



सत्यमेव जयते

File No.: J-11015/280/2013-IA-II(M)
Government of India
Ministry of Environment, Forest
and Climate Change
IA Division



Dated 23/06/2025



To,

Sh. Ashok Kumar Dhal
M/s. Mahanadi Coalfields Limited
Office of the Project Officer, Bhubaneswari OCP, Jagannath Area, P. O: Dera Colliery, Dist.: Angul -
759103 (Odisha).
E-mail: bbsriocexpansion@gmail.com

Subject: Bhubaneswari Opencast Expansion Project (increase in ML area from 638.341 Ha to 658.724 Ha having the same production capacity of 30 MTPA) by M/s Mahanadi Coalfields Limited located at villages: Jilinda, Hensmul (Sharasahi), Hensmul (Talasahi), Naraharipur, Khandualbhal, Kandhal, Madanmohanpur, Langijoda and Anadipur, Tehsil Talcher Sadar, District Angul; State: Odisha – Environmental Clearance–regarding

Sir/Madam,

This is with reference to your online application vide proposal no. IA/OR/CMIN/506863/2024 dated 13.05.2025 seeking for Environmental Clearance under the provisions of EIA notification 2006 and as amended therein for the project mentioned above.

2. The particulars of the proposal are as below :

(i) EC Identification No.	EC24A0101OR5800965N
(ii) File No.	J-11015/280/2013-IA-II(M)
(iii) Clearance Type	Fresh EC
(iv) Category	A
(v) Project/Activity Included Schedule No.	1(a) Mining of minerals
(vi) Sector	Coal Mining
(vii) Name of Project	Bhubaneswari Opencast Expansion Project
(ix) Location of Project (District, State)	Angul, Odisha
(x) Issuing Authority	MoEF&CC
(xii) Applicability of General Conditions	No

3. M/s Mahanadi Coalfields Limited has made an online application vide proposal no. IA/OR/CMIN/506863/2024 dated 13.05.2025 along with copy of EIA/EMP report, CAF, Form 1 and certified compliance report seeking Environment

Clearance (EC) under the provisions of the EIA Notification, 2006 for the project mentioned above.

4. The proposed project activity is listed at item no. 1(a) – Mining of minerals under Category “A” of the schedule of the EIA Notification, 2006 and appraised at Central Level. The project does not attracts General Condition as specified in the Schedule of the EIA Notification, 2006.

5. The instant Proposal was considered in 26th EAC meeting held on 26th May, 2025. The MoM for the same may be seen using the web link: parivesh.nic.in.

Details submitted by the project proponent

6. Bhubaneswari Opencast Expansion Project within the ML area of 658.724 Ha having production capacity of 30 MTPA of M/s Mahanadi Coalfields Limited is located in villages: Jilinda, Hensmul (Sharasahi), Hensmul (Talasahi), Naraharipur, Khandualbhal, Kandhal, Madanmohanpur, Langijoda and Anadipur, Tehsil Talcher Sadar, District Angul; State: Odisha.

Details of previous approvals in chronological order: PP submitted the following details of the previous approvals:

S. No.	Details of Letter No.	EC/Expansion EC/Amendment in EC/Validity extension/Transfer of EC	Capacity (MTPA)	ML Area in (ha)	Date of issuance	Status of implementation
1.	J-11015/45/96-IA.II(M)	EIA notification, 1994	10.0	638.341	06-06-2003	Implemented
2.	J-11015/128/2007-IA.II(M)	EIA notification, 2006	20.0	658.724	30-11-2012	Implemented
3.	J-11015/280/2013-IA.II(M)	Under 7 (ii) clause of EIA notification, 2006 (expansion of 25% production capacity)	25.0	638.341	19-02-2014	Implemented
4.	J-11015/280/2013-IA-II(M)	Under 7 (ii) clause of EIA notification, 2006 (expansion of 40% production capacity as Ministry's OM dated 15.09.2017)	28.0	638.341	16-02-2018	Implemented
5.	J-11015/280/2013-IA-II(M)	Clarification for continuance of the project	28.0	638.341	18-03-2019	Implemented
6.	J-11015/280/2013-IA-II(M)	Amendment in EC	28.0	638.341	02-05-2022	Implemented
7.	J-11015/159/2015-IA-II(M)	Regularization EC under OM vide no.F.No.IA3-22/10/2022-IA.III, dated 07.05.2022	30.0	638.341	10-11-2023	Being implemented

7. **Production details of the existing EC:** W.r.t. the previous approvals, project proponent submitted the actual production details of the concerned mine and submitted that the mine became operational from 2007-08 onwards. CTO renewal has been obtained from the SPCB vide letter no. 6774/IND-I-CON-4829 and is valid up to 31-03-2026. Details of the same are as follows:

Year	EC sanctioned capacity (MTPA)	Actual Production (MTPA)	Excess production beyond the EC sanctioned capacity
2007-08	10.00	0.20	-
2008-09	10.00	1.84	-
2009-10	10.00	4.00	-

Year	EC sanctioned capacity (MTPA)	Actual Production (MTPA)	Excess production beyond the EC sanctioned capacity
2010-11	10.00	3.27	-
2011-12	10.00	7.11	-
2012-13	20.00	17.93	-
2013-14	25.00	24.44	-
2014-15	25.00	25.00	-
2015-16	25.00	25.00	-
2016-17	25.00	25.00	-
2017-18	28.00	26.25	-
2018-19	28.00	28.00	-
2019-20	28.00	28.00	-
2020-21	28.00	28.00	-
2021-22	28.00	28.00	-
2022-23	30.00	30.00	-
2023-24	30.00	24.24	-
2024-25	30.00	17.64	-

8. **Certified Compliance Report:** The project was inspected by the Regional Office, MoEF&CC, Bhubaneswar on 19.03.2025 and CCR was issued vide letter no. 101-1026/21/EPE/260 dated 05.05.2025 in respect of Bhubaneswari OCP of Mahanadi Coalfields Ltd. The action taken report with respect to the issued CCR was submitted to Regional officer MoEF&CC by the project proponent vide letter No. P.O BBSRI OCP/Env/EC/2025/3347, dated 13.05.2025.

9. **Environmental Site Settings:**

The ML area is covered under Survey of India Topo sheet No: F45T1 on R.F 1:50000 and Special Topo sheet Nos. D1, D2, E1& E2 on R.F 1:10000 and is bounded by the geographical coordinates ranging from 20°57'53.53"N to 20°59'16.83"N to 85°08'27.17"E to 85°11'6.29"E.

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

Forest Area: The project involves total forestland of 132.904 ha. The details of forest land approval already obtained or applied for is as follows:

S. No.	Obtained vide letter no.	Area (ha)	Stage I/II	Validity
1.	8- 18/2002/89-FC dated 17.10.2002	112.521	Stage I	Life of the Mine
2.	8- 18/2002/89-FC dated 06.12.2004		Stage II	
3.	8-18/2002-FC(vol)-I/82877/2024 'in-principle' (stage- I) approval for the diversion of 26.416 ha* (originally proposed for 20.383 ha) of forest land on dated 24/09/2024 for mining operation at Bhubaneswari expansion OCP within Mining Lease area over 658.724 ha.	20.383	Stage I	2 Years
Total Forest land		132.904		

Total broken forestland as on date is 112.521 ha and there is no violation of Van (Sanrakshan Evam Samvardhan) Adhiniyam, 1980.

**The project has applied vide application FP/OR/MIN/155017/2022 dated 30.04.2022 to MoEF&CC for inclusion of the remaining 20.383 Ha for grant of FC. The diversion approval was obtained for the safety zone i.e. 6.033 Ha lying outside the mines lease area of Bhubaneswari OCP in addition to 20.383 Ha in the stage I FC letter obtained vide dated 24.09.2024. As per para 4.7 of guidelines issued under the then Forest (Conservation) Act,1980 {now, Van (Sanrakshan Evam Samvardhan) Adhiniyam, 1980} inter-alia provided that 7.5 meters strip all along the outer boundary of the mining lease area shall be maintained as safety zone area. Accordingly, 6.033 Ha safety zone was made all along the outer boundary of the mining lease area of Bhubaneswari OCP.*

Protected Area: The project is not located within 10 KM of any ESZ/ ESA/ national park/ wildlife sanctuary/ biosphere reserve/ tiger reserve/ elephant reserve/tiger corridor etc. However, there is Kanehijena-Anantapur Elephant corridor at a distance of 7.87 km from the ML area. There are a total of 12 Schedule I species [namely Felis chaus (Jungle cat), Vulpes bengalensis (Indian fox), Canis aureus (Indian Jackal), and Daboia russelii (Russell Viper), Elephas maximus (Asiatic Elephant), Hystrix indica (Indian Porcupine), Cervus unicolor (Sambhar), Naja naja (Indian Cobra), Ophiophagus hannah (King Cobra), Ptyas mucosus (Rat Snake), Chamaeleo Zeylanicus (Chameleon), Pavo cristatus (Peacock)] observed in the study area. The Site-Specific Wildlife Conservation Plan for the Bhubaneswari OCP, with a financial allocation of Rs. 1525.14 lakh, has been approved by the Principal Chief Conservator of Forests, Wildlife & Chief Wildlife Warden Odisha, vide Letter No. 2980 dated 06.03.2025.

Mine Lease Details: PP submitted the following details of the mine lease:

Project	CBA/ LA	Name of the Village	Date of Notifications under CBA (A&D) Act, 1957	Total (Ha)	Remarks
Bhubaneswari OCP	CBA	Hensmul(P)	4(1) / 15.04.96, 7(1) / 19.10.96, 9(1) / 05.09.97, 11(1)/13.07.98	207.15	The instant project involves only 658.724 Ha of the total land acquired under CBA (A&D) Act, 1957. Remaining 29.726 ha is tenancy & Govt non-forest only not taken into lease area considering geotechnical assessment & surface constraints.
		Jilinda		260.62	
		Khandualbahal		37.51	
		Naraharipur(P)		133.73	
		Langijoda(P)		13.66	
		Anadipur		8.77	
		Kandhal(P)		19.74	
		Madanmohanpur(P)		7.27	
		CBA Total		688.45	
Area involved in the instant project				658.724 Ha	

Other Sensitive Receptors: PP submitted the following details of the sensitive receptors within 5 km of the ML area:

Project site proximity to sensitive area	Distance in km (within 5 km from the ML area)			
	S. No.	Village	Distance in km	Direction (w.r.t to mine boundary)
i. Habitation		Arakapal	1.1	North
	2	Madanmohanpur	1.5	East
	3	Dera township	1.5	South
	4	Balunga	2.2	East
	5	Padmabatipur	2.5	West
	6	Handidua	3.5	South
	7	Jambubahli	4.8	South West
ii. School		School	Distance in km	Direction (w.r.t to mine boundary)
		Kandhal School	1.45	North East
	2	Ekdal U.P School	1.6	North west
	3	DAV public school Jagnanth	3.5	South
	4	Govt ITI Talcher	4.5	North East
iii. River/ Waterbody		Name of the Water Bodies	Distance in km	Direction (w.r.t to mine boundary)
	1	Bangaru Stream	Adjacent to mine	North

Project site proximity to sensitive area	Distance in km (within 5 km from the ML area)			
	S. No.	Name of Forest	Distance in (km)	Direction (w.r.t to mine boundary)
iv. Forest		Rakas RF	Adjacent	West
		Kandhal RF	1.50	North East
		Paturia RF	2.85	North East
		Petachira RF	2.50	East
		Kahnejena RF	5.30	North
		Makundanali RF	0.60	South
		Dera RF	1.00	South
		Kauchiakhohol	3.00	South
		Baistambaragarhi	3.00	South
		Gengutia RF	2.25	South East
v. Archaeological Survey of India (ASI) protected site	No			
vi. Any other	No			

Protection measures:

- Distribution of saplings to the local villages will be promoted for enhancing green cover around these villages with incentives in consultation with the Project Management.
- Dense plantations of native species will be established around the school and between the mine and the school to act as dust and noise barriers, in conjunction with the effective implementation of control measures such as fog cannons, mechanical road sweepers, and mist-type mobile water sprinklers.
- Proper embankment, along with riparian plantation, shall be provided for Bangaru Stream.

10. Details of ToR:

Date of Application	Consideration	Details	Date of Accord	ToR Validity
04.12.2023	5 th EAC held on 21-22 December, 2023	No: F. No. J-11015/280/2013-IA. II (M),	12.03.2024	4 years

11. Method of Mining and Mine Plan: The Mine Plan and the Mine Closure Plan for the Bhubaneswari OCP (production capacity 30 MTPA within the ML area of 658.724 Ha) was approved by the board of MCL on 14.05.2022 and further corrigendum for the same was issued vide letter dated 23.09.2023. Pertaining safety zone as per forest clearance, wherein it has been mentioned that “6.033 Ha which was kept as safety zone outside mine lease will be taken under Quarry Excavation in future expansion project”.

- The method of mining proposed is opencast mining by Shovel – Dumper in OB/ parting and surface miner-pay- loader – tipper in coal.
- Total geological reserve reported are 465.73 MT, out of which mineable reserves are 396.52 MT and extractable reserves are 374.26 MT (balance extractable reserves as on 01.04.2025 is 52.58 MT). Percentage of extraction is 80.36%.
- There are total 13 nos of seams with thickness ranging from 3.12 m to 49.61 m.
- Average grade of coal is G -12 and the stripping ratio is 1.50.
- Life of mine is 5 years as per the approved mine plan and mine closure plan (as on 01.04.2022).
- Top soil management:
 - Quantity of top soil to be generated: 0.34 Mm³
 - Storage of top soil: The top soil generated will be temporarily stored and concurrently spread over backfilled area.
 - Handling/ Utilization of top soil: To be spread over backfilled area
 - Number of top soil dumps: 1

vii. Waste/ OB Management:

a. Dump details:

Details	Internal Dumps (over backfilled area)		OB Dump (within ML area)		Remarks
	No.	Quantity of Waste/OB (Mm ³)	Nos.	Quantity of Waste/OB stored (Mm ³)	Whether OB dump is outside mine lease area
Existing	1	194.80*	0	0	No
Proposed		83.17	0	0	No
Total	1	277.97	0	0	No

b. Specification of each dump:

Dump No.	Area in ha	Height in m	Quantity Mm ³	Type (Internal/OB dump within ML area)
1	339.488	45	277.97	Internal (over backfilled area)

c. Utilization potential of wastes/ Rejects: Entire OB generated will be utilized within Mine lease area. Internal dump (over backfilled area): 186.42 Mm³. There is no OB dumping outside ML area, all the OB will be backfilled internally within ML area.

viii. Details of land use pattern:

A. Pre mining land use pattern:

S. No	Type of Land	Within ML Area (Ha)	Outside ML Area (Ha)	Total Area (Ha)
a)	Agricultural	445.030	Nil	445.030
b)	Forest	132.904	Nil	132.904
c)	Barren	Nil	Nil	Nil
d)	Grazing	Nil	Nil	Nil
e)	Water bodies	Nil	Nil	Nil
f)	Roads	Nil	Nil	Nil
g)	Community/Other use	80.790	Nil	80.790
	Total	658.724	Nil	658.724

B. Post mining land use pattern:

S. No.	Category	Total Area (Ha)	Reclaimed Area (Ha)	Un- Reclaimed Area (Ha)
1	Excavation/Quarry Area	614.107	339.488	274.61
	(a) Backfilled Area	339.488	339.488	0.000
	(b) Excavated Void	266.013	0.000	266.013
	(c) Public/company use	8.606	0.000	8.606
2	External Dump	0.000	0.000	0.000
3	Safety Zone	6.778	6.778	0.000
4	Road & Infrastructure	15.319	6.713	8.606
5	Embankment	12.520	12.520	0.000
6	Green Belt	10.000	10.000	0.000
	Total ML Area	658.724	375.499	283.225

ix. Details of transportation:

- In-pit to surface: Through Dumper/ Tipper by haul roads of 1-2 Km.
- Surface to siding: Through Tippers and belt conveyor of 1.5 to 2 Km (approx.) towards siding.
- Siding to loading: Silo and Pay loader into the wagons
- Quantity being transported by Road/Rail/conveyer/ropeway:

Existing: 30 MTPA For existing Bhubaneswari OCP out of 30.0 MTPA, 26.0 MTPA coal is being dispatched through rail and remaining 4.0 MTPA is being dispatched through road (till December 2025)

Total transport through Rail: 86.67%

Total transport through Road: 13.33%

Proposed: 30 MTPA (January 2026 onwards)

a) 22.0 MTPA: Through pipe conveyor and SILO to rail

b) 5.0 MTPA: Dispatched through rail by Siding

c) 3.0 MTPA: Through pipe conveyor and loading to trucks by automatic truck loading system (ATLS) for local consumers

Total transport through Rail: 90.00%

Total transport through Road: 10.00%

x. **Details of reclamation:** Afforestation shall be done progressively covering an area of 375.499 ha at the end of mining. This will include internal dump of 339.488 Ha, Greenbelt for 10 Ha and 26.011 Ha inside the ML area including safety zone, infrastructure, road and embankment. Density of plantation shall be 2500 nos of plants per Ha. A void of 31.75 Ha will be converted into waterbody with 215 m depth.

12. **Baseline Data:** The baseline study generation for this project has been conducted from Oct-Dec 2022 (post monsoon season). Details of the same are as follows:

Period: Oct-Dec 2022 (Post Monsoon)	Details
AAQ parameters at 10 Locations (min and max)	<p>Air quality: Number of sampling location monitored: 10 (2 core zone and 8 in buffer zone)</p> <p>Core zone: PM2.5 = 35.10 to 77.70 µg/m³ PM10 = 74.60 to 139.60 µg/m³ SO₂ = 16.00 to 31.70 µg/m³ NO_x = 19.50 to 36.00 µg/m³ CO = 0.29 mg/m³ to 0.45 mg/m³</p> <p>Buffer Zone: PM2.5 = 21.40 to 45.80 µg/m³ PM10 = 46.40 to 88.90 µg/m³ SO₂ = 5.90 to 26.60 µg/m³ NO_x = 9.50 to 27.80 µg/m³ CO = 0.18mg/m³ to 0.38 mg/m³</p>
Incremental GLC Level	<p>Core zone: Incremental Values: PM2.5 = 16.23 µg/m³ (at 0.5 km) PM10 = 65.79 µg/m³ (at 0.5 km) NO_x = 22.88 µg/m³(at 0.5 km) SO₂ = 34.29 µg/m³(at 0.5 km) Cumulative Values: PM2.5 = 93.93 µg/m³ (at 0.5 km) PM10 = 205.39 µg/m³ (at 0.5 km) NO_x = 58.88 µg/m³(at 0.5 km) SO₂ = 65.99 µg/m³(at 0.5 km)</p> <p>Buffer Zone:</p>

Period: Oct-Dec 2022 (Post Monsoon)	Details
	<p>Incremental Values: PM2.5 = 0.14 µg/m³ (at 7.88 km in SE direction) PM10 = 2.62 µg/m³ (at 6.81 km in SW direction) NO_x = 0.35 µg/m³ (at 7.88 km in SE direction) SO₂ = 4.85 µg/m³(at 6.81km in SW direction) Cumulative Values: PM 2.5= 45.94 µg/m³ (at 7.88 km in SE direction) PM 10= 90.32 µg/m³ (at 6.81 km in SW direction) NO_x=28.15 µg/m³(at 7.88 km in SE direction) SO₂=27.25 µg/m³(at 6.81km in SW direction)</p>
Groundwater quality at 4 Locations	<p>Buffer Zone: Chlorides: 27.99 to 83.97 mg/l Flouride: BQL (0.1 mg/l) pH: 6.81 to 7.15 Total Dissolved Solids: 146 to 469 mg/l Total Hardness: 82 to 270 mg/l TSS: BQL (5mg/l) Calcium: 12.83 to 15.23 mg/l Heavy metals: Arsenic: BQL (QL:0.005 mg/l) Cadmium: BQL (QL: 0.002 mg/l) Boron: BQL (QL:.0.05 mg/l) Iron:0.05 to 0.10 mg/l Copper: BQL (QL:0.02 mg/l) Lead: BQL (QL: 0.005 mg/l) Total Chromium: BQL (QL: 0.1 mg/l) Manganese:0.10 to 0.11 mg/l Mercury: BQL (QL: 0.0005 mg/l) Selenium: BQL (QL: 0.005 mg/l) Zinc (QL 0.02 mg/l) to 1.16 mg/l</p> <p>Core Zone Chlorides: 53.98 to 79.98 mg/l Flouride: BQL (0.1 mg/l) pH: 6.85 to 6.89 Total Dissolved Solids:153 to 506 mg/l Total Hardness: 88 to 264 mg/l TSS: BQL (5 mg/l) Calcium: 20.84 to 82.56 mg/l</p> <p>Heavy metals: Arsenic: BQL (QL:0.005 mg/l) Cadmium: BQL (QL: 0.002 mg/l) Boron: BQL (QL:.0.05 mg/l) Iron:0.12 to 0.17 mg/l Copper: BQL (QL:0.02 mg/l) Lead: BQL (QL: 0.005 mg/l) Total Chromium: BQL (QL: 0.1 mg/l) Manganese (QL:0.05mg/l) to 0.2 mg/l Mercury: BQL (QL: 0.0005 mg/l) Selenium: BQL (QL: 0.005 mg/l) Zinc 0.04 to 0.82 mg/l</p>
Surface water quality at 5	Buffer zone :

Period: Oct-Dec 2022 (Post Monsoon)	Details																																				
Locations	<p>BOD: 2 mg/l DO: 7.2 to 7.8 mg/l Chlorides: 14.50 to 22.99 mg/l Fluoride: BQL (QL:0.1 mg/l) pH: 6.88 to 7.62 TDS: 91 to 169 mg/l Total Hardness: 46 to 80 mg/l TSS: 7.5 to 15 mg/l Total Coliform: 11 to 13 MPN/100 ml Nitrate : 3.37 to 3.85 mg/l COD: BQL (QL:5 mg/l) Heavy Metals: Arsenic: BQL (QL:0.005 mg/l) Cadmium: BQL (QL: 0.002 mg/l) Boron: BQL (QL:.0.05 mg/l) Iron:0.12 to 0.39 mg/l Copper: BQL (QL:0.02 mg/l) Lead: BQL (QL: 0.005 mg/l) Total Chromium: BQL (QL: 0.1 mg/l) Manganese: BQL (QL: 0.05 mg/l) Mercury: BQL (QL: 0.0005 mg/l) Selenium: BQL (QL: 0.005 mg/l) Core zone : BOD: 2.2 to 2.8 mg/l DO: 7.1 to 7.5 mg/l Chlorides: 97.97 to 101.97 mg/l Fluoride: BQL (QL:0.1 mg/l) pH: 7.38 to 7.67 TDS: 555 to 581mg/l Total Hardness: 242 to 272 mg/l TSS: 19 to 26.4 mg/l Total Coliform: 25 to 39 mg/l Nitrate: 6.54 to 7.69 mg/l COD: 15 to 20 mg/l Heavy metals: Arsenic: BQL (QL:0.005 mg/l) Cadmium: BQL (QL: 0.002 mg/l) Boron: BQL (QL:.0.05 mg/l) Iron:0.12 to 0.39 mg/l Copper: BQL (QL:0.02 mg/l) Lead: BQL (QL: 0.005 mg/l) Total Chromium: BQL (QL: 0.1 mg/l) Manganese:0.10 to 0.11 mg/l Mercury: BQL (QL: 0.0005 mg/l) Selenium: BQL (QL: 0.05 mg/l)</p>																																				
Noise levels Leq (Day and Night)	<table border="1"> <thead> <tr> <th colspan="6">Core Zone:</th> </tr> <tr> <th>Monitoring Location</th> <th colspan="4">Observed Noise Level [dB(A)]</th> <th colspan="2">Prescribed Standard [dB(A)]</th> </tr> <tr> <th rowspan="2">Category</th> <th colspan="2">Day Time Level</th> <th colspan="2">Night Time Level</th> <th rowspan="2">Day Time Level</th> <th rowspan="2">Night Time Level</th> </tr> <tr> <th>From</th> <th>To</th> <th>From</th> <th>To</th> </tr> </thead> <tbody> <tr> <td>Industrial area</td> <td>46.80</td> <td>71.20</td> <td>33.40</td> <td>57.60</td> <td>75</td> <td>70</td> </tr> </tbody> </table>						Core Zone:						Monitoring Location	Observed Noise Level [dB(A)]				Prescribed Standard [dB(A)]		Category	Day Time Level		Night Time Level		Day Time Level	Night Time Level	From	To	From	To	Industrial area	46.80	71.20	33.40	57.60	75	70
Core Zone:																																					
Monitoring Location	Observed Noise Level [dB(A)]				Prescribed Standard [dB(A)]																																
Category	Day Time Level		Night Time Level		Day Time Level	Night Time Level																															
	From	To	From	To																																	
Industrial area	46.80	71.20	33.40	57.60	75	70																															

Period: Oct-Dec 2022 (Post Monsoon)	Details																														
	Buffer zone:																														
	Monitoring Location	Observed Noise Level [dB(A)]				Prescribed Standard [dB(A)]																									
	Category	Day Time Level		Night Time Level		Day Time Level	Night Time Level																								
		From	To	From	To																										
Residential area	46.70	50.50	33.60	42.50	55	45																									
Traffic assessment study findings	<p>Traffic study has been conducted at CT Road which adjacent to the mine site. Currently 13.33 % of mineral is being transported by road. Existing PCU is 953.8 PCU/hr on CT Road and existing level of service (LOS) is:</p> <table border="1"> <thead> <tr> <th>Road</th> <th>V (Volume in PCU/hr.)</th> <th>C (Capacity in PCU/hr.)</th> <th>Existing Ratio</th> <th>V/C</th> <th>LOS</th> </tr> </thead> <tbody> <tr> <td>CT Road</td> <td>953.8</td> <td>3000</td> <td>0.32</td> <td></td> <td>B</td> </tr> </tbody> </table> <p>In proposed expansion only 10% of mineral will be transported by road. PCU load after proposed expansion will be 953.8 (Existing) - 37 (reduction) PCU/hr and level of service (LOS) will be:</p> <table border="1"> <thead> <tr> <th>Road</th> <th>V (Volume in PCU/hr.)</th> <th>C (Capacity in PCU/hr.)</th> <th>Existing Ratio</th> <th>V/C</th> <th>LOS</th> </tr> </thead> <tbody> <tr> <td>CT Road</td> <td>916.8</td> <td>3000</td> <td>0.31</td> <td></td> <td>B</td> </tr> </tbody> </table> <p>Note: Capacity as per IRC: 106 -1990 is 3000 PCUs/hr for CT (Coal Transportation) Road Conclusion: The level of service will remain very good (B) after reduction in traffic due to proposed expansion project in which there is no enhancement in its capacity, only area is being enhanced.</p>							Road	V (Volume in PCU/hr.)	C (Capacity in PCU/hr.)	Existing Ratio	V/C	LOS	CT Road	953.8	3000	0.32		B	Road	V (Volume in PCU/hr.)	C (Capacity in PCU/hr.)	Existing Ratio	V/C	LOS	CT Road	916.8	3000	0.31		B
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Flora and fauna	<p>In accordance with the Wildlife (Protection) Amendment Act of 2022 (WPA 2022), there are a total of 12 Schedule I species observed in the study area [namely Felis chaus (Jungle cat), Vulpes bengalensis (Indian fox), Canis aureus (Indian Jackal), and Daboia russelii (Russell Viper), Elephas maximus (Asiatic Elephant), Hystrix indica (Indian Porcupine), Cervus unicolor (Sambhar), Naja naja (Indian Cobra), Ophiophagus hannah (King Cobra), Ptyas mucosus (Rat Snake), Chamaeleo Zeylanicus (Chameleon), Pavo cristatus (Peacock)] The Site-Specific Wildlife Conservation Plan for the Bhubaneswari OCP, with a financial allocation of Rs. 1525.14 lakh, has been approved by the Principal Chief Conservator of Forests, Wildlife & Chief Wildlife Warden Odisha, vide Letter No. 2980 dated 06.03.2025.</p>																														
Water Requirement	<p>Water Requirement: 5516 KLD (4566 KLD for Industrial use while 950 KLD for Potable use). Surface Water: Brahmani River through the integrated water supply scheme (I.W.S.S) of Talcher coalfield (NOC (For surface water): Surface Water Agreement with Angul Irrigation Division, Govt. of Odisha. This water will used for potable purpose) Ground Water: Industrial water demand is being met from the mine water of the project. (NOC (Ground Water): Further project had renewed NOC for ground water abstraction granted by CGWA vide NOC No: CGWA/NOC/MIN/REN/1/2024/10151, which is valid up to 15/12/2026) 1194 KLD will be obtained from mine seepage, which will be used for industrial purposes. 22 KLD of freshwater is obtained from borewell, 3372 KLD is obtained from rainwater and surface runoff stored in mine sump area. While 928 KLD is obtained from Brahmani River. Ground Water Intersection: 7.10 to 9.30 mbgl</p>																														

13. Details of water requirement: The total water required for the said project is 5516 KLD (4566 KLD for Industrial use, while 950 KLD for Potable use). The same will be sourced from Brahmani River through the integrated water supply scheme (I.W.S.S) of Talcher coalfield (NoC for surface water has been obtained from Angul Irrigation Division, Govt. of Odisha), borewell, mine seepage, rainwater and surface runoff stored in mine sump area. For potable use, the entire 928

KLD being obtained from the Brahmani River and 22 KLD of freshwater being obtained from the borewell shall be used. Remaining 1194 KLD shall be obtained from mine seepage (NOC for the same has been accorded by CGWA vide NOC No: CGWA/NOC/MIN/REN/1/2024/10151, which is valid up to 15/12/2026) and 3372 KLD shall be obtained from rainwater and surface runoff stored in mine sump area. This shall be used for industrial purpose.

14. Public Consultation/ Hearing:

i. PP submitted that the Public hearing for the Bhubaneswari Opencast Project in an area of 658.724 Ha (which includes 20.383 ha of Forest Land) was conducted at Jagannath Kalakendra, MCL, Jagannath area on 10.02.2009.

ii. However, the EC was later accorded for 638.341 Ha of ML area vide letter dated 19.02.2014.

iii. The instant proposal is for increase in ML area from 638.341 Ha to 658.724 Ha, including the 20.383 Ha of forestland, keeping the production capacity same (i.e. 30 MTPA).

iv. Taking this into cognizance, the EAC accorded ToR to the PP for the expansion project with increase in lease area keeping the production capacity same. As per Para 5 of ToR accorded in March 2023, the EAC “recommended the proposal for grant of Terms of Reference to Bhubaneswari OCP for increase in Mine lease area from 638.341 Ha to 658.724 Ha [638.341ha+20.383ha (forest area)] keeping existing production capacity 30 MTPA by M/s Mahanadi Coalfields Ltd. with public consultation by inviting written objection/suggestion of public with the additional ToR.”

v. Accordingly PP has submitted the details of Public Hearing held on 10.02.2009 and Public Consultation done through written submissions by giving the advertisement on 07.05.2024, along with the comprehensive action plan for the same.

A) Public Hearing	
Details of advertisement given	08.01.2009, (advertisement given in Pragatibadi (Odia language) & The Statesman (in English language))
Date of public hearing	10.02.2009
Venue	Jagannath Kalakendra MCL
Presiding Officer	Addl. District Magistrate
Number of Person Attended Hearing	18 nos.
Number of representations received in writing from the district and outside of district, please give details:	Nil
Major issues raised	Control of pollution, Employment, blasting, plantation in the OB dump, water sprinkling in peripheral roads and drinking water issues were raised only. Action Plan taken has been provided in section 8.7 of EIA/EMP
B) Public Consultation	
Details of advertisement given	07.05.2024 (advertisement given in The Samaja (Odia language) & The New Indian Express (in English language))
Number of representations received in writing from the district and outside of district, please give details:	1 no.
Major issues raised	R&R, Support for agriculture practice in peripheral villages, protection plan for flora fauna & wild animals, Health plan & hearing health of mining workers as well as inhabitants within the buffer zones.

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

SN	Issues	Present Compliance Status	Expenditure incurred till date (in Cr.) (March 2025)	Proposed /estimated expenditure (Rs. in Cr.)			Physical Targets
				25-26	26-27	27-28	
1	Village ponds are filled up by coal dust. Suitable measures are to be taken.	Suitable measures are being taken periodically such as dilution with bleaching powder, alum, cleaning with backhoe contractually.	0.985	0.05	0.05	0.05	To ensure sustained water quality and hygiene, annual cleaning and maintenance shall be carried out for 8 nos. in villages - Khandal, Anadipur, Balunga Khamar & Dublin which includes dilution with bleaching, alum, cleaning etc.
2	Blasting	Coal is being excavated by eco-friendly Surface Miner & blasting is practicing for OB only. Controlled blasting by delay detonators with Nonel is being practiced and ground vibration is monitored by Blast-met with proper maintenance of records.	1.04	(Scientific studies for blasting effects have been conducted)			Controlled blasting by delay detonators with Nonel is being practiced and ground vibration is monitored by Blast-met with proper maintenance of records.
3	Supply of drinking water	Supply of drinking water by mobile water tankers is providing to nearby villages, i.e. Hensmul, Naraharipur, Maharanasahi, Saharasahi etc., throughout the year.	12.81	2.00	2.50	3.00	MCL shall ensure continuous year-round supply of drinking water to nearby villages (Hensmul, Naraharipur, Maharanasahi, Saharsahi, etc.) through mobile water tankers
4	Control of Pollution	16 nos. of mobile water tanker sprinklers having capacity ranging from 12 to 28 KL.	13.7	0.72	0.72	0.72	Already provided and regular maintenance of machines and dust control units will be taken to ensure the proper working of machines for dust suppression.
		03 nos. of Volvo 28 KL Mist sprinklers	3.60	0.10	0.12	0.14	
		25 nos. of fixed sprinklers in siding no. 1 & 2	1.00	0.04	0.06	0.05	
		02 nos. of instant shower systems at mine gates.	0.05	0.02	0.04	0.04	
		01 Wheel washing unit.	0.21	0.03	0.25	0.03	
		03 nos. of 40 m throw mobile truck mounted fog cannon.	3.00	1.50	1.50	1.50	
		10 nos. of static fog cannon of 100 m throw at railway siding no. 3&4 are in operation.	1.20	0.02	0.72	0.02	
		01 Mechanical Road sweeper	1.02	0.30	0.30	0.30	
		A dedicated coal transportation corridor of 20.99 Km length @ 243.42 Crs (1.82 Km in Bhubaneswari OCP) has been constructed bypassing the residential area and other habitation.	21.10	0.50	0.50	0.50	
4 no. of underpasses have been constructed on the Coal corridor to	8.00	4.25	5.25	--			

SN	Issues	Present Compliance Status	Expenditure incurred till date (in Cr.) (March 2025)	Proposed /estimated expenditure (Rs. in Cr.)			Physical Targets
				25-26	26-27	27-28	
		avoid crossing of public road to avoid vehicular congestion and fugitive emissions.					etc. to ensure proper dust suppression in nearby residential and inhabited areas
		ETP of 400 KLD capacity is well established in the mine premises to treat the effluent water at workshop and the water recycled and reused for industrial purposes	0.35	2.5	2.0	3.0	Already provided and regular maintenance will be taken to ensure continuous operation of ETP.
5	Plantation in OB dumps and other areas within lease.	Plantation over 25.0 ha is available till date due to re-handling of dump within lease area. An amount of 1.70 Cr has been deposited to DFO, Angul for plantation being part of the biological reclamation in the mine lease.	2.405	11.44	12.76	19.37	Plantation will be taken up in phased manner with a target of 174.706 ha within 3 years.
6	Water sprinkling in peripheral roads	Regular water sprinkling is done at peripheral roads by engaging 03 nos. of 20 KL, 01 no. 22 KL and 01 no. 24 KL water tankers and 01 No Mobile fog cannon on hiring basis.	2.65 Not to be added as derived from SI no. 4	---	---	---	
		A. Total amount Rs. (in Cr)	70.47	23.47	26.77	28.72	
Need based additional investment made through Approved Independent Schemes beyond Approved Project Report Capital Outlay.							
7	Employment	Out of the total eligible persons of 1057, employment has already been provided to 1014 persons; cash in lieu of employment provided to 36 persons and rest 07 are under process.	79.78	14.76	--	--	Employment will be provided to the balance 7 nos. individuals by March 2026.
8	Control of pollution	RLS/Silo with closed pipe conveyor system of capacity 10 MTY has been constructed (Phase I)	247.01	27.87	29.26	30.72	Regular maintenance of Pipe Conveyor and dust control provisions like automatic sensor-based mist spray system etc. will be taken to ensure the dust dust-free loading and transport and transportation.
		RLS/Silo with closed pipe conveyor system of capacity 15 MTY has been constructed (Phase II) along with an Automatic truck loading system (3 MTY) has been established in the mine for ensuring dust free loading.	308.46	16.18	16.98	17.83	Proper maintenance of Pipe Conveyor and dust control provisions like automatic sensor-based mist spray system etc. will be taken to ensure the dust dust-free loading and transport and transportation.
		B. Total amount Rs. (in Cr)	635.25	58.81	46.24	48.55	
Issues raised in the Public Consultation by inviting written responses through SPCB on 07.05.2024							
9	Livelihood	Total project displaced families are	---	0.07	0.10	0.08	Creating sustainable livelihood

SN	Issues	Present Compliance Status	Expenditure incurred till date (in Cr.) (March 2025)	Proposed /estimated expenditure (Rs. in Cr.)			Physical Targets
				25-26	26-27	27-28	
	plan for nine R&R villages and agriculture practice support in peripheral villages.	1242 out of which 434 land oustees have been provided plot, 708 have been provided cash in lieu of plot and 100 are under scrutiny for resettlement. Out of the total eligible persons of 1057 for employment, employment has already been provided to 1014 persons; cash in lieu of employment provided to 36 persons and rest 07 are under process. Most of the inhabitants are provided incentives like employment, cash in lieu of employment and resettlement plots which further improves their livelihood in alignment to the mine's allied activities. The expenditure are covered at sl no.7 as per Odisha R&R policy, 2006. For improving the agriculture support in peripheral villages will promote the WADI program which engages the plantation of fruit and forest trees, along with intercrops like vegetables, enhancing both the environment and family nutrition. Water resource development focusing on water harvesting and efficient irrigation, increasing irrigated areas.					opportunities through several key components: livestock development, Agro-horticulture (WADI) development, water resource management, improved agricultural practices, and quality of life improvements.
10	Protection plan of flora, fauna and wild animals under buffer zone	An amount of Rs. 54,24,896.00/- has been deposited by the user agency vide Challan No. 4 dt. 27.09.2004 to the State for earlier diverted 112.521 ha forest towards cost of habitat improvement plan for the surrounding area which is being implemented by the regional DFO. Site-specific wildlife conservation plan (SSWLCP) for additional 20.383 ha forest land has been approved by the Principal Chief Conservator of Forest (PCCF – Wildlife) Odisha for an amount of Rs. 1525.14 lakh, vide Letter No. 2980 dated 06.03.2025.	0.54	5.98	3.47	2.46	Implementation of SSWLCP by DFO as per the 5 year programme and will continue. Year wise plantation within the mines will continue to bring back the local species lost due to mining.

SN	Issues	Present Compliance Status	Expenditure incurred till date (in Cr.) (March 2025)	Proposed /estimated expenditure (Rs. in Cr.)			Physical Targets
				25-26	26-27	27-28	
		Massive plantation with local species like Sal, Sissoo, Bel, Baul, Neem, Karanj etc will be taken up in the backfilled areas which is covered at sl no.5					
11	Health plan & hearing health of mining workers as well as inhabitants within the buffer zones	A Medical College along with hospital has been constructed in Talcher by for the benefit of local villagers through CSR initiative. 100-seat medical college & 500 well as bed hospital inaugurated on 08.12.2023. MCL has constructed Medical College-cum-Hospital at Talcher at a cost of 492.62 Crore which will serve the inhabitants of buffer zones. This will certainly reduce the travelling burden of the inhabitants to the district hospitals in emergency cases. MCL has full-fledged medical set up to check up and monitor all the Occupational diseases likely to affect the health of the workmen. The periodical medical examination of all the workmen is being carried out as per statute like DGMS etc. This is a running mine regular health check-up of workers is being carried out under Initial Medical Examination (Both departmental and contractual) and Periodical Medical Examination (PME) which include 23 vital tests for every three years by ILO certified Doctors is being conducted for existing employees (Both departmental and contractual).	492.62	0.02	0.025	0.03	Regular health check ups /medical camps/medical aids will be conducted for the villagers in their respective villages with proper public addressing systems/banners/advertisements etc. Distribution of medicines and health hygiene products at nominal costs.
		C. Total in Rs. (in Cr)	493.16	6.07	3.595	2.57	
		Total (A+B+C)	1198.88	88.35	76.605	79.84	

15. **Project Cost and EMP Cost:** The capital cost of the proposed project is Rs. 49010 Lakhs and the capital cost for environmental protection measures is proposed as Rs. 300 Lakhs. The annual recurring cost towards the environmental protection measures is proposed as Rs 841 Lakhs. The details of cost for environmental protection measures are as follows:

S. No.	Description of item	Total Cost as per EMP (in INR Lakh)		Existing (actual expenditure done) (in INR Lakh)		Proposed (in INR Lakh)	
		Capital Cost	Recurring Cost	Capital cost	Recurring cost	Capital cost	Recurring cost
1	Garland drain & Storm water drainage	98.00	1338.00	150.00	15.00		841.00
2	Compensatory afforestation cost	32.53		32.53	0.00	0.00	
3	Scientific studies & Environmental data generation (CAAQMS; Routine Environment Monitoring, Carrying capacity, Social Impact Assessment, Blasting Impact Study, Silica analysis, Cascading Impact studies, OB related studies) and additional control measures	71.41		509.26	90.00	290.00	
4	Rain water harvesting	25.00		20.00	2.00	5.00	
5	Peripheral village community development	25.00		2054.93	375.00	5.00	
6	Plantation within & outside lease area.	241.68		448.23	15.00	0.00	
	Total	493.62		1338.00	3214.95	497.00	

16. **Details 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)	Disposal
1	Domestic Waste	Administrative & residential buildings	150	Municipal Solid Waste collection and disposal
2	Plastic waste – Packaging materials of HEMMs	Workshops & Regional Stores	1	Disposed to Authorized recyclers
3	E-waste-Old computer peripherals	Administrative buildings	2.65	Auctioned to Authorized recyclers by SPCB
4	Batteries waste	HEMM workshop	0.5	Auction to recyclers authorized by SPCB.
5	Overburden	Quarry Area	103276680	Backfilling
6	Used/Spent Oil	HEMM Workshop	85	Auction to recyclers authorized by SPCB.
7	Oil and Oily Sludge	HEMM Workshop	30	Auction to recyclers authorized by SPCB.
8	Filters contaminated with Oil	HEMM Workshop	30	Handed over to CHTDSF authorized by SPCB.
9	Empty Barrels contaminated with chemicals/waste	HEMM Workshop	200	Auction to recyclers authorized by SPCB.
10	Rubber waste	HEMM Workshop	300	Auction to recyclers authorized by SPCB

17. **Power Requirement and details of diversion of Hi-Tension/ Transmission Line:** Total electricity requirement is 25.70 MW. Bhubaneswari OCP is receiving power from 132/33 kV Central Substation of MCL at Nandira and from Lingaraj 33 kV feeder as the second source. The same arrangement will continue for the proposed project.

18. **Plantation:** Existing green belt/cover has been developed in 40.793 ha area which is about 6.19% of the total ML area of 658.724 ha with total sapling of 82050. Proposed green belt/cover will be developed in 334.706 ha which is about 50.81

% of the total ML area. Thus, total of 375.499 ha area (57.00% of total ML 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/ 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 917891 saplings will be planted and nurtured in 375.499 hectares in 05 years (balance life of mine + Post closure period 3 years). Following is the plan for plantation submitted by the PP:

S. No.	Year	Green belt			Backfilled area			Others (Undisturbed)			Total		
		Area (ha)	No of trees	Budget (Rs. in Lakhs)	Area (ha)	No of trees	Budget (Rs. in Lakhs)	Area (ha)	No of trees	Budget (Rs. in Lakhs)	Area (ha)	No of trees	Budget (Rs. in Lakhs)
1	Up to 31.03.2024	7.533	9650	0.00	12	27840	0.00	8.26	14400	0	27.793	51890	0.00
2	1 st year (up to 31.03.2025)	0	0	0.00	13	30160	0.00	0	0	0	13	30160	0.00
3	2 nd year	5	12000	120.00	30	75000	750.00	10.973	27433	274.325	45.973	114433	1144.33
4	3 rd year	4.245	10188	101.88	47	117500	1175.00	0	0	0	51.245	127688	1276.88
5	Post Closure Yr-1	0	0	0.00	77.488	193720	1937.20	0	0	0	77.488	193720	1937.20
6	Post Closure Yr-2	0	0	0.00	80	200000	2000.00	0	0	0	80	200000	2000.00
7	Post Closure Yr-3	0	0	0.00	80	200000	2000.00	0	0	0	80	200000	2000.00
	Total	16.778	31838	221.88	339.488	848720	7862.20	19.233	41833	274.325	375.499	917891	8358.41

19. **Employment:** The employment generation from the proposed project is 1014.

20. **Rehabilitation & Resettlement issues:** PP submitted that the R&R issues are only related to the existing project and there is no R&R involved in the expansion project with additional lease area of 20.383 Ha, as the entire additional land is forestland. The rehabilitation and resettlement of the project affected families/persons is being governed as per R&R policy (2006 and its subsequent amendment) of Govt. of Odisha.

Total no. of villages involved: Jilinda, Hensmul (Saharsahi), Hensmul (Talasahi), Naraharipur, Khandualbhal, Kandhal, Madanmohanpur, Langijoda and Anadipur.

The total fund allocated for R&R is Rs. 2951.50 lakhs

It comprises of two components:

- Rehabilitation: For rehabilitation of eligible persons, either job or cash compensation in lieu of employment is provided.
- Resettlement: For resettlement either plot or cash compensation in lieu of plot is provided.

For Bhubaneswari OCP the current status of R&R is as follows:

Current status of Rehabilitation

S. No.	Details on Rehabilitation (Employment or Cash compensation)	Numbers
1.	Total person eligible for employment (A)	1097
2.	Employment provided/ opted for cash compensation so far (B)	1050
3.	No of land oustees not eligible (C)	40
4.	No. of rehabilitation to be completed (D=A-B-C)	07

The current status of Resettlement

S. No	Details on Resettlement	Numbers
1.	Total displaced families (A)	1242
2.	PAFs received cash Compensation in lieu of Plots / land (B)	708
3.	PAF's opted for plot at R&R site (C)	434
4.	No. of families yet to be resettled (D=A-B-C)	100

The balance R&R activities as mentioned above will be completed by FY 2026-27 tentatively..

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

22. **Compliance of Site Visit Report of the EAC Sub – Committee:** A sub-committee of the EAC has visited the project on 7th – 9th July 2024. The observation raised by the sub-committee and status of its compliance are attached as Annexure –XXI of the EIA/ EMP Report. However, the observations of EAC sub-committee, which are being complied or are of recurring nature, is as follows:

S. No.	Issue	Compliance	Timelines	Proposed Budget in lakhs
1	Poor plantation in the mine has been observed. Immediate response is very much needed about this. The appropriate budget provision for the same shall be made in EMP.	An area of 12 ha of biologically reclaimed land over internal OB dump was developed/available as on July'2024 and further, additional 13 ha of internal OB dump/backfilled area was biologically reclaimed during 2024-25, comprising native species such as Neem, Gamhari, Sirsa, Maha neem, and Karanj etc. An amount of 228.46 lakhs has been incurred for biological reclamation of 40.793 ha of internal OB dump area, plantation along approach roads/transportation roads and green belt development up to March'2025 within mine lease hold area. The total green cover area at the time of mine closure shall be 375.499 ha . 3 tier green belt comprising, mix of native species shall be developed along the major approach roads, infrastructure, embankment` etc. in an area of 36.011 ha .	In 5 yrs considering the base year 2025-26. (incl post closure phase of 3 years)	8358.41
2	Additional three number of CAAQMS shall be installed at places where the PM10/PM2.5 values of baseline data exceeds the values of Annual average concentration limits. The budget provision for the same is needed.	As per the directives of EAC sub-committee two additional CAAQMS stations (in addition to the existing 2 nos. at Bhubaneswari OC, namely, at BCML w/s and Gobra Village) have been proposed considering the baseline value and site-specific meteorology of that area. Thus total no. of 4 (four) CAAQMS stations will record the ambient air quality of Bhubaneswari Project.	Dec'2025	300
3	The dedicated corridor for coal transportations needs repair. The road condition is not satisfactory. The provision of budget shall be made for the	A dedicated coal corridor for road transportation of coal, of 22 km which does not pass through any village has been constructed in Talcher coal field connecting all MCL mines of Talcher CF. Out of this 22 km, 1.82 km CT road falls within the jurisdiction of this project. This dedicated road is regularly repaired for regular pothole patching, crack sealing, resurfacing, and in some cases, reconstruction is also done. It is also maintained for dust	Routine work and will be carried out throughout the life of the mine	1000

S. No.	Issue	Compliance	Timelines	Proposed Budget in lakhs
	same.	free transportation of coal, by using mechanical road sweepers and mobile fog cannons (40 m throw).		
4	From energy conservation point of view, PP shall make adequate budgetary provision for solar energy.	A total of 71.25 Kw Solar installations in the form of roof top panels, movable lighting towers and streetlights is envisaged to be installed by FY 2026-27.	Mar'2027	64.6
TOTAL				1364.60

Deliberations and Observation of the Committee:

23. The Committee noted the following:

i. The proposal of Bhubaneswari Opencast Expansion Project is for brownfield project of M/s Mahanadi Coalfields Limited. The instant proposal is for increase in ML area from 638.341 Ha to 658.724 Ha for the same production capacity of 30 MTPA, located at villages: Jilinda, Hensmul (Sharasahi), Hensmul (Talasahi), Naraharipur, Khandualbhal, Kandhal, Madanmohanpur, Langijoda and Anadipur, Tehsil Talcher Sadar, District Angul; State: Odisha.

ii. The Ministry initially accorded EC for the Bhubaneswari Opencast Expansion Project of M/s Mahanadi Coalfields Limited on 06.06.2003 for the production of 10 MTPA within the ML area of 638.341 Ha. Thereafter, another EC was accorded vide letter dated 30.11.2012 for the increase in production capacity up to 20 MTPA within the increased ML area of 658.724 Ha.

Further, another EC expansion was accorded vide letter dated 19.02.2014 and 16.02.2018 for the increase in production capacity and decrease in ML area from 658.724 Ha to 638.341 Ha up to 25 MTPA and 28 MTPA respectively. The land area was reduced by 20.383 ha of forestland for which forest clearance could not be obtained by the PP. Later Ministry accorded EC for 30 MTPA vide letter dated 25.07.2022 under the provisions of Ministry's OM dated 07.05.2022 and regularized the same vide letter dated 10.11.2023.

iii. The above-mentioned ECs have been implemented.

iv. The instant project is for increase in ML area from 638.341 Ha to 658.724 Ha with the same production capacity of 30 MTPA.

v. The proponent accorded ToR for the said project vide F. No. J-11015/280/2013-IA. II (M), in march 2024.

vi. 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.

vii. The project does not fall in the Critically Polluted Area (CPA)/ Severely Polluted Area (SPA), as per CEPI assessment 2018.

viii. The project involves total 132.904 Ha of forestland. The entire 20.383 Ha of land area involved in the expansion is forestland. Committee observed that the PP has accorded Stage – II forest clearance on 112.521 Ha of forestland and Stage – I forest clearance on 20.383 Ha of forestland. Total broken forestland as on date is 112.521 ha and there is no violation of Van (Sanrakshan Evam Samvardhan) Adhiniyam, 1980.

ix. The project is not located within 10 KM of any ESZ/ ESA/ national park/ wildlife sanctuary/ biosphere reserve/ tiger reserve/ elephant reserve/tiger corridor etc. However, there is Kanehijena-Anantapur Elephant corridor at a distance of 7.87 km from the ML area. PP has prepared a site specific wildlife conservation plan and the same has been approved by the PCCF/ CWW, Odisha. Committee opined that the PP shall deposit the approved financial outlay of Rs. 1525.14 Lakhs

with the wildlife department at the earliest.

x. Committee deliberated on the mine lease area of the said mines and observed that the PP has acquired 688.45 ha land under CBA (A&D) Act, 1957. However, only 658.724 Ha of land is proposed as the mine lease area in the instant proposal. Committee sought the clarification in this regard and PP submitted that the remaining 29.726 Ha of land area acquired is the tenancy and Govt. non-forestland and the same is not taken into lease area considering the geotechnical assessment & surface constraints. Committee opined that the PP shall erect the closely spaced pillars to clearly demarcate the land area not included in the instant proposal. All officers, supervisors, overman, mate, workers, operators, persons employed in the mine should be made aware about the unutilised land and its boundaries so that there is no disturbance of the same.

Committee also opined that on all the surface plans, production plans used in the project the utilised and unutilised lease areas should be clearly marked in different colours.

xi. Committee deliberated on the Certified Compliance Report obtained by the PP from the Ministry's RO vide letter dated 05.05.2025, on which ATR was submitted by the PP on 13.05.2025. Committee observed that there are a few partially complied conditions and a non-complied condition. PP has submitted a time bound action plan for the same. Committee opined that the same shall be implemented as committed by the PP.

xii. The Mine Plan and the Mine Closure Plan for the Bhubaneswari OCP (production capacity 30 MTPA within the ML area of 658.724 Ha) was approved by the board of MCL on 14.05.2022 and further corrigendum for the same was issued vide letter dated 23.09.2023, pertaining safety zone as per forest clearance, wherein it has been mentioned that "6.033 Ha which was kept as safety zone outside mine lease will be taken under Quarry Excavation in future expansion project".

xiii. Total geological reserve reported in the mine lease area is 465.73 MT with 396.52 MT mineable reserve. Out of total mineable reserve of 396.52 MT, 374.26 MT are available for extraction. Balance extractable reserves as on 01.04.2025 is 52.58 MT Percent of extraction is 80.36%.

xiv. The method of mining proposed is opencast mining by Shovel – Dumper in OB/ parting and surface miner-pay-loader – tipper in coal.

xv. Life of mine is 5 years as per the approved mine plan and mine closure plan (as on 01.04.2022).

xvi. 0.34 Mm³ of top soil is proposed to be generated which will be temporarily stored and concurrently spread over the backfilled area.

xvii. Committee observed that there is only 1 nos of internal OB dump existing in the instant project and no other dump is further proposed. The same is in an area of 339.488 Ha with the maximum height of 45 m. Committee opined that no OB dumping shall be done outside the ML area.

xviii. Committee deliberated on the method of transportation of coal proposed for the said project and observed that, coal is proposed to be transported through 1-2 km haul road using tippers/ dumpers, from in-pit to surface. Further, from surface to siding, it is observed that approximately 4 MTPA will be transported by tippers using 4-5 km dedicated coal transportation road and 22 MTPA will be transported through a conveyor belt of 1.5 to 2 km. Further it is proposed that 27 MTPA of the coal will be transported through rail and remaining 3 MTPA will be transported using automatic truck loading system (ATLS) for local consumers. Committee opined that the PP shall take all necessary mitigation measures for the road transportation proposed in the instant project. PP shall develop thick plantation on both the sides of the transportation roads and the conveyor belt. The coal proposed to be transported by road shall be done through tarpaulin covered trucks. Water sprinkling shall be done on continuous basis for dust suppression. Regular maintenance shall be carried out of all the roads being used for transportation of coal.

xix. The baseline data has been collected by the PP during October – December 2022 (post – monsoon). Committee opined that the PP shall take all the measures to keep the environmental parameters on the lower side.

xx. The total water required for the said project is 5516 KLD (4566 KLD for Industrial use, while 950 KLD for Potable

use). The same will be sourced from Brahmani River through the integrated water supply scheme (I.W.S.S) of Talcher coalfield, borewell and rainwater and surface runoff stored in mine sump area.

xxi. Out of 950 KLD of potable water, 928 KLD will be sourced from the Brahmani River and 22 KLD of freshwater being obtained from the borewell. Out of 4566 KLD of water being used for industrial purpose, 1194 KLD shall be obtained from mine seepage and 3372 KLD shall be obtained from rainwater and surface runoff stored in mine sump area. PP further submitted that, NoC for surface water being used from Brahmani River has been obtained from Angul Irrigation Division, Govt. of Odisha and NoC for ground water has been obtained from the CGWA vide NOC No: CGWA/NOC/MIN/REN/1/2024/10151, which is valid up to 15/12/2026.

xxii. Committee deliberated on the Public Consultation and Public Hearing details submitted by the PP and observed that, the PP has conducted Public Hearing on the entire 658.724 Ha (including the 20.383 Ha of forestland) of lease area on 10.02.2009. However, the EC was later accorded for the reduced area of 638.341 Ha. Committee further observed that, as per the specific ToR (i) accorded by the PP for the instant project during March 2024, it was stipulated that, "PP shall conduct public consultation (i.e. by inviting written submissions) by issuing public notice in local media, newspapers (English, Hindi and local language) Report through concerned SPCB in the concerned districts as per the provisions/procedure contained in the EIA Notification, 2006 for information of the stakeholders about the present coal mining operations inviting written comments/submissions and their redressal. All the issues raised and PP reply should be incorporated in EIA."

xxiii. The same has been complied by and Public notice has been published by the OSPCB on 07.05.2024 in local newspapers, The New Indian Express-English and The Samaj (Odia- language) for information of the stakeholders about the present coal mining operations inviting written comments/submissions and their redressal. Only 1 nos of representation obtained through SPCB, Odisha vide letter no. 9034/IND/II/NOC-MISC/289 dated 21.06.2024. Compliance to the said representation has been submitted by the PP and the same is also incorporated in the EIA/ EMP report submitted by the PP for the instant project.

xxiv. Committee observed that the issues involved in the representation received in the public consultation were related to livelihood plan of the R&R villages, protection plan of flora, fauna and the wild animals, health of mine workers and nearby inhabitants, etc. Committee further deliberated on the expenditure done by the PP on the PH issues done till date and the comprehensive action plan submitted by the PP for compliance of the issues raised during the Public Hearing held on 10.02.2009 & for the written representations received from the Public Consultation for which advertisement was given on 07.05.2024, for the next three years. Committee opined that the same shall be implemented in a time bound manner. Committee further observed that the PP had allocated Rs. 78.96 crores towards the PH compliance for the next three years. Apart from this PP had also made provision for need based additional financial investment which is beyond approved project report capital outlay.

xxv. The capital cost for environmental protection measures is proposed as Rs. 300 Lakhs. The annual recurring cost towards the environmental protection measures is proposed as Rs 841 Lakhs. Committee also observed the proposed capital expenditure as per the EMP was Rs. 493.62 Lakhs and recurring expenditure was Rs. 1338 Lakhs. However, the expenses done as capital cost is Rs. 3214.95 Lakhs and as recurring cost is Rs. 497 Lakhs.

xxvi. Total electricity requirement is 25.70 MW. Bhubaneswari OCP is receiving power from 132/33 kV Central Substation of MCL at Nandira and from Lingaraj 33 kV feeder as the second source. The same arrangement will continue for the proposed project.

xxvii. The capital cost of the proposed project is Rs. 49010 Lakhs. Total employment proposed to be generated after expansion is 1014.

xxviii. Committee deliberated on the plantation activities done by the PP in the instant project and further proposed by the PP. Existing green belt/cover has been developed in 40.793 ha area which is about 6.19% of the total ML area of 658.724 ha with total sapling of 82050. Proposed green belt/cover will be developed in 334.706 ha which is about 50.81 % of the total ML area. Thus, total of 375.499 ha area (57.00% of total ML 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/ 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 917891 saplings will be planted and nurtured in 375.499 hectares in 05 years (balance life of mine + Post closure period 3 years).

Committee also deliberated on the drone video played during the meeting and found the plantation to be inadequate. Committee opined that the avenue plantation is inadequate and the necessary measures for the same shall be taken on the onset of monsoon 2025 itself. Committee opined that atleast 75,000 saplings shall be planted before June 2025.

xxix. Committee deliberated on the issues related to Rehabilitation and Resettlement for the said mines and observed that there is no R&R involved in the expansion land area as the said land is forestland. However, the R&R for the existing mine is yet to be completed. The project involved R&R of Jilinda, Hensmul (Saharsahi), Hensmul (Talasahi), Naraharipur, Khandualbhal, Kandhal, Madanmohanpur, Langijoda and Anadipur villages. The total person eligible for employment are 1097, out of which 7 are yet to be rehabilitated. Apart from this, there are total 1242 project displaced families out of which 100 are yet to be resettled. The same is proposed to be completed by FY 2026-27 tentatively.

xxx. Committee observed that there are no legal issue/violation w.r.t i) Environment (Protection) Act, ii) Air(P&CP) Act, Water (P&CP) Act, Forest Conservation Act, Wildlife Protection Act, CRZ Notification, MMDR Act, Factories Act.

xxxi. Committee opined that the PP shall align its activities with the sustainable development goals.

xxxii. The Committee noted that the EIA reports are in compliance of the ToR issued for the project, reflecting the present environmental status and the projected scenario for all the environmental components.

xxxiii. The EAC also deliberated on the compliance of site visit report submitted by the PP and found the same to be satisfactory.

xxxiv. The EAC noted that the Project Proponent has given an undertaking that the data and information given in the application and enclosures are true to the best of his knowledge and belief and no information has been suppressed in the EIA/EMP reports. If any part of data/information submitted is found to be false/ misleading at any stage, the project will be rejected and Environmental Clearance given, if any, will be revoked at the risk and cost of the project proponent.

Recommendations of the Committee:

24. Based on the discussions held and the documents submitted, the EAC recommended the instant proposal for grant of Environment Clearance for the “*Bhubaneswari Opencast Expansion Project (increase in ML area from 638.341 Ha to 658.724 Ha having the same production capacity of 30 MTPA) by M/s Mahanadi Coalfields Limited located at villages: Jilinda, Hensmul (Sharasahi), Hensmul (Talasahi), Naraharipur, Khandualbhal, Kandhal, Madanmohanpur, Langijoda and Anadipur, Tehsil Talcher Sadar, District Angul; State: Odisha*” under the provisions of EIA Notification, 2006 subject to the stipulation of specific conditions in addition to the general/Standard EC conditions (**Annexure-I**).

25. The MoEF&CC has examined the proposal in accordance with the provisions contained in the Environment Impact Assessment (EIA) Notification, 2006 & further amendments thereto and based on the recommendations of the EAC hereby accords Environmental Clearance to M/s. Mahanadi Coalfields Limited for “*Bhubaneswari Opencast Expansion Project (increase in ML area from 638.341 Ha to 658.724 Ha having the same production capacity of 30 MTPA), located at Villages: Jilinda, Hensmul (Sharasahi), Hensmul (Talasahi), Naraharipur, Khandualbhal, Kandhal, Madanmohanpur, Langijoda and Anadipur, Tehsil Talcher Sadar, District Angul; State: Odisha*” subject to compliance of the Specific Environmental safeguard Conditions in addition to the standard EC conditions (**Annexure-I**).

26. The proponent shall obtain all necessary clearances/approvals that may be required before the start of the project. The Ministry or any other competent authority may stipulate any further condition for environmental protection. The Ministry or any other competent authority may stipulate any further condition for environmental protection.

27. 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. The Project Proponent is under obligation to obtain approvals /clearances under any other Acts/ Regulations or Statutes, as applicable, to the project.

28. The PP is under obligation to implement commitments made in the Environment Management Plan, which forms part of this EC.

29. 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.

30. General Instructions:

(i) 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.

(ii) The copies of the environmental clearance shall be submitted by the project proponents to the Heads of local bodies, Panchayats and Municipal Bodies in addition to the relevant offices of the Government who in turn must display the same for 30 days from the date of receipt.

(iii) 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.

(iv) 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.

(v) 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.

(vi) 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.

(vii) Validity of EC is as per the provision of EIA Notification, 2006 and its subsequent amendment.

31. This issue with an approval of the Competent Authority.

Yours faithfully,

(Sundar Ramanathan)
Scientist 'F'
Tel: 011- 20819378
Email- r.sundar@nic.in

Copy To

1. The Secretary, Ministry of Coal, Shastri Bhawan, New Delhi.
2. The Deputy Director General of Forests, Regional office (EZ), Ministry of Environment & Forests, A-31, Chandershekharpur, Bhubaneswar- 751023 (Odisha).
3. The Secretary, Department of Environment & Forests, Government of Orissa, Secretariat, Bhubaneswar (Odisha).
4. The Member Secretary, Central Pollution Control Board, CBD-cum-Office Complex, East Arjun Nagar, Delhi – 32.

5. The Chairman, Orissa State Pollution Control Board, Parivesh Bhawan, A/118, Nilkanthanagar, Unit VIII, Bhubaneswar - 751012 (Odisha).

6. District Collector, Angul, Government of Odisha.

7. PARIVESH Portal

Annexure 1

Specific EC Conditions for (Mining Of Minerals)

1. Specific Conditions:

S. No	EC Conditions				
1.1	Mining shall be restricted to only 658.724 Ha, against the land of 688.45 Ha in possession of the project proponent. Project proponent shall erect the closely spaced pillars to clearly demarcate the remaining land of 29.726 Ha comprising of tenancy and govt. non forestland. All officers, supervisors, overman, mate, workers, operators, persons employed in the mine should be made aware about the 29.726 Ha land and its boundaries so that there is no disturbance on the same. In addition to this, the surface plans, production plans used in the project, the utilized and un-utilized area should be clearly marked in different colours.				
1.2	The forestland of 20.383 Ha on which stage – I forest clearance has been accorded shall not be disturbed until the stage – II forest clearance is accorded for the same as per the provisions of Van (Sanrakshan Evam Samvardhan) Adhiniyam, 1980.				
1.3	Project proponent shall comply with the previous EC conditions as per the Action Taken Report and the observations of the Sub – Committee Site Visit Report, as per the following action plan, as committed:				
	S. No.	Issue	Compliance	Timelines	Proposed Budget in lakhs
	1	PP shall provide the unpaved road to paved one in order to reduce the emission fugitive dust.	The haul roads are temporary, and their locations changes based on the availability of exposed coal faces and the progress of mining activities. In practical implementation, the project utilises murrum/ crushed OB materials on unpaved haul roads, complemented by water sprinkling, as an effective measure to prevent fugitive dust emissions. This process results in a firm surface that safeguards the underlying soil from the impact of vehicle wheels. Apart from the above, all the permanent routes dedicated for coal transportation towards the sidings are fully concreted to prevent dust generation caused by the movement of trucks and dumpers. Air control measures like mobile water mist sprinklers, mobile water tankers and mobile fog cannons have been deployed. Additionally, a dedicated 3km pipeline	Dec'2025	110.00

S. No	EC Conditions			
S. No.	Issue	Compliance	Timelines	Proposed Budget in lakhs
		with 25 fixed-type sprinklers is in the tendering stage, which will be installed by December'2025 along the roads to reduce fugitive emissions for an estimated budget of Rs 1.1 crores.		
2	PP to provide bio toilet to the villages located within the study areas within 1 year from the grant of this EC.	One bio-toilet has already been installed at Dera Gram Panchayat. Action has been taken for installation of additional five (5 nos.) bio-toilets which are in tendering stage. The installation of these additional 5 units is scheduled to be completed by November'2025 in Khandal, Anadipur, Hensmul, Ragunathpur & Khammar villages.	Nov'2025	5.00
3	PP to enhance plantation in mine lease in conformity to the scheduled plan submitted in EIA EMP & ATR to certified compliance report	An area of 12 ha of biologically reclaimed land over internal OB dump was developed/available as on July'2024 and further, additional 13 ha of internal OB dump/backfilled area was biologically reclaimed during 2024-25, comprising native species such as Neem, Gamhari, Sirsa, Mahaneem, and Karanj etc. An amount of 228.46 lakhs has been incurred for biological reclamation of 40.793 ha of internal OB dump area, plantation along approach roads/transportation roads and green belt development up to March'2025 within mine lease hold area. The total green cover area at the time of mine closure shall be 375.499 ha . 3 tier green belt comprising, mix of native species shall be developed along the major approach roads, infrastructure, embankment` etc. in an area of 36.011 ha .	In 5 yrs considering the base year 2025-26. (incl post closure phase of 3 yaers)	8358.41
4	Greenbelt consisting of 3 tier planation of width not less than 7.5 m shall be devolved all along the mine lease area as soon as possible. The green belt comprising a mix of native species (endemic species should be given priority) shall be devolved all along	A total of 9.245 ha is planned to be developed in next 2 years with 14800 saplings with a budget of Rs.	Mar 2027	221.88

S. No	EC Conditions			
S. No.	Issue	Compliance	Timelines	Proposed Budget in lakhs
	the major approach/coal transportation roads.			
SUB TOTAL (A)				8695.29
5	<p>Poor plantation in the mine has been observed. Immediate response is very much needed about this. The appropriate budget provision for the same shall be made in EMP.</p>	<p>An area of 12 ha of biologically reclaimed land over internal OB dump was developed/available as on July'2024 and further, additional 13 ha of internal OB dump/backfilled area was biologically reclaimed during 2024-25, comprising native species such as Neem, Gamhari, Sirsa, Maha neem, and Karanj etc.</p> <p>An amount of 228.46 lakhs has been incurred for biological reclamation of 40.793 ha of internal OB dump area, plantation along approach roads/transportation roads and green belt development up to March'2025 within mine lease hold area.</p> <p>The total green cover area at the time of mine closure shall be 375.499 ha 3 tier green belt comprising, mix of native species shall be developed along the major approach roads, infrastructure, embankment` etc. in an area of 36.011 ha.</p>	<p>In 5 yrs considering the base year 2025-26. (incl post closure phase of 3 years)</p>	Covered at sl no.3
6	<p>Additional three number of CAAQMS shall be installed at places where the PM10/PM2.5 values of baseline data exceeds the values of Annual average concentration limits. The budget provision for the same is needed.</p>	<p>As per the directives of EAC sub-committee two additional CAAQMS stations (in addition to the existing 2 nos. at Bhubaneswari OC, namely, at BCML w/s and Gobra Village) have been proposed considering the baseline value and site-specific meteorology of that area. Thus total no. of 4 (four) CAAQMS stations will record the ambient air quality of Bhubaneswari Project.</p>	Dec'2025	300
7	<p>The dedicated corridor for coal transportations needs repair. The road condition is not satisfactory. The provision of budget shall be made for the same.</p>	<p>A dedicated coal corridor for road transportation of coal, of 22 km which does not pass through any village has been constructed in Talcher coal field connecting all MCL mines of Talcher CF. Out of this 22 km, 1.82 km CT road falls within the jurisdiction of this project.</p> <p>This dedicated road is regularly repaired for regular pothole patching, crack sealing, resurfacing, and in some</p>	Routine work and will be carried out throughout the life of the mine	1000

S. No	EC Conditions			
S. No.	Issue	Compliance	Timelines	Proposed Budget in lakhs
		cases, reconstruction is also done. It is also maintained for dust free transportation of coal, by using mechanical road sweepers and mobile fog cannons (40 m throw).		
8	From energy conservation point of view, PP shall make adequate budgetary provision for solar energy.	A total of 71.25 Kw Solar installations in the form of roof top panels, movable lighting towers and streetlights is envisaged to be installed by FY 2026-27.	Mar'2027	64.6
SUB TOTAL (B)				1364.60
GRAND TOTAL (A+B)				10,059.89 Lakhs
1.4	Project proponent shall deposit the approved financial outlay of Rs. 1525.14 Lakhs with the State Forest Department, as per the approved Site Specific Wildlife Conservation Plan. Accordingly, the Site specific wildlife conservation plan shall be implemented.			
1.5	No OB dumping shall be done outside the mine lease area.			
1.6	Project proponent shall transport only 4 MTPA of coal through road, that too till December 2025. Remaining 26 MTPA of coal shall be transported through the combination of pipe conveyor and railway, till December 2025. Thereafter, only 3 MTPA of coal is allowed to transport by road, remaining 27 MTPA of coal shall be transported by the combination of pipe conveyor and railway.			
1.7	Road transportation of coal shall be done with all the precautionary measures. Coal shall be transported through tarpaulin covered trucks, regular water sprinkling shall be done on the coal transportation road, regular maintenance of the trucks/ tippers shall be carried out, regular maintenance of the dust suppression machinery shall be carried out.			
1.8	Project proponent shall carryout regular maintenance of the potholes on roads, repair and maintenance of roads, scrapping of material fallen on roads, and removal of scraps from mining areas. Along with this, PP shall make sure that all the pollution control equipments are in good working condition and maintenance of those equipments is regularly carried out.			
1.9	Project proponent shall install 3 nos of mobile fog canons on the school roads in the vicinity of the ML area and dense plantation with the native species shall be carried out along the periphery of these schools. Project proponent shall also introduce measures for watering of the plantation developed in the periphery of the schools.			
1.10	Project proponent shall not divert any river, nallah or any other water body for carrying out the mining operations in the said mine.			
1.11	The budget proposed for Public Hearing and Public Consultation through written representations (for next 3 years) is Rs. 244.795 Lakhs. The budget proposed shall be kept in a separate account. Project proponent shall implement the action plan to address the issues raised during public hearing within the stipulated time frame. PP shall submit the progress report regarding the implementation of action plan to concerned RO along with the six monthly compliance report. PP shall strengthen the existing Primary Health Centre (PHC) &			

S. No	EC Conditions																																																																																																																																																						
	Community Health Centre (CHC) in the study area for better public health. Compliance status in this regard shall be submitted along with the six monthly compliance to the concerned Regional Office of MoEF&CC.																																																																																																																																																						
1.12	Project proponent shall implement the protective measure proposed in Environment Management Plan (EMP) in a time-bound manner. The budget earmarked for the same is Rs. 300 lakhs (Capital) and Rs 841 lakhs (recurring) and should be kept in separate accounts and audited annually. The implementation status along with the amount spent with documentary proof shall be submitted to the concerned Regional Office for the activities carried out during the previous year.																																																																																																																																																						
1.13	R&R for the 1097 Project Affected Families (PAFs) for the said project including the 1242 (Project Displaced Families) PDFs should be rehabilitated as per the approved R&R plan. Compliance status in this regard shall be submitted to the concerned Regional Office of MoEF&CC along with the six monthly compliance report.																																																																																																																																																						
1.14	<p>Project proponent has developed the existing green belt/cover in 40.793 ha area which is about 6.19% of the total ML area of 658.724 ha with total sapling of 82050. Proposed green belt/cover shall be developed in 334.706 ha which is about 50.81 % of the total ML area. Thus, total of 375.499 ha area (57.00% of total ML area) shall be developed as greenbelt. A 7.5 m wide greenbelt, consisting of at least 3 tiers around mine boundary shall be developed as greenbelt/ cover as per CPCB/ MoEF&CC, New Delhi guidelines. Local and native species shall be planted with a density of 2500 trees per hectare. Total no. of 917891 saplings shall be planted and nurtured in 375.499 hectares in 05 years (balance life of mine + Post closure period 3 years). Following time bound action plan for plantation shall be implemented:</p> <table border="1"> <thead> <tr> <th rowspan="2">S. No.</th> <th rowspan="2">Year</th> <th colspan="3">Green belt</th> <th colspan="3">Backfilled area</th> <th colspan="3">Others (Undisturbed)</th> <th colspan="3">Total</th> </tr> <tr> <th>Area (ha)</th> <th>No of trees</th> <th>Budget (Rs. in Lakhs)</th> <th>Area (ha)</th> <th>No of trees</th> <th>Budget (Rs. in Lakhs)</th> <th>Area (ha)</th> <th>No of trees</th> <th>Budget (Rs. in Lakhs)</th> <th>Area (ha)</th> <th>No of trees</th> <th>Budget (Rs. in Lakhs)</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Up to 31.03.2024</td> <td>7.533</td> <td>9650</td> <td>0.00</td> <td>12</td> <td>27840</td> <td>0.00</td> <td>8.26</td> <td>14400</td> <td>0</td> <td>27.793</td> <td>51890</td> <td>0.00</td> </tr> <tr> <td>2</td> <td>1st year (up to 31.03.2025)</td> <td>0</td> <td>0</td> <td>0.00</td> <td>13</td> <td>30160</td> <td>0.00</td> <td>0</td> <td>0</td> <td>0</td> <td>13</td> <td>30160</td> <td>0.00</td> </tr> <tr> <td>3</td> <td>2nd year</td> <td>5</td> <td>12000</td> <td>120.00</td> <td>30</td> <td>75000</td> <td>750.00</td> <td>10.973</td> <td>27433</td> <td>274.325</td> <td>45.973</td> <td>114433</td> <td>1144.33</td> </tr> <tr> <td>4</td> <td>3rd year</td> <td>4.245</td> <td>10188</td> <td>101.88</td> <td>47</td> <td>117500</td> <td>1175.00</td> <td>0</td> <td>0</td> <td>0</td> <td>51.245</td> <td>127688</td> <td>1276.88</td> </tr> <tr> <td>5</td> <td>Post Closure Yr-1</td> <td>0</td> <td>0</td> <td>0.00</td> <td>77.488</td> <td>193720</td> <td>1937.20</td> <td>0</td> <td>0</td> <td>0</td> <td>77.488</td> <td>193720</td> <td>1937.20</td> </tr> <tr> <td>6</td> <td>Post Closure Yr-2</td> <td>0</td> <td>0</td> <td>0.00</td> <td>80</td> <td>200000</td> <td>2000.00</td> <td>0</td> <td>0</td> <td>0</td> <td>80</td> <td>200000</td> <td>2000.00</td> </tr> <tr> <td>7</td> <td>Post Closure Yr-3</td> <td>0</td> <td>0</td> <td>0.00</td> <td>80</td> <td>200000</td> <td>2000.00</td> <td>0</td> <td>0</td> <td>0</td> <td>80</td> <td>200000</td> <td>2000.00</td> </tr> <tr> <td></td> <td>Total</td> <td>16.778</td> <td>31838</td> <td>221.88</td> <td>339.488</td> <td>848720</td> <td>7862.20</td> <td>19.233</td> <td>41833</td> <td>274.325</td> <td>375.499</td> <td>917891</td> <td>8358.41</td> </tr> </tbody> </table>													S. No.	Year	Green belt			Backfilled area			Others (Undisturbed)			Total			Area (ha)	No of trees	Budget (Rs. in Lakhs)	Area (ha)	No of trees	Budget (Rs. in Lakhs)	Area (ha)	No of trees	Budget (Rs. in Lakhs)	Area (ha)	No of trees	Budget (Rs. in Lakhs)	1	Up to 31.03.2024	7.533	9650	0.00	12	27840	0.00	8.26	14400	0	27.793	51890	0.00	2	1 st year (up to 31.03.2025)	0	0	0.00	13	30160	0.00	0	0	0	13	30160	0.00	3	2 nd year	5	12000	120.00	30	75000	750.00	10.973	27433	274.325	45.973	114433	1144.33	4	3 rd year	4.245	10188	101.88	47	117500	1175.00	0	0	0	51.245	127688	1276.88	5	Post Closure Yr-1	0	0	0.00	77.488	193720	1937.20	0	0	0	77.488	193720	1937.20	6	Post Closure Yr-2	0	0	0.00	80	200000	2000.00	0	0	0	80	200000	2000.00	7	Post Closure Yr-3	0	0	0.00	80	200000	2000.00	0	0	0	80	200000	2000.00		Total	16.778	31838	221.88	339.488	848720	7862.20	19.233	41833	274.325	375.499	917891	8358.41
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<p>Apart from this, project proponent shall improve the avenue plantation already carried out by densifying the same, plantation shall also be carried out on both the side of the school roads with the native and fruit bearing species. PP shall also carryout community plantation in the nearby villages by native and fruit bearing species and distribute 50,000 plants of minimum 4 ft. height native and fruit bearing species to the villagers with incentive every year till the life of mine in the study area. Atleast 75,000 nos of tress shall be planted before June 2025, on the onset of monsoon 2025.</p>																																																																																																																																																							

S. No	EC Conditions
1.15	PP shall carry out a survey of the impact of blasting in the nearby area/villages by involving a reputed institute and take remedial measures as proposed by the respective institute. Further, provide compensation if any for any damage caused. PP must give crop compensation to the farmers in case there is decrease in the production due to the mining activities. Compliance status in this regard shall be submitted along with the six monthly compliance to the concerned Regional Office.
1.16	PP shall create a “Public Grievance Redressal and Monitoring System” for resolving any issues related to the pollution of mines and complaint has to resolve as soon as possible not beyond 30 days. In this regard, adequate awareness to be spread among the public to address their grievance to company with simple and easy manner and for which company needs to devise the mechanism. The same shall be reported to IRO within 3 months. A logbook to be maintained by PP on “Public Grievance Redressal and Monitoring System.
1.17	PP shall emphasize for using and developing Renewable Energy for its consumption in its utilities/machinery/equipment instead of using electricity from Grid/generated from Thermal Power Plants. PP shall install solar power generation units. Compliance status in this regard shall be submitted to the concerned Regional Office along with the six monthly compliance report and also be uploaded on the web portal of the company.
1.18	Project proponent shall ensure that all types of plastic waste generated from the plant shall be stored separately in isolated area and disposed of strictly adhering to the Plastic Waste Management Rules 2016 (as amended). In pursuant to the Ministry’s OM dated 18/07/2022. PP shall also create awareness among the people working in the project area as well as in its surrounding area on the ban on Single Use Plastic (SUP) in order to ensure compliance of Ministry’s Notification published by the Ministry on 12/08/2021. A report along with photograph on the measures taken shall also be included in the six monthly compliance report being submitted by PP.
1.19	Hon’ble Supreme Court in an Writ Petition(s) Civil No. 114/2014, Common Cause vs Union of India & Ors vide its judgement dated 8th January, 2020 has directed the Union of India to impose a condition in the mining lease and a similar condition in the environmental clearance and the mining plan to the effect that the mining lease holders shall, after ceasing mining operations, undertake re-grassing the mining area and any other area which may have been disturbed due to their mining activities and restore the land to a condition which is fit for growth of fodder, flora, fauna etc. Compliance of this condition after the mining activity is over at the cost of the mining lease holders/Project Proponent”. The implementation report of the above said condition shall be sent to the Regional Office of the MoEF&CC.
1.20	Third-party audit (by NEERI/CIMFR/IIT/NITs) for air & water quality shall be carried out annually to keep a check on the same. PP shall implement the recommendations of the audit and submit the outcome of the audit to the concerned RO of MoEF&CC.
1.21	PP should continue the Carbon Sequestration Study including carbon emissions from coal mining. Compliance status in this regard shall be submitted along with the six monthly compliance to the concerned Regional Office and also kept on the web portal of the company.
1.22	Project proponent is advised to implement the 'Ek Ped Maa Ke Naam' Campaign which was launched on 5th June 2024 on the occasion of the World Environment Day to increase the forest cover across the Country. This plantation drive is other than Green belt development. The action in this regard shall be submitted concerned RO in six monthly report.

Standard EC Conditions for (Mining of minerals)

1. Statutory Compliance

S. No	EC Conditions
1.1	The Environmental clearance shall be subject to orders of Hon'ble Supreme Court of India, Hon'ble High Courts, NGT and any other Court of Law, from time to time, and as applicable to the project.
1.2	The project proponent shall obtain clearance from the National Board for Wildlife, if applicable.
1.3	Solid/hazardous waste generated in the mines needs to be addressed in accordance to the Solid Waste Management Rules, 2016/Hazardous & Other Waste Management Rules, 2016.
1.4	The maximum production or peak production at any given time shall not exceed the limit as prescribed in the EC.
1.5	Validity of Environment Clearance is as per life of the mine mentioned in EC letter or 30 years as per EIA Notification, 2006 and its amendments therein

2. Air Quality Monitoring And Mitigation Measure

S. No	EC Conditions
2.1	Project proponent shall obtain requisite consent from State Pollution Control Board for amalgamated mine with a production capacity of 30 MTPA.
2.2	Adequate ambient air quality monitoring stations shall be established in the core zone as well as in the buffer zone for monitoring of pollutants, namely particulates, SO ₂ and NO _x . Location of the stations shall be decided based on the meteorological data, topographical features and environmentally and ecologically sensitive receptors in consultation with the State Pollution Control Board.
2.3	The Ambient Air Quality monitoring in the core zone shall be carried out to ensure the Coal Industry Standards notified vide GSR 742 (E) dated 25th September, 2000 and as amended from time to time by the Central Pollution Control Board. Data on ambient air quality and heavy metals such as Hg, As, Ni, Cd, Cr and other monitoring data shall be regularly reported to the Ministry/Regional Office and to the CPCB/SPCB.
2.4	Effective control measures such as regular water sprinkling/rain gun/ Fog cannon /mist sprinkling etc., shall be carried out in critical areas prone to air pollution with higher level of particulate matter all through the coal transport roads, loading/unloading and transfer points. Fugitive dust emissions from all sources shall be controlled regularly. It shall be ensured that the ambient air quality parameters conform to the norms prescribed by the Central/State Pollution Control Board.
2.5	Major approach roads shall be black topped and properly maintained.
2.6	Vehicular emissions shall be kept under control and regularly monitored. All the vehicles engaged in mining and allied activities shall operate only after obtaining 'PUC' certificate from the authorized pollution testing centres.
2.7	PP should Install Wind breaker/shield arrangement along the railway siding for reducing the dust propagation in upwind direction.

S. No	EC Conditions
2.8	The raw coal shall be stacked properly at earmarked site (s) within stockyards fitted with wind breakers/shields. Adequate measures shall be taken to ensure that the stored mineral does not catch fire.
2.9	PP shall submit an action plan for using and developing Renewable Energy for its consumption in its utilities/machinery/equipment instead of using electricity from Grid/generated from Thermal Power Plants. PP shall Install additional solar power generation units.
2.10	PP shall install the weather monitoring system along with two CAAQMS shall be installed in which all the parameters like PM10, PM2.5, SO2, NOX shall be monitored.

3. Water Quality Monitoring And Mitigation Measures

S. No	EC Conditions
3.1	The effluent discharge (mine waste water, workshop effluent) shall be monitored in terms of the parameters notified under the Water Act, 1974 Coal Industry Standards vide GSR 742 (E) dated 25th September, 2000 and as amended from time to time by the Central Pollution Control Board.
3.2	The monitoring data shall be uploaded on the company's website and displayed at the project site at a suitable location. The circular No.J-20012/1/2006-1A.11 (M) dated 27th May, 2009 issued by Ministry of Environment, Forest and Climate Change shall also be referred in this regard for its compliance.
3.3	The project proponent shall not alter major water channels around the site. Appropriate embankment shall be provided along the side of the river/nallah flowing near or adjacent to the mine. The embankment constructed along the river/nallah boundary shall be of suitable dimensions and critical patches shall be strengthened by stone pitching on the river front side, stabilized with plantation so as to withstand the peak water pressure preventing any chance of mine inundation.
3.4	Garland drains (of suitable size, gradient and length) around the critical areas i.e. mine shaft and low lying areas, shall be designed keeping at least 50% safety margin over and above the peak sudden rainfall and maximum discharge in the area adjoining the mine sites. The sump capacity shall also provide adequate retention period to allow proper settling of silt material of the surface runoff
3.5	The water pumped out from the mine, after siltation, shall be utilized for industrial purpose viz. watering the mine area, roads, green belt development etc. The drains shall be regularly desilted particularly before monsoon and maintained properly.
3.6	Industrial wastewater from coal handling plant and mine water shall be properly collected and treated so as to conform to the standards prescribed under the Environment (Protection) Act, 1986 and the Rules made thereunder, and as amended from time to time. Oil and grease trap shall be installed before discharge of workshop effluent. Sewage treatment plant (STP) of adequate capacity shall be installed for treatment of domestic wastewater.
3.7	An integrated surface drainage plan including surface water conservation plan for the area of influence affected by the said mining operations shall be prepared, considering the presence of any river/rivulet/pond/lake etc., with impact of mining activities on it, and implemented by the project

S. No	EC Conditions
	proponent. The surface drainage plan and/or any diversion of natural water courses shall be as per the provisions of the approved Mining Plan/ EIA-EMP submitted to this Ministry and the same should be done with due approval of the concerned State/GoI Authority. The construction of embankment to prevent any danger against inrush of surface water into the mine should be as per the approved mining plan and as per the permission of DGMS.
3.8	The project proponent shall take all precautionary measures to ensure reverian/ riparian ecosystem in and around the coal mine upto a distance of 5 km. A revarian /riparian ecosystem conservation and management plan should be prepared and implemented in consultation with the irrigation / water resource department in the state government.
3.9	Industrial effluent and domestic wastewater shall be treated in the Effluent treatment Plant (ETP) and Sewage Treatment Plant (STP). After treatment, treated water shall be reused for plantation.

4. Noise And Vibration Monitoring And Prevention

S. No	EC Conditions
4.1	Adequate measures shall be taken for control of noise levels as per Noise Pollution Rules, 2016 in the work environment. Workers engaged in blasting and drilling operations, operation of HEMM, etc shall be provided with personal protective equipments (PPE) like ear plugs/muffs in conformity with the prescribed norms and guidelines in this regard. Adequate awareness programme for users to be conducted. Progress in usage of such accessories to be monitored.
4.2	The noise level survey shall be carried out as per the prescribed guidelines to assess noise exposure of the workmen at vulnerable points in the mine premises, and report in this regard shall be submitted to the Ministry/RO on six-monthly basis.

5. Mining Plan

S. No	EC Conditions
5.1	Project proponent shall obtain star rating as per the guidelines of Ministry of Coal.
5.2	Mining shall be carried out under strict adherence to provisions of the Mines Act 1952 and subordinate legislations made there-under as applicable.
5.3	No change in mining method, calendar programme and scope of work shall be made without obtaining prior approval of the Ministry of Environment, Forest and Climate Change (MoEF&CC).
5.4	Mining shall be carried out as per the approved mining plan (including Mine Closure Plan) abiding by mining laws related to coal mining and the relevant circulars issued by Directorate General Mines Safety (DGMS).
5.5	Environmental conditions of mining place shall be rendered ergonomic and air breathable with adequate illumination in conformance with DGMS standards.
5.6	No mining shall be carried out in forest land without obtaining Forestry Clearance as per Van

S. No	EC Conditions
	(Sanrakshan Evam Samvardhan) Adhiniyam, Act 1980 and also adhering to the Scheduled Tribes and Other Traditional Forest Dwellers (Recognition of Forest Rights) Act, 2006 read with provisions of Indian Forest Act, 1927.

6. Land Recalvation

S. No	EC Conditions
6.1	Digital Survey of entire lease hold area/core zone using Satellite Remote Sensing survey shall be carried out at least once in three years for monitoring land use pattern and report in 1:50,000 scale or as notified by Ministry of Environment, Forest and Climate Change(MOEFCC) from time to time shall be submitted to MOEFCC/Regional Office (RO).
6.2	Post-mining land be rendered usable for agricultural/forestry purposes and shall be handed over to the respective State Government, as specified in the Guidelines for Preparation of Mine Closure Plan, issued by the Ministry of Coal dated 27th August, 2009 and subsequent amendments.
6.3	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.
6.4	The entire excavated area, backfilling, external OB dumping (including top soil) and afforestation plan shall be in conformity with the “during mining”/”post mining” land-use pattern, which is an integral part of the approved Mining Plan and the EIA/EMP submitted to this Ministry. Progressive compliance status vis-a-vis the post mining land use pattern shall be submitted to the MOEFCC/RO.
6.5	Further, it may be ensured that as per the time schedule specified in mine closure plan it should remain live till the point of utilization. The topsoil shall temporarily be stored at earmarked site(s) only and shall not be kept unutilized. The top soil shall be used for land reclamation and plantation purposes. Active OB dumps shall be stabilized with native grass species to prevent erosion and surface run off. The other overburden dumps shall be vegetated with native flora species. The excavated area shall be backfilled and afforested in line with the approved Mine Closure Plan. Monitoring and management of rehabilitated areas shall continue until the vegetation becomes self-sustaining. Compliance status shall be submitted to the Ministry of Environment, Forest and Climate Change/ Regional Office.
6.6	The project proponent shall make necessary alternative arrangements, if grazing land is involved in core zone, in consultation with the State government to provide alternate areas for livestock grazing, if any. In this context, the project proponent shall implement the directions of Hon'ble Supreme Court with regard to acquiring grazing land.

7. Public Hearing And Human Health Issues

S. No	EC Conditions
7.1	Adequate illumination shall be ensured in all mine locations (as per DGMS standards) and

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

8. Corporate Environment Responsibility

S. No	EC Conditions
8.1	The company shall have a well laid down environmental policy duly approve by the Board of Directors. The environmental policy should prescribe for standard operating procedures to have proper checks and balances and to bring into focus any infringements/deviation/violation of the environmental/forest/wildlife norms/conditions. The company shall have defined system of reporting infringements/deviation/violation of the environmental/forest/wildlife norms/conditions and/or shareholders/stake holders.
8.2	A separate Environmental Cell both at the project and company head quarter level, with qualified personnel shall be set up under the control of senior Executive, who will directly to the head of the organization.
8.3	Action plan for implementing EMP and environmental conditions along with responsibility matrix of the company shall be prepared and shall be duly approved by competent authority. The year wise funds earmarked for environmental protection measures shall be kept in separate account and not to be diverted for any other purpose. Year wise progress of implementation of action plan shall be reported to the Ministry/Regional Office along with the Six Monthly Compliance Report.

9. Miscellaneous

S. No	EC Conditions
9.1	The project proponent shall make public the environmental clearance granted for their project along with the environmental conditions and safeguards at their cost by prominently advertising it at least in two local newspapers of the District or State, of which one shall be in the vernacular language within seven days and in addition this shall also be displayed in the project proponent's website permanently.
9.2	The copies of the environmental clearance shall be submitted by the project proponents to the Heads of local bodies, Panchayats and Municipal Bodies in addition to the relevant offices of the Government who in turn has to display the same for 30 days from the date of receipt.
9.3	The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website and update the same on half-yearly basis.
9.4	The project proponent shall submit six-monthly reports on the status of the compliance of the stipulated environmental conditions on the website of the ministry of Environment, Forest and Climate Change at environment clearance portal.
9.5	The project proponent shall submit the environmental statement for each financial year in Form-V to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently and put on the website of the company.
9.6	The project authorities shall inform to the Regional Office of the MOEFCC regarding commencement of mining operations.
9.7	The project authorities must strictly adhere to the stipulations made by the State Pollution Control Board and the State Government.
9.8	The project proponent shall abide by all the commitments and recommendations made in the EIA/EMP report, commitment made during Public Hearing and also that during their presentation to the Expert Appraisal Committee.
9.9	No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment, Forests and Climate Change.
9.10	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.
9.11	The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.
9.12	The Ministry reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.
9.13	The Regional Office of this Ministry shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer (s) of the Regional Office by furnishing the requisite data / information/monitoring reports.
9.14	The above conditions shall be enforced, inter-alia under the provisions of the Water (Prevention

S. No	EC Conditions
	<p>& Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous and Other Wastes (Management and Trans-boundary Movement) Rules, 2016 and the Public Liability Insurance Act, 1991 along with their amendments and Rules and any other orders passed by the Hon'ble Supreme Court of India / High Courts and any other Court of Law relating to the subject matter.</p>

