



Government of India  
Ministry of Environment, Forest and Climate Change  
(Issued by the State Environment Impact Assessment  
Authority(SEIAA), Jharkhand)

To,

The GM  
BHARAT COKING COAL LIMITED  
Office of General Manager WJ Area -828129

**Subject:** Grant of Environmental Clearance (EC) to the proposed Project Activity under the provision of EIA Notification 2006-regarding

Sir/Madam,

This is in reference to your application for Environmental Clearance (EC) in respect of project submitted to the SEIAA vide proposal number SIA/JH/IND2/265252/2022 dated 19 May 2023. The particulars of the environmental clearance granted to the project are as below.

1. EC Identification No.	EC23B002JH117772
2. File No.	EC/SEIAA/2023-24/2842/2023
3. Project Type	New
4. Category	B2
5. Project/Activity including Schedule No.	1(b) Offshore and onshore oil and gas exploration, development & production
6. Name of Project	JHARIA CBM BLOCK I
7. Name of Company/Organization	BHARAT COKING COAL LIMITED
8. Location of Project	Jharkhand
9. TOR Date	N/A

The project details along with terms and conditions are appended herewith from page no 2 onwards.

Date: 19/06/2023

(e-signed)  
Ashok Kumar, IFS  
Member Secretary  
SEIAA - (Jharkhand)

*Note: A valid environmental clearance shall be one that has EC identification number & E-Sign generated from PARIVESH. Please quote identification number in all future correspondence.*

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## State Level Environment Impact Assessment Authority, Jharkhand

Nursery Complex, Near Dhurwa Bus Stand, P.O+P.S-Dhurwa, Ranchi, Jharkhand-834004

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Letter No : EC/SEIAA/2022-23/2842/2022/

Ranchi, Date :

**To: M/s Bharat Coking Coal Limited (BCCL),  
Shri Jitendra Sathua Mahapatra (General Manager),  
Western Jharia Area, Moonidih, Dhanbad,  
District - Dhanbad, Jharkhand : 828129.**

**Sub: Environmental Clearance for the project “Jharia CBM BLOCK – I of M/s BHARAT COKING COAL LIMITED (BCCL) at Village : Dhandabar, Parsia, Karitand, Bardhubhi, Jatudih, Debagram, Tehsil : Dhanbad, District : Dhanbad, Jharkhand”, (Proposal No. SIA/JH/IND2/265252/2022) - regarding.**

**Ref: Your application no.- GM/WJA/BCCL/2023/792, dated – 19.05.2023.**

Sir,

It is in reference to the project “Jharia CBM BLOCK – I of M/s BHARAT COKING COAL LIMITED (BCCL) at Village : Dhandabar, Parsia, Karitand, Bardhubhi, Jatudih, Debagram, Tehsil : Dhanbad, District : Dhanbad, Jharkhand” submitted by you for seeking prior Environmental Clearances (EC).

This is a new project which has been taken for appraisal on 23.05.2023.

**Project Category : B2 – Application for Environment Clearance**

**EC Application for : CBM exploration activity in Jharia CBM Block. It has been proposed to drill 5 (five) core holes and 5 (five) test wells in the exploration phase in two years. The total land required is estimated to be 70.74 Ha at 5 different patches of land within 2655 Ha of CBM Block boundary.**

### Project and Location Details:

Sl	Parameter		Details
1	Project Name	:	Jharia CBM Block-I
2	Lessee	:	Bharat Coking Coal Limited (BCCL)
3	Lease Address	:	Koyla Bhawan, Koyla Nagar, Dhanbad - 826005, Jharkhand
4	Lease Area	:	Ha: 70.74 Acres: 174.80
5	Type of Land	:	Non Forest – BCCL and Private Land

6	Project Cost	:	63.393 Cr
7	EMP Budget	:	Capital: Rs.6,73,000/- Recurring: Rs. Nil
8	CSR / CER Budget	:	Rs. 1.267/- Cr
9	New or Expansion	:	New project
10	Mineable Reserves	:	Cu. M.: Not Applicable Tonnes: Not Applicable
11	Project Life	:	2 years (Exploration Phase)
12	Man Power	:	15
13	Water Requirement	:	15 – 20 m <sup>3</sup> for each core hole and 25 – 35 m <sup>3</sup> for each test hole
14	Water Source	:	Mine Water
15	DG Set / Power	:	62.5 KVA
16	Nearest Water Body	:	Kali Mandir Pond, Karitand
17	Nearest Habitation	:	D M Colony
18	Nearest Rail Station	:	Dhanbad Railway Station
19	Nearest Airport	:	Bokaro
20	Nearest Forest	:	Forest in Jarma Mauja
21	Road & Highways	:	Dhanbad Bokaro Highway


#### CO-ORDINATES

1	Latitude	:	From: 23°42'00"N	23°47'00"N
2	Longitude	:	From: 86°16'30"E	86°22'30"E

#### LAND DETAILS

Sl No.	Mauja Name	Khata No.	Plot No.
1	Dhandabar	1	812 (P)
2	Parasia	17	900(P)
		21	944,927(P),942(P)
		45	945(P)
		16	899(P)
3	Karitand	1	268,270,271
		2	209,210,233,269,276,281
		3	267,278,279,283,295,296,310
		4	261, 262, 263







		5	240, 243, 241, 242, 245, 247, 248, 250, 253, 254, 255, 257, 264
		8	252
		10	284, 285, 290, 292, 293, 294
		11	272, 273, 274, 275, 286, 287, 288, 289, 291, 244
		12	218, 251, 256, 277, 280, 282, 306, 307
		14	213, 214, 215, 216, 217, 219, 221, 222, 223, 224, 225, 226
		15	212
		16	211, 220, 328, 329, 266
		17	192, 208, 249, 246,
		19	259, 265,
		20	227, 228, 229, 230, 231, 232, 234, 235, 236, 237, 238, 239,
		23	258, 260
4	Bardubhi	1	861, 868,
		2	700, 902, 903
		3	823, 839, 863
		4	905, 906
		7	817, 830, 838, 840
		10	822
		11	803, 852, 855, 866, 876, 878, 879, 881, 882, 883
		12	766, 767, 824, 825, 851
		14	796, 797, 842, 843, 845, 848, 850, 857, 858, 859, 860, 864, 869
		15	820, 826, 827, 828, 829, 831, 832, 847, 894, 895, 896
		16	755, 756, 775, 776, 777, 780, 781, 784, 785, 804, 805, 806, 819, 821
		18	846, 853, 865, 867, 874
		20	836
		22	908
		23	761, 762, 763, 854, 870, 875, 880
		24	841, 844
		25	363, 764, 765, 779, 783, 786, 787, 798, 799, 800, 807, 808, 809, 814, 818, 884, 885, 886, 887, 888
		26	768, 773, 774, 778, 782, 789, 790, 791, 849, 871, 873
		27	792, 793
		31	771, 772, 794, 795, 801, 872, 877, 889, 898, 897, 899, 900, 901, 972
		34	757, 758, 904, 909

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		37	890,891,892,893
		39	833,856
		41	605
		44	633,634,862
		61	760,754, 753,759, 769
		63	788, 837
		64	802
5	Jatudih	13	648(P)
6	Debogram	38	937(P)

### STATUTORY CLEARANCES

1	LOI / Lease Docs	:	Under BCCL MINING Leasehold Area under CBA Act 1957 and CMN Act 1972.
2	CO	:	The CO Putki (Dhanbad) vide letter no. 135, dated 27.03.2023 & letter no. 165, dated 13.04.2023 and CO Baghmara (Dhanbad) vide letter no. 425, dated 11.06.2022 mentioned that the plot numbers of the project is not recorded as 'Jungal - Jahri' in Khatian.
3	DFO Wild Life	:	Divisional Forest Officer, Wildlife Hazaribagh vide Letter no. 2547 dated 19.12.2022 certified that the proposed project is outside Eco Sensitive Zone of Parasnath & Topchanchi Wildlife Sanctuary.
4	DFO Forest Distance	:	DFO, Dhanbad Forest Division vide letter no. 2821, dated 12.12.2022 certified that the distance of notified forest is more than 250 m from proposed project site.

### Land Use

S. No.	Present Land Use Mapping	Patch 1 (in Ha)	Patch 2 (in Ha)	Patch 3 (in Ha)	Patch 4 (in Ha)	Patch 5 (in Ha)	Total
1.	Human Settlements	0.00	6.32	0.00	0.00	0.00	6.32
2.	Vegetation	0.03	29.30	0.00	0.50	0.00	29.83
3.	Agricultural Land (crop and fallow both)	0.00	10.72	0.09	0.17	0.09	11.07
4.	Wasteland	0.06	23.30	0.00	0.00	0.00	23.36
5.	Surface Water Bodies	0.00	0.16	0.00	0.00	0.00	0.16
<b>Total</b>		<b>0.09</b>	<b>69.80</b>	<b>0.09</b>	<b>0.67</b>	<b>0.09</b>	<b>70.74</b>

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## ENVIRONMENT MANAGEMENT

### Green Belt Development

- Plantation over land will be done after completion of drilling activities. The total Green Belt area is proposed in 1 Ha along the periphery of patches that are in BCCL-owned land (in Patch 2 & Patch 4) and gabion plantation along the approach road.
- The estimated cost for block plantation work is around Rs. 3, 20, 000/- per hectare and Rs. 2600 approx. for each tree with gabion protection. The total cost for green belt development (including gabion plantation) is approximately Rs.5 lakhs.

For successful enrichment of site area, preference is given to endemic species and mixed culture. The species will be selected carefully from the following groups:

- Fruit bearing tree species.
- Tree species with dense foliage for shade.
- Flowering and ornamental tree species.
- Native species.

Some of the species which will be selected for plantation are Neem tree, Babool, Arjun, Amrud, Banyan tree etc.

### Waste Management Plan

- Use of low toxicity chemicals for the preparation of drilling fluid.
- Fuel and chemical storage areas will be paved and suitable bund will be provided to contain emergency spillage.
- Necessary spill prevention measures viz. spill kit will be made available at the hazardous material storage area
- The hazardous waste (waste and used oil) will be managed in accordance with Hazardous and Other Wastes (Management and Trans boundary Movement) Rules, 2016
- Used batteries will be recycled through the vendors supplying lead acid batteries as required under the Batteries (Management & Handling) Rules, 2001.

### Water Management Plan

#### Construction & Closure Phase:

- A small quantity of water required for fugitive dust suppression, site preparation/ decommissioning and drinking will be obtained from nearby sources.

#### Operational Phase:

- A waste water storage pit (size 18 m x 18m x 2.5m). **having lined with HDPE Sheet.** will be provided to collect waste water generated from drilling operations Drilling fluid from the drilling operations will also be collected in the waste pits and subjected to solar drying. HDPE lining will also cover areas (1m from the pit edge) surrounding the pit so that soil does not get contaminated.
- Water based drilling fluids will be used.
- Best practices will be followed during the cementing job and casing so that ground water does not get contaminated.
- Minimization of spillage from contaminants such as oil from equipment, drilling mud etc on the soil. In case the spillage takes place, immediate action for their removal will be taken.
- Portable bio-toilets will be provided.



## **Air Quality Management**

### **Construction Phase: Preparation of access roads and drilling sites**

- Water spraying to suppress fugitive dust generation.
- The top soil generated will be kept properly to prevent generation of fugitive dust.

### **Operation Phase: Drilling at the identified sites**

- Timely preventive maintenance servicing of **Drilling Machine and DG set** will be done. A log book for its maintenance will be kept at the site.
- Water Spraying will be done to suppress fugitive dust generation, particularly on the approach road.
- CPCB emission norms for DG set will be fulfilled.
- Pollution Control Checks will be conducted at 06 monthly intervals for all vehicles used on the site. A record of the same will be maintained.

### **Closure Phase: Decommissioning / Site Closures**

- Water spraying to suppress fugitive dust generation.
- No significant impact on ambient air/noise quality is anticipated beyond the project boundary.

## **Noise Quality Management**

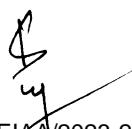
- Various activities will be preferably carried out during daytime
- DG set will be equipped with proper acoustic enclosures to reduce noise
- Min. distance of 100m between drilling sites & nearby habitation will be maintained
- Ear plugs / ear muffs will be provided to the workers at the site
- Ambient Noise Monitoring will be performed at each drilling site
- No significant impact on ambient noise quality is anticipated beyond the project boundary.

## **Land & Soil Quality**

- Top soil (drilling sites and road construction) will be carefully removed and stored, used for land restoration during closure phase.
- Drill Cuttings and return mud may contaminate soil at the drilling site. These waste materials will be stored in HDPE lined impervious pit
- Disposal will be carried out in accordance with Notification dated 30th August 2005 – G.S.R. 546 point No. C “Guidelines” for disposal of Solid wastes, Drill Cutting and Drilling Fluids for Offshore and Onshore Drilling Operation”.
- Portable bio-toilets will be provided.

## **Biodiversity/ Biological Environment**

- No ecologically sensitive area such as National Park, Bird Sanctuary etc. in the immediate vicinity.
- No endangered species in the area.



- Acoustic enclosure to the Generator set for minimizing the impact on ambient noise.

### Risks/Hazards Management

Sl. No.	Situation	Actions to be Taken	Required Resources	Responsibility
1	Oil Spills	<ul style="list-style-type: none"> <li>▪ Supervise actions for stoppage of spillage urgently</li> <li>▪ Inform nearby BCCL installation.</li> <li>▪ Oil mixed with water will be separated by using skimmer</li> <li>▪ Biological methods for cleaning of contaminated soil</li> </ul>	Fire extinguisher & Skimmer	Shift – in –Charge will coordinate with help of other members of the crew.
2.	Fire	<ul style="list-style-type: none"> <li>▪ Apply fire extinguisher at the site.</li> <li>▪ Inform nearby BCCL installation.</li> <li>▪ Inform nearby Fire Station for immediate help.</li> </ul>	Fire extinguisher & Buckets filled with sand	Shift I/Charge <ul style="list-style-type: none"> <li>▪ At least 2 members of drilling crew must be trained in use of fire extinguishers.</li> </ul>
3.	Natural Gas Leakage	<ul style="list-style-type: none"> <li>▪ Stop the source</li> <li>▪ Remove worker and provide medical help / artificial respiration.</li> <li>▪ Provide local exhaust ventilation system.</li> <li>▪ Provide Personal Protective Equipment to the workers.</li> <li>▪ Inform nearby BCCL installation for ambulance and required help.</li> </ul>	<ul style="list-style-type: none"> <li>▪ Gas Detector</li> <li>▪ Water spraying arrangements.</li> <li>▪ PPE</li> <li>▪ Leak Detection and Repair System.</li> </ul>	Shift – in –Charge will coordinate with help from other members of the crew.

The proposal was appraised by State Level Expert Appraisal Committee (SEAC) and recommended for grant of Environmental Clearance in its 104<sup>th</sup> meeting held on 22<sup>nd</sup>, 23<sup>rd</sup>, 24<sup>th</sup>, 25<sup>th</sup> and 26<sup>th</sup> May, 2023.

State Level Environment Impact Assessment Authority (SEIAA), Jharkhand in its 105<sup>th</sup> meeting held on 28<sup>th</sup> & 29<sup>th</sup> May, 2023 discussed the project proposal along with recommendations made by SEAC 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 **“Jharia CBM BLOCK – I of M/s BHARAT COKING COAL LIMITED (BCCL) at Village : Dhandabar, Parsia, Karitand, Bardhubhi, Jatudih, Debagram, Tehsil : Dhanbad, District : Dhanbad, Jharkhand”** 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 excess water released during exploration can inundate sensitive arid ecosystems, worsen surface water quality and diminish underground water supplies. Effective management of the same has to be implemented.
- iii. Methane form explosive mixture in combination with air. Management plan for same has to be implemented so that the explosive mixture is not formed.
- iv. The proposal shall not attract the following Acts & Rules.
  - a. Forest Act 1980.
  - b. Wild life (Protection) Act, 1972;
  - c. The Eco sensitive areas as notified under Environment (Protection) Act, 1986;
  - d. Critically polluted areas as notified by CPCB and also shall not harm live stocks and human beings and disturb their activities.
- v. The project proponent shall comply with the Bio-medical Waste Management Rules, 2016 and its amendments.
- vi. 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.
- vii. In the writ petition (Civil) no. 202/1995, T.N. Godaverman Thirumulpad vs union of India and ors. the Hon'ble Supreme Court passed an order dated 03.06.2022 " National Park or Wildlife Sanctuary must have an ESZ of minimum 01 km in which the activities prescribed and prescribed in the guidelines of 09th February, 2011 shall be strictly adhered to".

**Air & Noise Environment:**

- i. Adequate stack height shall be provided for D.G. Sets 3 x 1100 KVA and 1x450 KVA as per CPCB norms. The power requirement of the drilling rig (~3750 KW)



- will be met by using the Diesel Generator (DG) sets on-board. High Speed Diesel (HSD) will be used to run the drilling rig and the DG sets during operation.
- ii. Strict measures shall be taken to control odour with appropriate odour abatement methods.
  - iii. The proponent shall develop compensatory greenbelt in on shore which shall not be less than 33% of the total area of the site. Greenbelt with tall growing trees shall be developed.
  - iv. Fugitive emissions from storage tanks shall be avoided by providing air condensers.
  - v. The proponent should provide appropriate PPE to the persons working in the unit and suitable to their work place environment.
  - vi. The proponent shall establish adequate number of air monitoring stations, including one online station, in consultation with the JSPCB and take appropriate measures to ensure that the GLC shall comply with the NAAQM norms notified by MoEF&CC, GoI on 16.11.2009.
  - vii. Measures shall be taken to comply with the provisions made under "Noise pollution (Regulation and control) Amendment Rules 2010 dated 11-01-2010 issued by MoEF.
  - viii. The industry shall comply with MoEF&CC Guidelines for Disposal of Drill Cuttings and Drilling Fluid for Offshore Installation notified as per GSR 546 (E) dated 30th August 2005.
  - ix. In case the commercial viability of the project is established, the company will prepare a detailed plan for development of oil and gas fields in the block and obtain fresh environmental clearance for development and production.
  - x. Adequate infrastructural facilities/ equipment arrangement should be provided, so that booms, skimmers and chemical dispersants could be deployed immediately in case of oil spill from the installations/ drilling activities.
  - xi. The company shall comply with all the environmental protection measures and risk mitigation measures relating to the project shall be implemented.
  - xii. No pipelines or its part shall be laid in the Forest land/protected Area without prior permission/approval from the competent Authority.
  - xiii. As proposed by the project proponent, zero Liquid Discharge shall be ensured and no waste/treated water shall be discharged to any surface water body, sea and/or on land. Mobile ETP along with RO shall be installed to treat the waste water.
  - xiv. During production, storage and handling, the fugitive emission of methane, if any, shall be monitored using Infra-red camera/ appropriate technology.
  - xv. The project proponent also to ensure trapping/storing of the CO<sub>2</sub> generated, if any, during the process and handling.
  - xvi. The project proponent shall make all arrangements for control of noise from the drilling activity. Acoustic enclosure shall be provided for the DG sets along with adequate stack height as per CPCB guidelines.
  - xvii. Drill cuttings separated from drilling fluid shall be adequately washed and disposed in HDPE lined pit. Waste mud shall be tested for hazardous contaminants and disposed according to HWMH Rules, 2016. No effluent/drilling mud shall be discharged/disposed off into Sea. The company shall comply with the guidelines for

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- disposal of solid waste; drill cutting and drilling fluids for onshore drilling operation notified vide GSR.546 (E) dated 30<sup>th</sup> August, 2005.
- xviii. Oil spillage prevention and migration scheme shall be prepared. In case of oil spillage/ contamination, action plan shall be prepared to clean the site by adopting proven technology. The recyclable waste (oily sludge) and spent oil shall be disposed of to the authorized recyclers.
- xix. The project proponents shall take necessary measures to prevent fire hazards, containing oil spill and soil remediation as needed. At fixed installations or plants use of ground flares shall be explored, at the place of ground flaring, the overhead flaring stack with knockout drums shall be installed to minimize gaseous emissions during operation.
- xx. The project proponent shall develop a contingency plan for H<sub>2</sub>S release including all necessary aspects from evacuation to resumption of normal operations. The workers shall be provided with personal H<sub>2</sub>S detectors in locations of high risk of exposure along with self-containing breathing apparatus.
- xxi. Blow out Preventer system shall be installed to prevent well blowouts during drilling operations.
- xxii. On completion of the project, necessary measures shall be taken for safe plugging of wells with secured enclosures to restore the drilling site to the original condition. The same shall be confirmed by the concerned regulatory authority from environment viable, a full abandonment plan shall be implemented for the drilling site in accordance with the applicable DGH/Indian Petroleum Regulations.
- xxiii. As per the ministry's OM dated 30.09.2020 superseding the OM dated 01.05.2018 regarding the Corporate Environmental Responsibility, and as per the action plan proposed by the project proponent to address the socio-economic and environmental issues in the study area, the project proponent, as committed, shall provide education funds in technical training centers/ support in nearby village's schools, support in health care facilities, drinking water supply and funds for miscellaneous activities like solar street lights, battery, solar panel etc., in the nearby villages. The action plan shall be completed within time as proposed.
- xxiv. No lead acid batteries shall be utilized in the project/site.
- xxv. Occupational health surveillance of the workers shall be carried out as per the prevailing Acts and Rules. All workers & employees shall be provided with required safety kits/ mask for personal protection.
- xxvi. Oil content in the drill cuttings shall be monitored and report & shall send to the Ministry's Regional Office.
- xxvii. The project proponent shall prepare operating manual in respect of all activities, which would cover all safety & environment related issues and measures to be taken for protection. One set of environmental manual shall be made available at the drilling site/ project site. Awareness shall be created at each level of the management. All the schedules and results of environmental monitoring of the site should be done.



**Waste Water Generation:**

- i. The total waste water generation is Drilling fluids, bilge water and sewage shall be treated and discharged to the marine outfall adjacent to the rig after meeting the discharge norms specified in the EPA Rules / MARPOL. During normal course of operation the waste water will be recycled into process and in case of any eventuality.
- ii. The proponent shall provide on board STP with 50 KLD capacity for treatment of domestic waste water. The treated waste water shall be disposed as per MARPOL (residual chlorine 1 ppm).

**Hazardous / Solid Wastes:**

- i. Hazardous waste generated during the Rigs operations such as organic residue, waste oils, used oils etc., shall be disposed as per the Hazardous and other Wastes (Management and Transboundary Movement) Rules, 2016 and its amendments thereof.
- ii. The general method of handling and disposal of solid wastes shall be as follows:
  - Drill cuttings shall be separated from the mud and shale shaker using a fine mesh and washed. Washed drill cuttings shall be discharged at the well location as per stipulated norms.
  - General wastes, scrap metal and wood shall be segregated and brought back to the shore for appropriate disposal.
  - All plastic / paper waste shall be collected and brought back to the shore for disposal to scrap dealers.
  - Hazardous wastes such as waste lube/system oil from machinery, used oil from generator set shall be properly stored in drums and transported to base for safe disposal through authorized recyclers.
  - Containers of oil and other materials shall be brought back and sold to JSPCB/CPCB authorized recyclers.
  - Unused mud and drill cuttings shall be discharged to sea after dilution as per GSR 546(E) August 2005.
  - The proponent shall ensure that disposal of Drill Cuttings should not have oil content > 10 gm/kg as per GSR 546 (E).
  - On-site waste segregation shall be made by providing appropriate bins for different waste categories.
  - Non-biodegradable/Recyclable waste shall be sent to onshore base for safe disposal. Biodegradable waste shall be transported to onshore and used for composting.
  - As per Annex V MARPOL, Food waste shall be minced into pieces of < 25 mm size before disposing into the sea.
- iii. The proponent should strictly comply with the E-Waste Management Rules, 2016, and report compliance.



**Environment:**

- i. The Project Proponent shall ensure that the transportation activity of the unit should not cause any inconvenience to the public and comply with the local norms, if any;

**II. General Conditions:**

- i. The project proponent shall submit the copies of the **Environmental Clearance** 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.
- ii. The project authorities should advertise at least in two local newspapers widely circulated, one of which shall be in the vernacular language of the locality concerned, within 7 days of the issue of the clearance letter informing that the project has been accorded environmental clearance and a copy of the clearance letter is available with the State Pollution Control Board and SEIAA, Jharkhand.
- iii. The **Prior Environmental Clearance** issued to this project along with the Approved Environmental Management Plan (EMP) and the Approved DPR should be uploaded in the project's web site and be made available in the public domain.
- iv. The PEC main contents be displayed on permanent boards at the main entry of the premises and at other prominent places.
- v. The project proponent shall strictly adhere to its **Environmental Policy** approved by the SEIAA, and shall be made available in their web site.
- vi. A Separate Bank account need to be started for the budget allocated for the EMP and the amount committed should be deposited before the project obtains CTE/CTO as the case may be. The amounts allocated should not be diverted for any other purpose.
- vii. The funds earmarked for environmental protection measures should be kept in separate account and should not be diverted for other purpose. Year wise expenditure should be reported to the Ministry and its Regional Office located at Ranchi.
- viii. The proponent before starting the operations shall obtain all other mandatory clearances from respective departments, including the CTE and CTO from the JSPCB.
- ix. The project proponent shall meticulously follow the **Form-1/2** of the application; and approved **EMP, for the purpose of all compliances.**
- x. Four ambient air quality-monitoring stations should be established in the core zone as well as in the buffer zone. Location of the stations should be decided based on the meteorological data, topographical features and environmentally and ecologically sensitive targets and frequency of monitoring should be undertaken in consultation with the State Pollution Control Board.
- xi. Occupational health check up program for the workers should be undertaken periodically. A separate environmental management cell with suitable qualified personnel should be set-up under the control of a Senior Executive, who will report directly to the Head of the Organization.
- xii. The project proponent shall submit **Half-yearly** reports on the status of compliance of the stipulated **Environmental Clearance Conditions** including results of monitored data (both in hard copies as well as by e-mail) to the Ministry of Environment &







- Forests, its Regional Office, Ranchi, SEIAA, Jharkhand, Zonal Office of Central Pollution Control Board, and Jharkhand State Pollution Control Board.
- xiii. The proponent shall upload the status of compliance of the environmental clearance conditions including results of monitored data on their websites and shall update the same periodically.
  - xiv. Officials from the Regional Office of MoEF&CC, Ranchi / The SEIAA, Jharkhand through the Regional Offices of Jharkhand State Pollution Control Board, who would be monitoring the implementation of environmental safeguards, should be given full co-operation, facilities and documents/data by the project proponents during their inspection. A complete set of all the documents shall be submitted to the Regional Office to MoEF&CC, Ranchi.
  - xv. SEIAA reserves the right to cancel the EC issued at any time, if EC has been obtained by the proponent through suppression of any information or furnishing false information upon which the project is appraised.
  - xvi. Concealing the factual data in the compliance reports, or failure to comply with any conditions mentioned above may result in withdrawal of the EC and attract action under the provisions of Environment (Protection) Act, 1986.
  - xvii. The SEIAA reserves the right to alter/modify the above conditions or stipulate any further conditions from time to time, in the interest of environment protection.
  - xviii. 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.
  - xix. The project authority must strictly adhere to the stipulations made by the Central Government as part of the international conventions and Merchant Shipping Act.
  - xx. The project authorities must strictly comply with the rules and regulations under Manufacture, Storage and Import of Hazardous Chemicals Rules, 1989 as amended on 3<sup>rd</sup> October 1994. Prior approvals from OISD, PESO, etc. should be obtained wherever applicable.
  - xxi. The project authorities must comply with the rules and regulations with regard to handling and disposal of hazardous wastes in accordance with the Hazardous and Other Wastes (Management, Handling and Transboundary) Rules, 2016 wherever applicable.
  - xxii. A separate environment management cell to be set up to carry out the environment management & monitoring functions.
  - xxiii. The project authorities will provide adequate funds both recurring and non-recurring to implement the conditions stipulated by the SEIAA, State Government along with the implementation schedule for all the conditions stipulated herein.
  - xxiv. The implementation of the project vis-à-vis environmental action plans will be monitored by Ministry's regional office, State Pollution Control Board and Central Pollution Control board. A six-monthly compliance status report should be submitted to the monitoring Agencies.



**Miscellaneous:**

- i. No further expansion or modifications in the plant, other than mentioned in the EIA Notification, 2006 and its amendment, shall be carried out without prior approval of the Ministry of Environment. Forest and Climate change/ SEIAA, as applicable. In case of deviations or alterations in the project proposal from those submitted to this Ministry for clearance, a fresh reference shall be made to the Ministry/SEIAA, as applicable, to assess the adequacy of conditions imposed and to add additional environmental protection measures required, if any.
- ii. The energy source for lighting purpose shall be preferably LED based, or advanced having preference in energy conservation and environment betterment.
- iii. The overall noise levels in and around the plant area shall be kept well within the standards by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise levels shall confirm to the standards prescribed under the Environment (Protection) Act, 1986 Rules, 1989 viz. 75 dBA (day time) and 70 dBA (night time).
- iv. The company shall undertake all relevant measures for improving the socio-economic conditions of the surrounding area. CER activities shall be undertaken by involving local villages and administration and shall be implemented. The company shall undertake eco-developmental measures including community welfare measures in the near coastal area villages for the overall improvement of the environment.
- v. The environmental statement for each financial year ending 31<sup>st</sup> March in Form-5 as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of environmental clearance conditions and shall also be sent to the respective Regional Offices.
- vi. The project proponent shall inform the public that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with the SPCB/Committee and may also be seen at Website of the Ministry and at <https://parivesh.nic.in/>. This shall be advertised within seven days from the date of issue of the clearance letter, at least in two local newspapers that are widely circulated in the region of which one shall be in the vernacular language of the locality concerned and a copy of the same shall be forwarded to the concerned Regional Office of the Ministry.
- vii. The project authorities shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities and the date of start of the project.
- viii. This environmental clearance is granted without any prejudice to final outcome of Hon'ble Supreme Court of India. Hon'ble High court, Hon'ble NGT and any other Court of Law, if any, as may be applicable to this project.
- xxv. 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.
- xxvi. 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.
- xxvii. The project proponent shall monitor the criteria pollutants level namely: PM<sub>10</sub>, SO<sub>2</sub>, NO<sub>x</sub> (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.
- xxviii. The Ministry/SEIAA may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.
- xxix. The Ministry/SEIAA reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.
- xxx. The above conditions will 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, the Hazardous Waste (Management, Handling and Transboundary Movement) Rules, 2016 and the public liability Insurance Act, 1991 read with subsequent amendments 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.
- xxxi. 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
- xxxii. 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/2022-23/2842/2022/ 122

Ranchi, Date : 08/06/2023

Copy to:

1. Additional Chief Secretary, Department of Forests, Environment & Climate Change, Govt. of Jharkhand.
2. Deputy Commissioner, District- Dhanbad, Jharkhand.
3. Divisional Forest Officer, Dhanbad Forest Division, Dhanbad, Jharkhand.
4. Divisional Forest Officer, Wildlife Division, Hazaribagh, Jharkhand.
5. Director IA Division, Monitoring Cell, MoEF and Climate Change, Indira Paryavaran Bhavan, Jorbag Road, Aliganj, New Delhi – 110003.
6. Integrated Regional Office, Ranchi, Ministry of Environment, Forest and Climate Change, 2<sup>nd</sup> Floor, Jharkhand State Housing Board (HQ), Harmu Chowk, Ranchi, Jharkhand – 834002.

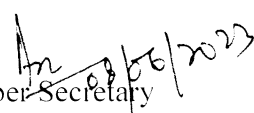








7. Member Secretary, Jharkhand State Pollution Control Board, Ranchi.
8. Secretary, Jharkhand State Expert Appraisal Committee, Ranchi.
9. Website.
10. Guard file.

  
Member Secretary  
State Level Environment Impact  
Assessment Authority, Jharkhand.  
