



भारत कोकिंग कोल लिमिटेड
(कोल इण्डिया लिमिटेड की एक अनुबन्धी कंपनी)
Bharat Coking Coal Limited
(A Subsidiary of Coal India Limited)
(एक विनोदक कंपनी / A Miniratna Company)
(भारत सरकार का उपाय / A Government of India Undertaking)

महाप्रबंधक का कार्यालय
पश्चिमी झरिया क्षेत्र
पो: मुनिडीह, जिला: धनबाद (झारखंड) - 826129
फोन नं: 0326-2273445; ई-मेल: gmwj.bocl@coalindia.in

Office of the General Manager
WESTERN JHARIA AREA

PO: MOONIDIH, DIST: DHANBAD (JHARKHAND) - 826129
PH: 0326-2273445; E-Mail: gmwj.bocl@coalindia.in

"For uploading online on parivesh portal of MoEF&CC and send by e-mail"

Ref: BCCL/WJA/ENV/2024/186

Date: 01/06/2024

To,
The Regional Director,
Ministry of Environment & Forest and Climate Change
Regional Office (ECZ), Bunglow No. A-2,
Shyamali Colony, Ranchi-834002.

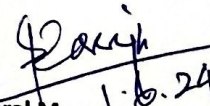
Sub-Submission of six monthly report on compliance of Environment Clearance for period from Oct-2023 to March 2024 with respect to Exploration activity in Jharia CBM Block-I of M/s Bharat Coking Coal Limited.

Ref: EC order No- EC/SEIAA/2022-2023/2842/2022, Dated-19/06/2023.

Respected sir,
Please find enclosed herewith the six -monthly report on compliance of Environment Clearance for period from Oct-2023 to March 2024 with respect to Exploration activity in Jharia CBM Block-I of M/s Bharat Coking Coal Limited. We hope you will find in order.

Thanking you.
Encl-As above.

Yours faithfully,


1.6.24
General Manager
Western Jharia Area
Bharat Coking Coal Limited

EC Compliance Report - Exploration Activity in Jharia CBM Block-I of BHARAT COKING COAL LIMITED at Village: Dhandabar, Parsia, Karitand, Bardhubhi, Jatudih, Debagram, Tehsil: Dhanbad Located in Dhanbad District of Jharkhand State		
Name of the Project: Jharia CBM Block-I		
Environmental Clearance Letter : EC/SEIAA/2022-2023/2842/2022 Dated 19th June 2023 from SEIAA		
Period of Compliance Report: Six monthly compliance report for the Jharia CBM Block-I for the period from Oct'2023 to Mar'2024.		
SNo.	Conditions/ Guide lines	Status of Compliance
Specific Conditions		
1	This Environment 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. c) Complied with the decisions of SEIAA on the issue of Environmental Clearance till date.	a) Legal rights to operate is obtained from CO Putki (Dhanbad), CO Baghmara (Dhanbad), DFO Wild Life (Hazaribagh), DFO Forest Distance (Dhanbad) and CTE & CTO has been granted from the JSPCB. b) LOI/Lease document is under BCCL mining leasehold area under CBA Act 1957 and CMN Act 1972.
2	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.	Ground Water is being regularly monitored by NABL accredited laboratory to ensure that the produced water storage or disposal has no effect on it. Shall be complied as operation starts.
3	Methane form explosive mixture in combination with air. Management plan for same has to be implemented so that the explosive mixture is not formed.	Shall be complied as operation starts.
4	The proposal shall not attract the following Acts and 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.	Shall be complied as applicable
5	The project proponent shall comply with the Bio-medical Waste Management Rules, 2016 and its amendments.	Shall be complied as applicable
6	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 six-monthly compliance report. (in case of the presence of schedule-I species in the study area)	Shall be complied as applicable
7	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"	Shall be complied as applicable
Air & Noise Environment:		
1	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.	Shall be Complied.
2	Strict measures shall be taken to control odour with appropriate odour abatement methods.	Shall be adhered.
3	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.	Shall be followed as suggested.
4	Fugitive emissions from storage tanks shall be avoided by providing air condensers.	Shall be done.
5	The Proponent should provide appropriate PPE to the persons working in the unit and suitable to their work place environment.	Appropriate PPE's is provided by proponent as per the OISD 155 with suitable to their work place environment.
6	The proponent shall establish adequate number of air monitoring stations, including one online station in consultation with JSPCB and take appropriate measures to ensure that the GLC shall comply with the NAAQM norms notified by MoEF&CC, Govt on 16.11.2009.	The locations of ambient air quality monitoring stations shall be made/decided in consultation with JSPCB. It shall be ensured that at least one station is installed where maximum ground level concentrations are anticipated.
7	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.	Shall be done.
8	The industry shall comply with MoEF&CC Guidelines for Disposal of Drilling Cuttings and Drilling Fluid for Offshore Installation notified as per GSR 546 (E) dated 30th August 2005.	- CBM drill cuttings do not carry any oil traces and they are non-hazardous. Infact, No hazardous chemical is used in drilling operation. - The drill cuttings are inert material and are being used for construction activities like back filling of low lying areas, construction of well pads, road filling etc. - The drilling fluid after solid-liquid separation is recycled or evaporated in HDPE lined pits.
9	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 environment clearance for development and production.	As suggested, Fresh EC will be obtained for Development and Production.
10	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.	Shall be complied as operation starts.
11	The company shall comply with all the environmental protection measures and risk mitigation measures relating to the project shall be implemented.	Shall be complied as operation starts.
12	No pipelines or its part shall be laid in the forest land/protected Area without prior permission/approval from the competent Authority.	Shall be complied as operation starts.
13	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.	All the required system for proper handling of waste water and protecting the nearby other water sources have been taken in account and project activities shall be done accordingly

14	During production, storage and handling the fugitive emission of methane if any shall be monitored using Infra-red camera/appropriate technology.	Shall be followed.
15	The project proponent also to ensure trapping/storing of the CO2 generated, if any during the process and handling.	Insignificant amount of CO2 is generated from engine exhaust.
16	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.	- All DG/GG sets have proper acoustic enclosures and meet the norms notified by MOEFCC. - Height of all the stacks/vents is kept as per the CPCB guidelines.
17	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 discharge/disposed off into sea. The company shall comply with guidelines for disposal of solid waste: drill cutting and drilling fluids for onshore drilling operation notified vide GSR.546(E) dated 30th August 2005.	Shall be done as suggested. During exploratory drilling activities, drilling wastewater including drilling cutting wash was collected in HDPE lined disposal pit at site for evaporation and was complied with notified standards for onshore disposal. Water based drilling fluid used for exploratory drilling is non hazardous. Proponent disposes solid, water, drill cutting and drilling fluid as per notified guidelines (GSR.546(E) dated 30th August, 2005)
18	Oil spillage prevention and mitigation 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.	Shall be complied as operation start.
19	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 flare 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.	- Fire fighting equipments are provided in Jharia CBM Block as per the provision of OISD-189 and OMR 2017. - Soil remediation is not required as there is no oil spillages associated with CBM gas extraction. - For now Flare is not present in current Operational Phase. There is no flaring of gas /ground flaring.
20	The project proponent shall develop a contingency plan for H2S released including all necessary aspects from evacuation to resumption of normal operations. The workers shall be provided with personal H2S detectors in locations of high risk of exposure along with self-containing breathing apparatus.	CBM gas is free from H2S gas and there is absolutely no chance of H2S emission while performing operations.
21	Blow out preventer system shall be installed to prevent well blowout during drilling operations.	Blow Out Preventer (BOP) is always installed while performing drilling operations to control kicks and to prevent Well Blow Out as per OMR-2017 and OISD-174.
22	On completion of the project necessary measure 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 via a full abandonment plan shall be implemented for the drilling site in accordance with the applicable DGH/Indian Petroleum Regulations	Shall be complied as operation starts.
23	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 villages'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.	5% of the total cost of the project shall be spent on CSR activities over the life of the project. - CSR plans shall be followed as suggested - CSR activities was undertaken by involving local villages and administration.
24	No lead acid batteries shall be utilized in the project/site.	Lead acid batteries are not used in the project site.
25	Occupational health surveillance of the workers & employees 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.	- Occupational health surveillance of the workers in Jharia CBM Block- I is being carried out periodically as per prevailing Acts and Rules. - Shall be followed as suggested
26	Oil content in the drill cuttings shall be monitored and report & shall send to the Ministry's Regional Office.	Shall be done as suggested
27	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 environment 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 environment monitoring of the site should be done.	Shall be followed as suggested
Specific Conditions :- Waste Water Generation		
1	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 incase of any eventuality.	Entire waste water during the operations shall be handled as per the norms and no such water shall be discharge in the other water resources.
2	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)	Shall be Complied.
Specific Conditions :- Hazardous/Solid Wastes		
1	Hazardous waste generation during the Rigs operations such as organic residue, waste oil, used oils etc. shall be disposed as per the Hazardous and other wastes (Management and Transboundary movement) Rules, 2016 and its amendments thereof	Shall be Complied.

32

2	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 locations as per stipulated norms. • General wastes, scrap metal and wood shall be segregated and brought back to the shore for appropriate disposal. • All plastics/ 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 GSR546(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). • Non-biodegradable waste shall be transported 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 discharging into the sea.	Shall be Complied.
3	The proponent should strictly comply with E-waste Management Rules, 2016 and report compliance.	Shall be followed as suggested
Specific Conditions :- Environment		
1	The Project Proponent shall ensure that the transportation activity of the unit should not cause any inconvenience to the public and comply with local norms, if any:	Shall be followed as suggested
EC COMPLIANCES - Jharia CBM Block-I		
		Page - 4
SNo.	Conditions/ Guide lines	Status of Compliance
General Conditions		
1	The project proponent shall submit the copies of the Environment Clearance to the Heads of local bodies. Panchayats and Municipal Bodies in addition to the relevant offices of the Government who in turns has to display the same 30 days from the date of receipt.	Complied. A copy of the Environmental clearance (EC) has been circulated to the local administration.
2	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 environment clearance and a copy of the clearance letter is available with the State Pollution Control Board and SEIAA, Jharkhand.	Complied.
3	The Prior Environment Clearance issued to this project along with the approved Environment Management Plan (EMP) and the Approved DPR should be uploaded in the project's web site and be made available in the public domain.	Complied.
4	The PEC main contents be displayed on permanent boards at the main entry of the permises and at other prominent places.	Shall be Complied.
5	The project proponent shall strictly adhere to its Environment Policy approved by the SEIAA and shall be made available in the public domain.	Shall be Complied.
6	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 amount allocated should not be delivered for any other purpose.	Complied.
7	The fund earmarked for environment protection measures should be kept in separate account and should not be delivered for the other purpose. Year wise expenditure should be reported to the ministry and its Regional Office located at Ranchi.	Complied.
8	The proponent before starting the operations shall obtain all other mandatory clearances from respective departments including the CTE and CTO from the JSPCB.	Complied.
9	The project proponent shall meticulously follow the Form 1/2 of the application and approved EMP for the purpose of all compliances.	Shall be Complied.
10	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 State Pollution Control Board.	The locations of ambient air quality monitoring stations shall be made/decided in consultation with JSPCB.
11	Occupational health check up program for the workers should be undertaken periodically. A separate environment 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.	Occupational health surveillance of the workers in Jharia CBM Block- I is being carried out periodically as per prevailing Acts and Rules.
12	The project proponent shall submit Half-Yearly reports on the status of compliance of the stipulated Environment Clearance Conditions including results of mentioned 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.	Six Monthly Compliances of Environmental clearance is being submitted 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.

13	The proponent shall upload the status of the compliance of the environmental clearance conditions including results of monitored data on their websites and shall update the same periodically.	Shall be Complied.
14	Officials from the Regional Office of MoEF&CC, Ranchi/ The SEIAA, Jharkhand through the Regional Offices of Jharkhand State Pollution Board who would be monitoring the implementation of environment 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.	Shall be Complied.
15	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.	All the required precautions for CBM Operations shall be taken care of moreover the entire furnished information are correct in its nature and shall be followed completely
16	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.	All the efforts shall be made to comply the statutory guidelines on the subject.
17	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.	Agreed
18	Any appeal against this Environment 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.	Agreed
19	The Project authority must strictly adhere to the stipulations made by the Central Government as part of the international conventions and Merchant Shipping Act.	Mainly this point is not applicable to your industry, However any specific guidelines shall be adhered.
20	The project authorities must strictly comply with the rules and regulations under Manufacture, Storage and Import of Hazardous Chemicals Rules, 1989 as amended on 3rd October 1994. Prior approvals from OISD, PESO etc should be obtained wherever applicable.	Shall be Complied, once the related operational activities start
21	The project authorities must comply with the rules and regulations with regard to handling and disposal of hazardous wastes in accordance with Hazardous and Other Wastes (Management, Handling and Transboundary) Rules 2016 wherever applicable.	Shall be Complied, once the related operational activities start
22	A separate environment management cell to be set up carry out the environment management & monitoring functions.	A separate Environment Management Cell has been set up to carry out the EMP and Monitoring functions
23	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.	Adequate funds shall be made available from the planned annual budget and no funds shall be diverted for the other purpose.
24	The implementation of the project vis-a-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.	Shall be Complied.



Project Head
Jharia CBM Block-I
Prabha Energy Pvt. Ltd