



File No: EC/SEIAA/2024-25/3292/2024

State Environment Impact Assessment Authority (SEIAA), Jharkhand

(Constituted as per the provision of EIA Notification, 2006, as amended by the Ministry of Environment, Forest and Climate Change, Government of India)

Dated 11/08/2026



To,

Sandip Omprakash Agarwal
OMKAR COAL WASHERIES PRIVATE LIMITED
403, TULIP GARDEN ENCLAVE, GANESHPETH, Mahatma Fule Bazar, Nagpur, Nagpur- 440018,
Maharashtra, Nagpur, NAGPUR, MAHARASHTRA, 440018
ca.sandip.a@gmail.com

Subject: Grant of prior Environmental Clearance (EC) to the proposed Mining Project under the provisions of EIA Notification 2006-regarding

Sir/Madam,

This is in reference to your application submitted to SEIAA vide proposal number SIA/JH/CMIN/574832/2026 dated 07/04/2026 for grant of prior Environmental Clearance (EC) to the project under the provision of the EIA Notification 2006-and as amended thereof.

2. The particulars of the proposal are as below :

(i) EC Identification No.	EC26B0801JH5545089N
(ii) File No.	EC/SEIAA/2024-25/3292/2024
(iii) Clearance Type	Fresh EC
(iv) Category	B1
(v) Project/Activity Included Schedule No.	2(a) Coal washeries Proposed Green Field Project to set-up wet 2.48 MTPA Coal Washery At Kh No 194, 195, 198, 284 Plot No CS 24P, 25, 26, 27 P, 162 163, 164P, Village Olhepat, District Latehar, Jharkhand by M/s Omkar Coal Washeries Pvt Ltd
(vii) Name of Project	LATEHAR, JHARKHAND
(viii) Location of Project (District, State)	SEIAA
(ix) Issuing Authority	No
(x) Applicability of General Conditions	

Plot/Survey Khasra Nos.: {%KML_KHASRA_NO%}

3. In view of the particulars given in the Para 1 above, the project proposal interalia including Form-2(Part A, B and C)/ EIA & EMP Reports were submitted to the SEIAA for an appraisal by the SEIAA under the provision of EIA notification 2006 and its subsequent amendments.
4. The above-mentioned proposal has been considered by SEIAA in the meeting held on 27/07/2026. The minutes of the meeting and all the project documents are available on PARIVESH portal which can be accessed from the PARIVESH portal by scanning the QR Code above. Brief description of the project is as under: [#Brief description on nature of the project activity-Auto fetch Para 1.1 Part B Form 1#]
5. Details of the minerals to be mined along with production capacity and the brief on the salient features of the project as submitted by the project proponent in Form 1 (Part A and B) in the reports and as presented during [EAC/SEAC] are annexed to this EC as Annexure (1).
6. The [EAC/SEAC], in its meeting held on 27/07/2026, based on information submitted viz: Form 1 (Part A, B and C), EIA/EMP report etc & clarifications provided by the project proponent and after detailed deliberations on all technical aspects and public hearing issues and compliance thereto furnished by the Project Proponent, recommended the proposal for grant of Environment Clearance under the provision of EIA Notification, 2006 and as amended thereof subject to stipulation of Specific and Standard EC conditions as detailed in the point below.
7. The SEIAA 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 SEIAA hereby accords Environment Clearance for the instant proposal to M/s. Sandip Omprakash Agarwal under the provisions of EIA Notification, 2006 and as amended thereof subject to compliance of the Specific and Standard EC conditions as given in Annexure (2)
8. The Ministry reserves the right to stipulate additional conditions, if found necessary.
9. 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.
10. The PP is under obligation to implement commitments made in the Environment Management Plan, which forms part of this EC.
11. Validity of EC is upto 07/04/2026 from which the prior environmental clearance is granted by the regulatory authority.
12. General Instructions:
 1. 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 SEIAA website where it is displayed.
 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 must display the same for 30 days from the date of receipt.
 3. 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.
 4. 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.

5. 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.
 6. The Regional Office of this SEIAA 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.
 7. Any appeal against this EC 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.
13. This issue with an approval of the Competent Authority.

Copy To

1. The Member Secretary, CGWA, 18/11 Jamnagar House Man Singh Road, Central, Delhi, cgwa@nic.in
2. The Member Secretary, CPCB, Parivesh Bhawan Cbd-Cum-Office Complex East Arjun Nagar, East, Delhi, mscb.cpcb@nic.in
3. The Monitoring Cell MoEFCC, Compliance & Monitoring Division, Indira Paryavaran Bhawan Jor Bagh Road New Delhi, South, Delhi, moefcc-monitoring@gov.in

Annexure 1

Standard EC Conditions for (Coal washeries)

1. Statutory Compliance

S. No	EC Conditions
1.1	The project proponent shall obtain forest clearance under the provisions of Forest (Conservation) Act, 1986, in case of the diversion of forest land for non-forest purpose involved in the project.
1.2	The project proponent shall obtain clearance from the National Board for Wildlife, if applicable.
1.3	The project proponent shall prepare a Site-Specific Conservation Plan & Wildlife Management Plan and approved by the Chief Wildlife Warden. The recommendations of the approved Site-Specific Conservation Plan / Wildlife Management Plan shall be implemented in consultation with the State Forest Department. The implementation report shall be furnished along with the six-monthly compliance report (in case of the presence of schedule-I species in the study area).
1.4	The project proponent shall obtain Consent to Establish / 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/ Committee.
1.5	The project proponent shall obtain the necessary permission from the Central Ground Water Authority

Additional EC Conditions

N/A

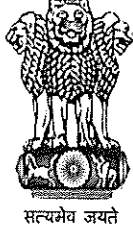
Annexure 2

Details of the Project

S. No.	Particulars	Details	
a.	Details of the Project	Proposed Green Field Project to set-up wet 2.48 MTPA Coal Washery At Kh No 194, 195, 198, 284 Plot No CS 24P, 25, 26, 27 P, 162 163, 164P, Village Olhepat, District Latehar, Jharkhand by M/s Omkar Coal Washeries Pvt Ltd	
b.	Latitude and Longitude of the project site	23.83311514303485,84.72826219262123 23.83660756896043,84.73240932758837	
c.	Land Requirement (in Ha) of the project or activity	Nature of Land involved	Area in Ha
		Non-Forest Land (A)	0
		Forest Land (B)	
		Total Land (A+B)	7.48
d.	Date of Public Consultation	Public consultation for the project was held on	
e.	Rehabilitation and Resettlement (R&R) involvement	NO	
f.	Project Cost (in lacs)	2927	
g.	EMP Cost (in lacs)	340	
h.	Employment Details		

Details of Minerals Products & By-products

Name of the Mineral to be mined	Classification of mineral [Major/Minor]	Production capacity in MTPA	Remarks
NA	NA	NA	NA



State Level Environment Impact Assessment Authority, Jharkhand

Nursery Complex, Near Dhurwa Bus Stand, Dhurwa, Ranchi. Jharkhand-834 004

E-mail: msseiaa.jhk@gmail.com / website: www.jseiaa.in

Letter No. : EC/SEIAA/2024-25/3292/2024/

Ranchi, Date :

To: Shri Sandip Omprakash Agarwal,
(Director),
M/s Omkar Coal Washeries Pvt. Ltd.,
403, Tulip Garden Enclave,
Ganeshpeth, Mahatma Fule Bazar, Nagpur,
District : Nagpur - 440018, Maharashtra.

Sub. : Environmental Clearance for the project “Proposed Green Field Project to Set-up wet 2.48 MTPA Coal Washery by M/s Omkar Coal Washeries Pvt. Ltd., Village : Olhepat, Tehsil : Balumath, Distt.: Latehar, Jharkhand (7.48 Ha). (Proposal no.: SIA/JH/CMIN/574832/2026) – regarding.

Ref. : Your application no. : Nil, dated : 02.07.2026.

It is in reference to the project “Proposed Green Field Project to Set-up wet 2.48 MTPA Coal Washery by M/s Omkar Coal Washeries Pvt. Ltd., Village : Olhepat, Tehsil : Balumath, Distt.: Latehar, Jharkhand (7.48 Ha)” submitted by you for seeking prior Environmental Clearances (EC).

This is a new project which has been taken for appraisal on 11.07.2026.

Project Sector: 2(a) Coal Washeries, Category: B1.

Application for Environmental Clearance after Terms of Reference (ToR).

The State Expert Appraisal Committee, Jharkhand deliberated the project during its 118th meeting held on 22 - 26.10.2024 and SEIAA, Jharkhand has approved the ToRs in 118th meeting held on 28th & 29th November, 2024. TOR for the project was issued by SEIAA, Jharkhand vide letter no. EC/SEIAA/2024-25/3292/2024/388, dated 06.12.2024. The final EIA / EMP submitted by PP to SEAC on 06.07.2026.

M/s Omkar Coal Washeries Private Limited has proposed to Set-up wet 2.48 MTPA coal Washeries by at Kh No 194, 195, 198, 284 Plot No CS 24P, 25, 26, 27 P, 162 163, 164P, Village Olhepat, District Latehar, Jharkhand. The total land area for the project is 7.48 ha (18.50 Acres).

PROJECT AND LOCATION DETAILS

Sr. No.	Description	Details
1.	Nature of the project	M/s Omkar Coal Washeries Pvt Ltd has Proposed Green Field Project to Set-up wet 2.48 MTPA Coal Washeries.
2.	Plant Location	Kh No 194,195, 198,284 Plot No CS24P, 25,26,27 P, 162163, 164P, Village Olhepat, District Latehar, Jharkhand Total Area: 7.48 Ha + 3.89 Ha (Adjacent Continuous Land for Green belt only) = Total 11.37 Ha Non-Forest, Agricultural Barren land, will be converted for Industrial use A. 23°49'59.20"N84°43'53.65"E B. 23°50'0.10"N84°43'50.58"E C. 23°50'1.69"N84°43'43.45"E D. 23°50'8.18"N84°43'41.85"E E. 23°50'11.76"N84°43'46.42"E F. 23°50'11.57"N84°43'47.79"E G. 23°50'8.85"N84°43'49.17"E H. 23°50'6.68"N84°43'51.06"E I. 23°50'3.83"N84°43'51.82"E J. 23°50'2.74"N84°43'54.77"E K. 23°50'3.42"N84°43'56.65"E
3.	Production Details and type of Washery	2.48 MTPA Wet Type Coal Washery
4.	New/Expansion	New
5.	Project Cost	Rs. 29.27 Crores
6.	EMP Cost	Rs. 340 lacs + Rs. 20 lacs Towards Social Development Activities = Total Rs. 360 Lacs
7.	Raw Coal Source and Distance	Open Linkage Auction, Tetaria Mines: 10 Km (ESE), Magadh Coal Mines: 40 Km, Amrapali Coal Mines: 24 Km, Ashoka Coal Mines: 60 Km
8.	Sale of Washed Coal and Reject Coal	Power plant, Steel Plant, and other industries for washed coal Power plant, Brick kilns and other industries for coal reject.
9.	Mode of Transportation	By Tarpaulin covered Trucks. Nearest Railway siding is Kusmahi railway siding which is 11 Km away from the project site. Possibility will be explored for maximum transportation by Railway by using this railway siding.
10.	Water Requirement	333 KLD

11.	Source of Water	Groundwater (313 KLD) + Rain Water Harvesting Pond of the plant (20 KLD)
12.	Power requirement & Source	Power requirement will be 2.0 MW and will be met from State Electricity Board. Diesel generators (DG) of 2 x 380 KVA will be provided at the project site for use in case of power failure
13.	Manpower	75 Persons
14.	Nearest Water Body	- Patam River: 0.56 Km (NNW) - Satbahini Nala: 2.00 Km (S) - Sukri River: 7.10 Km (SW) - Ekchatia Nala: 5.60 Km (WSW) - Bhalmanda Nala: 9.25 Km (WNW) - Dhardhariya Nala: 4.90 Km (NE)
15.	Nearest village	Olhepat (0.04 Km (E))
16.	Nearest Railway Station	Tori Railway Station 17 km (S)
17.	Nearest Airport	Birsa Munda Airport, Ranchi 85 Km (SE)
18.	Ecologically Sensitive Zones like wild life sanctuaries, national parks and biospheres	- Wildlife Corridor Lawalong WLS Jharkhand: 12.62 Km (NW) - ESZ BOUNDARY Lawalong WLS Jharkhand: 12.89 Km (NNW)
19.	Nearest Forest	- Diridag P F: 0.27 Km (SW) (as per DSS map) : 0.251 Km as per DFO letter) - Pakri P F : 0.28 Km (SE) - Bhang P F : 1.82 Km (SW) - Semarsot P F : 2.58 Km (SE) - Debu P F : 3.00 Km (NE) - Darha P F : 4.83 Km (N) - Komar P F : 4.00 Km (E) - Balu P F: 4.90 Km (WNW) - Lachhipur P F: 2.80 Km (SSW)
20.	School	- Upgrated High School: 3.00 Km (NNE) - Gokhulabagi School: 2.90 Km (NE)
21.	Hospital / PHC	- B.S. Memorial Hospital: 4.70Km (E) - PHC Village Murup: 12.70 Km (W) - PHC Borgaon: 22.10 Km (WSW)
22.	Temple	- Hindu temple makaiyatand: 8.60 Km (SE) - Hanuman Temple Sekra: 3.90 Km (NW) - Hanuman Temple Hundra: 8.90 Km (NW) - Hanuman Temple Darha: 6.50 Km (NE)
23.	Industries	- Tetaria Mines: 10 Km (ESE) - Magadh Coal Mines: 40 Km - Amrapali Coal Mines: 24 Km

		▪ Ashoka Coal Mines: 60 Km
24.	Total Cost of the project	Proposed Cost: Rs.29.27Crores EMP Cost Rs. 340 Lacs and Recurring Cost Rs. 34 Lacs/year

LAND USE

Sr. No.	Description	Area in ha	Percentage (%)
a.	Land Requirement for main plant	2.44	32.62
b.	Raw Coal storage yard	1.41	18.85
c.	Other facilities (Internal Road, Lab room, Admin building etc)	0.65	8.68
d.	Green belt	1.87	25.00
e.	Open space including Landscape and Green Cover	1.11	14.85
	Total	7.48	100%
	Additional adjacent land for green belt	3.89	-

LAND DETAILS:

Sr. No.	Khata No	RS No	Area in ha
1	25	198	3.64
2	25	194,195	2.02
			0.15
3	25	284	1.66
Total			7.48

PROCESS DETAIL

The washery has been designed for throughput capacity of 2.48 MTPA Raw Coal. The washery will produce, two products viz. Washed Coal (2.0 MTPA) and Reject Coal (0.48 MTPA).

It has been planned to crush entire coal down to (-) 13 mm. Treatment of 13-0.5 mm coal into two stage HM cyclone and beneficiation of -0.5 mm size fraction by froth floatation have been envisaged.

Characteristics & Quantum of Washed Coal & Coal Washery Rejects is given below.

Sr. No.	Properties	Raw Coal	Washed Coal	Rejects
1	Quantity (MTPA)	2.48	2.0	0.48
2	Ash %	40-44	28-32	65-70

Sr. No.	Properties	Raw Coal	Washed Coal	Rejects
3	Total Moisture %	7.5	12.0	10.0
4	Sulphur %	0.5	0.5	0.5
5	GCV (Kcal/Kg)	3600 - 3800	4800-5000	1000-1200
6	Volatile Matter (%)	20	25	12
7	Fixed Carbon (%)	28-30	35-43	7-8
8	Mercury as (Hg) mm/kg	<0.10	<0.10	<0.10
9	Yield %	100	80.0	20.0

PROPOSED COAL WASHERY OPERATION

Run-Of-Mine Coal transported by Tipping Trucks shall be received at the Coal Washery site and dumped in the areas adjacent to the Ground Hopper from where the same shall be fed to the Ground Hopper by dozing / Pay loaders. Raw coal in the size up to 300 mm transported from mines will be feed the ground hopper.

Ground hopper is fitted with grizzly of 300 X 300 mm size opening. Coal will be transported by pay loaders to feed over the grizzly. Ground hopper will be fitted below with two vibro-feeders (400 TPH each) which in turn feed to a conveyor (500 TPH). Coal is transported through conveyor to two rotary breakers (250 TPH each) located parallelly. Rotary breaker in turn will separate out coal and shale / rock. It will crush coal to (-) 50 mm size and pass through the perforated outer shell. Coal and shale will be transported by separate conveyors. Shale will be crushed to desired size by double roll crusher (50 TPH). Coal conveyor feed coal to a double deck vibratory screen (500 TPH) to separate out (-) 25 mm and (-) 15 mm coal fines from the crushed coal and over flow of screen will be (-) 50 mm. Thus, it will produce three products (+) 25 mm to (-) 50 mm coal and (+) 15 mm to (-) 25 mm and (-) 15 mm coal fines. Coal fines will be screened again through Flip flow screen which will produce two product (-) 15 mm to (+) 6mm and (-) 6 mm coal fines which will be transported through different conveyors. Sized coal (-) 15 mm to (+) 6mm size, (+) 15mm to (-) 25 mm will be mixed with (+) 25 mm to (-) 50 mm coal and stocked in a stock holder.

Below the Stock holder 2 Nos.of vibrators (200 TPH each) will be provided to deliver coal to a conveyor which in turn feed to a desliming screen where water is sprinkled to wash out coal fines (-) 1 mm size adhere to coal. Coal fines will flow through a launder below the screen to a set of desliming sieve bends and then flow through pipes to a fines coal tank.

The screen coal (-) 50 mm to (+) 6 mm size will be feed to a central column provided at the center of Heavy Media Tank. The magnetite will also be provided to central column. Magnetite slurry (media) is being prepared with a preset specific gravity. The mixture of coal and media will be pumped to Heavy Media Cyclone to separate out clean coal and reject by cyclonic process.

Then both clean coal and reject coal will be washed through clean coal screen and reject screen respectively to separate out the media adhering to coal and reject in the first

compartment. Fine coal is washed from clean coal and reject coal will be collected below the screen in the second compartment. Washed clean coal and reject will be transported by separate conveyors to be stocked in clean coal and reject pile respectively.

The washed media will be collected in a dilute media tank and then pumped to the Magnetic Separator to separate and collect media / magnetite. The effluent of magnetic separator flow to fine coal tank. The density of magnetite media will be accurately controlled with respect to maintain required quality of washed product.

The fine coal slurry collected below screen will be feed to fine coal tank and then pumped to a set of classifying cyclones. Under flow of classifying cyclone will flow to High Frequency screen. The over flow of classifying cyclones will be feed to a high-rate thickener. Flocculent will be added to thickener to facilitate settling process. The under flow of thickener will pass through a Belt press. The fine coal cake collected from belt press in turn will be mixed with clean coal. The over flow of the thickener will flow to Clarified water tank and this water will be utilized in the process and spray of sprinklers over the screens. In Clarified water tank make up water shall also be added for circulation into the system.

The underflow of classifying cyclones shall be dewatered in High Frequency Screen. The underflow of High Frequency Screen shall be transported back to the Fine Coal Tank while the overflow of the High Frequency Screen shall be collected on Belt Conveyor and mixed with Clean Coal at the ground storage. The overflow from classifying cyclones shall be fed to a High-Rate Thickener (18 m Dia.). Flocculants shall be used in Thickener to facilitate Settling process. The thickened slurry collected at the Thickener bottom / under flow shall be pumped and transported to a Belt press / series of Settling Ponds. Clarified water from the Settling Ponds shall be pumped back to the Clarified Water Tank adjacent to the Thickener. Make up water and make up magnetite will be added as required in the process. The clean coal will be dispatched to consumers through rail and road.

PROCESS CONTROL

Plant control shall be achieved by a centralized PLC based control system designed to enable one operator to start-up, monitor, and control and shut down all main equipment, and process functions from the feed input to the plant through to product transfer conveyors. The PLC shall have provision for hot standby. A UPS with hot standby back up shall be provided to take care of power tripping and fluctuations. All major items of equipment will be interlocked in an automatic stopping sequence within the PLC in such a manner that both material and liquid flows will always be fail safe. Stop push buttons will be located adjacent to each drive and will be operable at all times.

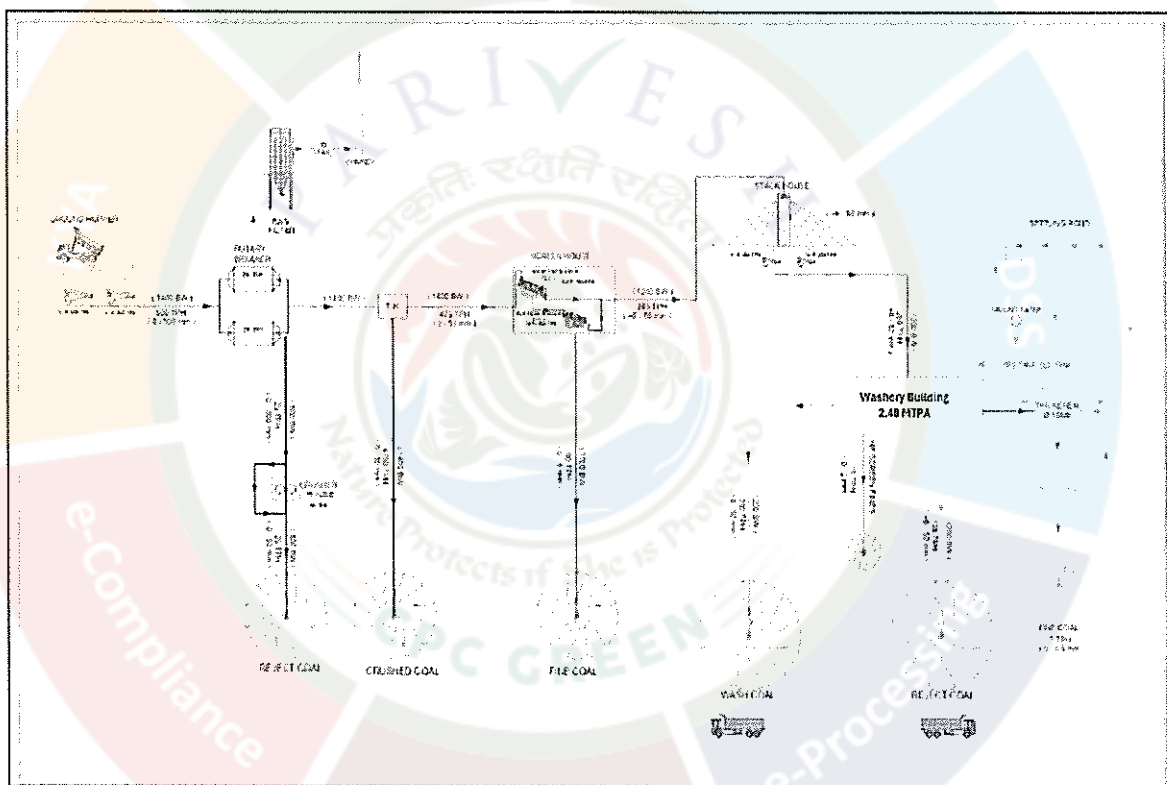
An emergency stop button shall be located either in the control room or in the operating computer to enable the whole plant to be stopped. The density of the magnetite media shall be accurately controlled within the wide range to maintain required quality of the washed products. The density measurement shall be done by a density gauge.



MEDIA PREPARATION & REGENERATION CIRCUIT

The dilute media which is collected in the Dilute Media Tank shall be pumped by a Dilute Media Pump to a Magnetite Separator Feed Box from which the Dilute Media shall be fed to a Double Stage Magnetic Separator. The Separator shall separate out the Magnetite from water and the over-dense media gets dislodged from the Magnetic Drum to the Over-dense Media Launderers and from there to the Heavy Media Tank.

The effluent from the magnetic separator goes to Fine Coal Tank through wetting launders. During the process of operation, some amount of Magnetite gets lost which shall be made up by adding fresh magnetite to the system. Magnetite powder mixed with water in a sump on the ground floor to make magnetite slurry. The dilute magnetite media then shall be pumped through a vertical sump pump to the Dilute Media Tank. Dilute Media will be processed through magnetic as detailed above. Thus, make up magnetite is added here.



RECEIVING OF ROM COAL & DISPATCH OF PRODUCTS:

ROM Coal from Mine to Washery	Raw Coal is proposed from Tetaria Project – Mine, Magadh Coal Mines, Amrapali Coal Mines, Ashoka Coal Mines & other coal mines through Open Linkage Auction
Dispatch of Clean Coal	Clean Coal will be dispatched to its customers by Road/Rail
Dispatch of Reject Coal	Reject Coal will be dispatched to its customers by Road/Rail

REQUIREMENT OF WATER:

The total daily make-up water required for the proposed plant will be 333 KLD which will be met from ground water and Rainwater harvesting and it will be implemented in the coal washery plant and the harvested rainwater will be used in coal washing process to the extent possible. NOC from the Central Ground Water Authority (CGWA) has been obtained for abstracting 350 m³/day groundwater. NOC No. NOC/IND/JH/2026/5375/N Dated 15/05/2026. The project will conserve rainwater by providing collection tank. The collected water will be used for dust suppression and green belt.

Particulars	Water Requirement (In KLD)	System Loss/ Consumption	Waste Water Generation (In KLD)	Method of Disposal
Coal Washing Process	303	303	Nil	Closed Circuit System Significant water will be lost through final products inherent moisture and evaporation loss. Balance wastewater generated from the washing process will be treated in thickener and reused in process
Domestic & Other	10	2	8	Will be treated in Packaged Type Sewage Treatment Plant. The treated water shall be used for Plantation purpose
Dust Suppression and plantation	20	20	Nil	Loss through Evaporation
Total	333	325	8	No wastewater shall be discharge outside the plant premises. Entire wastewater shall be treated and reused inside the plant.

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STATUS OF BASELINE DATA GENERATION:

Nature of Study	Name of the Agency
Micro Meteorology Studies	Ultimate Envirollytical Solutions Private Limited, Raipur
Seasonal Ambient Air Quality Study	
Ambient Noise Level Study	
Water Quality Study	
Soil Quality Study	
Socio-Economic Study	Pollution and Ecology Control Services, Nagpur
Flora & Fauna Study	
Geology and Hydrogeology	M/s Srushti Sewa Private Limited, Nagpur

CUMULATIVE IMPACT ASSESSMENT OF STUDY AREA:

1. Cumulative impact assessment of the study area (10 km buffer) w.r.t. all environmental parameters has been carried out by incorporating all existing and proposed industrial activities and impact is minimum.
2. Impact on ambient air quality has been assessed by using AEROMOD software Ver. 13.0.0 and the results suggest that the predicted ambient air quality is well within the prescribed norms.
3. Furthermore, the impact on flora fauna and socio-economic regimes has been done for the 10 km buffer zone of the project.

Predicted GLC of PM₁₀ at AAQ Monitoring Stations

Location Code	Location	Max. Baseline conc. $\mu\text{g}/\text{m}^3$	Predicted incremental conc. $\mu\text{g}/\text{m}^3$	Total conc. $\mu\text{g}/\text{m}^3$	NAAQ Standard ($\mu\text{g}/\text{m}^3$)
A1	Project Site	61.87	0.01	61.88	100
A2	Pakri	53.48	0.01	53.49	100
A3	Serka	54.66	0.005	54.665	100
A4	Basaria	56.89	0.01	56.90	100
A5	Diridag	54.06	0.01	54.07	100
A6	Banarchuan	54.88	0.008	54.888	100

A7	Kolutola	54.36	0.1	54.37	100
A8	Olhepat	56.21	0.05	56.26	100

IMPACTS ON TRAFFIC DENSITY

The proposed 2.48 MTPA Coal Washery to be developed on private land at Village Olhepat, District Latehar, Jharkhand, is expected to contribute to an increase in local traffic density due to the transportation of raw coal to the site and dispatch of washed coal. The site is strategically located approximately 3.10 km northeast of State Highway 10 (SH-10) and about 5.70 km east of National Highway 99 (NH-99), which will serve as the primary routes for incoming and outgoing vehicular movement. Increased frequency of heavy vehicles such as trucks and tippers may lead to higher traffic loads on connecting village roads and approach routes to these highways. While this could result in minor traffic congestion, potential delays, and wear on existing infrastructure, the impact is expected to be moderate. The project will incorporate an internal road network, a designated parking area, and a truck queuing zone to reduce roadside congestion. Furthermore, measures such as regulated vehicle movement schedules, maintenance of haul roads, and coordination with traffic authorities will be implemented to ensure smooth flow of traffic and minimize inconvenience to local residents.

IMPACTS ON GROUNDWATER AND SURFACE WATER

In this project, groundwater is withdrawing hence impact on groundwater in this case. The impact is identified on basis of Radius of Influence.

Radius of Influence (R):

The estimation of radius of influence assumes that pump was running round the clock for duration of pumping considered for estimating radius of influence. The radius of influence has been estimated based on empirical formula for single borewell pumping and multiple bore well pumping. The duration of pumping is considered 1 day and 1 year to 5-year pumping. The estimated value of radius of influence considering:

Sichardt Formula:

$$R = 3000 \times S \times \sqrt{K}$$

K = 0.64 m/day (Average taken from CGWA)

S = 0.03 (Recommended by CGWA)

The estimated value of R is given in table below.

Radius of Influence

Sr no.	Constant	Drawdown (m)	K in m/sec	$\sqrt{K}$	Radius of Influence (m)
1	3000	4	7.40741E-06	0.002721655	33
2	3000	8	7.40741E-06	0.002721655	65
3	3000	12	7.40741E-06	0.002721655	98
4	3000	16	7.40741E-06	0.002721655	131
5	3000	20	7.40741E-06	0.002721655	163

During pumping through borewells, drawdown in water level will occur and when the drawdown is 20 m then the radius of influence is 163 m.

Fractional Load (Lg):

Step 1: Convert withdrawal to annual volume:

$$\text{Annual volume} = 350 \text{ m}^3/\text{day} \times 365 = 127,750 \text{ m}^3/\text{year} = 0.1278 \text{ MCM/year}$$

Step 2: Groundwater availability (Balumath):

$$\text{Annual Extractable Recharge} = 2472.12 \text{ MCM}$$

Step 3: Fractional Load (Lg):

$$\text{Lg} = \text{Annual Extraction (MCM)} / \text{Annual Extractable Recharge (MCM)}$$

$$\text{Lg} = 0.1278 / 2472.12 \approx 5.17 \times 10^{-5}$$

Step 4: Fractional Load (Lg) in Percentage:

$$\text{Lg} \times 100 = 0.0052\%$$

The industry borewell extraction of 350 KLD contributes only 0.005% of the annual recharge at the block scale (Balumath).

Impact on surface water sources:

There is no surface water stream within the proposed project site. No surface water will be used in this project hence there will be no impact on surface water.

Estimation of Annual Rainfall Runoff Potential

Land use Type	Area (sqm)	Runoff Coefficient	Rainfall (m)	Recharge Potential (m ³)
Green belt Area	18,700	0.1	1.3	2,431.0
Open area	11,100	0.2	1.3	2,886.0
Roads and Paved Area	42,400	0.65	1.3	35,828.0
Roof Area of Building / Shed	2,600	0.85	1.3	2,873.0
Total	74,800			44,018.0

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Estimation of Runoff for Designing of RWH/Artificial Recharge Scheme

Land use Type	Area (sqm)	Runoff Coefficient	Intensity Rainfall (m/hr)	Runoff for Hourly peak intensity (m ³)	Runoff for 15 minutes peak intensity (m ³)
Green belt Area	18,700	0.1	0.035	65.5	16.4
Open area	11,100	0.2	0.035	77.7	19.4
Roads and Paved Area	42,400	0.65	0.035	964.6	241.2
Roof Area of Building / Shed	2,600	0.85	0.035	77.4	19.3
Total	74,800			1185.1	296.3

SOCIO-ECONOMIC STUDY:

Potential impacts have been assessed, and suitable mitigation and management measures will be integrated into project planning and operation. The Omkar Coal Washeries Private Limited adopts a sustainable development approach, aiming to minimize adverse impacts while maximizing socio-economic benefits for the surrounding communities, thereby contributing to long-term and inclusive regional growth.

Parameter	Existing Condition	Envisaged Impact Assessment	Mitigation Measures
Economy/ Employment/ Livelihood	Predominantly agrarian economy with dependence on agriculture, daily wage labour, small trade and live stock. Limited local employment opportunities.	Generation of direct and indirect employment during construction and operation phases. Increased income opportunities and growth of ancillary services.	Preference to local employment; skill development programs; contractor guidelines for hiring local work force; CSR-based livelihood support initiatives.
Socio-Cultural Aspects	Rural social structure with traditional practices and community-based living. Presence of SC/ST communities.	Influx of workforce may bring moderate socio-cultural interaction and exposure to new practices.	Code of conduct for workers; awareness programs; community engagement activities; preservation of local cultural identity.

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Aesthetics	Semi-rural landscape with agricultural fields and scattered vegetation.	Temporary visual disturbance during construction phase.	Greenbelt development within project premises; landscaping; proper maintenance of plant infrastructure.
HealthCare Facilities	Basic PHCs and private clinics available within reachable distance. Limited advanced health care facilities in villages.	Increased access to healthcare through CSR camps; minor pressure on local facilities during construction.	Periodic health camps; occupational health measures; tie-up with nearby hospitals; on-site first aid and ambulance facility.

FLORA AND FAUNA STUDY:

Impact on terrestrial Flora

Based on past experience, dust deposition on leaf lamina will takes place on nearby vegetation, which may result in decline the rate of photosynthesis and retards the plant growth.

Impact on Wildlife

There are no National Park, Wildlife Sanctuary and Biosphere Reserve within 10 km radius of the project site. Noise generated due to the plant operations may drive away wild animals.

Impact on Agriculture/ Crop Productivity within Study Area

Agricultural crops may be affected when exposed to high concentrations of various air pollutants especially particulate matter (dust) & SO₂. This may result in crop damage and loss in agriculture produce to the nearby farmers.

Measures for Minimizing Impact

Dust issues are mainly raised in the area due to kuchha road, cumulative fugitive dust emissions by plant operation and coal transportation activities. To mitigate the impact, adequate air pollution control measures, as suggested in previous paragraphs, will be implemented. Fencing around the entire proposed coal washery will be carried out in order to restrict the entry of stray animals. Green belt development will be carried out which will help in minimizing sound level arising from the coal washery operation.

Control Measures to avoid impacts on agriculture crops:

1. Maximise coal transportation through rail mode.
2. Periodic maintenance of coal transport road in collaboration with PWD
3. Regular water sprinkling on PWD road used for coal transport.
4. Covered coal Transport system

Apart from the above, monitoring will be carried out by Environmental Cell of the company to assess effectiveness of the dust control system and complaints of farmers regarding impact on crop productivity/damage, if any.

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GREEN BELT DEVELOPMENT

Three tier green belt will be developed along the boundary of the proposed coal washery site at Village Olhepat, District Latehar, Jharkhand. The selection of tree species for plantation will be guided by the following criteria:

- Fast-growing varieties
- Native/local species with dense foliage
- Tolerance to high dust levels
- Evergreen and perennial species with a survival rate of over 75%.

Thick Green belt and landscape will be developed in the open spaces in the plant, administrative building, along internal roads, near the plant infrastructure, and other open spaces within the project premises. This initiative will not only help in improving the aesthetics of the area but also act as a pollution sink and provide ecological benefits.

Proposed Plantation Program (Area in sq. m)

- Total Project Area: 7.48 Ha
- Green Belt Area: 1.87 Ha (25% of total area) + 3.89 Ha (Additional Adjacent land) = Total 5.76 Ha
- Plantation Density: 2500 plants/Ha
- Total No. of Saplings: $5.76 \times 2500 = 14,400$ saplings

Proposed Plantation Program in the Coal Washery Area

Year	Area in Ha	No. of Saplings	Cost (Rs. Lakh)	Location
1	0.8	2000	1.00	Plant boundary, lawn area, along internal roads
2	0.7	1750	0.90	Around office building and plant building
3	0.37	925	0.45	Open spaces, around coal stack yard, etc.
4	3.89	9725	5.0	On Additional adjacent land
Total	5.76	14,400	7.35	

Approximately 2000 saplings will be planted along the village road and approach road used for coal transportation in the 1st year, enhancing dust control and visual screening.

Recommended Species for Plantation

Sr. no	Scientific Name	Common Name
1	<i>Aegle marmelos</i>	Bel
2	<i>Annona squamosa</i>	Sitaphal
3	<i>Azadirachta indica</i>	Neem
4	<i>Bauhinia variagata</i>	Kachnar
5	<i>Bougainvillea spectabilis</i>	Bougainvillea
6	<i>Butea monosperma</i>	Palash
7	<i>Cassia fistula</i>	Amaltas
8	<i>Delbergia latifolia</i>	Shisham

Sr. no	Scientific Name	Common Name
9	<i>Delonix regia</i>	Gulmohar
10	<i>Emblica officinalis</i>	Amla
11	<i>Ficus religiosa</i>	Peepal
12	<i>Madhuca indica</i>	Mahua
13	<i>Pongamia pinnata</i>	Karanj
14	<i>Terminalia arjuna</i>	Arjun
15	<i>Zizyphus jujube</i>	Ber

SOLID AND HAZARDOUS WASTE HANDLING

Sr. No.	Type of solid waste	Estimated daily Quantity	Estimated annual quantity	Disposal
1	Reject coal	~1,100 TPD tonnes per day	~0.48 MTPA (4,80,000 tonnes/year)	To Power Plant, Brick Kilns and other Industries
2	Sludge from thickener	~13.7 TPD	~5,000 TPA	To be blend with washed coal
3.	Spent oil & Grease	~10 kg/Month (Max)	~120 kg/year (Max)	Will be sold to authorised recyclers
4.	Damaged / worn out machine parts	-	~2 TPA (Max.)	To be sold to scrap dealers
5.	Sludge from Domestic waste	~0.65 to 0.7 kg/day	~214 to 231 Kg/year	Will be used as manure in plantation.

WATER POLLUTION CONTROL AND WATER MANAGEMENT MEASURES

It is proposed to operate the coal washery plant on 'Zero Effluent Discharge' principle. Thus, all the effluent generated from the plant will be treated, recycled and reused or discharged within the plant premises only.

Fine coal slurry from the coal washery collected in the fine coal tank and will be pumped into a set of classifying cyclones. The underflow of classifying cyclone will be dewatered in Hi Frequency screen while the overflow from cyclone will be fed to a Hi-rate Thickener. Thickened slurry from thickener will be dewatered in a Multi Roll Belt Press filter. Anionic and Cationic Flocculants will be used in thickener and Belt Press to facilitate settling and dewatering process. The treated water will be recycled and reused in the coal washing process.

Domestic discharge from rest shelters, canteens and toilets will be channelized through proper sewage drains and treated in package type STP.

Storm water run-off from the plant area will be collected in a series of settling tanks and will be utilized for coal washing, dust suppression and plantation. Wash water from workshop will be treated in oil & grease traps and treated water will be used for sprinkling at coal stack yard.

PROPOSED AIR POLLUTION CONTROL MEASURES

It is proposed to adopt wet coal washing process in the proposed coal washery. Hence, no dust emissions are envisaged from coal washing process. However, to control fugitive dust emissions from coal handling, storage, crushing and transport activities, following control measures will be adopted:

- Minimise transport of coal by trucks by maximizing use of Kusmahi railway siding at 11 km.
- Transportation of coal by trucks covered with tarpaulin sheet. Overloading will be strictly prohibited.
- Concreting/blacktopping of internal roads to avoid generation of dust.
- Plantation of tall trees with thick foliage along periphery of the project boundary in order to arrest dust;
- Permanent water sprinklers where unloading / loading of raw coal will be carried out.
- Periodic water sprinkling on internal roads.
- The speed of trucks plying on the unpaved roads will be limited to avoid generation of dust;
- Provision of bag filters of adequate capacity for coal crushers.
- Use of covered conveyors for internal transport of coal.
- Provision of dust extraction / water sprinkling arrangement at all transfer points.
- Dust mask will be provided to the workers. Regular trainings will be imparted to workers to improve awareness about usage of dust masks.
- Regular maintenance of trucks will be carried out and Pollution Under Control Certificate (PUC) will be obtained as per Govt. norms for HCV vehicles.
- High polluting vehicles / machinery shall be discarded and replaced with new vehicles / machinery having improved technology.
- Ground stocks of coal, rejects will be covered with tarpaulin during heavy winds.
- Periodic maintenance of equipment & machinery deployed at project site.
- Wagon loading of washed coal through closed conveyor system.
- Periodic monitoring of ambient air quality in plant premises and in nearby villages to assess efficacy of adopted air pollution control measures and adoption of additional air pollution control measures, if required.







TOTAL EIA/EMP EXPENDITURE

Sr. No.	Component	Description	Capital Investment (Rs.In lacs)	Recurring Cost (Rs. In lacs/annum)
1	Air Pollution Control Equipment	Bag Filters, Sprinklers, Rain Guns, Water Tankers, Pipelines, Pumps, and Monitoring etc.	150.0	15.0
2	Water Pollution Control & Conservation	Packaged type STP, Storm water drain, Piezometer to monitor ground monitor level, Rainwater Harvesting Structures/Recharge Structures, etc.	100.0	10.0
3	Green Belt*	Landscaping and Plantation	30.0	3.0
4	Occupational Health & Safety, Fire Fighting System	Provision of PPE, First Aid Centre, Fire Extinguishers, etc.	30.0	3.0
5	Approach Road	Construction of 100 m length and 9 m width approach road.	30.0	-
6	Environmental Monitoring	Stack Monitoring, Ambient Air Quality Monitoring, Water quality monitoring, Noise Monitoring, Soil Quality Monitoring etc.	-	3.0
	Total (A)		340.0	34.0
	Amount towards various social Development activities		20.0	CSR As per Company Law
	Total (B)		20.0	
	Total (A+B)		360.0	

* In 3 years, Considering 5.76 ha Greenbelt area x 2500 trees per ha = 14,400 nos. x Rs. 200 per tree = Rs. 28,80,000

Provision for Action Plan of Public Hearing

Sr. No	Major Activities Heads	Year of Implementation			
		Budget in Laes (Rs.)	1 st year	2 nd year	3 rd year
			(Rs. In lacs)	(Rs. In lacs)	(Rs. In lacs)
Based on Public Hearing/Consultation					
1	Health Check-up camp	1.25	0.50	0.50	0.25
2	Distribution of Medicines for BP, Sugar, TB, Cancer etc.	1.25	0.50	0.50	0.25
3	Skill development training program for Youth (LMV, HMT, Electrician etc. and short-term courses)	1.25	0.50	0.50	0.25
4	Tree plantations in nearby villages	1.50	0.50	0.50	0.50
	Sub Total (A)	5.25	2.00	2.00	1.25

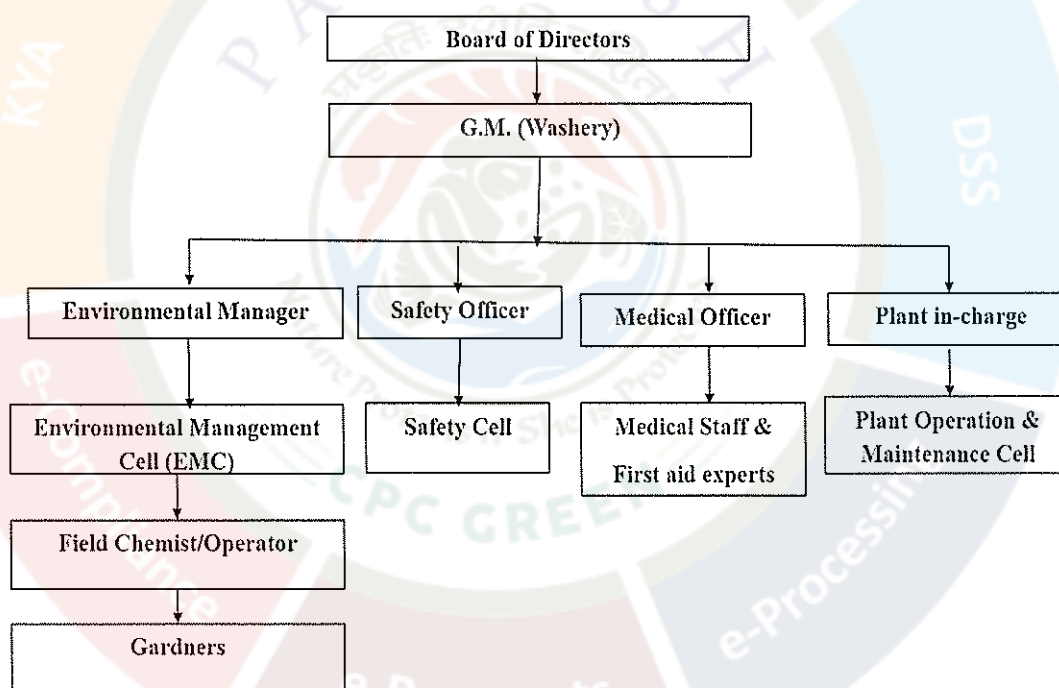
Community and Infrastructure Development					
1	Solar Based Street Light	2.50	1.00	1.00	0.50
2	Support to local school- provide the Educational Material including teaching material, school uniforms and shoes etc.	1.25	0.50	0.50	0.25
3	School infrastructure Improvement	2.50	1.00	1.00	0.50
	Sub Total (B)	6.25	2.50	2.50	1.25

Training and Awareness Program					
1	Awareness Program on innovative Agriculture Practices / Environment	1.25	0.50	0.50	0.25
2	Training Program for small farmers for livelihood generation goat, poultry unit, fishery etc.	1.25	0.50	0.50	0.25
	Sub Total (C)	2.50	1.00	1.00	0.50

Woman Empowerment					
1	Skill training courses for women for self-employment encouragement - short term courses like Beauty parlour, Stitching, Pickle, etc.	1.50	0.50	0.50	0.50

2	Training & Law sessions for women issues or Domestic Violence	1.50	0.50	0.50	0.50
3	Capacity Building Program for Asha Worker/Anganwadi Teachers/ School Teachers	1.50	0.50	0.50	0.50
4	Health Awareness Camp for Woman	1.50	0.50	0.50	0.50
	Sub Total (D)	6.00	2.00	2.00	2.00
	Total	20.00	7.50	7.50	5.00

ENVIRONMENTAL CELL AND ORGANIZATION CHART



STATUTORY CLEARANCES

1.	Land docs	:	Land is purchased by mutual understanding with land owner.
2.	CO	:	The CO, Balumath vide letter no. 912, dated 11.07.2024 has mentioned the plot no. of the project is not recorded as "Jungle- Jhari" in R.S. Khatiyani & Register II.
3.	DFO Wild Life	:	Deputy Director, Palamau Tiger Project, South Division, Mediniagar vide letter no. 797, dated 09.09.2024 certified

			that the proposed project site is outside Eco Sensitive Zone of Palamau Tiger Reserve.
4.	DFO Territorial	:	Divisional Forest Officer, Latehar Forest Division vide letter no. 1613, dated 08.10.2024 certified that the distance of reserved / protected forest land is more than 250 meter from proposed project site.
5.	Public Hearing	:	Member Secretary, JSPCB vide Ref. No. PC/PH/RNC/14/2025 /3428, dated 31.12.2025 informed that Public Hearing conducted on 08.11.2025.
6.	Baseline study period	:	2 nd December, 2024 to 28 th February, 2025.
7.	CGWA	:	No Objection Certificate (NOC) for withdrawal of water has been obtained from CGWA vide No. NOC/IND/JH/2026 /5375/N, dated 15.05.2026 valid up to 14.05.2029.

State Level Environment Level Impact Assessment Authority (SEIAA), Jharkhand in its 133rd meeting held on 27th, 28th & 29th July, 2026 discussed the project proposal along with recommendations made by SEAC in its 133rd meeting held on 08th, 09th, 10th, 11th and 12th July, 2026 and decided to grant EC to the project.

On the basis of recommendation of SEAC and decision of SEIAA to grant of EC, Environmental Clearance is hereby issued to the “**Proposed Green Field Project to Set-up wet 2.48 MTPA Coal Washery by M/s Omkar Coal Washeries Pvt. Ltd., Village : Olhepat, Tehsil : Balumath, Distt.: Latehar, Jharkhand (7.48 Ha)**” alongwith the following specific conditions as recommended by SEAC:

I. Specific Conditions:

- i. This Environmental Clearance is valid subject to the following condition below – That this project has-
 - a. Obtained all legal rights to operate at concerned place.
 - b. Complied with all existing concerned laws of the land and
 - c. Complied with the decisions of SEIAA on the issue of Environmental Clearance till date.
- ii. The directions proscribed and prescribed in the Office Memorandum No. FC-11/119/2020-FC, Dated : 17th May, 2022 of MoEF&CC shall be strictly adhered to.
- iii. As per Letter No. PC/MoEF/EC-CTE-37/2026-2351, Dated : 24.07.2026 of JSPCB it has been mentioned that Environmental Safeguard will be issued later on. Hence in compliance of OM File No. Q-15012/2/2022-CPW-Part(1)/e-240741, dated 14.01.2025 and File No. Q-15012/2/2022-CPW9Part-I)/e-231973, dated 08.10.2025, the PAs will mandatorily obtain the

Environmental Safeguard to be implemented from Jharkhand State Pollution Control Board.

- iv. **An additional area of 3.89 Ha adjacent to the project boundary of 7.48 Ha is earmarked for green belt development to meet the minimum distance criteria of 250 meters from the nearest forest. This green belt is in addition to the green belt development within the project area over 1.87 Ha.**
- v. **In compliance of OM no. F.No. IA3-22/3/2024-IA.III (E-241594) dated 24.07.2024 of MoEF&CC, Govt. of India plantation of saplings shall be carried out in the earmarked green belt area as the part of tree plantation campaign “*Ek Ped Ma Ke Naam*” and the details of the same shall be uploaded in the MeriLiFE Portal (<https://merilife.nic.in>). 10% of the total green belt proposed shall be allocated under this clause.**

II. Statutory compliance:

- i. The project proponent shall obtain forest clearance under the provisions of Forest (Conservation) Act, 1980, in case of the diversion of forest land for non-forest purpose involved in the project.
- ii. The project proponent shall obtain clearance from the National Board for Wildlife, if applicable.
- iii. The project proponent shall prepare a Site-Specific Conservation Plan / Wildlife Management Plan and approved by the Chief Wildlife Warden. The recommendations of the approved Site-Specific Conservation Plan / Wildlife Management Plan shall be implemented in consultation with the State Forest Department. The implementation report shall be furnished along with the six-monthly compliance report. (in case of the presence of schedule-I species in the study area)
- iv. The project proponent shall obtain Consent to Establish / 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/ Committee.
- v. The project proponent shall obtain the necessary permission from the Central Ground Water Authority.
- vi. Solid waste/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 as amended from time to time.
- vii. Coal beneficiation practices shall be carried out under strict adherence to provisions of the Factories Act, 1957 and subordinate legislations made there under.

III. Air quality monitoring and preservation

- i. The National Ambient Air Quality Emission Standards issued by the Ministry vide G.S.R. No. 826 (E) dated 16th November, 2009 shall be complied with.

- ii. Adequate ambient air quality monitoring stations shall be established in the core zone as well as in the buffer zone for monitoring of pollutants, namely particulates, SO₂ and NO_x. Location of the stations shall be decided based on the meteorological data, topographical features and environmentally and ecologically sensitive receptors in consultation with the State Pollution Control Board. Monitoring of heavy metals such as Hg, As, Ni, Cd, Cr, etc. carried out at least once in six months.
- iii. Continuous ambient air quality monitoring stations as prescribed in the statute be established in the core zone as well as in the buffer zone for monitoring of pollutants, namely PM₁₀, PM_{2.5}, SO₂ and NO_x. Location of the stations shall be decided based on the meteorological data, topographical features and environmentally and ecologically sensitive targets in consultation with the State Pollution Control Board. Online ambient air quality monitoring stations may also be installed in addition to the regular monitoring stations as per the requirement and/or in consultation with the SPCB. Monitoring of heavy metals such as Hg, As, Ni, Cd, Cr, etc. to be carried out at least once in six months.
- iv. Transportation of coal by road shall be carried out by covered trucks/conveyors. The transportation of clean coal and rejects shall be by rail with wagon loading through silo. Effective measures such as regular water sprinkling shall be carried out in critical areas prone to air pollution and having high levels of particulates such as roads, belt conveyors, loading/unloading and transfer points. Fugitive dust emissions from all sources shall be controlled at source. It shall be ensured that the ambient air quality parameters conform to the norms prescribed by the Central/State Pollution Control Board.
- v. All approach roads shall be black topped and internal roads shall be concreted. The roads shall be regularly cleaned. Coal transportation shall be carried out by covered trucks.
- vi. Covered trucks shall be engaged for mineral transportation outside the washery upto the railway siding, shall be optimally loaded to avoid spillage en-route. Trucks shall be adequately maintained and emissions shall be below notified limits.
- vii. Facilities for parking of trucks carrying raw material from linked mine shall be created within the unit.
- viii. Vehicular emissions shall be kept under control and regularly monitored. The vehicles having 'PUC' certificate from authorized pollution testing centres shall be deployed for washery operations.
- ix. Hoppers of the coal crushing unit and other washery units shall be fitted with high efficiency bag filters/mist spray water sprinkling system shall be installed and operated effectively at all times of operation to check fugitive emissions from crushing operations, transfer points of closed belt conveyor systems and from transportation roads.
- x. The raw coal, washed coal and coal wastes (rejects) 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.

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- xi. The temporary reject sites should appropriately planned and designed to avoid air and water pollution from such sites.

IV. Water quality monitoring and preservation

- i. The effluent discharge (mine waste water, workshop effluent) shall be monitored in terms of the parameters notified under the Water Act, 1974 Coal Industry Standards vide GSR 742 (E) dated 25.9.2000 and as amended from time to time by the Central Pollution Control Board.
- ii. The monitoring data shall be uploaded on the company's website and displayed at the project site at a suitable location. The circular No. J-20012/1/2006-IA.11 (M) dated 27.05.2009 issued by Ministry of Environment, Forest and Climate Change shall also be referred in this regard for compliance.
- iii. Industrial waste 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 there under, and as amended from time to time.
- iv. 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 washery. 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 stabilised with plantation so as to withstand the peak water pressure preventing any chance of inundation.
- v. Heavy metal content in raw coal and washed coal shall be analysed once in a year and records maintained thereof.
- vi. The rejects should preferably be utilized in FBC power plant or disposed off through sale for its gainful utilization. If the coal washery rejects are to be disposed off, it should be done in a safe and sustainable manner with adequate compaction and post closure arrangement to avoid water pollution due to leachate from rejects and surface run off from reject dumping sites.
- vii. An Integrated Surface Water Management Plan for the washery area up to its buffer zone considering the presence of any river/rivulet/pond/lake *etc.* with impact of coal washing activities on it, shall be prepared, submitted to MoEFCC and implemented.
- viii. Waste Water shall be effectively treated and recycled completely either for washery operations or maintenance of green belt around the plant.
- ix. Rainwater harvesting in the washery premises shall be implemented for conservation and augmentation of ground water resources in consultation with Central Ground Water Board.
- x. No ground water shall be used for coal washing unless otherwise permitted in writing by competent authority (CGWA) or MoEFCC. The make-up water requirement of washery should not exceed 1.5 m³/tonne of raw coal.
- xi. Regular monitoring of ground water level and quality shall be carried out in and around the mine lease area by establishing a network of existing wells and constructing new piezometers during the mining operations. The monitoring of ground water levels shall be carried out four times a year i.e. pre-monsoon, monsoon, post-monsoon and winter. The ground water quality shall be







monitored once a year, and the data thus collected shall be sent regularly to MOEFCC/RO.

- xii. Monitoring of water quality upstream and downstream of water bodies shall be carried out once in six months and record of monitoring data shall be maintained and submitted to the Ministry of Environment, Forest and Climate Change/ Regional Office.
- xiii. The project proponent shall take all precautionary measures to ensure riverine/ riparian ecosystem in and around the coal mine up to a distance of 5 km. A riverine/riparian ecosystem conservation and management plan should be prepared and implemented in consultation with the irrigation / water resource department in the state government.

V. Noise and Vibration monitoring and prevention

- i. 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.
- ii. 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.

VI. Coal Beneficiation:

- i. Coal stacking plan shall be prepared separately for raw coal, clean coal, middling and rejects.
- ii. Efforts should be made to reduce energy consumption by conservation, efficiency improvements and use of renewable energy.

VII. Green Belt:

- i. Three tier greenbelt comprising of a mix of native species, of minimum 30 m width shall be developed all along the washery area to check fugitive dust emissions and to render aesthetic to neighbouring stakeholders. A 3-tier green belt comprising of a mix of native species or tree species with thick leaves shall be developed along vacant areas, storage yards, loading/transfer points and also along internal roads/main approach roads.
- ii. 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.

VIII. Public Hearing and Human Health issues:

- i. Adequate illumination shall be ensured in all mine locations (as per DGMS standards) and monitored weekly. The report on the same shall be submitted to this ministry & it's RO on six- monthly basis.







- ii. The project proponent shall undertake occupational health survey for initial and periodical medical examination of the personnel engaged in the project and maintain records accordingly as per the provisions of the Mines Rules, 1955 and DGMS circulars. Besides regular periodic health check-up, 20% of the personnel identified from workforce engaged in active mining operations shall be subjected to health check-up for occupational diseases and hearing impairment, if any. as amended time to time.
- iii. Personnel (including outsourced employees) working in core zone shall wear protective respiratory devices and shall also be provided with adequate training and information on safety and health aspects.
- iv. Implementation of the 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 action plan submitted with budgetary provisions during the public hearing. 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.
- v. The project proponent shall follow the mitigation measures provided in this Ministry's OM No.Z-11013/5712014-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'.

IX. Corporate Environment Responsibility:

- i. The project proponent shall comply with the provisions contained in this Ministry's OM vide F.No. 22-65/2017-IA.III dated 1st May 2018, as applicable, regarding Corporate Environment Responsibility.
- ii. 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. The copy of the board resolution in this regard shall be submitted to the MoEF&CC as a part of six-monthly report.
- iii. 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.
- iv. 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.

Signature

Signature

Signature

- v. Self-environmental audit shall be conducted annually. Every three years third party environmental audit shall be carried out.

X. Miscellaneous:

- i. The project proponent shall make public the environmental clearance granted for their project along with the environmental conditions and safeguards at their cost by prominently advertising it at least in two local newspapers of the District or State, of which one shall be in the vernacular language within seven days and in addition this shall also be displayed in the project proponent's website permanently.
- ii. The copies of the environmental clearance shall be submitted by the project proponents to the Heads of local bodies, Panchayats and Municipal Bodies in addition to the relevant offices of the Government who in turn has to display the same for 30 days from the date of receipt.
- iii. The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website and update the same on half-yearly basis.
- iv. The project proponent shall monitor the criteria pollutants level namely; PM₁₀, SO₂, NO_x (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the projects and display the same at a convenient location for disclosure to the public and put on the website of the company.
- v. 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.
- vi. The project proponent shall submit the environmental statement for each financial year in Form- V to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently and put on the website of the company.
- vii. The project authorities shall inform to the Regional Office of the MOEFCC regarding commencement of mining operations.
- viii. The project authorities must strictly adhere to the stipulations made by the State Pollution Control Board and the State Government.
- ix. The project proponent shall abide by all the commitments and recommendations made in the EIA/JEMP report, commitment made during Public Hearing and also that during their presentation to the Expert Appraisal Committee.
- x. No change in coal beneficiation process and scope of work shall be made without obtaining prior approval of the Ministry of Environment, Forests and

Climate Change (MoEFCC) with such conditions mentioned therein. No change in the maximum quantum of raw material feed per annum against the approved washery capacity shall be made.

- xi. Concealing factual data or submission of false / fabricated data may result in revocation of this environmental clearance and attract action under the provisions of Environment (Protection) Act, 1986.
- xii. The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.
- xiii. The Ministry / SEIAA reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.
- xiv. The Regional Office of this Ministry shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer (s) of the Regional Office by furnishing the requisite data / information / monitoring reports.
- xv. The above conditions shall be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous and Other Wastes (Management and 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.
- xvi. Any appeal against this EC 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.
- xvii. The Prescribed EC is valid as per Notification no. S.O. 1807(E) dated 12.04.2022 of MoEF & CC, Govt. of India.

Sd/-
Member Secretary
State Level Environment Impact
Assessment Authority, Jharkhand.

Memo No. : EC/SEIAA/2024-25/3292/2024/ 133

Ranchi, Date : 07.08.2026

Copy to:

1. Secretary, Department of Forests, Environment & Climate Change, Govt. of Jharkhand.
2. Deputy Commissioner, District – Latehar, Jharkhand.
3. Divisional Forest Officer, Latehar Forest Division, Latehar, Jharkhand.

4. Deputy Director, Palamu Tiger Project, South Division, Medininagar, Jharkhand.
5. Director, IA Division, Monitoring Cell, MoEF and Climate Change, Indra Paryavaran Bhavan, Jorbag Road, Aliganj, New Delhi – 110003.
6. Regional Office, Ministry of Environment, Forest and Climate Change, Govt. of India, 2nd Floor, Jharkhand State Housing Board (HQ), Harmu Chowk, Ranchi, Jharkhand – 834002.
7. Member Secretary, Jharkhand State Pollution Control Board, Ranchi.
8. Secretary, Jharkhand State Expert Appraisal Committee, Ranchi.
9. Website.
10. Guard file.

