



सत्यमेव जयते

File No.: IA-J-11015/17/2025-IA-II(M)
Government of India
Ministry of Environment, Forest and Climate
Change
IA Division



Dated 19/02/2026



To,

Mr. Bhaskar Singh Rawat
M/s. JK Cement Limited
JK Cement Limited, Kamla Tower, Kanpur Uttar Pradesh 208001
E-mail: bhaskar.rawat@jkcement.com

Subject: Mahan Underground Coal Mine (having production capacity of 1.2 MTPA within the ML area of 981.75 Ha) by M/s JK Cement Limited, located at villages: Amiliya & Budher; Tehsil: Manda & Sarai; District: Singrauli; State: Madhya Pradesh –Environment Clearance – regarding

Sir/Madam,

This is with reference to your online application vide proposal no. IA/MP/CMIN/559641/2025 dated 03.12.2025 along with written submission dated 02.01.2026 and submission of Stage I FC on 16/02/2026 seeking for Environmental Clearance under the provision 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.	EC25A0102MP5268543N
(ii) File No.	IA-J-11015/17/2025-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	Mahan Underground Coal mine
(viii) Location of Project (District, State)	Singrauli, Madhya Pradesh
(ix) Issuing Authority	MoEF&CC
(x) Applicability of General Conditions	No

3. M/s JK Cement Limited has made an application online vide proposal no. IA/MP/CMIN/559641/2025 dated 03.12.2025 along with copy of EIA/ EMP report and CAF seeking for Environment Clearance (EC) under the provisions of the EIA Notification, 2006, for the project mentioned above.

4. The proposed project activity is listed at schedule no.1 (a) under Category “A” of the schedule of the EIA Notification, 2006. The project does not attract General Conditions as specified in Schedule of the EIA Notification, 2006.

5. The instant Proposal was considered in 37th EAC meeting held during 22-23rd December, 2025. The written submission was submitted on 02.01.2026. The MoM for the same may be seen using the web link: parivesh.nic.in.

Details submitted by the project proponent

6. The project of M/s JK Cement Limited is a Greenfield project for production capacity of 1.2 MTPA within the ML area of 981.75 Ha, located at villages: Amiliya & Budher; Tehsil: Manda & Sarai; District: Singrauli; State: Madhya Pradesh.

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

Project does not fall in the Critically Polluted Area (CPA)/Severally Polluted Area (SPA), as per CEPI Assessment, 2018. The project lies about 17.8 km from the Singrauli Severely Polluted Area. Letter has been issued by MPPCB, Bhopal vide letter dated 01.09.2025 in this regard.

Forest Area: The project involves total 975.497 Ha of forestland. Application for forestland diversion for 975.497 ha has been made vide application no. FP/MP/MIN/QRY/536130/2025 dated 27.06.2025 and Stage - I FC obtained on 14/02/2026.

Protected Area: There is no National Park, Eco-Sensitive Zones, biosphere reserve/tiger reserve/elephant reserve/tiger corridor/elephant corridor and Wildlife Sanctuary area present within 10 km buffer which has been duly certified by the PCCF (WL) and CWW Madhya Pradesh vide letter no. 7496 dated 21.08.2025. There are 29 species that fall under the Schedule-I category as per the Wildlife (Protection) Amendment Act, 2022. A comprehensive Conservation Plan with budgetary provision of Rs. 344 Lakhs for conservation of schedule-I species has been prepared and approved by PCCF (Wildlife), Madhya Pradesh on 29.12.2025.

Mine Lease Details: Mahan Coal Mine (Singrauli Main Basin), covering an area of 981.75 Ha, has been allotted to M/s JK Cement Limited for Commercial Coal Mining purpose by GoI, Ministry of Coal vide order no. NA-104/18/2024-NA; dated 18th December 2024. The mining operation is scheduled to begin in 2029-30 and will continue for 41 years, concluding around 2069-70.

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

Out of the total lease area of 981.45 ha, 6.253 ha is agriculture land and 975.497 ha forest land. Only 24 Ha (forest land) is proposed to be acquired for surface infrastructure.

Other Sensitive Receptors:

Project site proximity to sensitive area	Distance in km (within 5 km from the ML area)		
	Village	Distance (Km)	Direction
i. Habitation	Budheri	Adjacent	W
	Karwahi	0.8	SW
	Badhaura	1.3	SE
	Amilia	2.4	ESE
	Khairahi	2.4	SE
	Barwatola	2.4	W
	Bhalyatola	2.7	WSW

Project site proximity to sensitive area	Distance in km (within 5 km from the ML area)		
	Village	Distance (Km)	Direction
	Suhira	3.4	ENE
	Raila	4.6	ESE
	Karsua	3.9	SE
	Nagwa	4.5	SE
	Dhirauli	3.8	SW
	Sarbahara	4.4	SW
	Pertali	4.0	SW
	Bandha	4.3	N
	Badanmara	3.2	NE
	Badratola	4.5	NE
	ii. School	Schools	Distance(Km)
UEGS, Budher		0.3	W
UEGS, Semua		0.9	SSE
Government Middle school, Bandhaura		1.4	SE
Amiliya M.S. school		1.7	ENE
P.s public school, suhira		2.6	ESE
Government Primary school Jamgadi		4.7	NW
Middle school Jamgadi		4.9	NW
iii. River/ Waterbody	Water body	Distance (Km)	Direction
	Nallah	Passing through the Project Site	
	Mahan Nala	3.9	NW
	Hurdul Nala	4.8	SW
	Sukhra Nala	6.4	SE
iv. Forest	Reserved/ Protected forests	Distance (In km)	Direction
	Mohanban RF	Inside the Project Site	
	Pidarwah PF	3.3	North
v. Archaeological Survey of India (ASI) protected site	No		
vi. Any other	Hospitals/ Health Centres:		
	Hospitals/Health Centres	Distance (km)	Direction
	Primary Health Care Centre, Khanua Khas	6.55	W
	Primary Health Care Centre, Bhalyatola	4.7	SW
	Industries:		
	Industries	Distance (km)	Direction
	Mahan Energen Limited (Thermal Power Plant)	1.0	SSE
	Dhirauli Coal Block	3.4	SSW
Suliyari Coal Mine	1.0	SSW	
Amelia South Coal Block	2.3	NE	

• **Details of diversions proposed or previously diverted:** No diversion is proposed for the project, and there has been no previous diversion.

• **Mitigation measures proposed for the sensitive receptors**

Out of 981.75 Ha total Mine lease area, Forest area 975.497 ha, Govt. Non Forest-2.063 ha and Tenancy land 4.19 ha. Only 24.00 ha land will be required for infrastructure and UG entry.

Forest: The Project area consist 981.75 Hectare area. Out of 981.75 Ha of Mine Lease area, 975.497 Ha is Forest Land.
Habitation: There is no habitation within mine block and the nearest habitation of village Budheri which is adjacent to mine boundary and about 2.0 km from the proposed mine infrastructure.
Schools: There are 2 schools which are located near the mine lease area.
Water Bodies: The mine site is drained by one seasonal nala flows north westerly in northern part of the proposed mine. No diversion of Nala is proposed and the subject mine will be an underground; hence, no impact is envisaged.

During the mining operation, the following precautionary and mitigation measures will be implemented:

- As the project involves underground mining, no displacement or relocation of population is envisaged at any stage.
- The nearest schools and habitations are located approximately 2.5 km from the proposed infrastructure and will not be affected by mining activities.
- Drilling and blasting are not proposed, except limited operations in Seam VIII with a production capacity of 0.2 MTPA.
- All mining activities will be confined within the approved mine lease area, with 24.0 hectares utilized for roads, underground entries, and associated infrastructure.
- Mining operations will not be carried out near public infrastructure such as roads, buildings, or inhabited areas.
- Mining will be conducted strictly in accordance with the approved Mining Plan and in compliance with the guidelines of the Ministry of Coal, Government of India, and the Director General of Mines Safety (DGMS).
- Dust control measures, including regular water sprinkling, will be implemented to minimize fugitive emissions and prevent impacts on nearby sensitive receptors.
- Only PUC-certified vehicles will be used for transportation, and all coal transport vehicles will be fitted with automatic mechanical tarpaulin covers of minimum 400 GSM thickness.
- Greenbelt and plantation activities will be undertaken along transportation routes, near sensitive receptors, and around schools and residential areas.
- Gap plantation in forest patches will be carried out in consultation with the Forest Department.
- Regular monitoring of ambient air quality and noise levels will be carried out at the project boundary and nearby sensitive locations.

8. Details of ToR:

Date of applications	Details	Date of Accord	ToR Validity
27.06.2025	Proposal no. IA/MP/CMIN/539369/2025 Mahan Underground Coal Mine (ML area: 981.75 Ha having production capacity 1.2 MTPA)	09.08.2025	08.08.2029

9. Details of Mining Plan: Mine plan & Mine Closure plan for the project were approved by the Ministry of Coal vide letter no. MAHAN COAL MINEMPMP051/APP00319/2025, dated 11.06.2025.

i. Method of Mining to be adopted shall be underground. Excavation of Coal is through Bord and Pillar with Caving or any other suitable method by deploying Continuous Miner and Drilling and Blasting with LHDs. Continues Surface Miner (CM) technology for development & depillaring. The waste/OB handling is with shovel/dumper combination/dragline etc. This is an underground mine with generation of small quantity of waste, which will be generated by incline drivage and shaft sinking.

ii. Total geological reserve reported in the mine lease area is 107.06 MT with 53.51 MT mineable reserves. Out of total mineable reserve of 53.51 MT, 40.30 MT are available for extraction. Percent of extraction is 37.64%.

iii. 3 seams with thickness ranging from 0.5 m to 8.37 m are workable. Grade of coal is G-8, while gradient is 2° to 3°.

iv. Life of mine is 41 years (Including Construction Period).

v. Details of Land use:

A. Pre-mining land use pattern:

S. No.	Land Use	Within MLArea (ha)	Outside MLArea (ha)	Total
1.	Agricultural Land	6.253	Nil	6.253
2.	Forest land	975.497	Nil	975.497

S. No.	Land Use	Within ML Area (ha)	Outside ML Area (ha)	Total
3.	Waste Land	-	Nil	-
4.	Grazing Land	-	Nil	-
5.	Surface Water Bodies	-	Nil	-
6.	Settlements	-	Nil	-
7.	Other (Specify)	-	Nil	-
Total		981.75	-	981.75

B. Post-Mining land use pattern:

S. No.	Type	Total Area	Reclaimed Area	Un-reclaimed area
1.	Excavation/Quarry Area:	-	-	-
	(a) Backfilled areas	-	-	-
	(b) Excavated Void	-	-	-
2.	External Dump	-	-	-
3.	Safety Zone	-	-	-
4.	Road and Infrastructure	23.0	23.0	-
5.	Garland Drains	-	-	-
6.	Embankment	-	-	-
7.	Others (UG Entry)	1.0	1.0	-
8.	Others (Green belt)	14.808	14.808	-
9.	Others (Undisturbed)	942.942	-	942.942
Total		981.75	38.808	942.942

vi. **Details of transportation of Coal:** The coal is proposed to transport within the outside mining lease in the following manner:

a. **In Pit:** Conveyor Belt

b. **Surface to siding:** Coal will be loaded into consumers' trucks for onward transportation either directly to their destinations or to the nearest railway siding, i.e. Gajra Bahera railway Siding located at a distance of 8.7 km from the ML area.

c. **Siding to loading:** Front-end loaders will be used to load coal into the wagons of the rake for rail transportation.

d. **Quantity to be transported by Road/ Rail/ conveyer/ ropeway:** 1.2 MTPA

e. **Proposed change in transportation means if any:** No

vii. **Details of reclamation:** The afforestation plan shall be done progressively covering an area of 38.808 ha at the end of mining. This will include greenbelt of 14.808 Ha. Apart from this, 23.0 ha for road & infrastructure area and 1.0 ha for UG Entry will also be reclaimed with plantation at the end of mining. Density of plantation will be 2500 plants per Ha.

10. Baseline Data:

AAQ parameters at 10 Locations (min and max)	<p>Core Zone</p> <p>PM₁₀ = 32.7 to 44.2 µg/m³</p> <p>PM_{2.5} = 19.6 to 26.4 µg/m³</p> <p>SO₂ = 7.0 to 14.4 µg/m³</p> <p>NO_x = 12.0 to 24.6 µg/m³</p> <p>CO = BLQ (Below Limit of Quantification)</p> <p>Buffer Zone</p> <p>PM₁₀ = 32.4 to 58.6 µg/m³</p> <p>PM_{2.5} = 18.8 to 34.9 µg/m³</p> <p>SO₂ = 7.1 to 18.6 µg/m³</p> <p>NO_x = 11.9 to 31.5 µg/m³</p>
Incremental GLC Level	<p>PM_{2.5} = 0.046 to 2.295 µg/m³</p> <p>SO₂ = 0.006 to 0.312 µg/m³</p> <p>Nox = 0.008 to 0.436 µg/m³</p>

Ground water quality at 10 Locations	pH: 7.22 to 7.65, Total Dissolved solids: 292 to 396 mg/l; Hardness: 196 to 254 mg/l; Chlorides: 40.12 to 92.65 mg/l, Fluoride: 0.47 to 0.64 mg/l. Heavy metals Fe: 0.2 to 0.33 mg/l, Zinc as Zn: 0.89 to 1.65 mg/l, Copper as Cu: <0.002mg/l, Cyanide as CN: <0.002mg/l, Aluminium as Al: <0.005mg/l, Boron: <0.01 mg/l, Chromium as Cr: <0.002mg/l, Phenolic Compound: <0.0005mg/l, Manganese as Mn: <0.01 mg/l, Cadmium as Cd: <0.002 mg/l, Lead as Pb: <0.002 mg/l, Selenium as Se: <0.001 mg/l, Arsenic as As: <0.005 mg/l, Mercury as Hg: <0.0005mg/l, Total Coliform: <1.8 MPN/100ml.																																								
Surface water quality at 10 Locations	All the Parameters Like pH varies from 7.39 to 7.85, Total Hardness varies from 92.4 to 138.48mg/l, Total Dissolved Solids varies from 190 to 295mg/l, Dissolved Oxygen varies from 5.8 to 6.6mg/l, BOD: 2.1 to 18 mg/l. COD from 13 to 59 mg/l. Fe: 0.18 to 0.36 mg/l, Aluminium as Al: BLQ(LOQ-0.005)mg/l, Boron: 0.11 to 0.82 mg/l, Chromium as Cr: <0.002mg/l, Phenolic Compound:<0.0005mg/l, Zinc as Zn: 0.29 to 2.28 mg/l, Copper as Cu:0.11 to 0.67 mg/l, Manganese as Mn: <0.01 mg/l, Cadmium as Cd: <0.002 mg/l, Total Coliform: 700 to 1500 MPN/100ml., E. Coli: 330 to 840 MPN/100ml etc. are found within the permissible limits.																																								
Noise levels Leq (Day and Night)	<p>Core Zone (Residential Zone) 38.52 to 38.52 dB(A) for the day time and 30.68 to 30.68 dB(A) for the Night time.</p> <p>Buffer Zone (Silent Zone) 39.87 to 39.87 dB(A) for the day time and 32.25 to 32.25 dB(A) for the Night time.</p> <p>Buffer Zone (Residential Zone) 43.96 to 51.25 dB(A) for the day time and 37.85 to 41.25 dB(A) for the Night time.</p>																																								
Traffic assessment study findings	<p>Traffic study has been conducted at SH-55 (Near Tata Motors Amiliya Village), SH-55 Road (Near Jarha Village) and NH-39 (Near Parsauna Village) which is approximately SH-55 adjoining to NH-39 24 km (distance) from the mine site.</p> <p>Transportation of mineral will be done 100% by road.</p> <p>Existing PCU/day on (NH/SH/MDR) and existing level of service (LOS) is:</p> <table border="1" data-bbox="459 1115 1468 1301"> <thead> <tr> <th>Road</th> <th>V (Volume in</th> <th>C (Capacity In PCU/day)</th> <th>Existing V/C Ratio</th> <th>LOS</th> </tr> </thead> <tbody> <tr> <td>T1 (SH-55)</td> <td>405</td> <td>6000</td> <td>0.07</td> <td>A</td> </tr> <tr> <td>T2 (SH-55)</td> <td>884</td> <td>6000</td> <td>0.15</td> <td>A</td> </tr> <tr> <td>T3 (NH-39)</td> <td>8038</td> <td>35000</td> <td>0.23</td> <td>B</td> </tr> </tbody> </table> <p>PCU load after proposed project will be(Existing) +(Additional) PCU/day and level of service (LOS) will be:</p> <table border="1" data-bbox="459 1402 1468 1599"> <thead> <tr> <th>Road</th> <th>V (Volume in</th> <th>C (Capacity In PCU/day)</th> <th>Existing V/C Ratio</th> <th>LOS</th> </tr> </thead> <tbody> <tr> <td>T1 (SH-55)</td> <td>405+282 = 687</td> <td>6000</td> <td>0.11</td> <td>A</td> </tr> <tr> <td>T2 (SH-55)</td> <td>884+282 = 1166</td> <td>6000</td> <td>0.19</td> <td>A</td> </tr> <tr> <td>T3 (NH-39)</td> <td>8038+282 = 8320</td> <td>35000</td> <td>0.23</td> <td>B</td> </tr> </tbody> </table> <p>Note: Capacity as per IRC 064: Guidelines for Capacity of Roads in Rural Areas Guide line for capacity for roads.</p> <p>Conclusion: Due to the proposed mining project, traffic density is expected to increase, as coal will be transported via the State and National Highways to local consumers. However, the LOS is expected to remain at the existing levels of “Excellent” and “Very Good.”</p>	Road	V (Volume in	C (Capacity In PCU/day)	Existing V/C Ratio	LOS	T1 (SH-55)	405	6000	0.07	A	T2 (SH-55)	884	6000	0.15	A	T3 (NH-39)	8038	35000	0.23	B	Road	V (Volume in	C (Capacity In PCU/day)	Existing V/C Ratio	LOS	T1 (SH-55)	405+282 = 687	6000	0.11	A	T2 (SH-55)	884+282 = 1166	6000	0.19	A	T3 (NH-39)	8038+282 = 8320	35000	0.23	B
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Flora and fauna	There are 29 species that fall under the Schedule-I category as per the Indian Wildlife (Protection) Amendment Act, 2022. A comprehensive Conservation Plan with budgetary provision of Rs 344 Lakhs for conservation of schedule-I species has been prepared and approved by DFO and forwarded to PCCF (WL) dated 28.11.2025 for final approval. Thereafter, the CCF, Rewa, examined and approved the WLCP, and the plan was forwarded to the PCCF (Wildlife), Bhopal, on 08.12.2025 for final approval. The complete WLCP along with forwarding letters has been submitted to the PCCF (Wildlife) Office, Bhopal, on																																								

	10.12.2025 and WLCP is approved by PCCF (Wildlife), Madhya Pradesh on 29.12.2025.
Water Requirement	Source of Water: Domestic use: Ground Water For Mine Use: Mine Sump (After Treatment) Ground water intersection: Yes

11. Details of Water Requirement: The water requirement for the said project is 2620 KLD and the same will be sourced from ground water and the mine sump water. NOC for the same from CGWA has been obtained vide letter no NOC/MIN/MP/11462 dated 25.08.2025. Since it is an Underground mine, no water body is proposed to be diverted for the same.

12. Public Consultation/ Hearing:

Details of advertisement given	Advertised in Nav Bharat , Singrauli Mirror and The Times of India on 17.09.2025
Date of public consultation	24.10.2025
Venue	Budher, 450 m from Primary School, Budher
Presiding Officer	Additional Collector (In-Charge), Singrauli, Madhya Pradesh. Regional Officer, MP Pollution Control Board, Regional Office Singrauli Sub-Divisional Magistrate (Deosar), Sub-Divisional Magistrate (Mada), and SDOP, Deosar, District Singrauli, were also present.
Number of Person Attended Hearing	1700 (approx.)
Number of representation received in writing from the district and outside of district, please give details:	Written representations: 78 nos.
Major issues raised	Education, Health, Infrastructure Development etc.

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

S. No.	Proposed Activities under Public Hearing	Place of Implementation	Year-wise Financial Outlay (Rs. Lakhs)					Total Cost (Rs. Lakhs)	Recurring Cost (Rs. Lakhs)
			1 st	2 nd	3 rd	4 th	5 th		
1	Education								
i)	Upgrade facilities in schools, establishing smart classrooms, labs, Computes and furniture for education	Village Ameliya and Budher	5	5	5	5	5	25	5
ii)	Installation of Sanitary Napkins Pad Vending Machine and Maintenance	Village Ameliya and Budher	2	2	2	2	2	10	2
2	Infrastructure Development								
i)	Construction and improvement of Roads	Village Ameliya	5	15	5	5	15	45	9
ii)	Improvement of Water facilities	Village Ameliya, Suggo and Budher	4	4	4	4	4	20	4
iii)	Dedicated Mobility Support for Local Community to strengthen last mile access	Village Ameliya, and Budher	40	4	4	4	4	56	11.2
iv)	Construction of Toilets for the	Village Ameliya, and Budher	5	5	5	5	5	25	5

S. No.	Proposed Activities under Public Hearing	Place of Implementation	Year-wise Financial Outlay (Rs. Lakhs)					Total Cost (Rs. Lakhs)	Recurring Cost (Rs. Lakhs)
			1 st	2 nd	3 rd	4 th	5 th		
	needy households								
3	Health								
i)	24-hr Ambulance and its maintenance (1 Noa)	Village Ameliya, and Budher	0	30	2	5	2	39	7.8
ii)	24-hr Mobile Van and its maintenance (1 Nos)	Village Ameliya, and Budher	50	2	2	2	2	58	11.6
iii)	Health Camps, Medicines and other medical facilities	Village Ameliya, and Budher	5	5	5	5	5	25	5
4	Skill Development								
i)	Supporting surrounding Villages women Empowerment by providing training women regarding (Stitching, Beautician, Fashion Designing, etc.)	Village Ameliya, and Budher	5	5	5	5	5	25	5
5	Agricultural Facilities								
i)	Catal Breed improvement through artificial insemination	Village Ameliya, and Budher	25	25	25	25	25	125	25
ii)	Conducting Training programs on modern agricultural techniques to enhance productivity once every three months in consultation with the Krishi Vigyan Kendra. In the nearby village.	Village Ameliya, Suggo and Budher	10	10	10	10	10	50	10
Total Budget			156	112	74	77	84	503	100.6

13. Project Cost and EMP Cost: The capital cost of the proposed project is Rs. 88000 Lakhs and the capital cost for environmental protection measures is proposed as Rs. 2018.5 Lakhs. The annual recurring cost towards the environmental protection measures is proposed as Rs. 149.23 lakhs. The employment generation from the proposed project is 1113 through direct and indirect employment. The details of cost for environmental protection measures is as follows:

S. No.	Particulars	Capital Cost	Recurring Cost/annum
		(In Lakhs)	(In Lakhs)
1	Air Pollution Control	70	7

S. No.	Particulars	Capital Cost	Recurring Cost/annum
		(In Lakhs)	(In Lakhs)
2	Water Pollution Control	152.5	15.25
3	Noise Control	15	1.5
4	Pollution Monitoring (including 2 nos. of CAAQMS)	140	12.58
5	Green Belt Development, Gap Plantation & Plantation within ML Area & Community Area	650	50.75
6	Conservation of Natural Resources	350	15
7	Fire Fighting Equipment	160	11
8	Occupational Health	50	5
9	Top Soil Management/Soil Conservation	1	0.05
10	Awareness Programme (Display Boards etc.)	10	1
11	CCTV monitoring (transport, mine blast, dust etc.)	10	0.1
12	Installation of Solar Plant	300	10
13	Environment Lab Establishment	60	15
14	Pond (Water Bodies) Rejuvenation & Conservation Activities	50	5
Total		2018.5	149.23

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

S. No.	Type of Waste	Source	Quantity (TPA)	Mode of Treatment	Disposal
1.	Municipal Solid waste	Domestic waste from site office, Canteen etc.	405	Authorized Vendors	Disposed off as per the solid waste management rule, 2016
2.	Plastic Waste	Site office, Canteen etc.	61	CPCB/SPCB Authorized recycling Vendors	Plastic Waste Management (Amendment) Rules, 2024
3.	Electronic Waste	Computers, switches, cables etc.	2.45	Authorized Vendors	As per E- Waste (Management) Rules, 2022
4.	Used Batteries	Vehicles at sites	1	Authorized Vendors	As per Batteries Management rules 2022, sold to authorize vendors for recycling/refurbishment.
5.	Biomedical Waste	Primary Health Center	0.8	Tie up with Community health center	Yellow & Red
6.	Used Oils, Waste Oil, Empty Oil barrels	Mine Workshop	4.0	Authorized Vendors	Handed over to CPCB/SPCB authorized vendor

15. Power Requirement and details of diversion of Hi-tension/ Transmission line: The Installed power of the mines will be at 12 MW of which the maximum demand may reach up to 10 MW. The power will be catered from the available 33KV Sub-station located at an aerial distance of approximately 10 km from mines. The Sub Station is at voltage levels of 132/33kV located in Nagwa, MP. Incoming Line will be Double Circuit Line such that even if one circuit fails, the other circuit will be capable to cater entire load of mine. There is no diversion of HT/Transmission Line as the proposal is for underground coal mining.

16. Plantation: Proposed greenbelt will be developed in 14.808 ha which is about 1.5% of the total ML area. Thus total of 38.808 ha area (3.9% 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 and green cover as per CPCB/MoEF&CC, New Delhi guidelines. Local and native species will be planted with a density of 2500 trees per hectare.

17. Rehabilitation & Resettlement issues: 99.36% of the total mine lease area is forestland, remaining 6.253 ha is agricultural land and no surface activity will be carried out on the agricultural land. Therefore, no R&R is proposed in the said project.

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

19. Details of CTE: In compliance to the Ministry's OM dated 14.01.2025 and 08.10.2025, PP has obtained CTE vide consent no. CTE-63434, dated 28.11.2025 from MPPCB.

20. Written submission: PP submitted the following information/ documents during the meeting:

i. The nearest railway siding to the mine lease area is the Gajra Bahera Railway Siding, located at a distance of 8.7 Km from the mine lease. Avenue plantation will be undertaken along the road connecting the mine lease area to the Gajra Bahera Railway Siding, with approximately 15,000 saplings proposed to be planted along the route.

ii. The budget allocation for Green Belt Development, Gap Plantation, Plantation within the Mine Lease (ML) Area, and Community Area has been enhanced from Rs. 468 lakhs to Rs. 650 lakhs, inclusive of the proposed avenue plantation.

iii. The company will explore feasibility for use of EV vehicles with the commencement of mining operation.

iv. An Integrated Watershed Management Plan has been prepared by Hydro-Geosurvey Consultants Pvt. Ltd. covering rainwater harvesting, soil and water conservation. The study involved DEM and watershed delineation, identification of high runoff and erosion zones, and design of suitable recharge structures. Based on the hilly terrain and drainage characteristics of the lease area, recharge structures including Concrete Nala Bunds and Earthen Nala Bunds, along with supporting contour trenches, have been proposed on first- and second-order streams to enhance groundwater recharge, reduce runoff and soil erosion, and improve soil moisture. This will be implemented in consultation with state forest department during mine development and operation phase. Accordingly, the budget for these interventions has been enhanced from 157 lakhs to 350 lakhs.

v. The overall capital expenditure under Environmental Management Plan (EMP) has been increased from Rs. 1643.50 Lakhs to Rs. 2018.50 Lakhs and the recurring cost has been increased from Rs. 133.43 Lakhs/ year to 149.23 Lakhs/ year. Copy of updated EMP is submitted.

vi. Approved Wildlife Clearance Plan along with the approval letter of PCCF is submitted.

Deliberations and Observation of the Committee:

21. The Committee noted the following:

i. The instant proposal is for grant of environment clearance to M/s. JK Cement Limited for Mahan Underground Coal Mine (having production capacity of 1.2 MTPA within the ML area of 981.75 Ha), located at villages: Amiliya & Budher; Tehsil: Manda & Sarai; District: Singrauli; State: Madhya Pradesh.

ii. The instant proposal is a Greenfield underground mining project.

iii. The EAC took into consideration the project site through kml file on the Google Earth presented by the project proponent along with DSS of the project site on PARIVESH.

iv. Project does not fall in the Critically Polluted Area/ Severely Polluted Area, as per CEPI Assessment 2018. The project lies about 17.8 km from the Singrauli Severely Polluted Area. In this regard, letter has been issued by MPPCB, Bhopal on 01.09.2025.

v. The project involves total 975.497 Ha of forestland. Application for forestland diversion for 975.497 ha has been made vide application no. FP/MP/MIN/QRY/536130/2025 dated 27.06.2025. Committee observed that about 99.36% of the total project area is located in the forestland. Mine infrastructure is also proposed to be installed in the forestland (24 Ha to be used for mine infrastructure). Member Secretary apprised the EAC that, as per OM dated 09/09/2011, after the EAC has recommended the project for environmental clearance, it would be processed on file for obtaining decision of the Competent Authority for grant of environmental clearance. In the cases where the Competent Authority has approved the grant of environmental clearance, the proponent will be informed of the same and a time limit of 12 months will be given to submit the requisite Stage – I forestry clearance. On receipt of the same, formal EC letter will be issued by the Ministry.

vi. The project is not located within 10 km of any ESZ/ ESA/ national park/ wildlife sanctuary/ biosphere reserve/ tiger reserve/ tiger corridor/ elephant reserve/ elephant corridor etc. PP has obtained the distance certificate vide letter no. 7496 dated 21.08.2025, duly certified by PCCF (WL) and CWW Madhya Pradesh.

vii. There are 29 species that fall under the Schedule-I category as per the Indian Wildlife (Protection) Amendment Act, 2022. A comprehensive Conservation Plan with budgetary provision of Rs. 344 Lakhs for conservation of schedule-I species has been prepared and approved by the PCCF (Wildlife), Madhya Pradesh on 29.12.2025. Committee opined that the same shall be implemented in a time bound manner.

viii. Committee deliberated on the sensitive receptors present within the ML area and within the buffer zone. Committee observed that, as 99.36% of the total ML area is forestland, there is no sensitive receptor present within the ML area, except a nallah. Committee observed that there are 4 nos of schools present within 2 km of the ML area and opined that, thick plantation shall be carried out around these schools with the native species within 2 years from the date of grant of EC by planting saplings of not less than 4 feet height. Apart from this, PP shall install solar lights and make the provision for drinking water and the sanitary water in the said schools.

ix. The ToR for the said project was granted vide letter dated 09.08.2025.

x. The Mining Plan and Mine Closure Plan approved by Ministry of Coal vide letter no. MAHAN COAL MINEMPMP051/APP00319/2025, dated 11.06.2025.

xi. Method of Mining to be adopted shall be underground. Excavation of Coal is through Bord and Pillar with Caving or any other suitable method by deploying Continuous Miner and Drilling and Blasting with LHDs. Continues Surface Miner (CM) technology for development & depillaring. The waste/OB handling is with shovel/dumper combination/dragline etc. This is an underground mine with generation of small quantity of waste, which will be generated by incline drivage and shaft sinking.

xii. Total geological reserve reported in the mine lease area is 107.06 MT with 53.51 MT mineable reserves. Out of total mineable reserve of 53.51 MT, 40.30 MT are available for extraction. Percent of extraction is 37.64%. 3 seams with thickness ranging from 0.5 m to 8.37 m are workable. Grade of coal is G-8, while gradient is 2° to 3°. Life of mine is 41 years (Including Construction Period).

xiii. Committee deliberated on the method of transportation of coal proposed for the said mines and observed that, the coal from in-pit to surface will be transported using conveyor, from surface to siding the same will loaded into consumers' trucks for onward transportation either directly to their destinations or to the nearest railway siding, i.e. Gajra Bahera railway Siding located at a distance of 8.7 km from the ML area. Committee opined that plantation with the native species (of height not less than 4 feet) shall be done on both the side of the entire transportation road. Further PP shall also explore to deploy EV dumpers for transportation of coal. Also, PP shall carryout regular maintenance of the potholes on roads, repair and maintenance of roads, scrapping of material fallen on roads, and removal of scraps from mining areas.

xiv. The baseline data for the said project has been carried out during December 2024 to February 2025. The environmental parameters are observed to be within the prescribed norms. Committee opined that PP shall install at least 2 nos of CAAQMS in the said mines, one each in the core zone and the buffer zone.

xv. The water requirement for the said project is observed to be 2620 KLD and the same will be sourced from ground water and the mine sump water. NOC for the same from CGWA has been obtained vide letter no NOC/MIN/MP/11462

dated 25.08.2025. Since it is an Underground mine, no water body is proposed to be diverted for the same.

xvi. Committee deliberated on the public hearing conducted for the said project. The same was conducted on 24.10.2025, and approx. 1700 people attended the same. Total 31 written representations and 47 verbal representations were received from within and outside the district. Committee found the PH action plan to be inadequate and sought a rectified PH action plan and PP submitted the same. The total amount proposed to be spent is Rs. 503 Lakhs. Committee opined that the same shall be utilized in the time bound manner.

xvii. Committee deliberated on the EMP budget submitted by the PP and found the same to be in-adequate. PP resubmitted the same after envisaging the changes suggested by the Committee. Capital cost allotted is Rs. 2018.5 Lakhs and recurring cost allotted is Rs. 149.23 Lakh/ Annum. Committee opined that the same shall be used in a time bound manner.

xviii. The Installed power of the mines will be at 12 MW of which the maximum demand may reach up to 10 MW. The power will be catered from the available 33KV Sub-station located at an aerial distance of approximately 10 km from mines. The Sub Station is at voltage levels of 132/33kV located in Nagwa, MP. Incoming Line will be Double Circuit Line such that even if one circuit fails, the other circuit will be capable to cater entire load of mine. There is no diversion of HT/Transmission Line as the proposal is for underground coal mining.

xix. Committee deliberated on the development of greenbelt and observed that, PP has proposed greenbelt development in 14.808 ha which is about 1.5% of the total ML area. Thus total of 38.808 ha area (3.9% 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 and green cover as per CPCB/MoEF&CC, New Delhi guidelines. Local and native species will be planted with a density of 2500 trees per hectare. Total no. of 25000 saplings will be planted and nurtured in 14.808 hectares in 5 years. In addition to this plantation shall be carried out in nearby village community area and Gap Planation in Forest, no dumping is proposed for the project. Committee opined that PP shall also focus on community plantation and shall distribute fruit bearing species to the villagers to plant and nurture the same. Committee further suggested that, gap plantation shall also be done in the forestland.

xx. 99.36% of the total mine lease area is forestland, remaining 6.253 ha is agricultural land and no surface activity will be carried out on the agricultural land. Therefore, no R&R is proposed in the said project.

xxi. The capital cost for the project is Rs. 88000 Lakhs.

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

xxiii. The Committee noted that the EIA/EMP report is in compliance of the ToR issued for the project, reflecting the present environmental status and the projected scenario for all the environmental components.

xxiv. The EAC found the written submissions of the project proponent to be satisfactory.

Recommendations of the Committee:

22. Based on the discussions held and the documents submitted, the EAC **recommended** the proposal of Environment Clearance for “*Mahan Underground Coal Mine (having production capacity of 1.2 MTPA within the ML area of 981.75 Ha) by M/s. JK Cement Limited, located at villages: Amiliya & Budher; Tehsil: Manda & Sarai; District: Singrauli; State: Madhya Pradesh*”, under the provisions of EIA Notification, 2006 (as amended), subject to the compliance of the following specific conditions in addition to the general/Standard EC conditions (**Annexure-I**).

23. 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. JK Cement Limited** for “*Mahan Underground Coal Mine (having production capacity of 1.2 MTPA within the ML area of 981.75 Ha), located at villages: Amiliya & Budher; Tehsil:*

Manda & Sarai; District: Singrauli; State: Madhya Pradesh” subject to compliance of the Specific Environmental safeguard Conditions in addition to the standard EC conditions (**Annexure-I**).

24. 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.

25. 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.

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

27. 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.

28. 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.

29. 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. Deputy Director General of Forests (C), Ministry of Environment, Forest and Climate Change, Regional Office, E-5, Kendriya Paryavaran Bhawan, E-5 Arera Colony, Link Road-3, Ravishankar Nagar, Bhopal – 462016.
3. The Chairman, Central Ground Water Authority, Ministry of Water Resources, Curzon Road Barracks, A-2, W-3 Kasturba Gandhi Marg, New Delhi.
4. The Regional Director, Central Ground Water Board, North Central Region, Block-1, 4th Floor, Paryawas Bhawan Area Hills, Jail Road, Bhopal - 462011, Madhya Pradesh.
5. The Chairman, Madhya Pradesh Pollution Control Board, E-5, Main Rd No. 3, Ekant Park, Arera Colony, Bhopal, Madhya Pradesh 462.016.
6. The Member Secretary, Madhya Pradesh Pollution Control Board, E-5, Main Rd No. 3, Ekant Park, Arera Colony, Bhopal, Madhya Pradesh 462.016.
7. The District Collector, Singrauli, Government of MP.
8. PARIVESH Portal.

Annexure 1

Specific EC Conditions for (Mining Of Minerals)

1. Specific Conditions

S. No	EC Conditions
1.1	Project proponent shall comply with all the conditions prescribed by the MPPCB in the CTE dated 28.11.2025.
1.2	No water body shall be diverted for the instant proposal, as committed by the project proponent. The recommendations of the watershed management plan shall be implemented within 2 years from the date of commencement of mine operation.
1.3	As committed, no depillaring under the Road and water bodies shall be done
1.4	Project proponent shall install the solar lights within the ML area, schools, hospitals and mine infrastructure. Also, project proponent shall provide facilities such as RO plants, provision for sanitary water and education and sports facilities in the 4 nos of schools located in close vicinity of the ML area. Thick plantation shall be carried out around these schools with the native species within 2 years from the date of grant of EC by planting saplings of not less than 4 feet height.
1.5	The coal transportation shall be done by tarpaulin covered trucks and plantation with the native species (of height not less than 4 feet) shall be done on both the side of the entire transportation road. Further PP shall also explore to deploy EV dumpers for transportation of coal. PP shall carryout regular maintenance of the potholes on roads, repair and maintenance of roads, scrapping of material fallen on roads, and removal of scraps from mining areas.
1.6	Project proponent shall fully compensate for the damage to property, infrastructure, or community assets which may arise due to subsidence, as committed.
1.7	The budget proposed for PH is Rs. 503 Lakhs. The budget proposed shall be kept in a separate account and audited annually. Project proponent shall implement the action plan to address the issues raised during public hearing within a time frame of 5 years from the date of grant of EC. PP shall submit the progress report regarding the implementation of action plan to concerned RO along

S. No	EC Conditions
	with the six-monthly compliance report. In addition to this, PP shall strengthen the existing Primary Health Centre (PHC) & Community Health Centre (CHC) in the study area for better public health.
1.8	PP shall implement the protective measure proposed in Environment Management Plan (EMP) in a time-bound manner. The budget earmarked for the same is Rs 2018.5 Lakhs as capital cost and Rs 149.23 Lakhs/Annum (recurring) and should be kept in separate accounts and audited annually. The implementation status along with the amount spent with documentary proof shall be submitted to the concerned Regional Office for the activities carried out during the previous year.
1.9	PP shall pay to farmers of agricultural land if there is any loss due to pollution found by concerned District Commissioner as per extent rules or norms. Suitable measures for enrichment of nitrogen in the soil will be taken up for improving soil fertility and effective steps will be taken to support the farming community in enhancing the production.
1.10	No waste shall be dumped on the forestland. PP shall use the waste generated during the installation of mine shaft and mine incline in infrastructure development.

Standard EC Conditions for (Mining of minerals)

1. Statutory Conditions

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	Mining shall be carried out as per the approved Mining Plan (including Mine Closure Plan) abiding by mining laws related to coal mining and the relevant provisions under CMR, 2017 and circulars issued by Directorate General of Mines Safety (DGMS) from time to time.
1.3	Mining activities shall not be carried out in the forestland, until the Stage - II Forestry Clearance is obtained under the relevant provisions of Van (Sanrakshan Evam Samvardhan), Adhiniyam, 1980, for 975.497 ha of forestland involved in the ML area.
1.4	The project proponent shall obtain prior approval / clearance from the National Board for Wildlife, if applicable.
1.5	In case of the presence of Schedule-I species in the study area, the project proponent shall prepare a Conservation Plan & Wildlife Management Plan which shall be approved by the Chief Wildlife Warden. The recommendations of the approved Conservation Plan / Wildlife Management Plan shall be implemented in consultation with the State Forest Department. The implementation report shall be furnished along with the six-monthly compliance report (in case of the presence of Schedule-I species in the study area).
1.6	The project proponent shall obtain Consent to Operate under the provisions of Air (Prevention & Control of Pollution) Act, 1981 and the Water (Prevention & Control of Pollution) Act, 1974 from the concerned State Pollution Control Board/ Pollution Control Committee.
1.7	The project proponent shall obtain the necessary permission from the Central Ground Water

S. No	EC Conditions
	Authority for groundwater abstraction & usage prior to commencement of mining. The proponent shall also obtain necessary permissions for drawl / usage of surface water, if applicable, prior to commencement of mining.
1.8	Solid/hazardous waste generated in the mines needs to be addressed in accordance to the Solid Waste Management Rules, 2016/Hazardous & Other Waste Management Rules, 2016 and subsequent amendments.
1.9	In case of diversion of water body / road / railway lines / transmission line, approval for the same from competent authority shall be submitted, as applicable.
1.10	Permission of power supply to be taken from the concerned authority for meeting power demand of the project site.
1.11	The annual peak production at any given time shall not exceed the limit as prescribed in the EC.
1.12	Validity of EC shall be as per life of the mine as mentioned in EC letter or 30 years, whichever is earlier, as per EIA Notification, 2006 and its amendments therein.
1.13	In case of change in mining method from UG to OC, prior approval of the Ministry of Environment, Forests and Climate Change (MoEFCC) shall be obtained.

2. Air Quality Mitigation Measures And Monitoring

S. No	EC Conditions
2.1	Coal handling points like stockyards / sidings shall be equipped with effective control measures like water sprinkling, fog cannons, wind barriers, vertical greenery systems.
2.2	Transportation of coal, to the extent if permitted by road, shall be carried out by covered trucks. Effective control measures such as regular water sprinkling/rain gun/ fog cannons /mist sprinkling, etc., shall be installed in critical areas like coal transport roads, loading/unloading and transfer points.
2.3	Transportation of the coal through the existing road, passing through any new village shall be avoided. In such cases, it is proposed to construct a 'bypass' road, such that the impact of sound, dust and accidents could be appropriately mitigated. Major approach roads shall be black topped / made with concrete and properly maintained.
2.4	Vehicular emissions shall be kept under control and regularly monitored. All the vehicles engaged in coal transportation shall operate only after obtaining 'PUC' certificate from the authorized pollution testing centres. The proponent must strive to use electric vehicles / eco-friendly fuel based vehicles as far as possible.
2.5	In order to prevent particulates getting airborne and in order to mitigate dust concentrations, proper housekeeping shall be maintained by the project.
2.6	Plantation in core zone and along the coal transportation route shall be taken up for control of air pollution. Native tree species shall be selected for plantation.

S. No	EC Conditions
2.7	It shall be ensured that the ambient air quality parameters conform to the norms prescribed by the Central/State Pollution Control Board.
2.8	For ambient air quality monitoring, at least 4 sampling sites shall be established (of which 1 shall be situated in the upwind direction, 1 in core zone and balance 2 shall be located in the buffer zone - in downwind direction and near receptors) for monitoring of pollutants. The frequency of monitoring for core zone shall be as per Coal Mine Standards GSR 742 (E) dated 25.09.2000 and for buffer zone shall be as per NAAQS, 2009. Location of the stations shall be decided based on the meteorological data, topographical features and environmentally and ecologically sensitive receptors in consultation with the State Pollution Control Board. The monitoring reports shall be submitted to Regional Office of MoEF&CC and SPCB/CPCB as a part of the six monthly compliance report.
2.9	The project shall install an automatic weather monitoring station in the core zone. At least 2 online ambient air quality monitoring stations (CAAQMS) for monitoring of PM10, PM2.5, SO2, NOx shall be installed - one in core zone and one in buffer zone, in consultation with the SPCB. The data from the CAAQMS shall be connected to CPCB server as well as SPCB server. The calibration of CAAQMS installed shall be carried out as per the calibration protocol for CAAQMS system specified by CPCB and records shall be maintained.

3. Water Quality Mitigation Measures And Monitoring

S. No	EC Conditions
3.1	The water pumped out from the mine (seepage water / mine effluent), after treatment, shall be utilized for industrial purpose viz. dust suppression on roads, plantation, and for domestic uses, etc. Balance water after treatment, if any, shall be discharged into surrounding water bodies with prior permission from concerned SPCBs/PCCs.
3.2	Industrial wastewater from workshop and/or coal handling plant, if any, shall be properly collected and treated so as to conform to the standards prescribed under the Environment (Protection) Act, 1986 and the Rules made thereunder, and as amended from time to time.
3.3	Sewage treatment plant of adequate capacity shall be installed for treatment of domestic wastewater. The treated water, after conforming to the prescribed norms shall be reused.
3.4	Garland drains (of suitable size, gradient and length) around the critical areas i.e. mine shaft and low-lying areas including coal stockyards, shall be designed keeping at least 50% safety margin over and above the peak sudden rainfall and maximum discharge in the area adjoining the mine sites. The sump capacity shall also provide adequate retention period to allow proper settling of silt material of the surface runoff. The garland drains shall be regularly desilted, particularly after monsoon and maintained properly.
3.5	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.
3.6	In case of diversion / straightening of any river / nallah, the same shall be done only after approval

S. No	EC Conditions
	is granted by Water Resources Department / Irrigation Department / approved regulatory agency of the concerned state. Mitigation measures or management plan proposed under EIA/EMP as well as regulatory agencies as a part of the diversion plan shall be duly complied with.
3.7	Project proponent shall provide a rain water-harvesting pond in ML area in the core zone.
3.8	The effluent discharge (mine water, workshop effluent, CHP wastewater (if applicable), STP if applicable) - shall be monitored in terms of the parameters and frequency notified under the Coal Industry Standards vide GSR 742 (E) dated 25th September, 2000 and as amended from time to time by the Central Pollution Control Board. The effluent samples must include raw effluent (i.e. upstream of treatment facility) as well as treated water (i.e. outlet stream from treatment facility). The monitoring reports shall be submitted to Regional Office of MoEF&CC and SPCB/CPCB as a part of the six monthly compliance report.
3.9	Project proponent shall install ground water monitoring piezometers prior to commencement of production in line with NOC issued by CGWA. The water level will be monitored for all piezometers and the record will be shared with the Regional Office (CGWB).

4. Noise Prevention And Monitoring

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

5. Risk And Subsidence

S. No	EC Conditions
5.1	Project proponent shall include adequate provisions w.r.t risk management to ensure safety of personnel engaged in mining operations and work zone environment must be maintained in conformity of relevant DGMS norms.
5.2	Regular monitoring of subsidence movement on the surface over and around the working areas and its impact on natural drainage pattern, water bodies, vegetation, structure, roads and surroundings

S. No	EC Conditions
	shall be continued beyond post closure period as specified in the Mine Plan/Mine Closure Plan Guidelines issued by MoC from time to time. In case of observation of any high rate of subsidence beyond the limit prescribed, appropriate effective mitigation measures shall be taken to avoid loss of life and materials. Cracks should be effectively plugged in with ballast and clay soil/suitable material.
5.3	A separate team for subsidence monitoring and surface mitigation measures shall be created at project level and continuous monitoring & implementation of mitigation measures be carried out.
5.4	Thorough inspection of the mine lease area for any cracks developed at the surface due to mining activities below ground shall be carried out to prevent inrush of water in the mine. Native tree species shall be selected and planted over areas affected by subsidence.

6. Land Reclamation

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 (MoEF&CC) and shall be submitted to MoEF&CC/Regional Office (RO).
6.2	Post-mining land be rendered usable as specified in the Guidelines for Preparation of Mine Closure Plan, issued by the Ministry of Coal dated 31st January, 2025 and subsequent amendments. The post closure land form must be safe & stable and should incorporate repurposing activities like renewables, energy efficiency etc. as feasible.
6.3	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.
6.4	Project proponent shall implement the 'Ek Ped Maa Ke Naam' Campaign, which was launched on 5th June 2024 on the occasion of the World Environment Day to increase the forest cover across the Country. This plantation drive is other than green belt development. The action in this regard shall be submitted concerned RO in six monthly report.
6.5	Greenbelt shall be developed in 14.808 ha area, i.e. approx. 1.5% of the total ML area and approx. 62% of the total disturbed area i.e. 24 ha. A 5-10m wide greenbelt, consisting of at least 3 tiers around mine boundary shall be developed as greenbelt and green cover within 3 years from the date of obtaining the EC by planting the saplings of not less than 4 feet height 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 21,663 saplings shall be planted of not less than 4 feet height. Besides this, total green cover will be developed into 38.808 Ha area along with that, 15,000 number of saplings will be planted along the coal transportation route. PP shall also focus on community plantation and shall distribute 15,000 fruit bearing species to the nearby villagers to plant and nurture the same.
6.6	Watershed plan with gap Planation in Forest area shall be made with the help of Forest department and should be implemented accordingly. Budgetary provision should be submitted accordingly.

7. Public Hearing And Human Health Issues

S. No	EC Conditions
7.1	Implementation of the time bound action plan on the issues raised during the public hearing shall be ensured. The project proponent shall undertake all the tasks/measures as per the time bound action plan submitted with budgetary provisions during the public hearing.
7.2	Land oustees shall be compensated as per the norms laid down in the R&R policy of the company/State Government/Central Government, as applicable. Adequate facility of drinking water, plantation and other social amenities should be provided to established R&R villages.
7.3	The work zone environment shall be maintained as prescribed under Coal Mines Regulations, 2017 & DGMS (complying with provisions regarding illumination, temperature, humidity, dust, noise, etc.)
7.4	The project proponent shall undertake occupational health survey for initial and periodical medical examination of the personnel engaged in the project and maintain records accordingly as per the provisions of The Mines Act, 1952 and rules made thereunder and DGMS circulars. Besides regular periodic health check-up, 20% of the personnel identified from workforce engaged in active mining operations shall be subjected to health check-up for occupational diseases and hearing impairment, if any, as per Clause No. 123, 124 & 125 of Coal Mines Regulations, 2017.
7.5	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.
7.6	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.
7.7	Effective arrangement shall be made to provide and maintain sufficient supply of drinking water at suitable points, for all the persons employed.
7.8	The project proponent shall follow the mitigation measures provided in this Ministry's OM No.Z11013/5712014-IA.II (M) dated 29th October, 2014, titled 'Impact of mining activities on habitations-issues related to the mining projects wherein habitations and villages are the part of mine lease areas or habitations and villages are surrounded by the mine lease area'.

8. Others

S. No	EC Conditions
8.1	The project shall comply with the recommendations of the additional studies like Traffic Study, Biodiversity Management Plan, Carbon Footprint Assessment, as applicable.
8.2	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.
8.3	The project shall align its activities towards some SDGs and submit the details in its six-monthly

S. No	EC Conditions
	compliance report on routine basis.
8.4	Efforts should be made to reduce energy and fuel consumption by conservation, efficiency improvements and use of renewable energy.
8.5	Post closure monitoring of air quality, water, land & soil etc. shall be carried out by NABL accredited laboratories and analysed with EMP measures at regular interval. A suitable recommendation in this regard, shall be furnished to RO, MoEF&CC for compliance. The data used for analysis shall be obtained from routine environmental monitoring, continuous air / water QMS, etc.
8.6	Third Party Environmental Audit shall be undertaken once in every three years through reputed institutes or scientific agencies.

9. Corporate Environment Policy

S. No	EC Conditions
9.1	The company shall have a well laid down environmental policy duly approved by the Board of Directors. The environmental policy should prescribe for standard operating procedures to have proper checks and balances and to bring into focus any infringements/deviation/violation of the environmental/forest/wildlife norms/conditions. The company shall have defined system of reporting infringements/deviation/violation of the environmental/forest/wildlife norms/conditions to shareholders/stake-holders
9.2	A separate Environmental Cell both at the project and company head quarter level, with adequate qualified personnel shall be set up under the control of senior executive, who will directly report to the Head of the organization.
9.3	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.

10. Miscellaneous

S. No	EC Conditions
10.1	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 of receipt of EC and in addition, this shall also be displayed in the project proponent's website permanently.
10.2	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.

S. No	EC Conditions
10.3	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.
10.4	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 Parivesh portal.
10.5	The monitoring data w.r.t environmental parameters shall be uploaded on the company's website and displayed at the project site at a suitable location. The circular No.J-20012/1/2006-1A.11 (M) dated 27th May, 2009 issued by Ministry of Environment, Forest and Climate Change shall also be referred in this regard for its compliance.
10.6	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.
10.7	The project authorities shall inform to the Regional Office of the MoEFCC regarding commencement of mining operations.
10.8	The project authorities must strictly adhere to the stipulations made by the State Pollution Control Board and the State Government.
10.9	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.
10.10	No further expansion or modifications in the mine shall be carried out without prior approval of the Ministry of Environment, Forests and Climate Change (MoEF&CC).
10.11	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.
10.12	The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.
10.13	The Ministry reserves the right to stipulate additional conditions if found necessary. The Company, in a time bound manner, shall implement these conditions.
10.14	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
10.15	The above conditions shall be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 and the Public Liability Insurance Act, 1991 along with their amendments and Rules and any other orders passed by the Hon'ble Supreme Court of India / High Courts and any other Court of Law relating to the subject matter.