from mine pit to crusher installed at mine pit head is being done by the mine trucks for the entire quantity of coal being produced and the same is proposed to be done throughout the mine life. Further, some quantity of coal, from crusher installed at mine pit head to stacker/reclaimer, is being transported through closed belt conveyor of 8 km which is within the mine boundary and this will be further transported to Banadag Railway siding through road at a distance of 23 km. And rest of the quantity of coal is directly

- being transported from crusher to Banadag Railway Siding by road at a distance of 30 km.
- x. The Committee deliberated on the actions taken by the PP on the recommendations of the EAC Sub-Committee made during the site visit 20-26th November, 2024. On the recommendation of the sub-committee, the PP has done the mapping of grassing and plantation on 30.11.2024, generated carbon footprint data for PBCMP, display boards highlighting the biodiversity initiatives are being installed, green agronets are being installed in the area of nearby villages, bidding for procurement of CAAQMS has been started and equipment for water testing lab has been procured and the same is under installation.
 - xi. The Committee opined that out of the 2 nos of CAAQMS being procured, 1 shall be installed in the core zone and another shall be installed in the habitation around the ML area, such as Sirka Village and the data of the same shall be displayed in HoP and EMG office, so that effective monitoring and corrective actions may be taken time to time.
 - xii. The Committee opined that the Mobile Environment Monitoring Van may be procured and used in the mines.
 - xiii. The Committee deliberated on the use of e-dumpers being explored and observed that the PP has converted all the diesel operated HEMMs into electrical HEMMs and feasibility of using e-dumper is being tested for now in PBCMP.
 - xiv. The Committee also deliberated on the plantation activities being done by the PP. Committee is of the opinion that avenue plantation shall be instantly started and gap plantation on the OB dumps shall be done.
 - xv. The Committee also enquired about the status of court cases pending on the project. The PP submitted that there are total 6 nos. of cases pending at Hon'ble High Court of Jharkhand and total 2 nos. of cases pending at Hon'ble NGT (EZ), Kolkata. PP also displayed a copy of the Court Order during the presentation of the Court case in the matter of Misc. Appeal No. 1824 of 2023 in Civil Appeal No. 6249 of 2021 (NTPC Ltd v. Tripurari Singh and Others) regarding the extension of the timeline for completion of the closed conveyor belt system. PP submitted that the Hon'ble Supreme Court has extended the timeline for completion of the belt conveyor system till 31.12.2024, vide its order dated 29.01.2024 and the matter was disposed of.
 - xvi. The committee noted that Pakri Barwadih Coal Mining Project does not fall under critically polluted area and severely polluted area as per CEPI Assessment 2018.
 - xvii. The Committee took into cognizance that the existing EC of 18 MTPA was accorded for 20% expansion under para 7(ii) of EIA Notification, 2006 as per Ministry's OM dated 11.04.2022. The committee sought clarification regarding requirement of enhanced capacity of CHP and Silo, in case the PP seeks further expansion for the said project in future. The PP submitted that due to huge habitation in that area, it is not feasible for the proponent to go beyond 18 MTPA and PP informed that no further expansion is envisaged.
 - xviii. Vide Ministry's order dated 18/12/2024, a site visit was conducted by Sub-committee of EAC for Pakri Barwadih Coal Mining Project and submitted their

observations/recommendations. Accordingly, M/s NML shall address and comply the following recommendations submitted by the Sub-committee

- a) There are sufficient spaces available at different sites in the mine lease area which needs immediate plantation. The mapping of the Pakri Barwadih mine for grassing and plantation shall be carried out on the stabilized OB and berms. The proponent is instructed to prepare time bound comprehensive plantation plan with native species for protection of the ecology of the surrounding area and post-mining ecological restoration plan. The proponent should submit the detailed plan in tabular format (year-wise for life of mine) for afforestation and green belt development in and around the mining lease area. The proponent should submit the number of saplings to be planted, area to be covered under afforestation and green belt, location of plantation, target for survival rate and budget earmarked for the afforestation & green belt development. In addition to this, the proponent 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 planned in such a way that it should be completed within 2 years only. Grassing/plantation as per the above mapping shall be started in February, 2025.
- b) The biodiversity initiatives carried in and around the mine lease area shall be highlighted through display boards in the suitable places outside the mine lease area.
- c) The proponent shall generate the carbon footprint data for the entire mine lease area.
- d) The proponent shall prepare time bound comprehensive action plan for the diversion of nalla(s) from the mine lease area.
- e) The proponent shall take adequate precautionary measures as per the MoEFCC OM dated 29.10.2014 to minimize the impact of mining activity on habitations.
- f) Comprehensive risk management plan along with mitigation measures for fire events in the coal yards/dumps shall be prepared and complied with.
- g) The environment laboratory shall be upgraded with all sophisticated instruments.
- h) ETP in the mine area shall be upgraded with online effluent quality monitoring system.

- i) No any meteorological data / environmental data recording instruments have been seen at and around mining site. Only one CAAQMS has been installed in the city site. More number of CAAQMS at different sites needs to be installed.

Continuous Ambient Air Quality Monitoring Station (CAAQMS) to monitor ambient air quality within the mining lease area shall be installed and connected with the servers of CPCB/SPCB. The proponent shall calibrate the instrument timely and display the monitored data on the digital board at Hop and in the EMG office for effective monitoring and corrective action.

Recommendations of the Committee:

19.4.6: After deliberations, the Committee **recommended** the proposal for amendment in EC granted vide file no. J-11015/692/2007-IA.II(M) dated 19.05.2009 & its subsequent amendment dated 30/10/2024 as detailed below subject to stipulation of following additional specific conditions. Other terms and conditions prescribed in EC dated 19.05.2009 and its subsequent amendment shall remain unchanged:

Reference in EC letter dated 19.05.2009 & its subsequent amendment dated 30/10/2024	Description as per approved EC & its subsequent amendment dated 30/10/2024	Amendment sought in EC	Recommendation of EAC
Specific Condition No.- 2A (ix)	<i>The PP is permitted to use Service Road/ State Highway for transportation of 15 MTPA of Coal to Banadag railway siding till 31.12.2024 adopting all the mitigative measure to control dust pollution.</i>	Mineral 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 4.5 MMT coal from 01.01.2025 till 31.03.2025 and thereafter 3.0 MMT coal by road till 31.03.2026 to Banadag railway siding adopting all mitigative measure to control dust pollution.”	Agreed With regard to the changes in specific condition 2A(ix), Committee recommended to amend specific condition 2A(ix) as follows: “ <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> ”

Additional Specific Conditions:

- i. 1 nos of CAAQMS must be installed in the core zone and 1 nos of CAAQMS must be installed in the Sirka Village in consultation with JSPCB within 6 months from the date of grant of EC amendment.
- ii. A full-fledged Environment Laboratory must be established by 30.06.2025, which should cater the needs of all three mines of NTPC Mining Limited, i.e., Pakri Barwadih Coal Mining Project, Kerandari Coal Mining Project and Chatti Bariatu Coal Mining Project.
- iii. Avenue plantation shall be instantly started all along the right of way of closed belt conveyor and silos.
- iv. All the recommendations made by the site visit report of the sub-committee held on 20-26th November, 2024 shall be complied with and the compliance status in this regard shall be submitted to concerned Regional Office of MoEF&CC.
- v. Watershed management plan for Khorra Nallah and Pakwa Nallah exist within the ML area shall be developed and implemented
- vi. Carbon emissions need to be assessed and brief plan for carbon emission mitigation shall be submitted by the PP.

Agenda No. 19.5

19.5: Coal Washery (area 6.27 Ha having capacity 5 MTPA) by M/s MDCWL Limited, located at Villages: Churi and Bistrampur; District: Ranchi; State: Jharkhand – Regarding grant of Amendment in EC for time period for storage of stock and disbursement of rejects to FBC based TPP along with other consumers – Reconsideration based on ADS reply – reg.

[Online Proposal No. IA/JH/CMIN/468012/2024; Consultant: Min Mec Consultancy Private Limited NABET/EIA/2225/IA 0096 valid up to 29.03.2025]

19.5.1: The instant proposal is for seeking amendment in Environment Clearance granted to M/s Monnet Daniel Coal Washeries Pvt Ltd vide Letter/ File No. J-11015/260/2008-IA.II(M) dated 10.12.2008 for expansion in capacity from 0.9 MTPA to 5 MTPA in an area of 6.27 Ha situated within the ML area of Khadia OCP located at Villages: Churi and Bistrampur; District: Ranchi; State: Jharkhand, under the provisions of the EIA Notification, 2006. The proposed project activity is listed at schedule no. 2(a) Under Category “A” of the schedule of the EIA Notification, 2006 and appraised at Central Level.

Details of all the prior ECs including the EC for which amendment is sought are summarized as below:

Sl. No.	Details of Letter No.	EC/Expansion EC/Amendment in EC/Validity extension/ Transfer of EC	Capacity	Area	Remarks if any

1	Letter/ File No. J-11015/260/2008-IA.II(M) dated 10.12.2008	Environmental Clearance	Expansion from 0.9 to 5 MTPA	6.27 Ha.	Being Implemented
2	Letter dated 26.12.2013	Amendment in EC	5 MTPA	6.27 Ha	Amendment: Any surplus rejects to go to FBC based Thermal power plants by rail with whom they have long term MoU and typographical correction in EC

CTO renewal has been obtained from the SPCB vide letter no. JSPCB/HO/ RNC/CTO-16988577/2023/2150 dated 30.12.2023 for 5 MTPA raw coal input and is valid up to 31.12.2025.

PP submitted that the name of M/s Monnet Daniel Coal Washeries Pvt Ltd has been changed to M/s MDCWL Limited and the application in this regard for transfer of EC for name change is being submitted to the Ministry.

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

19.5.2: M/s MCDWL Ltd. has made an online application vide proposal no. IA/JH/CMIN/468012/2024 dated 13.05.2024 along with copy of amendment to EIA/EMP report, Form seeking amendment in Environment Clearance (EC) under the provisions of the EIA Notification, 2006 for the project mentioned above. The amendment sought is in Specific condition (ii) of EC dated 10.12.2008, pertaining to increasing the time for storage of stock in stockyard for 30 days instead of 1 day and Condition No. (i) of EC amendment dated 26.12.2013 pertaining to sending rejects to other consumers by rail/ road along with the FBC based thermal power plants. The said proposal was earlier considered in 12th EAC Meeting held on 05.06.2024 and the same was deferred for want of additional information.

PP submitted the following details for the amendment sought along with the justification:

Specific/ General Condition No.	Details of Condition	Amendment Sought	Justification
Specific condition: Point (ii) of EC dt. 10.12.2008	Raw & washed coal & rejects shall be stacked properly at earmarked site within stockyards fitted with wind breakers/shields. Adequate measures shall be taken to ensure that stored minerals do not catch fire. Only 1 day stock shall be stored in stockyard.	Raw & washed coal & rejects shall be stacked properly at earmarked site within stockyards fitted with wind breakers/shields. Adequate measures shall be taken to ensure that stored minerals do not catch fire. 30 days stock shall be stored in stockyard.	Stock consumption by consumers is seasonal & requires more storage in off season. Washery products are sent by rail only & priority is given to washed coal & raw coal rakes by IR. Thus, there is shortage of rakes for regular evacuation washery rejects.

Specific/ General Condition No.	Details of Condition	Amendment Sought	Justification
As per amendment no. (i) In EC amendment dt. 26.12.2013	After fulfilling requirements of Monnet Ispat & Energy Ltd.'s (MIEL)170 MW (240 TPH AFBC, 336 TPH CFBC Boilers) Power Plant situated at Raigarh in Chhattisgarh, any surplus rejects shall go to FBC based thermal power plants by rail with whom they have MOU.	Rejects shall go to FBC based thermal power plants, other consumers and traders by rail/ road.	MIELs 170 MW plant has been purchased by JSW, who has made different fuel arrangement. There is seasonal demand for rejects from various other consumers across Jharkhand & neighboring states. We are unable to send the reject due to restriction in EC.

19.5.3: Details of Court Cases: PP reported that a show cause notice under Section 5 of environment Protection Act was issued vide F. No. IA-L-11011/44/2023-IA-I dated 16.08.2023 regarding non compliances of environmental conditions. Based on PP's response to SCN, RO submitted an SCN review report vide letter dated 27.05.2024. The SCN review report submitted by RO Ranchi has been examined within the Ministry and has been observed that there are remaining two partially complied conditions. The PP submitted the reply to the same on 13.11.2024 and is awaiting for Action Closure Letter from MoEF&CC.

Further there is there is no legal issue/ violation related to Air (P&CP) Act, Water (P&CP) Act, Van (Sarakshan Evam Samvardhan Adhiniyam) 1980, Wildlife Protection Act, CRZ Notification, MMDR Act, Factories Act and there is no court case on the project.

19.5.4: ADS Reply in chronological order: PP vide letter dated 12.11.2024 submitted the following reply to ADS raised during 12th EAC Meeting held on 5th-6th June 2024.

S. No.	ADS Point Raised	Reply of Proponent
1.	PP shall first submit the comparative of time taken in obtaining the permission by concerned authority.	Time taken in various permissions required for dispatch of Coal Washery Rejects (CWR): i) CCO Permission – about 30-35 days. ii) DMO – a) for permission for transfer of CWR from washery to railway siding – about 5-7 days. b) for permission of dispatch of CWR from siding to end user – about 5-7 days. iii) EDRM Sanction, Indent placement, allotment & rake supply – 3-4 days
2.	It is not clear that how the other consumer will use the rejects in more environment friendly manner than FBC based thermal power plant.	Coal Washery reject will be disposed to CPPs/TPPs for generation of power only and all dispatches are made through rail mode only. The CPPs and TPPs are already using coal and rejects from other vendors and we are only intending to become an alternate vendor to such units. Hence, there will be no change in the manner of utilisation of the rejects and disposal of ash by such power plants.

S. No.	ADS Point Raised	Reply of Proponent
		Any other consumer (such as manufacturing units) will also be using the reject as fuel from us in lieu of another vendor. Hence, there will be no change in the manner in which they use the reject in their processes and dispose the solids waste.
3.	A show cause notice has already been issued to the project for non-compliance of EC conditions and PP shall get it closed first and submit the above information for further deliberating on the proposal	Final action taken report has been submitted to MoEFCC on 23.07.2024. Subsequently, MOEF&CC issued letter dated 12.11.2024 communicating that SCN review report submitted by RO Ranchi was examined by MoEF&CC and data was sought against two partially complied points. MDCWL Limited submitted the required information vide letter dated MDCWL/KDH/MOEF-24-25/325 dated 13.11.2024 and is awaiting for Action Closure Letter from MoEF&CC.

Deliberations and Observation of the Committee:

19.5.5: The Committee noted the following:

- i. The instant proposal is for grant of amendment in EC granted to M/s Monnet Daniel Coal Washeries Pvt Ltd vide Letter no. J-11015/260/2008-IA.II(M) dated 10.12.2008 for expansion in capacity from 0.9 MTPA to 5 MTPA in an area of 6.27 Ha situated within the ML area of Khadia OCP located at Villages: Churi and Bistrampur; District: Ranchi; State: Jharkhand
- ii. The Committee observed that the name of M/s Monnet Daniel Coal Washeries Pvt Ltd has been changed to M/s MDCWL Limited and the requisite transfer of EC is yet to be obtained by the proponent. Committee is of the opinion that, first the transfer of EC shall be accorded and then proposal for amendment shall be deliberated.
- iii. Committee also observed that in the previous meeting it was asked to proponent that, show cause notice been already issued shall be closed first, for which PP has submitted that the required information has been submitted by the proponent and Action Closure Letter from MoEF&CC is awaited for confirming the status of completion of compliance. Committee is of the view that Action Closure Report from MoEF&CC shall be obtained and the same should be submitted to the Committee.

Recommendations of the Committee:

19.5.6: In view of the foregoing and after detailed deliberations, the committee *deferred* the proposal, and sought the following additional information for further consideration of the proposal.

- i. Transfer of coal washery in name of M/s MDCWL Limited shall be obtained.
- ii. Letter from MoEF&CC regarding closure of show cause notice shall be obtained.

Agenda No. 19.6

19.6: Revalidation of Umaria Underground Mine (area 512.54 Ha having capacity 0.35 MTPA) by M/s South Eastern Coalfields Ltd, located at Villages: Bhagra, Bilarikop, Chhatan camp, Khalesar, Lalpur, Umaria Khas, Umaria Tanaja; District: Umaria; State: Madhya Pradesh – Regarding Revalidation of EC based on ADS Reply.

[Online Proposal No. IA/MP/CMIN/77829/2005; Consultant: CMPDI - NABET/EIA/22-25/SA 0223 valid up to 08.04.2025]

19.6.1: Instant proposal is for revalidation of Environment Clearance issued to M/s South Eastern Coalfields Ltd, for Umaria Underground Mine (area 512.54 Ha having capacity 0.35 MTPA) located at Villages: Bhagra, Bilarikop, Chhatan camp, Khalesar, Lalpur, Umaria Khas, Umaria Tanaja; District: Umaria; State: Madhya Pradesh, under the provisions of the Notification S.O. 1530(E) dated 06.04.2018 under the EIA Notification, 2006 for the project. 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 the Central Level.

M/s. South Eastern Coalfields Ltd has made an online application vide proposal no. IA/MP/CMIN/77829/2005 dated 05.09.2018 for seeking revalidation of Environment Clearance (EC) issued to Umaria Underground Mine vide letter no J 11015/90/2005-IA-II(M) dated 20.05.2005 under EIA Notification, 1994 for the production capacity of 0.35 MTPA in the leasehold area of 857.675 Ha. The instant proposal is now for obtaining re-validation of EC under EIA Notification, 2006, in compliance of the Gazette Notification S.O. No. 1530(E) dated 06/04/2018, for existing project.

The proposal was earlier placed in 44th EAC Meeting held on 25.04.2019 and thereafter in 11th EAC Meeting held on 08.05.2024 and the same was deferred for want of additional information by the PP.

Now the proposal has been placed in 19th EAC Meeting held on 10th-11th December 2024 for appraisal based on ADS reply submitted by the proponent on 26.11.2024.

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

19.6.2: Environmental Site Settings:

The project area is covered under Survey of India Toposheet No. 64A/14 and is bounded by the geographical coordinates ranging from 23^o30’N to 23^o33’N and longitudes 80^o47’E to 80^o53’E.

Project does not fall in the Critically Polluted Area (CPA)/ Severely Polluted Area (SPA), as per CEPI Assessment, 2018. This aspect has also been verified and confirmed through DSS.

Forest Area: The project does not involve any forestland and there is no violation of Van (Sanrakshan Evam Samvardhan) Adhiniyam, 1980.

Protected Area: The project is not located within 10 KM of any ESZ/ ESA/ national park/ wildlife sanctuary/ biosphere reserve/ tiger reserve/ elephant reserve/tiger corridor/elephant corridor etc. PP further submitted that the project does not include any wildlife issues and Schedule-I species.

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

Sl. No.	Govt. Order/Notifications as the case may be	Area (ha)
1.	Mining Lease acquired under the Mines and Minerals (Development and Regulation) Act, 1957	857.675
2.	Details of LOI (for area outside lease area)	NA
Grand Total		857.675

PP submitted that the mining Lease is valid up to 26.11.2035.

PP vide undertaking dated 07.12.2024 submitted that mining will be restricted to 512.40 Ha only. The justification/ reasons for restricting the mining activities within 512.540 Ha is as follows:

S. no.	Particulars	Area	Remarks
1	Mining lease executed on 18.03.1980 for Umaria UG	867.14 Ha	Under MMDR Act 1957
2	EIA/ EMP was prepared in March 2003 for total land area	866.476 Ha	Area for mining purpose restricted to 567.701 Ha.
3	EC accorded for land area on 20.05.2005	857.675 Ha	Area of 8.801 Ha was excluded from 866.476 Ha for township outside mine lease.
4	Current proposed EC boundary	512.540 Ha	Out of 567.701 Ha area left out due to fault-4 & fault-6.

19.6.3: Previous Approvals:

S. No.	Details of Letter No.	EC/Expansion EC/Amendment in EC/Validity extension/Transfer of EC	Capacity	Area
1	J-11015/90/2005-IA-II(M) dated 20.05.2005	Fresh EC under EIA Not. 1994	0.35 MTPA	857.675 Ha (revalidation EC is for 512.54 Ha only due to occurrence of Fault-4 and Fault-6)

PP submitted the actual production details of the concerned mine and submitted that the mine became operational from 1974 onwards. CTO renewal has been obtained from MPPCB and is valid upto 30.04.2025.

Year	Actual Coal production in MTPA	Planned Coal production in MTPA as per Environmental Clearance	Excess production
1974-75	0.002970	Consented capacity-0.144	Nil
1975-76	0.067726	0.144	Nil
1976-77	0.092772	0.144	Nil

Year	Actual Coal production in MTPA	Planned Coal production in MTPA as per Environmental Clearance	Excess production
1977-78	0.091633	0.144	Nil
1978-79	0.089923	0.144	Nil
1979-80	0.095327	0.144	Nil
1980-81	0.101672	0.144	Nil
1981-82	0.092700	0.144	Nil
1982-83	0.082378	0.144	Nil
1983-84	0.081396	0.144	Nil
1984-85	0.091524	0.144	Nil
1985-86	0.107925	0.144	Nil
1986-87	0.128560	0.144	Nil
1987-88	0.137153	0.144	Nil
1988-89	0.150000	0.144	0.00600
1989-90	0.153220	0.144	0.00922
1990-91	0.150361	0.144	0.00636
1991-92	0.154300	0.144	0.01030
1992-93	0.155300	0.144	0.01130
1993-94	0.145000	0.144	0.00100
1994-95	0.142900	0.144	Nil
1995-96	0.208234	0.144	0.06423
1996-97	0.201400	0.144	0.05740
1997-98	0.177200	0.144	0.03320
1998-99	0.150060	0.144	0.00606
1999-2000	0.127470	0.144	Nil
2000-01	0.128600	0.144	Nil
2001-02	0.146750	0.144	0.00275
2002-03	0.155500	0.144	0.01150
2003-04	0.157200	0.144	0.01320
2004-05	0.157500	0.144	0.01350
2005-06	0.178100	EC granted for- 0.35 MTY	Nil
2006-07	0.147100	0.35	Nil
2007-08	0.171000	0.35	Nil
2008-09	0.128045	0.35	Nil
2009-10	0.136400	0.35	Nil
2010-11	0.118625	0.35	Nil
2011-12	0.148280	0.35	Nil
2012-13	0.158300	0.35	Nil
2013-14	0.180800	0.35	Nil
2014-15	0.210200	0.35	Nil
2015-16	0.263000	0.35	Nil
2016-17	0.175800	0.35	Nil
2017-18	0.189700	0.35	Nil
2018-19	0.117750	0.35	Nil
2019-20	0.152001	0.35	Nil
2020-21	0.097500	0.35	Nil
2021-22	0.107005	0.35	Nil

Year	Actual Coal production in MTPA	Planned Coal production in MTPA as per Environmental Clearance	Excess production
2022-23	0.127300	0.35	Nil
2023-24	0.117360	0.35	Nil

Prior to grant of EC in 2005, the mine was being operated on CTO. Later, application for grant of EC was submitted to MoEF for seeking ex-post facto EC in terms of MoEF's circular dated 14.05.2002 and the proponent submitted the proposal for grant of EC under item 3 of para (d) of circular dated 12.02.2002, i.e. there is increase in production without change in lease area.

19.6.4: Method of Mining and Mining Plan:

- i. PP Submitted that the mining plan/Project Report for the project was approved for (capacity-0.30 MTPA, Area-857.675 Ha) vide letter dated 03.09.1996 (0.30 MTPA)/28.03.2005 (0.35 MTPA) & progressive mine closure plan approved vide letter dated 27.01.2014.
- ii. Method of Mining to be adopted shall be underground with a Board and Pillar system. The Capacity of the mine applied for Normative capacity/ peak capacity as per the approved mining plan is 0.35 MTPA.
- iii. Total geological reserve reported in the mine lease area is 12.89MT with 9.73MT mineable reserves as of 01.04.2024. Out of the total mineable reserve of 7.29MT are available for extraction. The percentage of extraction is 75%.
- iv. Seams I, II & IV with thickness ranging from 0.61-2.71, 0.90-3.51 & 0.40-2.08 respectively are workable. Grades of coal are E, C/ D & B/ C respectively, while the gradient is – Seam I: 1 in 16, Seam II: 1 in 24, Seam IV: 1 in 12
- v. Life of mine is 28 years as on 01.04.2024.
- vi. Details of land use

Pre-mining (area in ha)

S. No.	Land Use	Within ML Area (ha)	Outside ML Area (ha)	Total
1.	Agricultural Land	440.535	-	440.535
2.	Forest land	-	-	-
3.	Waste land	-	-	-
4.	Grazing land	-	-	-
5.	Surface Water Bodies	5.0	-	5.0
6.	Settlements	-	-	-
7.	Other (Specify)	67.005	-	67.005
Total		512.540	0.00	512.540

Post-mining (area in Ha)

S. No.	Type	Total Area	Reclaimed Area	Un- reclaimed area
1.	Excavation/Quarry Area: (a) Backfilled areas (b) Excavated Void	-	-	-
2.	External Dump	-	-	-
3.	Safety Zone	-	-	-
4.	Road and infrastructure	13.899	-	13.899
5.	Garland Drains	-	-	-
6.	Embankment	-	-	-
7.	Others - Undisturbed area	498.641	-	498.641
Total		512.540	-	512.540

- vii. **Details of transportation of coal:** The coal is proposed to be transported within and outside the mining lease in the following manner:
- In pit: Through conveyor belt to surface bunker
 - Surface to siding: By Trucks/tippers.
 - Siding to consumer: By railway through wagons and to local consumers by Trucks
- viii. **Detailed Status of Progressive Mining Closure Plan:** The progressive mine closure plan approved on 27.01.2014. There is no deviation from the approved PMCP.
- ix. **Reclamation:** Total Plantation of 16118 in 13 Ha. has been done at a density of 1240 Sapling/Ha

19.6.5: Water Requirement: PP submitted that the water requirement is 817 KLD (Domestic 586 KLD; Industrial 231 KLD) and NoC from CGWA has already been obtained for 3454 m³/day vide no. CGWA/NOC/MIN/ORIG/2022/16510 dated 28.09.2022. Further, the PP submitted that the application for renewal of CGWA NoC has been made vide application No. 21-4/1349/MP/MIN/2022 for 6869.00 m³/day dated 25.09.2024.

19.6.6: Power Requirement and details of diversion of Hi-Tension/Transmission Line: PP submitted that the power requirement for Umaria UG is 600 KW.

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

S. No.	Type of Waste	Source	Quantity (TPA)	Mode of Treatment	Disposal
1.	Used oil. (Cat. 5.1)	UG mining and ancillary machinery	0.180M.t	Collected and stored in steel barrels and kept in covered shed with pucca platform.	Through e-auction
2.	Wastes containing residues of	UG mining and ancillary	0.108M.t	Collected and stored in steel barrels and kept in covered shed	Agreement made for disposal though

S. No.	Type of Waste	Source	Quantity (TPA)	Mode of Treatment	Disposal
	oil (Cat. 5.2)	machinery		with pucca platform.	MPPCB approved common disposal facility.

19.6.8: Public Consultation: PP submitted that Public Consultation (including public hearing) was conducted on 16.10.2003 at the Conference Hall Collectorate, Distt. Umaria (MP). The presiding officer of the same was Collector, Umaria. PP submitted that an advertisement for the same was published in Dainik Bhaskar on 15.09.2003 and Dainik Bharti on 14.09.2003. PP further submitted that a Public Notice for revalidation was also given in Raj Express and Times of India on 30.12.2023. PP submitted that no representation was received in writing from the district and outside of the district. The same was confirmed by RO MPPCB Shahdol vide letter dated 23.02.2024.

The Action taken report of the issues raised during the public hearing held on 16.10.2003 in respect of Umaria Underground Mine of SECL, Johilla Area

Sl. No.	Issues raised by the public/suggestions made by the Panel	Response/ Commitment by Project Proponent	Current Status/ Action taken report
1.	Arrangement for complete purification of mine water for use by local people of villages Jamunia, Chapaha as potable water in the manner done by SECL in Piparia mines area	The proposals are being considered	Mine water is treated in settling tank before being discharged outside the mine premises for use of public/ farmers for agriculture and allied purposes. Drinking water for 9 no. colony, Chapaha colony etc. is supplied after purification in the filter plant having capacity of 3000 ltrs. Drinking water arrangement has been done for Jamunia and Chapaha village after treatment at filter plant of Umaria Nagar Palika.
2.	Electricity arrangement in the area should be done by the project. Specifically coal transportation road from Chapaha colliery to Sonu Dhaba should be illuminated for prevention against accident.	The proposals are being considered	Electricity arrangement has been made as per requirement for entire colliery roadway and proper illumination exists along the coal transportation roads including road from Umaria (Chapaha) colliery to Sonu Dhaba has been done.
3.	Special attention should be given to plantation and illegal cutting of trees should be checked.	The proposals are being considered	Plantation of 16118 has been done in the mine premises. The security personnel are deputed in the mine premises to prevent the illegal cutting of trees. No illegal cuttings of trees have been reported.

Sl. No.	Issues raised by the public/suggestions made by the Panel	Response/ Commitment by Project Proponent	Current Status/ Action taken report
			Additional plantation of more than 2 Lakhs saplings has also been proposed to be done in upcoming years. Provision of 620.647 Lakhs has been made for this plantation target.

19.6.9: Capital Cost of the proposed project: PP Submitted that the Existing capital cost of the project was Rs. 1394.68 Lakhs as per PR approved on 03.09.1996. The employment generation from the proposed project/expansion is 469 Nos.

19.6.10: EMP Cost: Budget for EMP submitted by the proponent is Rs. 134.66 Lakhs as capital expenditure and Rs. 932.237 Lakhs as proposed recurring expenditure. The details of cost for environmental measures are as follows:

S. No.	Description of Item	Existing (In Lakh)		Proposed (In Lakh)	
		Capital Cost	Recurring Cost (Annual Basis)	Capital Cost	Recurring Cost
(i)	Air Pollution Control/ Noise Management	124.66	5.0	-	5.0
(ii)	Water pollution control	10.00	8.0	-	8.0
(iii)	Environmental monitoring and Management	-	298.59	-	298.59
(iv)	Green belt and Plantation development	-	186.19 (FY 2024-25)	-	620.647
(v)	Other heads as proposed in EIA/committed during the EAC	As per EAC held on 11.12.2024, 2 Lakh nos of plants to be planted done in core and buffer zone of mine premises for which 620.647 Lakh of fund will be utilized to complete the target.			

19.6.11: Plantation: Existing green belt/Plantation in the mine premises has been done in approx. 13.0 Ha area which is about 2.53% of the total project area of 512.54 Ha with total sapling of 16118 nos of trees. In addition, 2 lakh more saplings has been proposed to be planted in core/buffer zone of mine.

19.6.12: Certified Compliance Report: The Status of compliance of earlier EC was obtained from Regional Office, Bhopal vide letter no./file no.3-6/2005(Env), dated 14.02.2024 in the name of Umaria Underground Mine. The Action taken report regarding the partially/non-complied condition has been submitted to RO vide letter dated 02.12.2024. The details of the observations made by RO in the CCR report with ATR/compliance status as furnished by the PP is given as below.

S. No.	EC Conditions	Observations of IRO, MoEF&CC, Bhopal	Compliance status as on date submitted by PP
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S. No.	EC Conditions	Observations of IRO, MoEF&CC, Bhopal	Compliance status as on date submitted by PP
Specific Conditions of EC dated 20.05.2005			
i.	<p>Catch drains and siltation ponds of appropriate size should be constructed to arrest silt and sediments flows from around the mine. The water so collected should be utilized for watering them in area, roads, greenbelt development etc. The drains should be regularly desilted and maintained properly.</p> <p>Garland drains (size, gradient & length) and sump capacity should be designed keeping 50% safety margin over and above the peak sudden rainfall and maximum discharge in the area adjoining the mines site. Sump capacity should also provide adequate retention period to allow proper settling of silt material.</p>	<p>During the site visit, it was observed that the settling tank of capacity 250 KLD was provided for treatment of coal contaminated wastewater from the underground sump. However, during the site visit, it was observed that rainwater run-off from the coal stock yard and from the coal bunker area are being discharged outside the mine premises. Project proponent has been directed to ensure proper garland drain network and separate storm water network around the said area and the wastewater from the garland drain network needs to be treated in the settling tank available in the mine lease area. Coal stock yard and the approach road to the mines needs to be concretized for better environmental management in the mine lease area. Further, the garland drain of adequate size is found constructed around safety areas such as mines shaft. Water sprinkling arrangement through tankers and some fixed water sprinklers is available at the approach road to the mines and in the coal stock yard.</p> <p>In view of the information furnished by PP and as per the site observations noted above, the stipulated condition is considered as partly complied w.r.t. said site visit.</p> <p>PARTLY COMPLIED</p>	<p>Complied.</p> <p>Garland drains network and storm water network around the said area have been established in the mine premises and the wastewater from these networks is being treated in the settling tank. Photographs of concrete garland drain around coal stock yards are submitted.</p> <p>Approach road to the mines has also been concreted. Photographs of concretized approach road are submitted. Coal stock yards will also be concretized as advised by Feb-25. The estimated cost of Rs 20 Lakhs is allotted for this work.</p>
v.	<p>The area that shall be brought under green belt development shall include roads, periphery along ML boundary and undisturbed area by planting native species in consultation with the local DFO/ Agriculture Department. The density of the trees should be around 2500 plants per ha.</p>	<p>During the site visit, it was seen that Plantation was undertaken in and around the mine premises, i.e., residential colony, along approach roads, around coal stock yard. As per records furnished during the site visit, it was noted that 16118 no. of saplings have been planted in the mine premises. However, the extent of area in which plantation was undertaken is not specified to determine the density of plantation. Further, project proponent needs to install display boards showing year-wise plantation activity (with details of no. of plants planted, area covered, year of plantation, etc.) in the ML area.</p> <p>In view of the information furnished by PP and as per the site observations noted above, the stipulated condition is considered as partly complied w.r.t. said site visit till submission of requisite details.</p> <p>PARTLY COMPLIED</p>	<p>Being Complied.</p> <p>Display boards showing year-wise plantation activity has been displayed at the site of Plantation in the mine premises.</p> <p>Total Plantation of 16118 in 13 Ha. has been done at a density of 1240 Sapling/Ha, Gap plantation in this 13 Ha. is being done. Plantation Programme for next 5 years has been prepared and will be undertaken as per MOU with MPRVVN. A total of 17500 saplings will be planted in an area of 7 Ha (within mine lease boundary) and 50000 saplings will be planted in the various government bodies premises (schools/angawadi/college etc.) as per the land availability and permission from local administration. Consent letters for providing of land for plantation has been obtained from various government bodies. Plantation programme of Umaria UG mine along with Copy of consent letters is</p>

S. No.	EC Conditions	Observations of IRO, MoEF&CC, Bhopal	Compliance status as on date submitted by PP
			submitted.
viii.	Sewage Treatment Plant (STP) should be installed in the existing colony. ETP should also be provided for workshop and CHP wastewater.	<p>During the site visit, it was noted that the existing colonies are old colonies in which only conventional septic tank & soak pit arrangement is available. Hence, STP is yet to be installed in the existing colony of the unit and tendering process for the same is under progress. Further, it is noted that settling tank has been provided to treat wastewater from the underground minesumps. However, during the site visit, it was observed that rainwater run-off from the coal stockyard and from the coal bunker area are being discharged outside the mine premises. Project proponent has been directed to ensure proper garland drain network and separate storm water network around the said area and the wastewater from the garland drain network needs to be treated in the settling tank available in the mine lease area. No workshop is installed in the mine premises and all maintenance work is being undertaken through workshop at Piparia UG mine.</p> <p>In view of the information furnished by PP and as per the site observations noted above, the stipulated condition is considered as partly complied till installation of STP w.r.t. said site visit. PARTLYCOMPLIED</p>	<p>Complied. Sewage treatment Plant (STP) of 0.35 MLD Capacity at Jawahar Colony of Umaria UG Mine is operational. Proper garlands drain network around the said area has been established in the mine premises and the wastewater from these networks is being treated in the existing settling tank. Geo-tagged photographs of STP are submitted.</p>
General Conditions of EC dated 20.05.2005			
v.	Fugitive dust emission from all sources should be controlled regularly monitored and data recorded properly. Water spraying arrangement on haul roads, wagon loading, dump trucks (loading & unloading) points should be provided and properly maintained.	<p>During the site visit, it was observed that the water sprinkling is undertaken through truck mounted fogging machine in coal stockyard and water sprinklers found provided in the Nowrozabad, railway siding, near internal coal transportation road, near weigh bridge and coal bunker for the suppression of dust. No fugitive dust monitoring was undertaken in the mine premises.</p> <p>In view of the information furnished by the PP and as per the site visit observations, the stipulated condition is considered as partly complied w.r.t. said site visit till submission of fugitive dust monitoring test reports PARTLY COMPLIED</p>	<p>Complied. Monitoring Report for fugitive dust emission generating from the sources in the mine is submitted.</p>
vii.	Industrial wastewater (workshop and wastewater from the mine) should be properly collected, treated so as to conform to the standards prescribed under GSR 422(E) dated 19th May 1993 and 31st December 1993 or as	<p>As per records furnished by project proponent during the site visit, it is noted that the waste water generated during the mining operations is accumulated in the minesump, which acts as primary settling pond. The water from the minesump is again being subjected to settling in the sedimentation tank constructed at the</p>	<p>Being Complied. ETP is established in the central workshop of Johilla Area at Nowrozabad for proper treatment of effluent generated in the workshop. Small quantity of oil and grease generated in the process is restricted within the workshop area. Expected</p>

S. No.	EC Conditions	Observations of IRO, MoEF&CC, Bhopal	Compliance status as on date submitted by PP
	amended time to time. Oil and Grease trap should be installed before discharge of workshop effluents.	<p>surface. The treated mined out water is monitored through NABL accredited laboratory - CMPDIL on a fortnightly basis, the perusal of the test reports reveals that all the monitoring parameters are well within the stipulated standards.</p> <p>An area level central workshop is functional outside the mine lease area in Nowrozabad and it is noted that a settling tank is seen provided for management of effluent generated from the area workshop. No oil and grease trap is provided. However, small quantity of oil & grease generated/ used in the process is restricted within the workshop area.</p> <p>In view of the information furnished and as per the site observations noted above, the stipulated condition is considered as partly complied w.r.t. said site visit till submission of requisite documents. PARTLYCOMPLIED</p>	commissioning of ETP at Umaria UG Mine by May 2025.
xii.	The funds earmarked for environmental protection measures should be kept in separate account and should not be diverted for other purpose. Year-wise expenditure should be reported to the Ministry and its Regional Office located at Bhopal.	<p>Records (Environmental Statement-Form V) related to funds allocated for implementation of conditions stipulated by MoEF&CC were furnished by the PP under CAPEX and recurring expenditure. The mines are currently in operation and the year wise expenditure shall be regularly reported to MOEF&CC, RO Bhopal also through six-monthly compliance reports.</p> <p>In view of the information furnished by the Project Proponent and as per the site observations noted above, the stipulated condition is considered as partly complied with w.r.t. said site visit till submission of details as mentioned above. PARTLYCOMPLIED.</p>	Complied. The funds earmarked for environmental protection measures has been kept in separate account and year wise expenditure incurred under above head has been reported in ATR submitted to IRO, Bhopal. Expenditure under environment head done in the previous years is submitted.
xvi.	The project authorities should advertise at least in two newspapers widely circulated around the project, one of which shall be vernacular language of the locality concerned within 7 days of issue of the clearance and a copy of the clearance letter is available with the State Pollution Control Board and may also be seen at website of the Ministry of Environment & Forest at http://envfor.nic.in	<p>Requisite documents in compliance of the stipulated condition are yet to be furnished by the project proponent.</p> <p>In view of the information furnished by the Project Proponent and as per the site visit observations, the stipulated condition is considered as partly complied w.r.t. said site visit till submission of requisite documents. PARTLYCOMPLIED.</p>	Complied. Requisite document/ paper cuttings of paper publication about issue of environmental clearance done on 24.06.2005 and 30.12.2023 is submitted.

19.6.13: Legal Issues/Violation: PP submitted that there is no court case on the project.

19.6.14: Undertaking and Affidavit: PP submitted an undertaking vide letter dated 02.12.2024, stating that, i) there is no construction/ mining done at the site or the construction done without any deviation as per previous EC obtained vide no. J11015/90/2005-IA-II(M) dated 20.03.2005, ii) That there is no litigation on the project at NGT or any other court of law, iii) the land has been acquired under MMDR Act, 1957 and the present status of R&R is complete, iv) there is no difference in the documents submitted and presentation being made to the EAC, v) Umaria Underground Coal Mine of Mi's South Eastern Coalfields Limited, is an existing operating Underground Coal Mine having Environmental Clearance for 0.35 MTPA (Normative) and (Peak) capacity, in leasehold area of 857.675 Ha, vide MoEF&CC's Letter No.. J-11015/90/2005-IA.II(M) dtd. 20.05.2005. Public Hearing has been conducted on dt: 16.12.2003 for total mine leasehold area of 857.675 Ha. To revalidate the EC as per EIA notification 2006, Umaria Underground Coal Mine is hereby submitting online application in Form-1 under EIA Notification, 2006 for Grant of EC for revalidation keeping production capacity same as existing 0.35 MTPA in the mining area of 512.540 Ha for mining of coal in Tehsil-Bandhavgarh, District-Umaria, Madhya Pradesh, vi) 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 revalidation in EC.

19.6.15: ADS information in chronology: The proposal was initially considered in 44th EAC meeting held on 24th and 25th April 2019 wherein the committee deferred the proposal for additional information. PP submitted the reply vide letter dated 15.04.2024 and uploaded the same on the PARIVESH portal. Later the proposal was again considered in 11th EAC meeting held on 8th & 9th May 2024, wherein the proposal was again deferred for additional information. Details of the same are as follows:

In reply to the ADS raised during the 44th EAC meeting dated 24-25 April 2019; PP submitted the following:

S. no	ADS Point	Response of PP
1.	Public notice shall be issued through concerned SPCB for information of the stakeholders about the present coal mining operations inviting comments and their redressal.	Public notice regarding the present coal mining operations inviting comments has been published through the Madhya Pradesh Pollution Control Board in the Raj Express & Times of India on 30.12.2023 and no comments received.
2.	Mining plan and Progressive Mine Closure Plan duly approved by the competent authority.	The capacity enhancement from 0.30 to 0.35MTPA was approved by Board of SECL on 28.03.2005. Progressive Mine Closure Plan was approved on 27.01.2014.
3.	Compliance status of the conditions stipulated in the environmental clearance from the concerned Regional Office of the Ministry	MOEF&CC IRO, Bhopal Visited the mine on 29.04.2023 and Certified Compliance Report was submitted vide no. F.No. 3-31/2005(Env); I/64361/2024 Dt 24.02.2024. As per the CCR, total 03 specific and 04 general condition are partially complied. PP submitted the ATR and review of the same is yet to be done by the R.O Bhopal.
4.	Valid Consent to operate from the SPCB or the present mining operations.	CTO from SPCB is valid up to 30.04.2025.
5.	Redressal of issues raised during the public hearing conducted by the SPCB.	The same has been submitted

S. no	ADS Point	Response of PP
6.	Coal production realized from the mine from 1993-94 vis-à-vis capacity stipulated in the environment clearance	Total coal production from 1993-94 to 2023-24 is 4.82 MT. It is observed that there has been excess production before the grant of EC of on 20.05.2005. After that, the production has been within the EC capacity.
7.	Need assessment survey for the activities proposed under the CSR and the comprehensive plan to be prepared accordingly for implementation by the project proponent. Also, impact of the CSR activities undertaken at an interval of 5 years to be evaluated and a report to be submitted.	The need base assessment was done by officials of Umaria UG Mine of SECL, Johilla Area in the Kirantal Kalan, Pipariya, Kirantal Khurd and Ladera villages through community gatherings & meetings to identify and assess the social and physical infrastructural requirements in the villages. The requirements of ATM RO water plant, Solar street light, Deepening and Cleaning of pond, Primary health centre in Village, Approach Road, CC Road, Community hall construction, Water Supply of mine out water for irrigation, Provision of drinking water facility etc. was identified in the nearby villages. The implementation of the above works will be done by state govt. under the CSR head of SECL. The tentative budget provision of Rs. 190.00 Lakhs is kept for the works.
8.	Forest clearance for diversion of 17.50 Ha of forest land as required under the Forest (Conservation) Act 1980.	No forest land is involved in the project. Hence, not applicable for this project
9.	Details of court cases and the compliance of the orders, if any.	No court cases/ compliance of the orders are pending in this project.
10.	Compliance of the Ministry's OM dated 30th May, 2018	The project proponent has submitted the application for revalidation of EC to MOEF&CC, New Delhi in compliance of the Gazette Notification issued by MOEF&CC, New Delhi on dated 06.04.2018. The proposal was considered in the EAC meeting held on 25.04.2019

In reply to the ADS raised during the 11th EAC meeting dated 8th-9th May 2024; PP submitted the following:

S. no	ADS Point	Response of PP																	
1.	PP shall submit a revised plantation plan along with budgetary provisions. In case surface rights are not available plantation can be done in other places viz. nearby villages, schools etc. in consultation with the local authorities.	<p>Plantation Programme along with budgetary provision for Umaria UG mine has been prepared and will be undertaken as per MOU with MPRVVN. A total of 17500 saplings will be planted in an area of 7 Ha. Plantation in schools of nearby villages will also be done as per the land availability and permission from school administration. Consent letters for providing of land for plantation has also been obtained.</p> <table border="1"> <thead> <tr> <th rowspan="2">Period Year</th> <th colspan="2">Green Belt development Proposed Plantation</th> <th rowspan="2">Cumulative Plantation</th> <th rowspan="2">Tentative Budgetary Provision (In Lakhs)</th> </tr> <tr> <th>Area in Ha</th> <th>Nos.</th> </tr> </thead> <tbody> <tr> <td>2024-25</td> <td>1</td> <td>2500</td> <td>2500</td> <td>11.63</td> </tr> <tr> <td>2025-26</td> <td>6</td> <td>15000</td> <td>17500</td> <td>58.13</td> </tr> </tbody> </table>	Period Year	Green Belt development Proposed Plantation		Cumulative Plantation	Tentative Budgetary Provision (In Lakhs)	Area in Ha	Nos.	2024-25	1	2500	2500	11.63	2025-26	6	15000	17500	58.13
Period Year	Green Belt development Proposed Plantation			Cumulative Plantation	Tentative Budgetary Provision (In Lakhs)														
	Area in Ha	Nos.																	
2024-25	1	2500	2500	11.63															
2025-26	6	15000	17500	58.13															
2.	PP shall submit the signed copy of CCR with its latest compliance status with photographs.	Signed Copy of CCR was requested from IRO Bhopal. The digitally signed CCR was received through email. Latest compliance status with geotagged photographs is also submitted along with ATR.																	

Observations and deliberation of the Committee:

19.6.16: The EAC noted the following:

- i. The instant proposal is for revalidation of EC accorded by M/s South Eastern Coalfields Ltd for Umaria Underground Coal Mining Ltd. vide letter no. J-11015/90/2005-IA-II(M) dated 20.03.2005 under EIA Notification 1994 over an area of 857.675 Ha (comprising 512.54 Ha of total lease area) having capacity 0.35 MTPA. The revalidation of EC granted is under EIA Notification 2006 (as amended) as per the provision of S.O 1530(E) dated 06.04.2018 read with OM dated 16.02.2021.
- ii. PP applied for revalidation of EC in PARIVESH Portal on 04.09.2018, 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).
- iii. Committee observed that there is excess production prior to EC granted vide letter dated 20.05.2005. However, there is no excess production post grant of EC. The EC was accorded vide letter dated 20.05.2005 under the provisions of MoEF's Circular dated 12.02.2002 under item 3 of para (d).
- iv. The Mine lease for the said project was acquired under the Mines and Minerals (Development and Regulation) Act, 1957 for the area of 857.675 Ha, and the same is valid till 26.11.2035.
- v. Project does not fall in the Critically Polluted Area (CPA)/ Severely Polluted Area (SPA), as per CEPI Assessment, 2018.
- vi. The project does not involve any forestland and there is no violation of Van (Sanrakshan Evam Samvardhan) Adhiniyam, 1980.
- vii. PP submitted that the project is not located within 10 km of any ESZ / ESA / National Park/ Wildlife Sanctuary / Biosphere reserve / Tiger reserve/ Elephant reserve/ Tiger Corridor/ Elephant Corridor etc. PP further submitted that the project does not include any wildlife issues and Schedule-I species.
- viii. The Committee observed that as reported by PP the Public Consultation (including public hearing) was conducted on 16.10.2003 at the Conference Hall Collectorate, Distt. Umaria (MP). The presiding officer of the same was Collector, Umaria. PP submitted that an advertisement for the same was published in Dainik Bhaskar on 15.09.2003 and Dainik Bharti on 14.09.2003. The major issues raised in the public hearing were i) purification of mine water, providing the water for use by local people of villages Jamunia, Chapaha, ii) electricity arrangement in the area should be done by the project. Specifically coal transportation road from Chapaha colliery to Sonu Dhaba should be illuminated for prevention against accident, and iii) plantation and illegal cutting of trees. With respect to compliance PP submitted that i) Mine water is treated in settling tank before being discharged outside the mine premises for use of public/ farmers for agriculture and allied purposes. Drinking water for 9 no. colony, Chapaha colony etc. is supplied after purification in the filter

plant having capacity of 3000 LPD. Drinking water arrangement has been done for Jamunia and Chapaha village after treatment at filter plant of Umaria Nagar Palika, ii) Electricity arrangement has been made as per requirement for entire colliery roadway and proper illumination exists along the coal transportation roads including road from Umaria (Chapaha) colliery to Sonu Dhaba has been done, and iii) Plantation of 16118 has been done in the mine premises. The security personals deputed in the mine premises to prevent the illegal cutting of trees. No illegal cuttings of trees have been reported. The Committee observed that in accordance with S.O 1530(E) dated 6.04.2018, OM dated 16.02.2021 and as desired by EAC in the meeting held on 25th April 2019, a Public Notice for revalidation of EC was also given in Raj Express and Times of India on 30.12.2023. PP submitted that no representation was received in writing from the district and outside of the district. The same was confirmed by RO MPPCB Shahdol vide letter dated 23.02.2024.

- ix. In pursuant to OM dated 16.02.2021, PP also submitted that there has been no change in mining namely mining method, mining plan, mineral transportation, water requirement, reclamation plan after obtaining EC for production capacity of 0.35 MTPA.
- x. Committee observed that the PP submitted the water requirement is 817 KLD (Domestic 586 KLD; Industrial 231 KLD) and NoC from CGWA has already been obtained for 3454 m³/day vide no. CGWA/NOC/MIN/ORIG/2022/16510 dated 28.09.2022. Further, the PP submitted that the application for renewal of CGWA NoC has been made vide application No. 21-4/1349/MP/MIN/2022 for 6869.00 m³/day dated 25.09.2024.
- xi. The Committee observed that the area for which EC was granted during 2005 was 857.675 Ha. PP now submitted that the Lease for 867.14 Ha was executed on 18.03.1980 under MMRD Act, 1957. In the EMP prepared in March'2003, total land requirement mentioned 866.476 Ha, having 567.701 Ha for mining. PP further submitted that during the coal extraction, two faults namely F-4 and F-6 were encountered in the east side of the property and winning of coal was not possible beyond these faults. Hence, mining area was restricted to 512.540 Ha. Further, mining will be done in 512.540 Ha only. PP has also submitted the undertaking regarding the same vide letter dated 15.05.2024. The Committee observed that the proposed mining is in the area 512.540 Ha which is less than the area for which previous EC was granted.
- xii. PP Submitted that the mining plan/Project Report for the project was approved for (capacity-0.30 MTPA, Area-857.675 Ha) vide letter dated 03.09.1996 (0.30 MTPA)/28.03.2005 (0.35 MTPA) & progressive mine closure plan approved vide letter dated 27.01.2014.
- xiii. Total geological reserve reported in the mine lease area was 12.89 MT with 9.73 MT mineable reserve as on 01.04.2024. Extractable reserve as of 01.04.2024 is 7.29 MT, percentage of extraction is 75% and the method of mining operations envisages development by Underground mining with Board & Pillar method with SDL.
- xiv. PP reported that the expected remaining life of the mine is 28 years as of 01.04.2024.

- xv. The Committee deliberated on the transportation of Coal. PP submitted that the coal is proposed to be transported from pit to surface bunker through the conveyor belt and from surface to sidings through trucks and tippers, from sidings to consumer, through railways and to local consumers by trucks. PP further submitted that there are no changes proposed in the means of transportation of Coal. The Committee is of the view that PP shall take all mitigative measures including covered transportation, water spraying etc. while transporting the mineral.
- xvi. The Committee deliberated on the plantation/ greenbelt area of the project. PP submitted that existing green belt/ plantation in the mine premises has been done in approximately 13.0 Ha area which is about 2.53% of the total project area of 512.54 Ha with total sapling of 16118 nos of trees. PP also submitted that as per the recommendations made by the Committee in the previous meeting, additional land has been identified by the proponent in and outside the ML area and a total of 17,500 nos of additional saplings will be planted in the land identified. Permission in this regard has also been obtained by the PP from the concerned persons, whose land has been identified for additional plantation. However, the Committee is of the opinion that the quantum of saplings to be planted shall be increased to at least 2,00,000 nos of saplings.
- xvii. Committee deliberated on the partially complied conditions as per the certified compliance report obtained from Regional Office, Bhopal vide letter no./file no.3-6/2005(Env), dated 14.02.2024 in the name of Umaria Underground Mine and the action taken report submitted by the proponent to RO vide letter dated 02.12.2024.
- xviii. Committee also observed that the Effluent Treatment Plant (ETP) is constructed but yet to be commissioned. Committee opined that ETP shall be commissioned by 31.01.2025. Committee also deliberated on the fugitive air condition and concentration of PM₁₀ is observed to be high. Committee is of the view that dust suppression measures must be diligently followed.
- xix. Committee also suggested that solar operated lights may be installed in the colonies and transportation roads.
- xx. CTO renewal has been obtained from MPPCB and is valid upto 30.04.2025.

Recommendations of the Committee:

19.6.17: In view of the foregoing and after detailed deliberations, the committee **recommended** the instant proposal for grant of revalidation of EC dated 20.05.2005 as per provisions of S.O. 1530(E) dated 06.04.2018 read with OM dated 16.02.2021. Grant of revalidation of EC is subject to the compliance of the following specific conditions and standard conditions in addition to the conditions granted in earlier EC.

Specific Conditions:

- i. PP shall speed up Plantation activities so as to achieve the targets within next 5 years. The plantation plan shall be implemented in a time-bound manner. A survival rate of at least 80% shall be maintained by carrying out gap plantation in case of mortality.

- The budget earmarked for plantation shall be kept in a separate account. PP should annually submit the audited statement of expenditure along with proof of activities viz. photographs (before and after with geolocation date & time), details of expert agency engaged, details of species planted, number of species planted, survival rate, density of plantation etc. to the RO of MoEF&CC and of PARIVESH Portal as the case may be for the activities carried out during previous year.
- ii. The plantation done by the PP need to be adequately densified and audited by a third party preferably a forestry institution of MoEF&CC to assess their efficacy.
 - iii. PP shall monitor the subsidence and take necessary measures/ steps for filling the subsidence area as per subsidence plan.
 - iv. PP shall provide regular health monitoring services and health services free of cost to people living in 10 km radius.
 - v. Protective measures for restoration and rehabilitation of flora and fauna in the study area will be identified in consultation with forest department and execution of works will be done accordingly under the supervision of state forest department by July-2025
 - vi. PP shall ensure that all types of plastic waste generated from the mines shall be stored separately in isolated areas and disposed of strictly adhering to the Plastic Waste Management Rules 2016. In pursuant to the Ministry's OM dated 18/07/2022, PP shall also create awareness among the people working in the project area as well as in its surrounding area on the ban on Single Use Plastic (SUP) in order to ensure compliance of the Ministry's Notification published by the Ministry on 12/08/2021. A report along with the photographs of the measures taken shall also be included in the six monthly compliance reports being submitted by PP.
 - vii. NoC from Central Ground Water Authority (CGWA)/ concerned local authority, as the case may be, shall be obtained before drawing the groundwater for the project activities, state pollution control board/pollution control committees shall not issue the consent to operate (CTO) under Air (prevention and control of Pollution) Act and Water (Air (prevention and control of Pollution) Act till the project proponent shall obtain such permission.
 - viii. PP shall implement the protective measure proposed in EMP in a time- bound manner. The budget earmarked for the same Rs 932.237 Lakh (recurring) and should be kept in separate accounts and audited annually. The implantation 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.
 - ix. PP shall implement all the mitigation measures committed / envisaged in the EIA/EMP report and subsequent submission shall be implemented. PP should annually submit the audited statement along with proof of activities carried to the Regional Office of MoEF&CC and PARIVESH Portal as the case may be for the activities carried out during previous year.
 - x. PP should establish an Environment Management Cell at its mines in order to make sure that all the compliances related to environment are being complied efficiently. PP should conduct the monthly review meeting with the environment management cell shall be carried out at mine level and quarterly at with environment management committee of the company. The record of the same shall be maintained.
 - xi. PP shall ensure submission of the compliance report to the Regional Office in a timely

manner and in case of any non-compliance identified so far/in future in the CCR then the same shall be complied with on priority and action taken report in this regard shall be submitted to concerned RO and get it closed.

- xii. PP should make markings on the wall where the coal is stored in order to avoid the height of storage to exceed than what is actually allowed.
- xiii. New recharge structures will be constructed in consultation with the Regional Director, Central Ground Water Board and compliance of the same shall be submitted within next six months.
- xiv. The proponent shall obtain all necessary clearances/approvals that may be required before the start of the project.
- xv. The Ministry or any other competent authority may stipulate any further condition for environmental protection.
- xvi. The Environmental Clearance to the aforementioned project is under provisions of EIA Notification, 2006. It does not tantamount to approvals/consent/permissions etc. required to be obtained under any other Act/Rule/regulation.
- xvii. The Project Proponent is under obligation to obtain approvals /clearances under any other Acts/Regulations or Statutes, as applicable, to the project.
- xviii. The PP is under obligation to implement commitments made in the Environment Management Plan, which forms part of this EC.
- xix. Validity of EC is as per the para 9 of EIA Notification 2006 read with its subsequent amendment dated 12th April 2022.
- xx. Any appeal against this environmental clearance shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.
- xxi. The coal company/project proponent shall be liable to pay the compensation against the illegal mining, if any, and as raised by the respective State Governments at any point of time, in terms of the orders dated 2nd August, 2017 of Hon'ble Supreme Court in WP (Civil) No.114/2014 in the matter of Common Cause Vs Union of India & others.
- xxii. The concerned State Government shall ensure no mining operations to commence till the entire compensation for illegal mining, if any, is paid by the project proponent through their respective Department of Mining & Geology in strict compliance of the judgment of Hon'ble Supreme Court. This environmental clearance shall not be operational till such time the project proponent complies with the above said judgment of Hon'ble Supreme Court, as applicable, and other statutory requirements.
- xxiii. All other conditions stipulated in EC dated 20.03.2005 shall remain the same.

General Instructions:

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

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

Agenda No. 19.7:

19.7: Expansion of Ananta OCP project from 20 MTPA to 24 MTPA in lease area of 1214.49 Ha by M/s. Mahanadi Coalfields Limited at villages Hensamul, Dera, Purunia, Chandpur, Nakhtrapur, Ekdal, Hilloi, Rakas, Brundabanpur, Ajatipur, Rangamatia, Kurihan, Dinabandhupur, Biraramachandrapur and Kantapalli. Tehsil Talcher, District Angul, Odisha- Environment Clearance under para 7(ii) a of EIA Notification, 2006 – reg.

[Online Proposal No. IA/OR/CMIN/508532/2024; Consultant: CMPDI - NABET/EIA/22-25/SA 0223 valid up to 08.04.2025]

19.7.1: M/s Mahanadi Coalfields Limited has made an online application vide proposal no. IA/OR/CMIN/508532/2024 dated 27/11/2024 along with copy of EIA/EMP report, Form and Certified compliance report seeking Environment Clearance (EC) under the provisions of the EIA Notification, 2006 for capacity enhancement from 20 MTPA to 24 MTPA (i.e., 20%) as per the MoEF&CC O.M. dated 11/04/2022. The proposed project activity is listed at schedule no. 1(a)(i)-Mining of Minerals with Coal Under Category “A” of the schedule of the EIA Notification, 2006 and being appraised at Central Level.

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

19.7.2: Details of Previous Approvals in chronological orders:

S. No.	Details of Letter No.	EC/Expansion EC/Amendment in EC/Validity extension/Transfer Of EC	Capacity (MTPA)	Area (in Ha)	Date of Issuance	Status of Implementation
1	J-11015/7/86-IA	EC	4.00	147.00	13/06/1991	Implemented
2	J-11015/4/94-IA.II(M)	Expansion EC	8.00	691.091	02/05/2005	Implemented
3	J-11015/83/2005-IA.II(M)	Expansion EC	12.00	691.091	14/07/2006	Implemented
4	J-11015/397/2008-IA.II(M)	Expansion EC	20.00	1181.968	10/12/2014	Being Implemented
5	J-11015/397/2008-IA.II(M)	Amendment in EC	20.00	1419.821	16/02/2018	Being Implemented

19.7.3: Production details of the existing EC: W.r.t the previous approvals. PP has submitted the actual production details of the concerned mines and submitted that the mines became operational from 1988-89 onwards. CTO renewal has been obtained from the OSPCB and is valid up to 31.03.2025. Details of production are as follows:

Year	EC sanctioned capacity (MTPA)	Actual Production (MTPA)	Excess production beyond the EC sanctioned capacity
1988-89	--	0.013	0.00
1989-90	--	1.00	0.00
1990-91	4.00	1.95	0.00
1991-92	4.00	3.34	0.00
1992-93	4.00	3.89	0.00
1993-94	4.00	4.01	0.01
1994-95	4.00	4.63	0.63
1995-96	4.00	5.38	1.38
1996-97	4.00	5.39	1.39
1997-98	4.00	6.38	2.38
1998-99	4.00	6.69	2.69
1999-2000	4.00	7.03	3.03
2000-01	4.00	7.63	3.63
2001-02	4.00	7.00	3.00
2002-03	4.00	7.82	3.82
2003-04	4.00	9.47	5.47
2004-05	4.00	7.41	3.41
2005-06	8.00	9.16	1.16

Year	EC sanctioned capacity (MTPA)	Actual Production (MTPA)	Excess production beyond the EC sanctioned capacity
2006-07	12.00	12.26	0.26
2007-08	12.00	12.83	0.83
2008-09	12.00	12.52	0.52
2009-10	12.00	12.82	0.82
2010-11	12.00	11.74	0.00
2011-12	12.00	9.92	0.00
2012-13	12.00	8.91	0.00
2013-14	12.00	7.52	0.00
2014-15	20.00	10.58	0.00
2015-16	20.00	5.87	0.00
2016-17	20.00	2.90	0.00
2017-18	20.00	4.15	0.00
2018-19	20.00	8.25	0.00
2019-20	20.00	10.93	0.00
2020-21	20.00	8.83	0.00
2021-22	20.00	13.58	0.00
2022-23	20.00	17.10	0.00
2023-24	20.00	20.00	0.00
2024-25 up to Oct 24	20.00	13.17	0.00

PP submitted that while Ministry accorded EC for expansion vide letter dated 10.12.2014, the violation aspect regarding over production has been taken into cognizance. Wherein, the EC was granted after a written commitment in the form of Board Resolution by the Board of Directors vide letter no. MCL/SBP/CS/Bd-150/Exct/2013/7364 dated 24.07.2013 was submitted to the Ministry to ensure that violations will not be repeated. Also, on directions of the Ministry, the Regional Office, MoEF&CC, Bhubaneswar has filed the complaint in the Court of SDJM, Talcher under section 19 of EPA, 1986 (Case No. 2(C) C31/2014 dated 21.06.2014) against the collieries for operating with excess production.

19.7.4: Certified Compliance Report: PP submitted that the status of compliance of earlier EC was obtained from Regional Office, Bhubaneswar vide letter no. 101-958/EPE/2053 dated 19.11.2024 in the name of M/s. Mahanadi Coalfields Limited for Ananta OCP Expansion. The Action Taken Report regarding the partially complied condition was submitted to Regional Officer MoEF&CC, Bhubaneswar vide letter no. MCL/GM/JA/PO(AOCP)/EC/2024-25/AC-731 dated 21.11.2024. Details of the same are as follows:

Special Condition No.	Condition Details	Observation of IRO	Action Taken by the Project Proponent
vi	Permission should be obtained from Water Resource Dept, State Govt. for diversion of Bangaru Jhor stream	Partially Complied Permission should be obtained from Water Resource Dept, State Govt. for diversion of Bangaru Jhor stream. From the information provided by the project, it is noted that field inspection has been completed by Irrigation Dept., on dtd. 30.09.2020. Permission from EIC(WR) is still pending.	The project has submitted an application to the Water Resource Department, Government of Odisha, seeking permission for the diversion of Bangaru Nalla. A request for approval has been made to the EIC (WR) in Bhubaneswar. The details of the communications are as follows: <ol style="list-style-type: none"> 1. Letter No. 1075 dated 10.02.2014 from the Project Officer, Ananta OCP 2. Letter No. 12167/WR dated 17.05.2014 from the Dy. Secretary, Government of Odisha 3. Memo No. 4838 dated 24.05.2014 from the Assistant Chief Engineer, Bhubaneswar 4. Letter No. 699 dated 09.02.2015 & Letter No. 4583 dated 13.09.2020 from the Executive Engineer, Angul Irrigation Division, Angul 5. Letter No. 1321 dated 14.11.2021 & Letter No. 5727 dated 25.09.2024 from the Project Officer, Ananta OCP Joint field inspections by the Water Resource Department were conducted on 30.09.2020 and 30.08.2024. Furthermore, the work for preparing the Bangaru Jhor diversion plan and conducting the hydrological study has been awarded to NIH, Roorkee. This will be presented to the Water Resource Department, Government of Odisha, for obtaining the NOC. The work is expected to be completed by May' 2025
vii	The presence of Arsenic, Mercury (Hg), Geranium (Ge) may be investigated	Partially Complied The presence of Arsenic, Mercury (Hg), Geranium (Ge) may be investigated. The project proponent needs to explore further possibilities for testing of Germanium (Ge).	Arsenic and Mercury (Hg) monitoring is being conducted monthly by the Project Proponent (PP) through CMPDIL. The reports are regularly submitted to the Regional Office of MoEF&CC, Bhubaneswar. Additionally, the project has made efforts to explore the analysis of Germanium (Ge) through various laboratories and research institutes in Odisha, including CMPDIL, RI-VII and IIT Bhubaneswar. However, it has been confirmed that no facilities are currently available for the analysis of Germanium (Ge). Further, a letter in this regard has been sent to IMMT, Bhubaneswar, Eurofins, Bangalore, Netal, Mumbai and SGS Kolkata has also been requested for the same. Copy of the same is submitted.

Special Condition No.	Condition Details	Observation of IRO	Action Taken by the Project Proponent
x.	Continuous monitoring in the change in ecology be carried out by ecologist, biologist, and social scientist.	Partially Complied Continuous monitoring in the change in ecology is carried out by ecologist, biologist, and social scientist. The project authorities may carry out study on the change in social aspects on the people and villages surrounding the project through an Institute/Organization specialized on the subject. Report on the study needs to be submitted to the Ministry and Regional Office.	A Study for continuous monitoring in the change in ecology was carried out by IIT-ISM, Dhanbad and the report was submitted on 01.04.2023. The continuous monitoring of ecological changes due to opencast coal mining of Ananta OCP was carried out for four seasons starting from Sep (2021) to December 2022 for assessment of plant biodiversity, soil quality and carbon sequestration in reclaimed OB dumps. Further, study on the change in social aspects on the people and villages surrounding the project and to study the direct/indirect impact of the projects on the lives of communities/people in the periphery of MCL project areas and other locations concerned is being conducted through Indian Institute of Corporate Affairs (IICA). Copy of report is submitted.
xviii	Coal transportation in pit by dumpers/tippers, surface to siding by conveyor from quarry mouth to Silo/Siding after construction of Silo and to loading by after construction of Silo directly in to wagon through conveyor, Silo and rapid loading system. The OB shall be completely re-handled at the end of the mining.	Partially Complied. Coal transportation in pit by dumpers/tippers, surface to siding by conveyor from quarry mouth to Silo and siding to loading by after construction of Silo directly in to wagon through conveyor, Silo and rapid loading system. Rapid Loading System with Silo of capacity 20 MTPA equipped with closed belt conveyor system is under construction; 85% of construction work has been completed and it is reported to be commissioned by Dec'2025.	Coal transportation from pit to siding is being done by Tippers. Rapid Loading System with SILO of capacity 20 MTPA equipped with 1470 meters of closed belt conveyor system is under construction; 90% of the construction work has been completed as on 20.11.2024 and it is expected to be completed by March'2025 and efforts are being given for commissioning by June'2025. After the commissioning of RLS/SILO the coal will be transported through closed belt conveyor from quarry mouth to SILO and to directly loading into railway wagons for dust free coal transportation. The RLS with SILO is arranged with Automatic sensor-based mist spray system at loading and unloading points along with firefighting system.
xxix	The mining area should be grounded by green belt having thick closed thick canopy of the tree cover.	Partially Complied The mining area should be grounded by green belt having thick closed thick canopy of the tree cover. The project proponents	The green belt has been developed within and outside the mine premises. Progressive plantation over Internal OB dumps after technical reclamation is being done in the mine. The plantation is being carried out through Odisha State Forest Department and Chhattisgarh Van Vikas Nigam Limited.

Special Condition No.	Condition Details	Observation of IRO	Action Taken by the Project Proponent
		<p>have raised green within and outside the mine premises</p>	<p>The details of progressive plantation activities carried out inside and outside the mine lease area is as follows:</p> <ol style="list-style-type: none"> i. 98.20 Ha with total 242800 Nos of plants over Internal OB dump area has been planted. ii. Plantation with 27000 nos. and grassing has been completed on 23.20 Ha of external OB dump iii. Block plantation-2.34 Ha. - 5850 nos. have been done in residential colony iv. Plantation around Dera village- 10 Ha./16000 Nos. v. Avenue plantation on 27.64 Ha. With 44224 nos. plants along approach roads, public roads and transportation roads were carried out. vi. Safety Zone Plantation all along the mine lease area = 7.5 Ha. =12000 Nos. <p>Medicinal Garden over 3.0 Ha of internal OB dump has been developed. The medicinal garden will be converted into Mine Eco Park in 10 Ha for which 19 Crore will be expended in year 2025.</p> <p>Native species planted are Bel (<i>Aegle marmelos</i>), Karanj (<i>Millettia pinnata</i>), Krishnachuda (<i>Delonix regia</i>), Neem (<i>Azadirachta indica</i>), Amala (<i>Phyllanthus emblica</i>), Radhachuda(<i>Caesalpinia pulcherrima</i>), Kaju (<i>Anacardium occidentale</i>), Saguan (<i>Tectona grandis</i>), Chakunda(<i>Senna tora</i>) etc.</p> <p>Apart from the above, fruit bearing plants saplings are being distributed to villagers, School children and Panchayat offices every year. Total 10000 nos. and 70000 nos. plant saplings have been distributed in 2023-24 and 2024-25 respectively.</p>
xxxix.	<p>A progressive afforestation plan shall be implemented covering an area of 831.97 ha at the end of mining, which includes reclaimed internal OB dump area (705.58ha) and green belt (831.970ha) and in</p>	<p>Partially Complied</p> <p>A progressive afforestation plan shall be implemented covering an area of 831.97 ha at the end of mining, which includes reclaimed internal OB dump area (705.58ha) and green belt (831.970ha) and in township located</p>	<p>The green belt has been developed within and outside the mine premises. Progressive plantation over Internal OB dumps after technical reclamation is being done in the mine. The plantation is being carried out through Odisha State Forest Department and Chhattisgarh Van Vikas Nigam Limited.</p> <p>The details of progressive plantation activities carried out inside and outside the mine lease area is as follows:</p> <ol style="list-style-type: none"> i. 98.20 Ha with total 242800 Nos of plants over Internal OB dump area has

Special Condition No.	Condition Details	Observation of IRO	Action Taken by the Project Proponent
	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 species in and around the mine and a 3-tier avenue plantation along the main approach roads to the mine.	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 species in and around the mine and a 3-tier avenue plantation along the main approach roads to the mine.	<p>been planted.</p> <p>ii. Plantation with 27000 nos. and grassing has been completed on 23.20 Ha of external OB dump</p> <p>iii. Block plantation-2.34 Ha. - 5850 nos. have been done in residential colony</p> <p>iv. Plantation around Dera village- 10 Ha./16000 Nos.</p> <p>v. Avenue plantation on 27.64 Ha. With 44224 nos. plants along approach roads, public roads and transportation roads were carried out.</p> <p>vi. Safety Zone Plantation all along the mine lease area = 7.5 Ha. =12000 Nos.</p> <p>Medicinal Garden over 3.0 Ha of internal OB dump has been developed. The medicinal garden will be converted into Mine Eco Park in 10 Ha for which 19 Crore will be expended in year 2025.</p> <p>Native species planted are Bel (<i>Aegle marmelos</i>), Karanj (<i>Millettia pinnata</i>), Krishnachuda (<i>Delonix regia</i>), Neem (<i>Azadirachta indica</i>), Amala (<i>Phyllanthus emblica</i>), Radhachuda(<i>Caesalpinia pulcherrima</i>), Kaju (<i>Anacardium occidentale</i>), Saguan (<i>Tectona grandis</i>), Chakunda(<i>Senna tora</i>) etc.</p> <p>Apart from the above, fruit bearing plants saplings are being distributed to villagers, School children and Panchayat offices every year. Total 10000 nos. and 70000 nos. plant saplings have been distributed in 2023-24 and 2024-25 respectively.</p>

19.7.5: Compliance of Ministry's OM dated 11.04.2022: Instant proposal is for capacity enhancement from 20 MTPA to 24 MTPA (i.e., 20%) as per the MoEF&CC O.M. dated 11/04/2022 under para 7(ii) (a) of EIA Notification, 2006. PP submitted the following compliance to the Ministry's OM dated 11.04.2022:

S. No.	Provision under para 7(ii)	Compliance
1.	The project should have gone through the public hearing process, at least once, for its existing EC capacity on which expansion is being sought, except those categories of projects which have been exempted as per para 7 III (i) of EIA Notification 2006 and its amendments.	Public hearing of Ananta OCP for mining lease area of 1419.821 ha was conducted on 27-07 2011 at 10:00 A.M at Jagannath Kala Kendra, Talcher, Angul district in accordance with the Ministry of Environment, Forest & Climate Change, Govt. of India, EIA Notification No. SO-1533(E) dt.14.09.2006. No additional land is required for proposed project. However, there is a reduction of 205.331 ha from 1419.821 ha mine lease area. Thus, in the total

S. No.	Provision under para 7(ii)	Compliance
		proposed mine lease area of 1214.490 ha, public hearing has been already conducted.
2.	There should not be change in Category of the project from 'B2' to 'B1' of 'A' due to proposed modernization or expansion.	There is no change in Category of the project i.e. Category A.
3.	There is no additional land acquisition or forest land diversion involved for the proposed expansion or there is no increase in lease area with regard to mining vis-à-vis the area mentioned in the EC, based on which public hearing has been held earlier.	The proposed project does not require any additional land acquisition. However, the mining lease area has been reduced from 1419.821 ha to 1214.490 ha. The project involves 334.362 ha of forest land and 880.128 ha of non-forest land, with Stage-II forest clearance already obtained for the entire forest land. The public hearing was conducted for the original lease area of 1419.821 ha.
4.	The proposed expansion shall not be more than 50% of production capacity as mentioned in the prior EC, issued on the basis of public hearing held and the same shall be allowed in minimum three phases.	The EIA/EMP is prepared for expansion up to 50% under 7 (ii) clause of EIA notification 2006 and OM. F.No. IA3-22/10/2022-IA.III[E177258] dated 11-04-22 from 20.0 MTY to 30.0 MTY. The current proposal is for 20% expansion i.e. phase I from 20.0 MTY to 24.0 MTY (20% of 20.0 MTY).
5.	Predicted environmental quality parameters arising out of proposed expansion/ modernization shall be within the prescribed norms and the same shall be maintained as per prescribed norms.	Air Quality Impact prediction has been done for the peak production of 30.0 MTY. The parameters selected for the modeling are PM10, PM2.5, SO2 and NOx. The predicted values of the above parameters are well within the permissible limits.
6.	The proposed expansion should not result in reduction in the greenbelt area as stipulated in the earlier EC, or if the existing ratio of greenbelt is more than 33%, after expansion it should not reduce below 33%.	There is no reduction in the greenbelt area as stipulated in the earlier EC. As per EC letter of 20.0MTY green belt area specified was 831.97 ha. As per proposed expansion of 30.0 MTY, Post Closure Land use / Green Belt area is of 939.39 ha. An increase of 107.42 ha thus increasing the existing ratio of green belt more than 33%.
7.	The project proponent should have satisfactorily complied the conditions stipulated in the existing EC(s) and satisfactorily fulfilled all the commitments made during the earlier public hearing/consultation proceedings and also the commitments given while granting previous expansion, as may be applicable. This shall be duly recorded in the certified compliance report issued by the IRO/CPCB/SPCB, which should not be more than one year old at the time of submission of application.	The project proponent have satisfactorily complied the conditions stipulated in the existing EC and satisfactorily fulfilled all the commitments during the earlier public hearing proceedings. IRO inspection of the project was held on 18-10-24 and the certified compliance report has been obtained vide letter dtd. 19-11-24. ATR of the CCR has also been submitted to MoEFCC.
8.	Public Consultation shall be undertaken [if applicable] by obtaining response in writing, as per para 7 III (ii) (b) of EIA	No new Public Consultation shall be undertaken as there is no additional land required in the proposed project.

S. No.	Provision under para 7(ii)	Compliance
	Notification 2006, except those categories of projects which have been exempted as per para 7 III(i) of EIA Notification 2006 and its amendments.	
9.	Effluent monitoring including air quality monitoring systems as specified in the existing EC, if stipulated, should have been installed.	<ul style="list-style-type: none"> • Routine Environment Monitoring is being carried out for the existing Ananta OCP (20.0 MTY). • For air, water and noise, the samples are being collected and tested round the year with appropriate frequency at strategic places. • In case, it is found that any of the parameters exceeds the tolerance limits then corrective measures are suggested by CMPDI to MCL for implementation. • The monitoring schedule and the environmental quality parameters for which routine environmental monitoring is being done are detailed in the EIA/EMP.

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

19.7.6: Environmental Site Settings:

The project area is covered under Survey of India Toposheet No. F45T1 & F45N4 and is bounded by the geographical coordinates ranging from 20°57'16" N and 21°00'00" N and longitudes 85°07'14" E and 85°09'09" E. 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 334.362 Ha of forest land the details of the approval already obtained are as follows:

Sl. No.	Obtained vide letter No.	Area(ha)	Stage I/II	Validity
1	F.No. 144/89 FC dt. 28/9/1990	31.02	Stage II	Life of the mine
2	F.No. 8-43/2004-FC dt.19/11/2004	62.67	Stage II	Life of the mine
3	F.No. 8-37/2015 FC dt.18/05/2018	240.672	Stage II	Life of the mine
Total		334.362		

Total broken forestland as on 05.12.2024 is 217.77 Ha and PP submitted that there is no violation of Van (Sanrakshan Evam Samvardhan) Adhiniyam, 1980.

Project Area: The project is not located within 10 KM of any ESZ/ ESA/ national park/ wildlife sanctuary/ biosphere reserve/ tiger reserve/ elephant reserve etc. PP submitted that there is Kanehijena – Anantapur Elephant Corridor at a distance of 5.27 km from ML area and Satkosia – Simlipal Tiger Corridor at a distance of 9.01 km. Schedule – I species (such as *Elephas maximus* (Asiatic Elephant), *Naja naja* (Common cobra), *Daboia russelii* (Russel Viper), *Chameleon zeylanicus* (Bahurupi), *Python molurus* (Python), *Pavo cristatus*

(Common peafowl), *Felis chaus* (Cat, Jungle), *Canis aureus* (Jackal), *Hystrix indica* (Porcupine) were observed in the Study area. Wildlife management plan has been prepared and approved by PCCF (WL) & CWLW vide m.no. 6800 dated 29.07.2017. PP further submitted that there is no violation of WLP Act.

Mine Lease Details: PP submitted the following details of ML area:

Project	CBA/ LA	Name of the Villages	Govt. Order/Notification	Total Area in acres
Ananta OCP (PH-I)	CBA	Allahad Nagar	4(1)-S0-1549 Dt-06,04.1975, 7(1)-50-532 Dt-12.11.1975, 9(1)-50-4107 Dt-20.10.1976	408.230
		Nakhtrapur(P)		163.020
		Hensmul(P)		191.580
		Balanda(P)		0.640
		Chandpur		15.450
		Purnia		6.080
	LA	Chandpur	Case No.-20/84.4(1)-05.02.85, 7(1)-07.06.86, 11(1)-11.06.87	54.090
		Kateni	11(1)-11.06.87	43.910
		Kateni	Case No.- .4(1)-01.10.91, 7(1)-06.09.94, 11(1)-31.10.94	2.720
		Hensmul	Case No.-21/87.4(1)-21.05.87, 7(1)-22.07.89, 11(1)-12.08.90	308.135
		Hensmul	Case No.-_ 4(1)-16.06.90	3.180
		Balanda(P)	-	2.975
		AllahadNagar	-	0.720
Ananta OCP (PH-II)	CBA	Allahadnagar	4(1)-50-2614 Dt-08.12.1998, 7(1)-S0-1083(E) Dt-04.12.2000, 9(1)-S0-3240 Dt-18.11.2003	135.510
		Hensmul	124.350	
	LA	Hensmul	Case No.-15/2000.4(1)-01.11.2000, 7(1)-26.12.2002, 11(1)-29.04.2003	109.235
Ananta OCP (PH-III)	CBA	Allahadnagar	4(1)/ 2637 16.09.2009, 7(1) / 3001-08.12.10, 9(1) / 1672 (E)-20.07.11, 11(1)/ 3718 (SR) 16.12.11	169.530
		Hiloi		755.800
		Ekdal		499.810
		Ajatipur		73.160
		Birarama chandrapur		164.550

Project	CBA/ LA	Name of the Villages	Govt. Order/Notification	Total Area in acres
		Rangamatia		22.590
		Kantapali		134.340
		Dinabandhupur		44.940
		Kurihan		107.710
		Raghunathpur		14.540
	CBA	Brundabanpur	4(1)/1297-19.03.2005, 7(1)/1045- 14.04.2007, 9(1)/ 2192- 08.09.2008, 11(1)/1712- 20.06.2009	105.650
GRAND TOTAL (in acres)				3662.445
GRAND TOTAL (in ha)				1482.171

The total lease area acquired was 1482.171 Ha under CBA Act 1957 and LA Act 1894. However, the EC was accorded on 1419.821 Ha vide EC letter dated 10.12.2014 and its subsequent EC amendment date 16.02.2018. The current proposal is for expansion in the production capacity from 20 MTPA to 24 MTPA in reduction in the lease area from 1419.821 Ha to 1214.49 Ha. Out of 205.331 Ha area being reduced, 80.776 Ha of forestland on which forest clearance is not accorded and 124.55 Ha of non-forest land.

19.7.7: Details of ToR: ToR has not been accorded for the instant proposal under consideration. However, the proponent has submitted the EIA/EMP report for capacity enhancement from 20 MTPA to 24 MTPA as per standard ToR of coal mining sector available on Parivesh.

19.7.8: Mine Plan and Mine Closure Plan:

- i. The Mine Plan and Mine Closure Plan of Ananta OCP for 30 MTPA (i.e., for 50% expansion) has been approved by the Board of Directors of M/s Mahanadi Coalfields Limited vide board resolution dated 11.11.2024.
- ii. Total geographical reserves are reported to be 861.11 Mt. Out of which mineable reserves are 619.8 Mt and extractable reserves are 588.81 Mt. Balance reserves as on 01.04.2024 are 299.95 Mt. Percentage of extraction is submitted to be 95%.
- iii. Total nos of seam are 19 and average thickness of seam is reported to be 73.8m.
- iv. Coal to be extracted will be of G-11 grade.
- v. Stripping ratio is 2.10.
- vi. Balance life of mine is 13 years as per approved Mine Plan and Mine Closure Plan.
- vii. Opencast method of mining is proposed.
- viii. Land use details:

a. Pre-mining land use details:

S. No.	Type of Land	Area in Ha
1.	Agricultural	255.150
2.	Forest	334.362

S. No.	Type of Land	Area in Ha
3.	Waste land	557.998
4.	Grazing	-
5.	Surface water bodies	36.740
6.	Others (Govt. land)	30.240
	Total Mining Lease Area	1214.490

b. Post-mining land use details:

S. No.	Category	Land Use (in ha)						Total
		Agricultural land	Plantation/ Temp. Grass carpeting	Water Body	Public/ Company Use	Forest Land (Returned)	Undisturbed	
1	Excavation Area	-	548.84	35.52	72.54	311.162	-	968.06
2	External Dump	-	-	-	-	23.2	-	23.20
3	Safety Zone	-	14.09	-	-	-	-	14.09
4	Diversion below River/Stream/ Canal	-	6.30	12.64	-	-	-	18.94
5	Road & Infrastructure area	-	35.8	-	54.2	-	-	90.00
6	Undisturbed/ Blasting danger zone & Others	-	-	-	73.828	-	26.37	100.20
Total Lease Area		-	605.03	48.16	200.57	334.36	26.37	1214.49

ix. **Transportation of Coal:**

- a. In – Pit: Dumper/ Tripper
- b. Surface to Siding: Tippers and by belt conveyor
- c. Siding to Loading: Silo and Pay loader

x. **Details of Reclamation:** Various activities will be implemented as per the approved progressive mine closure plan and there is no deviation from the same. Total excavated area and backfilled area as on 01.04.2024 is 631.24 Ha and 399.36 Ha respectively. As on 01.04.2024, total area technically reclaimed is 138.70 Ha and biologically reclaimed is 94.80 Ha.

Afforestation shall be done progressively covering an area of 939.39 Ha till the end of mining, which will include reclaimed external OB dump of 23.2 Ha, internal OB dump of 860 Ha (which will be reclaimed with plantation) and Greenbelt of 10.80 Ha. Density of plantation will be 2500 nos of trees per Ha. A void of 35.52 Ha with a maximum depth of 265m will be converted into water body and the depth of the same will be reduced to 40m after backfilling of OB during closure.

Also, an Ananta Medicinal Garden has been developed.

19.7.9: Baseline Date: Baseline Data was generated from 15th March 2024 to 14th June 2024:

Period	15 th March 2024 – 14 th June 2024
AAQ parameters at 10 Locations (min and max)	<p><u>Core zone:</u></p> <ul style="list-style-type: none"> ➤ PM_{2.5} = 42.0 to 66.0 µg/m³ ➤ PM₁₀ = 88.0 to 147.3 µg/m³ ➤ SO₂ = 8.3 to 20.6 µg/m³ ➤ NO_x = 8.7 to 22.7 µg/m³ ➤ CO = 0.55 to 1.09 mg/m³ <p><u>Buffer Zone:</u></p> <ul style="list-style-type: none"> ➤ PM_{2.5} = 25.5 to 51.3 µg/m³ ➤ PM₁₀ = 63.7 to 85.7 µg/m³ ➤ SO₂ = 8.0 to 21.5 µg/m³ ➤ NO_x = 7.5 to 23.8 µg/m³ ➤ CO = 0.52 to 1.05 mg/m³
Incremental GLC Level	<p><u>Core zone:</u></p> <p>PM_{2.5} = 15.21 µg/m³ Incremental & 80.01 µg/m³ absolute value. (Level 0.5 km in downwind direction)</p> <p>PM₁₀ = 40.56 µg/m³ Incremental & 187.87 µg/m³ absolute value. (Level 0.5 km in downwind direction)</p> <p>SO₂ = 10.81 µg/m³ Incremental & 31.41 µg/m³ absolute value. (Level 0.5 km in downwind direction)</p> <p>NO_x = 25.50 µg/m³ Incremental & 46.20 µg/m³ absolute value. (Level 0.5 km in downwind direction)</p> <p><u>Buffer Zone:</u></p> <p>PM_{2.5} = 1.44 µg/m³ Incremental & 52.34 µg/m³ absolute value (Level at 1.2 km in downwind, North Direction)</p> <p>PM₁₀ = 6.71 µg/m³ Incremental & 90.72 µg/m³ absolute value (Level at 5.5 km in downwind, North Direction)</p> <p>SO₂ = 11.73 µg/m³ Incremental & 31.03 µg/m³ absolute value (Level at 5.5 km in downwind, North Direction)</p> <p>NO_x = 9.83 µg/m³ Incremental & 29.33 µg/m³ absolute value (Level at 5.5 km in downwind, North Direction)</p>
Groundwater quality at 6 Locations	<p><u>Core zone:</u></p> <p>pH: 7.22 to 7.7, Total Hardness: 71.71 to 179.28 mg/l, Chlorides: 19.71 to 31.54 mg/l, Fluoride: 0.42 to 0.73 mg/l. Heavy metals 0.16 to 0.19 mg/l</p> <p><u>Buffer Zone:</u></p> <p>pH: 6.93 to 7.45, Total Hardness: 83.66 to 187.25 mg/l, Chlorides: 17.73 to 88.69 mg/l, Fluoride: 0.46 to 0.61 mg/l. Heavy metals 0.15 to 2.22 mg/l</p>

Period	15 th March 2024 – 14 th June 2024																				
Surface water quality at 8 Locations	<p><u>Core zone:</u> pH: 7.58 to 7.69; DO: 4.8 to 5.2 mg/l and BOD: 2 to 2 mg/l. COD from 24 to 32 mg/l</p> <p><u>Buffer Zone:</u> pH: 6.98 to 7.59; DO: 5.9 to 6.9 mg/l and BOD: 2 to 2.9 mg/l. COD from 24 to 56 mg/l</p>																				
Noise levels Leq (Day and Night) at 10 Locations	<p><u>Industrial area:</u> 60.20 to 67.30 for the day time and 57.30 to 62.20 for the Night time.</p> <p><u>Residential Area:</u> 34.5 to 54.10 for the day time and 26.9 to 44.3 for the Night time.</p>																				
Traffic Assessment Study Findings	<p>Traffic study has been conducted at CT Road which adjacent to the mine site. Transportation of mineral will be done 10 % by road. Existing PCU is 594.8 PCU/ hr on CT Road (NH/SH/MDR) and existing level of service (LOS) is:</p> <table border="1"> <thead> <tr> <th>Road</th> <th>V (Volume in PCU/hr.)</th> <th>C (Capacity in PCU/hr.)</th> <th>Existing V/C Ratio</th> <th>LOS</th> </tr> </thead> <tbody> <tr> <td>CT Road</td> <td>594.8</td> <td>3000</td> <td>0.2</td> <td>A</td> </tr> </tbody> </table> <p>proposed project will be 594.8 (Existing) + 325.6 (Additional) PCU/ hr and level of service (LOS) will be:</p> <p>Note:</p> <table border="1"> <thead> <tr> <th>Road</th> <th>V (Volume in PCU/hr.)</th> <th>C (Capacity in PCU/hr.)</th> <th>Existing V/C Ratio</th> <th>LOS</th> </tr> </thead> <tbody> <tr> <td>CT Road</td> <td>920.4</td> <td>3000</td> <td>0.3</td> <td>B</td> </tr> </tbody> </table> <p>Capacity as per IRC: 106 -1990 is 3000 PCUs/hr for CT (Coal Transportation) Road</p> <p>Conclusion: The level of service will very good (B) after including additional traffic due to proposed project.</p>	Road	V (Volume in PCU/hr.)	C (Capacity in PCU/hr.)	Existing V/C Ratio	LOS	CT Road	594.8	3000	0.2	A	Road	V (Volume in PCU/hr.)	C (Capacity in PCU/hr.)	Existing V/C Ratio	LOS	CT Road	920.4	3000	0.3	B
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19.7.10: Details of Water Requirement: PP submitted that the source of water will be Surface water and ground water and the permission for the same has been obtained from Angul Irrigation Division, Govt of Odisha and CGWA respectively. NoC of CGWA was valid up to 26.10.2023 and the renewal application for the same has already been submitted. However, surface water will only be used for potable purpose. Total water requirement submitted by the proponent, post expansion is 3823.09 KLD (1010.59 KLD for potable water and 2812.50 KLD for industrial use and firefighting). Out of the total water being used, 2470.09 KLD is being derived from surface water and the rest 1353 KLD is being derived from groundwater.

The Bangaru stream which flows from west to east through the central part of the block, and the same is proposed to be diverted to allow continued mining in the area. A request for permission to divert the stream was submitted to the Water Resources Department in March 2020. Subsequently, on 30.09.2020, an inspection was carried out by the Superintending

Engineer of the Irrigation Division. Following the inspection, they recommended a detailed study to support the proposed diversion. The diversion plan has been prepared and submitted to the Water Resources Department. A request has again been made by GM(Envt.&Forest), MCL vide letter no 1992 dtd 30.11.2024 to EIC(ER), Govt. of Odisha for diversion of Bangaru stream for Ananta OCP.

Further, a work order dated 14.10.2024 has been issued to National Institute of Hydrology, Roorkee for the Ecological and hydrological study of Bangaru Stream. The study for the same has initiated on 23-10-2024 by experts from NIH, Roorkee. The study shall be completed by May' 2025.

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

Sl. No.	Type of Waste	Source	Quantity (TPA)	Mode of Treatment	Disposal
1.	Domestic waste	Administrative building & residential area	467.712		MSW collection & disposal
2.	Plastic waste	Colony, Offices, Regional store, workshop	26		Waste segregation & selling to authorized recyclers
3.	e-Waste	Office buildings	0.2		Auction to recyclers authorized by SPCB
4.	Battery Waste	HEMM workshop	3		Auction to recyclers, authorized by SPCB
5.	Bio medical waste	Soiled cotton, dressings, disposed syringes, medicine	0.59		Area Dispensary
6.	Used Oil	HEMM Workshop	200		Auction to recyclers authorized by SPCB
7.	Waste/ Residues containing Oil	HEMM Workshop	280		Handed over to CHTDSF Authorized by SPCB
8.	Empty Barrels contaminated with Chemicals/ waste	HEMM Workshop	60		Auction to recyclers authorized by SPCB
9.	Sludge & Filters contaminated with Oil	HEMM Workshop	20		Handed over to CHTDSF Authorized by SPCB
10.	Rubber Wastes, Types of HEMM	HEMM Workshop & Stores	1000		Auction to recyclers authorized by SPCB

19.7.12: Details of Power Requirement and diversion of Hi-Tension/ Transmission Line:

PP submitted the total Power requirement for the project will be 7.15 MW, and there is no diversion of Hi-Tension Line/ Transmission Line proposed.

19.7.13: Details of Public Hearing: There is no fresh Public Hearing conducted, as the proposal has been submitted under clause 7(ii) of EIA Notification 2006. However, details of the Public Hearing held for EC dated 10.12.2014 are as follows:

Advertisement for Public Consultation was given in The Times of India (English daily) & Pragativadi (Odiya daily), dated 25-06-2011. Public Consultation took place on 27.07.2011 at Jagannath Kala Kendra, Talcher, Angul district, under the chairmanship of Shri. Debraj Senapati, OAS (S), Additional District Magistrate, Angul. Around 200 persons attended the Public Hearing. As per approved proceedings of PH approved by ADM, Angul, in the attendance sheet there are 31 signatures for persons attending the PH meeting. Additional one sheet having 6 signature are of the persons who have delivered their views. These 6 peoples are inclusive of the 31 signatories who attended the meeting. Major issues raised during the PH were as follows:

- The mine authority should ensure a permanent supply of drinking water to nearby villages throughout the year.
- The coal transportation road should be separated from public roads.
- The mine authority should prioritize giving employment to local people.
- Proper solid waste management should be followed, and the mine's closing procedure should be strictly adhered to.
- The mine authority should develop a green belt and avenue plantation in the area.
- Controlled blasting should be followed, and the fire in the coal yard should be controlled.
- The mine authority should follow the State Government's R&R policy impartially and allocate separate funds for the development of roads, health, education, and drinking water supply.

Compliance status of the PH action plan is as follows:

Issues Raised by the Public	Compliance Status	Expenditure till Oct'2024 (in Crore)	Proposed budget (tentative) (in Crore)	2024-25	2025-26	2026-27	2036-37
The mine authority should make permanent arrangements for supply of drinking water to nearby villages through-out the year.	Mine authority has made an arrangement for the supply of Drinking water through tankser as well as through pipeline to the villages of Hariharpur (Kaniha Block) Dumduma, Sadashivpur, Godibandha Hospital Diajharan Tentulei Bhanja Colony & Gurudwar Adibasi Nua Sahi Ekdal, sanjamunda sahi, Nayak sahi, puruna sahi, Baragharia Sahi & Hiloi.	1.28	2.27	1.00	1.00	0.27	-
The coal transportation road should be separated from public road.	The coal transportation road has been separated from public road. A dedicated concreted coal corridor road with a total length of 3.2 Km has been constructed within mine lease area and bypassing all the residential/sensitive areas for coal transportation of road sale trucks. The internal coal transportation roads and approach roads are concreted	116.39	1.15	0.30	0.38	0.47	-

Issues Raised by the Public	Compliance Status	Expenditure till Oct'2024 (in Crore)	Proposed budget (tentative) (in Crore)	2024-25	2025-26	2026-27	2036-37
	and provided with drains. Mobile fog cannons and mobile water tankers are deployed for dust suppression on roads. One Mechanical roads sweeper has been deployed on approach roads for cleaning of dust. Apart from these, Project has also developed green belt with 44224 nos plants over 27.64 Ha along the approach roads and public road. Regular maintenance of transportation and public road is being carried out.						
The mine authority should give employment to the local people on a priority basis.	The mine authority has provided direct employment to the project effected persons and local people have been provided with contractual/outsourcing employment. Out of the total 1287 persons eligible for employment 1239 have been provided employment / cash compensation in lieu of employment. Only 48 balance persons are to be provided employment.	49.56	1.92	0.64	0.64	0.64	-
The mine authority should follow proper solid waste management and the closing procedure of the mine should be strictly followed.	The project authority is adhered to the solid waste management/ method for the backfilling of OB material into mine voids and mine closure is being implemented as per the approved mining plan and mine closure plan. The internal OB dumps are being backfilled up to prescribed level followed by plantation after spreading of topsoil over technically reclaimed OB dumps.	92.98	63.43	3.58	3.76	3.95	52.14
The mine authority should go for development of green belt and avenue plantation in the area.	The project proponent have raised green belt within and outside the mine premises. The details of plantation as on Oct'2024 is as follows: <ul style="list-style-type: none"> • Internal OB dump area- 101.20 Ha/247600 Nos. • External dump- 10.80/- 27000 nos. • Block plantation- 2.34Ha./5850 nos. • Avenue plantation-27.64 Ha./ 44224 nos. 	3.21	40.03	3.00	3.53	4.00	29.50

Issues Raised by the Public	Compliance Status	Expenditure till Oct'2024 (in Crore)	Proposed budget (tentative) (in Crore)	2024-25	2025-26	2026-27	2036-37
	<ul style="list-style-type: none"> • Safety Zone Plantation= 7.5 Ha/12000Nos. • Plantation at Dera village- 10.0 Ha/ 16000 Nos • Plantation at Colony/township area- 5 Rkm/ 8000 nos <p>Species planted are Bel, karanj, krishnachuda, Neem, Amala, Rakatachandani, kaju, Saguan, chakunda, Bombo etc.</p>						
<p>The mine authority should follow controlled blasting and the fire in the coal yard should be controlled.</p>	<p>Controlled blasting using NONEL electronic detonators technology is practiced between 1pm to 2pm in day time. It is reported that using this technology, ground vibrations are minimum and fly rocks and boulders are arrested effectively. As per the information submitted by the project, it is noted that,</p> <ul style="list-style-type: none"> • Value of blast measured in PPV for the period April-24 to Sep-24 is between 1.38 mm/sec to 3.2 mm/sec. • Threshold vibration =10 PPV • Maximum reading =3.2 PPV <p>The following measure are implemented for firefighting and for prevention of fire in stock yards.</p> <ul style="list-style-type: none"> • The coal stock are maintained in dome shape • Fire tenders have been deployed • Stock yards are arranged with perforated pipelines and sprinklers along the base and sides of stockpiles connected to a high-pressure water source to ensure even water distribution. • Mobile fog cannons are deployed 	14.11	28.60	1.68	1.76	1.85	23.31
<p>The mine authority should follow the R&R policy of the</p>	<p>The PAFs are being compensated as per the R&R policy of Odisha State Govt. which is higher than the R&R policy of CIL or the national R&R policy.</p>	162.00	104.00	35.00	50.00	19.00	-

Issues Raised by the Public	Compliance Status	Expenditure till Oct'2024 (in Crore)	Proposed budget (tentative) (in Crore)	2024-25	2025-26	2026-27	2036-37
State Govt. impartially and allocate separate fund for development of roads, health, education and drinking water supply.	<p>All the PAFs have opted for self-relocation. The project affected families have been compensated with cash as per the R&R policy for those who have not opted for Employment and Plot at R&R site.</p> <p>The details of R&R status as on Oct'2024 is as follows:</p> <ul style="list-style-type: none"> • Total affected families – 2273 Nos • Eligible for displacement benefit- 1584 Nos. • Cash compensation opted- 1219 Nos. • Total PAFs opted for plot at R&R site- 365 Nos. • Eligible for employment- 1287 Nos. • Provided employment/cash compensation- 1239 Nos • Balance employment/ cash compensation to be provided -48 Nos. 						
TOTAL		439.53	241.40	45.20	61.07	30.18	104.95

19.7.14: EMP Cost: Existing capital cost of project was Rs. 815.40 Crores. The capital cost of the proposed project (including existing) is Rs 860.15 Crores and the capital cost for environmental protection measures is proposed as Rs. 44.75 Crores. The annual recurring cost towards the environmental protection measures is proposed as Rs. 16.72 Crores. The indirect employment generation from the proposed project/ expansion is around 200.

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

Sl. No.	Description of Item	Existing (In Lakh)		Proposed (In Lakh)	
		Capital Cost	Recurring Cost/annum	Capital Cost	Recurring Cost/annum
(i)	Air Pollution Control/ Noise Management	612	122	315	105
(ii)	Water Pollution Control	300	100	150	85.75
(iii)	Environmental Monitoring and	200	80	100	114

Sl. No.	Description of Item	Existing (In Lakh)		Proposed (In Lakh)	
		Capital Cost	Recurring Cost/annum	Capital Cost	Recurring Cost/annum
	Management				
(iv)	Green Belt & Plantation Development	2995	580	3910	1015
(v)	Other heads as proposed in EIA/committed during the EAC	--	300	--	352.74
TOTAL		4107	1182	4475	1672.49

19.7.15: Plantation: Existing green belt has been developed in 156.54 ha area which is about 12.88 % of the total mine lease area of 1214.49 ha with total sapling of 391350 Trees. Proposed greenbelt will be developed in 782.85 ha which is about 64.46 % of the total mine lease area. Thus total of 939.39 ha area (77.34% of total project area) will be developed as greenbelt. A 7.5 m wide greenbelt, consisting of at least 3 tiers around mine boundary will be developed as greenbelt and green cover as per CPCB/ MoEF&CC, New Delhi guidelines. Local and native species will be planted with a density of 2500 trees per hectare. Total no. of 23,42,805 saplings will be planted and nurtured in 939.39 hectares in 13 years + 3 years of post-closure.

19.7.16: Project Cost: Total Capital Cost submitted by the proponent is Rs. 860.15 crore. 2% of the average net profit of the company shall be spent towards CSR activities. Cost of implementing EMP for the proposed expansion will be Rs. 44.75 crores and Rs. 16.72 crores as capital and recurring cost respectively.

19.7.17: R&R Issues: Proposed R&R cost is Rs. 167.27 crore. R&R is under process and CIL's Policy and Orissa State Govt. Policy, Latest R&R Policy, 2006 of Govt. of Orissa are followed for this project.

19.7.18: Legal Issues/ Violation: Regional Office of the Ministry of Environment, Forests & Climate Change in Bhubaneswar has lodged a complaint with the court of SDJM in Talcher under Section 19 of the Environment (Protection) Act, 1986 (Case No. 2(C) C31/2014 dated 21st June 2014) against the collieries for exceeding production limits. The project proponent has also submitted a Board Resolution, reference no. MCL/SBP/CS/Bd-150/Ext/2013/7364 dated 24th July 2013, committing to avoid future violations. Legal Credible Action has also been taken by the State Government for the violation and same been submitted to the MoEF&CC vide letter Env-I-37/2012(Pt)21098/F&E dated 14.10.2013. Accordingly, EC for 20 MTPA was considered by the MoEF&CC and EC was granted to the project vide dated 10.12.2014. PP submitted that since then, Ananta OCP has not repeated the violation. The production was within the EC capacity.

19.7.19: Undertaking/ Affidavit: The PP vide an Affidavit dated 07.12.2024 submitted that there is no construction/ mining done at the site r the construction done with some deviation as per previous EC obtained (F. No. J-11015/397/2008-IA. II (M) dtd 10.12.2024 and amended vide EC dated 16.02.2018). In this proposal mine lease area has been limited to 1214.49 ha within which FC is available, remaining undisturbed area of blasting danger zone of 205.331 ha (out of which 80.776 Ha is forestland for which forest clearance is not obtained and rest 124.55 Ha of non-forest land) has been excluded from mine lease area. No additional land is required for this proposed project. There is no litigation on the project at Hon'ble NGT while a case had been filed by Regional Office, MOEF&CC, Bhubaneshwar in the court of SDJM (Sub Divisional Judicial Magistrate), Talcher under Sec. 19 of the Environment (Protection) Act, 1986 (Case No. 2(C) C31/2014 dated 21.05.2014) against the Ananta OCP for excess production and the same was submitted to the MoEF&CC. The case is pending at SDJM, Talcher. The Project has submitted the Board's Resolution vide letter no. MCL/SBP/CS/Bd-50/Exct/2013/7364 dated 24.07.2013 for not repeating Nation. Legal Credible Action has also been taken by the State Government for the violation and same been submitted to the MoEF&CC vide letter Env-1- 37/2012(P1) 21098/F&E dated 14.10.2013. It is to submit that since then, Ananta OCP has not repeated the violation. The production was within the EC capacity. The land has been acquired and vested in the Company by Gol & State Govt under CBA (A&D) Act 1957 and LA Act, 1894 (partly) respectively. The land is in our possession and there is no R&R issue.

The Consultant vide undertaking dated 07.12.2024 submitted that the complete EIA report of Ananta OCP Expansion, for increase in capacity from 20.0 MTY to 30.0 MTY (24.0 MTY, Phase-1) with Mine lease area of 1214.49 ha for M/s Mahanadi Coalfields Limited (Under 7(ii) Clause of EIA notification, 2006 vide OM dtd.11.04.2022) has been prepared by them. All the data submitted is factually correct to the best of our knowledge. And CMPDIL owns the content (information and data) of the above-mentioned EIA report and the content of this report has not been copied from other EIA reports.

Deliberations and Observation of the Committee:

19.7.20: The Committee noted the following:

- i. Ananta OCP originally accorded EC vide J-11015/7/86-IA dated 13.06.1991 for and area of 147 Ha having capacity 4 MTPA. Further, it accorded EC for expansion vide letter no J-11015/4/94-IA.II(M) dated 02.05.2005 (area 691.091 Ha having capacity 8 MTPA), 14.07.2006 (area 691.091 Ha having capacity 12 MTPA) and 10.12.2014 (area 1181.968 Ha having capacity 20 MTPA). Later the EC was amended vide letter J-11015/397/2008-IA.II(M) dated 16.02.2018. The amendment was made mainly by adding forestland of 237.853 Ha to the project area of 1181.968 Ha, making the project area equal to 1419.821 Ha and by making certain corrections in the topographical errors.
- ii. The instant proposal is for grant of Environment Clearance to Ananta OCP of M/s Mahanadi Coalfields Limited located at villages Hensamul, Dera, Purunia,

- Chandpur, Nakhtrapur, Ekdal, Hilloi, Rakas, Brundabanpur, Ajatipur, Rangamatia, Kurihan, Dinabandhupur, Biraramachandrapur and Kantapalli. Tehsil Talcher, District Angul of Odisha for expansion of production capacity from 20 MTPA to 24 MTPA (20%) and has applied under 7(ii)(a) of EIA Notification 2006 (as amended) Reducing the land area from 1419.821 Ha to 1214.490 Ha. The 205.331 Ha of area being reduced is the undisturbed area of blasting danger zone. Out of 205.331 Ha area being reduced, 80.776 Ha of forestland on which forest clearance is not accorded and 124.55 Ha of non-forest land.
- iii. The EAC took into consideration the project site through kml file on the Google Earth presented by the project proponent along with DSS of the project site on PARIVESH. The project does not fall in the Critically Polluted Area (CPA) and Severely Polluted Area (SPA) as per CEPI Assessment 2018.
- iv. The project is not located within 10 KM of any ESZ/ ESA/ national park/ wildlife sanctuary/ biosphere reserve/ tiger reserve/ elephant reserve etc. However, there is Kanehijena – Anantapur Elephant Corridor at a distance of 5.27 km and Satkosia – Simlipal Tiger Corridor at a distance of 9.01 km from ML area. Committee deliberated on the same and observed that in the year 2014 when EC was granted to Ananta OCP, MCL and also amended in 2018 no tiger corridor was declared by NTCA in buffer zone of Ananta OC, MCL. In Odisha there are two notified Tiger reserves namely Similipal Tiger Reserve and Satkosia Tiger Reserve. Recently in the year 2019, The National Tiger Conservation Authority along with the Wildlife Institute of India, in letter and spirit of section 38 O (1) (g) of the Wildlife (Protection) Act, 1972 have identified 32 major tiger corridors in the country and published them in a document titled “Connecting Tiger Populations for Long-term Conservation”, which are operationalized through prescriptions of a Tiger Conservation Plan mandated under section 38V of the said Act. The corridor connecting Similipal Tiger Reserve and Satkosia tiger reserve in Odisha is one of them. Since this corridor came into existence in 2019 and existing EC of Ananta OCP of 20.0 MTPA was issued by MoEF&CC in the year 2014 and amended EC in the year 2018. Therefore, for existing EC no recommendation has been obtained from NTCA. However, the proponent had sought recommendation of the above as on date through state PCCF (Wildlife) & Chief Wildlife Warden vide letter no. MCL/GM/JA/PO(AOCP)/Envr./2024-25/AC-769 dated 01.12.2024. The Committee is of the opinion that a letter from PCCF Wildlife in this regard shall be submitted.
- v. The project involves total 334.362 Ha of forest land and Stage – II forest clearance has been accorded on the same vide letters dated 28.09.1990, 19.11.2004 and 18.05.2018 for 31.02 Ha, 62.67 Ha and 240.672 Ha respectively. The total broken forestland as on 05.12.2024 is 217.77 Ha. The Committee opined that a certified distance map of the Forest Officer on the forest land being retained and the forest land being returned to the forest department shall be obtained.
- vi. Committee deliberated on the Mine Plan and Mine Closure Plan submitted by the proponent and observed Mine Plan and Mine Closure Plan of Ananta OCP for 30 MTPA (i.e., for 50% expansion) has been approved by the Board of Directors of M/s Mahanadi Coalfields Limited vide board resolution dated 11.11.2024.

- vii. Committee deliberated on the Certified Compliance Report obtained from the Regional Office vide letter no. 101-958/EPE/2053 dated 19.11.2024 in the name of M/s. Mahanadi Coalfields Limited for Ananta OCP Expansion. The Action Taken Report regarding the partially complied condition was submitted to Regional Officer MoEF&CC, Bhubaneswar vide letter no. MCL/GM/JA/PO(AOCP)/EC/2024-25/AC-731 dated 21.11.2024. Committee deliberated on the partially complied conditions observed by the proponent. Apart from the partially complied conditions, RO has also given certain other observations, wherein, it is mentioned there were incidences shale/ coal over the OB dumps catching fire and emanating smoke continuously causing a threat to the air quality in the area and R&R of approximately 150 families is yet to be completed. Committee is of the opinion that a closure report on the ATR shall be sought from RO and all the partially complied conditions and observations of RO shall be taken into cognizance in same.
- viii. Committee deliberated on the plantation activities carried out by the proponent. It is observed that existing green belt has been developed in 156.54 ha area which is about 12.88 % of the total mine lease area of 1214.49 ha with total sapling of 391350 Trees. It is also observed in the Certified Complied Report obtained from the RO that plantation is inadequately done. The Committee opined that plantation should be strengthened and plantation should also be done around SILO/ RLS being constructed. Sal and Bel plantation should be introduced and time bound action plan along with the budget shall be submitted.
- ix. The Committee deliberated on the proposed diversion of Bangaru stream which flows from west to east through the central part of the block. PP submitted that a request for permission to divert the stream was submitted to the Water Resources Department in March 2020. Subsequently, on 30.09.2020, an inspection was carried out by the Superintending Engineer of the Irrigation Division. Following the inspection, they recommended a detailed study to support the proposed diversion. The diversion plan has been prepared and submitted to the Water Resources Department. A request has again been made by GM(Envt.&Forest), MCL vide letter no 1992 dtd 30.11.2024 to EIC(ER), Govt. of Odisha for diversion of Bangaru stream for Ananta OCP. Further, a work order dated 14.10.2024 has been issued to National Institute of Hydrology, Roorkee for the Ecological and hydrological study of Bangaru Stream. The study for the same has initiated on 23-10-2024 by experts from NIH, Roorkee. PP submitted that the study shall be completed by May' 2025. Committee also opined that a bio-remediation plan in this regard should also be prepared by a reputed Government Institute.
- x. The Committee deliberated on the Ambient Air Quality of the project area. As per the presentation submitted by the proponent it is observed that the annual average concentration of PM₁₀ and PM_{2.5} in the buffer zone is high. Committee also observed that CAAQMS is yet to be commissioned. The Committee opined that the CAAQMS shall be immediately installed and data of annual average air quality of different locations of core zone and buffer zone shall be submitted. The Committee also opined that an action plan for the additional mitigation measures to be undertaken by the proponent shall be prepared and submitted.
- xi. The Committee deliberated on the quality of groundwater of the area. Committee opined that levels of Fluoride in the water shall be monitored and the report of the

same shall be submitted. No. of piezometers installed by the proponent shall be increased, 2 nos of piezometers on both upstream and downstream sides. Committee also observed that the CGWA permission for groundwater intersection has expired on 26.10.2023. Latest status of the application made for renewal shall be made. Committee also sought the data of water quality at inlet and outlet of ETP for 6 months.

- xii. Committee deliberated on the construction of Silo/ RLS under construction and suggested that the same should be commissioned by March 2025. Committee also observed that the current proposal is for expansion of EC from 20 MTPA to 24 MTPA, however, the SILO is being constructed for 20 MTPA only. Committee sought clarity on the same.
- xiii. Committee deliberated on the Carbon Sequestration Study submitted by the proponent and observed that net carbon emission is 7,61,786.30 tonnes of CO₂ from the concerned mines. The PP is required to submit the steps proposed for enhancing carbon sequestration..
- xiv. Committee deliberated on the reclamation activities undertaken by the proponent. Committee observed that a medicinal garden is developed by the proponent. Committee sought the list of species being planted there.
- xv. The presentation made by the proponent is for 30 MTPA. The Committee opined that the presentation should be made only for the expansion quantity being asked, i.e., for 24 MTPA. Accordingly the documents and presentation shall be submitted for 24 MTPA only.
- xvi. Committee also sought detailed head-wise plan for budget earmarked for EMP. There is a mis-match in the figure submitted as part of EMP
- xvii. PP shall examine restoring the existing water bodies in the post mining stage.
- xviii. In post mining details, there is an excavated area of set aside for public/ company use. PP shall clarify on this aspect and submit on the basis of a map about what is the present land use of this area.

Recommendations of the Committee:

19.7.21: In view of the foregoing and after detailed deliberations, the committee *deferred* the proposal, and sought the following additional information for further consideration of the proposal.

- i. PP shall submit a letter from DFO regarding loss of habitat in the area and mitigation measures to be followed if any as there is Kanehijena – Anantapur Elephant Corridor at a distance of 5.27 km and Satkosa – Simlipal Tiger Corridor at a distance of 9.01 km from ML area.
- ii. PP shall submit the Closure Report obtained from Regional Office for the Action

Taken on Partially Complied Condition and observations of RO made in Certified Compliance Report dated 19.11.2024.

- iii. PP shall submit a Bio-remediation Plan prepared by a reputed Government Institute for the protection of Bangaru Stream proposed to be diverted.
- iv. Project proponent shall submit a map depicting the 217.77 Ha of broken-up forest land and extent of forest land to be retained and surrendered by the proponent duly certified by the State Forest department.
- v. Carbon emissions need to be assessed and brief plan for carbon emission mitigation shall be submitted by the PP.
- vi. 1 nos of CAAQMS shall be immediately installed in buffer zone of the ML area as committed by the proponent and data of annual average air quality of different locations of core zone and buffer zone shall be submitted. An action plan for the mitigation measures to be undertaken by the proponent shall be prepared and submitted in this regard as the PM level in the AAQ is exceeding the NAAQS norms.
- vii. Status of renewal of CGWA NoC shall be submitted.
- viii. Data of water quality at inlet and outlet of ETP for 6 months shall be submitted.
- ix. SILO is being constructed for 20 MTPA and the instant proposal is for 24 MTPA. Clarity in this regard is requested to be submitted.
- x. List of medicinal species being planted in the medicinal garden developed by the proponent shall be submitted.
- xi. A time bound action plan for concurrent plantation using native species along with the budget shall be submitted.
- xii. A detailed head-wise plan for budget earmarked for EMP shall be submitted.
- xiii. PP shall examine restoring the existing water bodies in the post mining stage.
- xiv. In post mining details, there is an excavated area of set aside for public/ company use. PP shall clarify on this aspect and submit on the basis of a map about what is the present land use of this area.

Annexure - I

LIST OF PARTICIPANTS OF EAC (COAL) IN 19th MEETING HELD ON 10th & 11th DECEMBER, 2024 THROUGH HYBRID MODE

S. No.	Name & Address	Role	10.12.2024	11.12.2024
1.	Dr. Sharad Singh Negi (I.F.S. Retd.)	Chairman	Present	Present
2.	Shri Inder Pal Singh Matharu, IFS (Retd.)	Member	Present	Present
3.	Shri Lalit Kapur	Member	Present	Present
4.	Dr. Umesh Jagannathrao Kahalekar	Member	Present	Present
5.	Dr. Santosh Kumar Hampannavar	Member	Present	Present
6.	Shri Savalge Chandrasekhar	Member	Present	Present
7.	Shri K. B. Biswas	Member	Present	Present
8.	Prof. Shyam Shanker Singh	Member	Present	Present
9.	Dr. Vinod Agrawal	Member	Present	Present
10.	Dr Nazimuddin, Scientist - F	Representative of Central Pollution Control Board	Absent	Absent
11.	Shri Mahi Pal Singh, Chief Engineer	Representative of Central Electricity Authority (CEA)	Present	Present
12.	Shri Harmeet Sahaney	Representative of Indian Meteorological Department (IMD)	Absent	Absent
13.	Prof. R M Bhattacharjee	Representative of IIT/ISM Dhanbad	Present	Present
14.	Shri Sundar Ramanathan	Member Secretary	Present	Present
MOEF&CC				
1.	Dr. Rajesh Prasad Rastogi	Scientist 'D'	Present	Present

APPROVAL OF CHAIRMAN EAC

12/23/24, 1:07 PM

Re: MoM of 19th EAC (Coal) meeting held during 10th - 11th December 2024_ Request for approval please

Re: MoM of 19th EAC (Coal) meeting held during 10th - 11th December 2024_ Request for approval please

sh sharadnegi1957@gmail.com <sharadnegi1957@gmail.com>
Mon, 23 Dec 2024 12:49:56 PM +0530 +
To "RAJESH PRASAD RASTOGI" <rp.rastogi@gov.in>
Cc "Sundar Ramanathan" <r.sundar@nic.in>

Approved MoM of 19th EAC Coal as proposed
Dr S S Negi
Vice Chairman, Rural Development and Migration Commission, Uttarakhand
former Director General Forest and Special Secretary Govt of India
Address: 178 Subhash Road Dehradun
Mob 09411173194

On Mon, Dec 23, 2024 at 11:44 AM RAJESH PRASAD RASTOGI <rp.rastogi@gov.in> wrote:

...

A
Site Inspection Report
for

Pakri Barwadih Coal Mining Project (Mine Lease Area 3319.42 ha, Production Capacity 18 MTPA) located at Villages Barkagaon, Itij, Chiruadih, Urub, Chepa, Kalan, Nagri, Jugra, Sinduari, Churchu, Carahara, Sonbarsa, Pakri – Barwadih, District Hazaribagh, State Jharkhand by M/s NTPC Mining Limited.

The Ministry of Environment, Forest & Climate Change vide its order dated 18/12/2024 has constituted a sub-committee consisting of the following members to visit Pakri Barwadih Coal Mining Project (Mine Lease Area 3319.42 ha, Production Capacity 18 MTPA) located at Villages Barkagaon, Itij, Chiruadih, Urub, Chepa, Kalan, Nagri, Jugra, Sinduari, Churchu, Carahara, Sonbarsa, Pakri – Barwadih, District Hazaribagh, State Jharkhand by M/s NTPC Mining Limited to evaluate the environmental status of transportation of coal by road using the State highway and service road and submit the factual status report. Copy of Ministry's order dated 18/12/2024 is placed at **Annexure-I**.

Dr. Sharad Singh Negi, Ex. DGF&SS, MoEF&CC, New Delhi	: Chairman
Prof R M Bhattacharjee, ISM (IIT) Dhanbad	Member
Shri Mahipal Singh, Central Electricity Authority, New Delhi	: Member
Dr Rajesh P Rastogi, Scientist D, MoEF&CC, New Delhi	: Member

In compliance to the Ministry's order, the committee has inspected the mine lease area and transportation route. The Regional Executive Director (Environment) of M/s NTPC Mining Limited gave detailed presentation before the committee and informed that the Environmental Clearance No.J-11015/692/2007-IA-II(M) dated 19/05/2009, subsequent amendments, and transfer of environmental clearance dated 02/05/2024 to M/s NTPC Mining Limited have been obtained from the Ministry of Environment, Forest & Climate Change (MoEF&CC), New Delhi. The Regional Executive Director (RED) has also informed that an application has been filled on PARIVESH for seeking the extension of timeline for transportation of coal by road using State highway and the service road till 31/12/2024 and after that 13 MTPA by belt conveyor and 5 MTPA by State Highway and the service road till 31/03/2026. Further, the RED informed that 99% of the civil works, 87% of structural and electrical and mechanical works have already been completed. The RED also informed that the entire works of belt conveyor system and silo loading shall be completed by December 2024.

After the detailed presentation by the project proponent, the committee inspected the mine lease area, coal transportation route, various mitigative measures for control of the dust pollution, construction of conveyor belt, construction activities of coal handling plant, construction activities of silo, etc., present within the mine lease area. Map showing mine lease area, transportation route and other civil structures in the mine lease area is placed at **Annexure-II**.



Fig. Images of Pakri Barwadih Coal Mining Project site

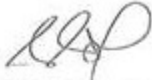
Observations and Recommendations

After inspection of the coal mine, the committee decided that

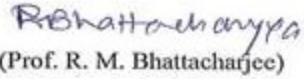
M/s NML shall address and comply the following recommendations

- i. There are sufficient spaces available at different sites in the mine lease area which needs immediate plantation. The mapping of the Pakri Barwadih mine for grassing and plantation shall be carried out on the stabilized OB and berms. The proponent is instructed to prepare time bound comprehensive plantation plan with native species for protection of the ecology of the surrounding area and post-mining ecological restoration plan. The proponent should submit the detailed plan in tabular format (year-wise for life of mine) for afforestation and green belt development in and around the mining lease area. The proponent should submit the number of saplings to be planted, area to be covered under afforestation and green belt, location of plantation, target for survival rate and budget earmarked for the afforestation & green belt development. In addition to this, the proponent 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 planned in such a way that it should be completed within 2 years only. Grassing/plantation as per the above mapping shall be started in February, 2025.
- ii. The biodiversity initiatives carried in and around the mine lease area shall be highlighted through display boards in the suitable places outside the mine lease area.
- iii. The proponent shall generate the carbon footprint data for the entire mine lease area.
- iv. The proponent shall prepare time bound comprehensive action plan for the diversion of nalla(s) from the mine lease area.
- v. The proponent shall take adequate precautionary measures as per the MoEFCC OM dated 29.10.2014 to minimize the impact of mining activity on habitations.
- vi. Comprehensive risk management plan along with mitigation measures for fire events in the coal yards/dumps shall be prepared and complied with.
- vii. The environment laboratory shall be upgraded with all sophisticated instruments.
- viii. ETP in the mine area shall be upgraded with online effluent quality monitoring system.
- ix. No any meteorological data / environmental data recording instruments have been seen at and around mining site. Only one CAAQMS has been installed in away from the core zone. More number of CAAQMS at different sites needs to be installed.
- x. Continuous Ambient Air Quality Monitoring Station (CAAQMS) to monitor ambient air quality within the mining lease area shall be installed and connected with the servers of

CPCB/SPCB. The proponent shall calibrate the instrument timely and display the monitored data on the digital board at Hop and in the EMG office for effective monitoring and corrective actions.



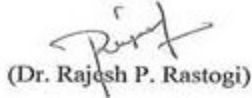
(Dr. Sharad Singh Negi)



(Prof. R. M. Bhattacharjee)



(Mahipal Singh)



(Dr. Rajesh P. Rastogi)

Annexu

No. IA-J-11013/120/2021-IA-II(M)
Government of India
Ministry of Environment, Forest & Climate Change
Impact Assessment - II Division
(Coal Mining Sector)

Indira Paravaran Bhawan,
Vayu Wing, 3rd Floor,
Jor Bagh Road, Aliganj,
New Delhi - 110 003

Dated the 18th November, 2024

OFFICE ORDER

Subject: Site Visits in respect of the (i) Proposal No. IA/JH/CMIN/475123/2024, (ii) IA/JH/CMIN/493289/2024 and (iii) IA/JH/CMIN/493281/2024 - Proposal for EC Amendment by M/s NTPC Mining Ltd. located at Pakri Barwadih, Chatti Bariatu and Kerandari Jharkhand -reg.

In the 15th and 17th EAC Meeting of the Coal Mining Sector held from 18th-19th September, 2024 and 21st-22nd October, 2024 in respect of the aforementioned proposals, the EAC Committee has recommended for site visits by the sub-committee for on spot assessment of various environmental conditions. Thereafter, the proposal shall be appraised based on the findings of the sub-committee and deliberation of EAC. The site visits proposed are under:-

- i. Pakri Barwadih, Jharkhand (Proposal No. IA/JH/CMIN/475123/2024, Agenda Item No. 15.3)
 - ii. Chatti Bariatu, Jharkhand (Proposal No. IA/JH/CMIN/493289/2024, Agenda Item No. 17.1)
 - iii. Kerandari, Jharkhand (Proposal No. IA/JH/CMIN/493281/2024, Agenda Item No. 15.6)
2. In view of acceptance of the recommendations of Expert Appraisal Committee (EAC), the Ministry hereby constitutes a Sub-Committee comprising of following Members for the scheduled site visit:
- i. Dr. Sharad Singh Negi (Chairman of EAC);
 - ii. Shri M. P. Singh (Member of EAC);
 - iii. Prof. R. M. Bhattacharjee (Member of EAC); and
 - iv. Dr. Rajesh Prasad Rastogi, Scientist 'D'.
3. In accordance with the mandate given, the Sub-Committee shall carry out a site inspection during 20th to 26th November, 2024 for the purpose as per the following travel schedule:

Page 1 of 3

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Pakri Barwadih Coal Transportation Route Map

