



स्वास्थ्य , सुरक्षा ऐवम पर्यावरण विभाग
सी बी एम परिसंपत्ति बोकारो
पहली मंजल, एचएससीएल बिल्डिंग, नयामोर के पास, बोकारो स्टील सिटी,
झारखंड- 827001.

Health Safety & Environment Department
CBM Asset Bokaro
1st Floor, HSCL Building, Near Nayamore, Bokaro Steel City,
Jharkhand-827001

No. BKRO/CBM/HSE/EC 03

Date: 02.06.2025

Sub: Regarding 6 Monthly Compliance of ONGC Bokaro CBM Block

On behalf of CBM Asset ONGC, we would like to submit the 6 monthly compliance for Bokaro Block (BK-CBM-2001/1) with reference to Environmental Clearance, F. No. J-11011/430/2011-IA II (I) dated 28.03.2016

The 6 Monthly compliance is hereby submitted on online portal of PARIVESH for the period of Oct. 2024 to March 2025.

Vijayendra Singh
Vijayendra Singh
CGM (P) - Head HSE,
CBM Asset, ONGC Bokaro

ONGC-CBM Asset, Bokaro has obtained Environment Clearance (EC) for CBM Block of Bokaro vide EC: F. No. J-11011/430/2011-IA II (I) dated 28.03.2016 (Copy is attached as **ANNEXURE 1**).

The general condition no. 12 of EC states that project proponent has to submit the six monthly compliance report to the Regional Office of MoEF&CC.

In view of the above EC conditions and their compliances are detailed as follows:

Specific Conditions		
S. No.	Conditions	Compliance status for period 01.10.2024 to 31.03.2025
1.	As proposed, no forest land shall be used for the proposed facilities activities.	There is no forest land used for ongoing project activities. However, prior forest clearance will be taken if any activity/well site comes under forest land.
2.	Compensation for the land acquisition to the land oustees, if any, and also for standing crop shall be paid as per the National Resettlement and Rehabilitation Policy (NRRP) 2007 or State Government norms. It may be ensured that compensation provided shall not be less than the norms of the NRRP, 2007.	All lands are acquired at places where human settlement is not there. Therefore, resettlement and Rehabilitation is not applicable.
3.	The surface facilities shall be installed as per the applicable codes and standards, international practices and applicable local regulations.	All OISD & DGMS guidelines and other applicable standards are followed for establishment of surface facilities.
4.	Ambient air quality shall be monitored near the closest human settlements as per the National Ambient Air Quality Standards (NAAQS) issued by the Ministry vide G.S.R. No. 826(E) dated 16 th November, 2009 for PM ₁₀ , PM _{2.5} , SO ₂ , NO _x , CO, CH ₄ , VOCs, HC, Non-methane HC etc. Efforts shall be made to improve the ambient air quality of the area.	AAQ is monitored as per the said condition. Latest Reports enclosed as Annexure-2
5.	Mercury shall also be analyzed in air, water and drill cuttings twice during drilling period.	Latest report for drill cutting has been enclosed in Annexure-3 , furthermore latest Produced Water analysis report has been enclosed in Annexure 4 .
6.	The flare system shall be designed as per good oil field practices and Oil Industry Safety Directorate (OISD) guidelines. The company shall take necessary measures to prevent fire hazards and soil remediation as needed. At the place of ground flaring, the	Flaring System is in conformity to Statutory guidelines viz., OISD and CPCB.

	flare pit shall be lined with refractory bricks and efficient burning system. In case of overhead flare stacks, the stack height shall be provided as per the regulatory requirements and emissions from stacks shall meet the MoEF&CC /CPCB guidelines.	
7.	The company shall make the arrangement for control of noise from the drilling activity and DG sets by providing necessary mitigation measures such as proper acoustic enclosures to DG sets and meet the norms notified by the MoEF&CC. Height of all the stacks/vents shall be as per the CPCB guidelines.	Rig engine and DG sets are provided with acoustic enclosures and hence the noise limits are maintained under the stipulated level. Latest report of Noise monitoring is enclosed as Annexure-5. All stacks are conforming to CPCB standards and have sufficient stack height as per the CPCB guidelines.
8.	The company shall comply with the guidelines for disposal of solid waste, drill cutting and drilling fluids for onshore drilling operation notified vide GSR. 546(E) dated 30 th August, 2005.	The notification G.S.R.546 (E) is followed for "Onshore Drilling Operations". Only WBM (water based mud) is used in drilling of CBM wells. The chemicals used in mud preparation is basically consist of XC-polymer, Poly-amine and NIFA, which are non-toxic in nature. Drill cuttings (DC) are separated from drilling fluid (DF). DF is stored in waste pit lined with HDPE liner.
9.	During well drilling, wastewater shall be segregated into waste drilling fluid and drill cuttings. Drill cutting shall be stored onsite impervious HDPE lined pit for solar evaporation and drying. Effluent shall be properly treated and treated effluent shall conform to CPCB standards. The produced water shall be stored onsite HDPE lined pit for solar evaporation and reuse in drilling of new wells and fire hydrant system. Domestic effluent shall be disposed off through septic tank followed by soak pit.	Drilling operations are in compliance with notification G.S.R.546 (E). Latest report for drill cutting has been enclosed in Annexure-3
10.	Water produced during drilling shall be reused in drilling of other core/test wells.	Produced water is treated in mobile ETP and is reused in the drilling activity. Produced Water Analysis report has been enclosed in Annexure-4.

11.	Ground water quality monitoring shall be done to assess if produced water storage or disposal has any effect.	Ground water monitoring report is enclosed as Annexure-6 .
12.	Drilling wastewater including drill cuttings, wash water shall be collected in disposal pit lined with HDPE lining, evaporated or treated and shall comply with the notified standards for on-shore disposal on land. Proper toxicological analysis shall be done to ensure there is no hazardous material, Copy of toxicological analysis shall be submitted to Ministry's Regional Office at Bangalore.	Drilling operations are in compliance with notification G.S.R.546 (E). Latest report for drill cutting has been enclosed in Annexure-3
13.	Only water based drilling mud shall be used. The drilling mud shall be recycled, Hazardous waste shall be disposed of as per Hazardous Waste (Management, Handling and Transboundary Movement) Rules, 2008. The recyclable waste (oily sludge) and spent oil shall be disposed of to the authorized recyclers/re-processors.	Only water based mud (WBM) is used in CBM drilling operations.
14.	The Company shall take necessary measures to prevent fire hazards, containing oil spill and soil remediation as needed. At place of ground flaring, the overhead flaring stack With knockout drums shall be installed to minimize gaseous emissions during operation.	ONGC CBM Asset, Bokaro has fire department with competent fire personnel. Firefighting equipment are installed at drilling and other potential places of concern. Flare system has knockout drum and is designed as per API standards. CBM Asset is producing only gas and no oil.
15.	To prevent underground coal fire, preventive measures shall be taken for ingress of ambient air during withdrawal inside the coal seams by adopting technologies including vacuum suction. Gas detectors for the detection of CH ₄ and H ₂ S shall be provided.	CBM extraction technology does not pose any underground coal fire threat. Portable CH ₄ gas detectors are available in installations and well sites. The gas analysis of CBM from wells shows H ₂ S below detectable limit (BDL). Latest Reports enclosed as Annexure-7 .
16.	The design, material of construction, assembly, inspection, testing and safety aspects of operation and maintenance of pipeline and transporting the natural gas/oil shall be governed by ASME/ANSI 8 31.8/831.4 and OISD standard 141. Pipeline wall thickness and minimum depth of burial at river crossing and casings at rails, major road crossings should be in	OISD standard 141 is not applicable to CBM Asset.

	conformity with ANSI/ASME requirements.	
17.	The company shall develop a contingency plan for H ₂ S release including all necessary aspects from evacuation to resumption of normal operations. The workers shall be provided with personal H ₂ S detectors in locations of high risk of exposure along with self-containing breathing apparatus.	The gas analysis of CBM from wells shows H ₂ S below detectible limit (BDL). Latest Reports enclosed as Annexure-7 .
18.	Adequate well protection system shall be provided like Blow Out Preventer (BOP) or diverter systems as required based on the geological formation of the blocks.	CBM wells are considerably low pressure wells in comparison to conventional natural gas wells. However, BOP is used as safety measure during drilling and work over operations.
19.	The top soil removed shall be stacked separately for reuse during restoration process.	Being complied.
20.	Emergency Response Plan shall be based on the guidelines prepared by OISD, DGMS and Govt. of India. Recommendations mentioned in the Risk Assessment & Consequence Analysis and Disaster Management Plan shall be strictly followed.	ERP is prepared as per the laid guidelines of safety statutory authorities.
21.	Project proponent shall comply with the environment protection measures and safeguards recommended in the EIA/EMP/risk analysis report/disaster management plan.	EMP is being complied at every stage of project.
22.	The company shall take measures after completion of drilling process by well plugging and secured enclosures, decommissioning of rig upon abandonment of the well and drilling site shall be restored in original condition. In the event that no economic quantity of hydrocarbon is found a full abandonment plan shall be implemented for the drilling site in accordance with the applicable Indian Petroleum Regulations.	All relevant measures will be taken care upon abandonment of drill site at later phase upon completion of life cycle of the project. Standard operating procedure is being followed for restoration process.
23.	Occupational health surveillance of the workers shall be carried out as per the prevailing Acts and Rules.	PME of workers is done as per the periodicity/guidelines.
24.	Company shall adopt Corporate Environment Policy as per the Ministry's	ONGC has formulated its Corporate Environment Policy as per said

	O.M. No. J-11013/41/2006-IAII (I) dated 26 th April, 2011 and implemented.	MoEF&CC O.M. which is being implemented.
25.	Provision shall be made for the housing of construction labor within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, Safe drinking water, medical health care, crèche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.	All construction workers are local residents of the operational area. Shelters/bunk houses are available for workers. Potable drinking water and emergency vehicle is available at every site.
26.	Company shall prepare operating manual in respect of all activities. It shall cover all safety & environment related issues and system. 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 shall be available at the project site office. Remote monitoring of site should be done.	Manuals & standard operating procedures are available at each installation. Awareness programs are conducted to strictly comply with manuals and SOPs
27.	On completion of drilling, the company has to plug the drilled wells safely and obtain certificate from environment safety angle from the concerned authority.	Bokaro Block of CBM Asset has not abandoned any wells as of now and required certificate will be obtained upon abandonment.

General Conditions

S. No.	Conditions	
1.	The project authorities must strictly adhere to the stipulations made by the Jharkhand State Pollution Control Board (JSPCB), State Government and any other statutory authority.	Noted for compliance.
2.	No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment and Forests. 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 to assess the adequacy of conditions imposed and to add additional environmental protection measures required, if any.	In case of any expansion or modification, CBM Asset will bring into notice of MoEF&CC.

3.	The locations of ambient air quality monitoring stations shall be decided in consultation with the State Pollution Control Board (SPCB) and it shall be ensured that at least one stations is installed in the upwind and downwind direction as well as where maximum ground level concentrations are anticipated.	AAQ monitoring is done on half yearly basis through NABL Accredited and certified consultant. Latest report is enclosed as Annexure-2 .
4.	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 conform to the standards prescribed under Environment (Protection) Act, 1986 Rules, 1989 viz. 75 dBA (day time) and 70 dBA (night time).	Rig engine and DG sets are provided with acoustic enclosures and hence the noise limits are maintained under the stipulated level. Latest report of Noise monitoring is enclosed as Annexure-5 .
5.	Training shall be imparted to all employees on safety and health aspects of chemicals handling. Pre-employment and routine periodical medical examinations (PME) for all employees shall be undertaken on regular basis. Training to all employees on handling of chemicals shall be imparted.	MVT is imparted to all workers working at CBM installation. PME is done annually as per the guidelines.
6.	The company shall also comply with all the environmental protection measures and safeguards proposed in the documents submitted to the Ministry. All the recommendations made in the EIA/EMP in respect of environmental management, risk mitigation measures and public hearing relating to the project shall be implemented.	Stipulated environmental protection measures during project establishment phase are being complied.
7.	The company shall undertake all relevant measures for improving the socio-economic conditions of the surrounding area. CSR activities shall be undertaken by involving local villages and administration.	CSR activities are implemented in the operational areas of ONGC. Brief details of the activities carried under CSR for the FY 24-25 is enclosed as Annexure-8 .
8.	The company shall undertake eco-developmental measures including community welfare measures in the project area for the overall improvement of the environment.	Under CSR activities of ONGC, various eco-development activities are being taken up.

9.	A separate Environmental Management Cell equipped with full-fledged laboratory facilities shall be set up to carry out the Environmental Management and Monitoring functions.	Environment management Cell exists with qualified Environment engineers posted. However Environment monitoring i.e. Ambient Air Monitoring, Stack emission monitoring, ground water monitoring, noise monitoring etc. is being carried out through NABL Accredited Laboratory.
10.	The company shall earmark sufficient funds towards capital cost and recurring cost per annum to implement the conditions stipulated by the Ministry of Environment and Forests as well as the State Government along with the implementation schedule for all the conditions stipulated herein. The funds so earmarked for environment management/pollution control measures shall not be diverted for any other purpose.	Sufficient funds have been earmarked as mentioned in EMP The funds so earmarked for environment management/pollution control measures are not diverted for any other purpose.
11.	A copy of the clearance letter shall be sent by the project proponent to concerned Panchayat, Zila Parishad/ Municipal Corporation, Urban local Body and the local NGO, if any, from whom suggestions/ representations, if any, were received while processing the proposal.	EC was advertised both in English and in Hindi language in Times Nation and in Arth Jagaran respectively of the concerned region on 06 th May 2016. Copy of newspaper cutting is enclosed as Annexure-9 .
12.	The project proponent shall also submit six monthly 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 respective Regional Office of MoEF&CC, the respective Zonal Office of CPCB and JSPCB. A copy of Environmental Clearance and six monthly compliance status report shall be posted on the website of the company.	Six monthly 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) is submitted for the period October 2024 to March 2024 to Regional Office MoEF&CC Ranchi. Same shall be displayed on the company's website.
13.	The environmental statement for each financial year ending 31st March in Form-V as is mandated shall be submitted to the concerned State Pollution Control Board 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	Environment statement (Form V) for FY 2023-2024 has been submitted to RO of MoEF&CC Ranchi via mail on dated 06.09.2024. Form V is enclosed as Annexure-10 .

	to the respective Regional Offices of MoEF&CC by e-mail.	
14.	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 at http://envfor.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.	EC was advertised both in English and in Hindi language in Times Nation and in Arth Jagaran respectively of the concerned region on 06 th May 2016. Copy of newspaper cutting is enclosed as Annexure-9 .
15.	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.	Being complied.

Submitted for approval please

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विजयेंद्र सिंह/VIJAYENDRA SINGH
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ONGC, CBM Asset, Bokaro

ओएनजीसी-सीबीएम परिसंपत्ति, बोकारो ने बोकारो के सीबीएम ब्लॉक के लिए पर्यावरण मंजूरी (ईसी) प्राप्त की है: एफ. सं. जे-11011/430/2011-आईए II (i) दिनांक 28.03.2016 (प्रतिलिपि अनुलग्नक 1 के रूप में संलग्न है)। ईसी की सामान्य शर्त सं 12 में कहा गया है कि परियोजना प्रस्तावक को छह मासिक अनुपालन रिपोर्ट पर्यावरण, वन और जलवायु परिवर्तन मंत्रालय के क्षेत्रीय कार्यालय को प्रस्तुत करनी होगी। अंतिम छः मासिक विवरणी दिनांक 20.12.2024 को प्रस्तुत की गई। हाल ही में, भारत सरकार के पर्यावरण, वन और जलवायु परिवर्तन मंत्रालय (एमओईएफ और सीसी) ने पर्यावरण मंजूरी के खिलाफ अनुपालन दर्ज करने और निगरानी करने के लिए परिवेश 2.0 नामक एक नया ऑनलाइन वेब आधारित, रोल आधारित वर्कफ्लो एप्लिकेशन लॉन्च किया है।

इस पोर्टल के लिए परियोजना प्रस्तावक को डिजिटल रूप में छह मासिक रिटर्न दाखिल करने की आवश्यकता होती है।

कॉर्पोरेट एचएसई-ओएनजी, दिल्ली के संदर्भ में: सीएचएसई/ईएनवी/ईसी-अनुपालन/2021-22/1 दिनांक 06.08.2021 ने सभी परिसंपत्तियों, बेसिनों और संयंत्रों के प्रमुख एचएसई को मुख्य कार्यकारी से अनुमोदन प्राप्त करने के बाद ही छह मासिक अनुपालन दर्ज करने का निर्देश दिया है (प्रति अनुलग्नक 2 के रूप में संलग्न है)।

उपरोक्त ईसी शर्तों को ध्यान में रखते हुए और उनके अनुपालन का विवरण निम्नानुसार है:

विशिष्ट शर्तें		
क्र.सं.	अनुपालन	01.10.2024 से 31.03.2025 की अवधि के लिए शर्तें अनुपालन की स्थिति
1.	प्रस्तावित सुविधाओं की गतिविधियों के लिए किसी भी वन भूमि का उपयोग नहीं किया जाएगा।	चल रही परियोजना गतिविधियों के लिए कोई वन भूमि का उपयोग नहीं किया जाता है। हालांकि, यदि कोई गतिविधि/कुआं स्थल वन भूमि के अंतर्गत आता है तो पूर्व वन मंजूरी ली जाएगी।
2.	भूमि विस्थापितों को भूमि अधिग्रहण के लिए मुआवजा, यदि कोई हो, और खड़ी फसल के लिए भी राष्ट्रीय पुनर्वास और पुनर्वास नीति (एनआरआरपी) 2007 या राज्य सरकार के मानदंडों के अनुसार भुगतान किया जाएगा। यह सुनिश्चित किया जाए कि प्रदान किया गया मुआवजा एनआरआरपी, 2007 के मानदंडों से कम नहीं होगा।	सभी भूमि उन स्थानों पर अधिग्रहित की जाती है जहां मानव बस्ती नहीं है। इसलिए, रीसेटलमन्ट और रिहैबिलिटेशन लागू नहीं है।
3.	सतह सुविधाएं लागू कोड और मानकों, अंतर्राष्ट्रीय प्रथाओं और लागू स्थानीय नियमों के अनुसार स्थापित की जाएंगी।	सतह सुविधाओं की स्थापना के लिए सभी ओआईएसडी और डीजीएमएस दिशानिर्देशों और अन्य लागू मानकों का पालन किया जाता है।

4.	मंत्रालय द्वारा जीएसआर के माध्यम से जारी राष्ट्रीय परिवेश वायु गुणवत्ता मानकों (एनएएक्यू) के अनुसार निकटतम मानव बस्तियों के पास परिवेशी वायु गुणवत्ता की निगरानी की जाएगी। नहीं 826 (ई) दिनांक 16 नवंबर, 2009 PM10, PM2.5, SO2, NOX, CO, CH4, VOCs, HC, गैर-मीथेन HC आदि के लिए। क्षेत्र की परिवेशी वायु गुणवत्ता में सुधार के प्रयास किए जाएंगे।	उक्त शर्त के अनुसार एएक्यू की निगरानी की जाती है। नवीनतम रिपोर्ट अनुबंध-12 के रूप में संलग्न हैं।
5.	ड्रिलिंग अवधि के दौरान दो बार वायु, जल और ड्रिल कटिंग में पारे का विश्लेषण भी किया जाएगा।	ड्रिल कटिंग के लिए नवीनतम रिपोर्ट अनुबंध-13 में संलग्न की गई है, इसके अलावा नवीनतम उत्पादित जल विश्लेषण रिपोर्ट अनुबंध-14 में संलग्न की गई है।
6.	फ्लैयर सिस्टम को अच्छी तेल क्षेत्र प्रथाओं और तेल उद्योग सुरक्षा निदेशालय (ओआईएसडी) दिशानिर्देशों के अनुसार डिज़ाइन किया जाएगा। कंपनी आवश्यकतानुसार आग के खतरों और मिट्टी के उपचार को रोकने के लिए आवश्यक उपाय करेगी। ग्राउंड फ्लोरिंग के स्थान पर, फ्लैयर पिट को रिफ्रेक्टरी ईंट और कुशल बर्निंग सिस्टम के साथ लाइन किया जाएगा। ओवरहेड फ्लैयर स्टैक के मामले में, स्टैक ऊंचाई नियामक आवश्यकताओं के अनुसार प्रदान की जाएगी और स्टैक से उत्सर्जन एमओईएफ एंड सीसी / सीपीसीबी दिशानिर्देशों को पूरा करेगा।	फ्लैरिंग प्रणाली वैधानिक दिशानिर्देशों के अनुरूप है, जैसे कि ओआईएसडी और सीपीसीबी।
7.	कंपनी डीजी सेटों को उचित ध्वनिक संलग्नक जैसे आवश्यक शमन उपाय प्रदान करके और पर्यावरण, वन और जलवायु परिवर्तन मंत्रालय द्वारा अधिसूचित मानदंडों को पूरा करके ड्रिलिंग गतिविधि और डीजी सेट से शोर के नियंत्रण की व्यवस्था करेगी। सभी स्टैक/वेंट की ऊंचाई सीपीसीबी दिशानिर्देशों के अनुसार होगी। सभी स्टैक सीपीसीबी मानकों के अनुरूप हैं और सीपीसीबी दिशानिर्देशों के अनुसार पर्याप्त स्टैक ऊंचाई है।	रिग इंजन और डीजी सेट को ध्वनिक संलग्नक प्रदान किए जाते हैं और इसलिए शोर की सीमा निर्धारित स्तर के तहत बनाए रखी जाती है। शोर निगरानी की नवीनतम रिपोर्ट अनुबंध-15 के रूप में संलग्न है। सभी स्टैक सीपीसीबी मानकों के अनुरूप हैं और सीपीसीबी दिशानिर्देशों के अनुसार स्टैक की पर्याप्त ऊंचाई है।
8.	कंपनी जीएसआर के तहत अधिसूचित ऑनशोर ड्रिलिंग ऑपरेशन के लिए ठोस अपशिष्ट, ड्रिल कटिंग और ड्रिलिंग तरल पदार्थ के निपटान के लिए दिशानिर्देशों का पालन करेगी। 546(E) dated 30th August, 2005. "अधिसूचना जी.एस.आर.546 (ई) का पालन "तटवर्ती ड्रिलिंग संचालन" के लिए किया जाता है।"	अधिसूचना जी.एस.आर.546 (ई) का पालन "ऑनशोर ड्रिलिंग ऑपरेशंस" के लिए किया जाता है। सीबीएम कुओं की ड्रिलिंग में केवल डब्ल्यूबीएम (जल आधारित कीचड़) का उपयोग किया जाता है। मिट्टी की तैयारी में उपयोग किए जाने वाले रसायनों में

		मूल रूप से एक्ससी-पॉलिमर, पॉली-अमाइन और निफा शामिल हैं, जो प्रकृति में गैर-विषाक्त हैं। ड्रिल कटिंग (डीसी) ड्रिलिंग तरल पदार्थ (डीएफ) से अलग होती है। डीएफ को एचडीपीई लाइनर के साथ लाइन किए गए अपशिष्ट गड्ढे में संग्रहीत किया जाता है।
9.	वेल ड्रिलिंग के दौरान, अपशिष्ट जल को अपशिष्ट ड्रिलिंग तरल पदार्थ और ड्रिल कटिंग में अलग किया जाएगा। ड्रिल कटिंग को सौर वाष्पीकरण और सुखाने के लिए साइट अभेद्य एचडीपीई लाइन पिट पर संग्रहीत किया जाएगा। अपशिष्ट ड्रिलिंग संचालन होगा जो अधिसूचना GSR546 (ई) के अनुपालन में हैं। उक्त अवधि में कोई ड्रिलिंग गतिविधि नहीं की गई है अर्थात् अक्टूबर 2023 से मार्च 2024 तक। उचित रूप से उपचारित और उपचारित बहिस्त्राव सीपीसीबी मानकों के अनुरूप होगा। उत्पादित पानी को सौर वाष्पीकरण के लिए ऑनसाइट एचडीपीई लाइन वाले गड्ढे को संग्रहीत किया जाएगा और नए कुओं और अग्नि जल प्रणाली की ड्रिलिंग में पुनः उपयोग किया जाएगा। घरेलू बहिस्त्राव को सेप्टिक टैंक के माध्यम से निपटाया जाएगा और उसके बाद सोक पिट किया जाएगा।	ड्रिलिंग कार्य अधिसूचना जी.एस.आर.546 (ई) के अनुपालन में हैं। ड्रिल कटिंग की नवीनतम रिपोर्ट अनुबंध-13 में संलग्न है।
10.	ड्रिलिंग के दौरान उत्पादित पानी का उपयोग अन्य कोर / टेस्ट वेल की ड्रिलिंग में किया जाएगा।	उत्पादित पानी को मोबाइल ईटीपी में उपचारित किया जाता है और ड्रिलिंग गतिविधि में पुनः उपयोग किया जाता है। उत्पादित जल विश्लेषण रिपोर्ट अनुबंध-14 में संलग्न है।
11.	यदि उत्पादित जल भंडारण या निपटान का कोई प्रभाव है तो इसका आकलन करने के लिए भूजल गुणवत्ता की निगरानी की जाएगी।	भूजल निगरानी रिपोर्ट अनुबंध-16 के रूप में संलग्न है।
12.	ड्रिल कटिंग, वॉश वॉटर सहित वेस्टवॉटर को एचडीपीई लाइनिंग, वाष्पित या उपचारित के साथ लाइन किए गए डिस्पोजल पिट में एकत्र किया जाएगा और भूमि पर ऑन-शोर निपटान के लिए अधिसूचित मानकों का पालन करेगा। यह सुनिश्चित करने के लिए उचित विषाक्त विश्लेषण किया जाएगा कि कोई खतरनाक सामग्री नहीं है, विषाक्त विश्लेषण की प्रति मंत्रालय के बंगलौर के क्षेत्रीय कार्यालय को प्रस्तुत की जाएगी।	ड्रिलिंग परिचालन अधिसूचना GSR546 (E) के अनुपालन में हैं। ड्रिल कटिंग की नवीनतम रिपोर्ट अनुबंध-13 में संलग्न है।

13.	केवल पानी आधारित ड्रिलिंग मिट्टी का उपयोग किया जाएगा। ड्रिलिंग मिट्टी का पुनर्चक्रण किया जाएगा, खतरनाक कचरे का निपटान खतरनाक कचरे (प्रबंधन, हैंडलिंग और सीमा पार संचलन) नियम, 2008 के अनुसार किया जाएगा। पुनर्चक्रण योग्य अपशिष्ट (तेल कीचड़) और खर्च किए गए तेल को अधिकृत पुनर्चक्रणकर्ताओं/पुनर्प्रोसेसरों को निपटाया जाएगा।	सीबीएम ड्रिलिंग कार्यों में केवल जल आधारित मिट्टी (डब्ल्यूबीएम) का उपयोग किया जाता है। खतरनाक अपशिष्ट प्राधिकरण के लिए आवेदन जेपीसीबी को प्रस्तुत किया गया है।
14.	कंपनी आवश्यकतानुसार आग के खतरों को रोकने के लिए आवश्यक उपाय करेगी, जिसमें तेल रिसाव और मिट्टी का उपचार शामिल है। ग्राउंड फ्लोरिंग के स्थान पर, ऑपरेशन के दौरान गैसीय उत्सर्जन को कम करने के लिए नॉकआउट ड्रम के साथ ओवरहेड फ्लारिंग स्टैंक स्थापित किया जाएगा।	ओएनजीसी सीबीएम परिसंपत्ति, बोकारो में सक्षम अग्निशमन कर्मियों के साथ अग्निशमन विभाग है। अग्निशमन उपकरण ड्रिलिंग और चिंता के अन्य संभावित स्थानों पर स्थापित किए गए हैं। फ्लैयर सिस्टम में नॉकआउट ड्रम है और इसे एपीआई मानकों के अनुसार डिज़ाइन किया गया है।
15.	भूमिगत कोयला आग को रोकने के लिए, वैक्यूम सक्शन सहित प्रौद्योगिकियों को अपनाकर कोयला सीमों के अंदर निकासी के दौरान परिवेशी हवा के प्रवेश के लिए निवारक उपाय किए जाएंगे।	सीबीएम निष्कर्षण प्रौद्योगिकी किसी भी भूमिगत कोयला आग का खतरा नहीं है। पोर्टेबल सीएच4 गैस डिटेक्टर प्रतिष्ठानों और अच्छी साइटों में उपलब्ध हैं। सीएच4 और एच2एस का पता लगाने के लिए गैस गैस डिटेक्टर प्रदान किए जाएंगे। कुओं से सीबीएम का विश्लेषण पता लगाने योग्य सीमा (बीडीएल) से नीचे H ₂ S दिखाता है। नवीनतम रिपोर्ट अनुबंध-17 के रूप में संलग्न हैं।
16.	पाइपलाइन के संचालन और रखरखाव और प्राकृतिक गैस/तेल के परिवहन के निर्माण, असेंबली, निरीक्षण, परीक्षण और सुरक्षा पहलुओं की डिजाइन, सामग्री एएसएमई/एएनएसआई 8 31.8/831.4 और ओआईएसडी मानक 141 द्वारा शासित होगी। पाइपलाइन दीवार की मोटाई और नदी क्रॉसिंग पर दफन की न्यूनतम गहराई और रेलों पर क्रॉसिंग, प्रमुख सड़क क्रॉसिंग एएनएसआई/एएसएमई आवश्यकताओं के अनुरूप होना चाहिए।	ओआईएसडी मानक 141 सीबीएम संपत्ति पर लागू नहीं है।
17.	कंपनी एच2एस रिलीज के लिए एक आकस्मिक योजना विकसित करेगी, जिसमें निकासी से लेकर सामान्य संचालन फिर से शुरू करने तक के सभी आवश्यक पहलू शामिल हैं। श्रमिकों को स्व-युक्त श्वसन तंत्र के साथ	कुओं से सीबीएम के गैस विश्लेषण से पता लगाने योग्य सीमा (बीडीएल) से नीचे H ₂ S पता चलता है।

	एक्सपोजर के उच्च जोखिम वाले स्थानों में व्यक्तिगत एच2एस डिटेक्टर प्रदान किए जाएंगे।	नवीनतम रिपोर्टें अनुबंध-17 के रूप में संलग्न हैं
18.	ब्लॉकों के भूवैज्ञानिक गठन के आधार पर आवश्यक रूप से ब्लो आउट प्रिवेंटर (बीओपी) या डायवर्टर सिस्टम जैसी पर्याप्त अच्छी तरह से सुरक्षा प्रणाली प्रदान की जाएगी।	पारंपरिक प्राकृतिक गैस कुओं की तुलना में सीबीएम वेल काफी कम दबाव के कुएं हैं। हालांकि, बीओपी का उपयोग ड्रिलिंग के दौरान सुरक्षा उपाय के रूप में किया जाता है और संचालन पर काम करता है।
19.	हटाई गई ऊपरी मिट्टी को बहाली प्रक्रिया के दौरान पुनः उपयोग के लिए अलग से ढेर किया जाएगा।	अनुपालन किया जा रहा है।
20.	आपातकालीन प्रतिक्रिया योजना ओआईएसडी, डीजीएम और सरकार द्वारा तैयार दिशानिर्देशों पर आधारित होगी। भारत में जोखिम मूल्यांकन और परिणाम विश्लेषण और आपदा प्रबंधन योजना में उल्लिखित सिफारिशों का कड़ाई से पालन किया जाएगा।	ईआरपी सुरक्षा वैधानिक प्राधिकरणों के निर्धारित दिशानिर्देशों के अनुसार तैयार किया जाता है।
21.	परियोजना प्रस्तावक ईआईए/ईएमपी/जोखिम विश्लेषण रिपोर्ट/आपदा प्रबंधन योजना में अनुशंसित पर्यावरण सुरक्षा उपायों और सुरक्षा उपायों का पालन करेगा।	परियोजना के प्रत्येक चरण में ईएमपी का अनुपालन किया जा रहा है।
22.	कंपनी अच्छी तरह से प्लगिंग और सुरक्षित बाड़ों द्वारा ड्रिलिंग प्रक्रिया के पूरा होने के बाद उपाय करेगी, परित्याग पर रिग को बंद करना परियोजना के जीवन चक्र को पूरा करने के बाद बाद के चरण में ड्रिल साइट को छोड़ने पर सभी प्रासंगिक उपायों का ध्यान रखा जाएगा।	कुएं और ड्रिलिंग साइट को मूल स्थिति में बहाल किया जाएगा। इस घटना में कि हाइड्रोकार्बन की कोई आर्थिक मात्रा नहीं पाई जाती है, लागू भारतीय पेट्रोलियम नियमों के अनुसार ड्रिलिंग साइट के लिए एक पूर्ण परित्याग योजना लागू की जाएगी। बहाली प्रक्रिया के लिए मानक संचालन प्रक्रिया का पालन किया जा रहा है।
23.	श्रमिकों की व्यावसायिक स्वास्थ्य निगरानी प्रचलित अधिनियमों और नियमों के अनुसार की जाएगी।	श्रमिकों का पीएमई आवधिकता/दिशानिर्देशों के अनुसार किया जाता है।
24.	कंपनी मंत्रालय के कार्यालय ज्ञापन के अनुसार कॉर्पोरेट पर्यावरण नीति अपनाएगी। नहीं जे-11013/41/2006-आईएआईआई (i) दिनांक 26 अप्रैल, 2011 और लागू किया गया।	ओएनजीसी ने उक्त एमओईएफ एंड सीसी ओएम के अनुसार अपनी कॉर्पोरेट पर्यावरण नीति तैयार की है जिसे लागू किया जा रहा है।
25.	साइट के भीतर निर्माण श्रमिकों के आवास के लिए सभी आवश्यक बुनियादी ढांचे और सुविधाओं जैसे खाना पकाने के लिए ईंधन, मोबाइल शौचालय, मोबाइल	आवास परियोजना के पूरा होने के बाद हटाए जाने वाले अस्थायी ढांचे के रूप में हो सकता है। सभी निर्माण श्रमिक

	एसटीपी, सुरक्षित पेयजल, चिकित्सा स्वास्थ्य देखभाल, क्रेष आदि के साथ प्रावधान किया जाएगा।	परिचालन क्षेत्र के स्थानीय निवासी हैं। श्रमिकों के लिए आश्रय/बंक हाउस उपलब्ध हैं। प्रत्येक स्थल पर पीने का पानी और आपातकालीन वाहन उपलब्ध है।
26.	कंपनी सभी गतिविधियों के संबंध में परिचालन मैनुअल तैयार करेगी। यह सुरक्षा और पर्यावरण से संबंधित सभी मुद्दों को कवर करता है। सुरक्षा के लिए किए जाने वाले उपाय। पर्यावरणीय मैनुअल का एक सेट ड्रिलिंग साइट/परियोजना स्थल पर उपलब्ध कराया जाएगा। प्रबंधन के प्रत्येक स्तर पर जागरूकता पैदा की जाएगी। पर्यावरण निगरानी के सभी कार्यक्रम और परिणाम परियोजना स्थल कार्यालय में उपलब्ध होंगे। साइट की दूरस्थ निगरानी की जानी चाहिए। प्रत्येक स्थापना में मैनुअल और मानक संचालन प्रक्रियाएं उपलब्ध हैं।	मैनुअल और एसओपी का कड़ाई से पालन करने के लिए जागरूकता कार्यक्रम आयोजित किए जाते हैं।
27.	ड्रिलिंग पूरी होने पर, कंपनी को ड्रिल किए गए कुओं को सुरक्षित रूप से प्लग करना होगा और संबंधित प्राधिकारी से पर्यावरण सुरक्षा कोण से प्रमाण पत्र प्राप्त करना होगा।	सीबीएम परिसंपत्ति के बोकारो ब्लॉक ने अब तक किसी भी कुएं को नहीं छोड़ा है और परित्याग पर आवश्यक प्रमाण पत्र प्राप्त किया जाएगा।
सामान्य शर्तें		
क्र. सं.	शर्तें	01.10.2024 से 31.03.2025 की अवधि के लिए शर्तें अनुपालन की स्थिति
1.	परियोजना अधिकारियों को अनुपालन के लिए नोट किए गए झारखंड राज्य प्रदूषण नियंत्रण बोर्ड (जेएसपीसीबी) द्वारा की गई शर्तों का कड़ाई से पालन करना चाहिए।	राज्य सरकार और कोई अन्य वैधानिक प्राधिकरण।
2.	पर्यावरण और वन मंत्रालय के पूर्वानुमोदन के बिना संयंत्र में कोई और विस्तार या संशोधन नहीं किया जाएगा। मंजूरी के लिए इस मंत्रालय को प्रस्तुत परियोजना प्रस्ताव में विचलन या परिवर्तन के मामले में, लगाए गए शर्तों की पर्याप्तता का आकलन करने और आवश्यक अतिरिक्त पर्यावरण संरक्षण उपायों, यदि कोई हो, को जोड़ने के लिए मंत्रालय को एक नया संदर्भ दिया जाएगा।	किसी भी विस्तार या संशोधन के मामले में, सीबीएम परिसंपत्ति एमओईएफ और सीसी के संज्ञान में लाएगी।
3.	परिवेशी वायु गुणवत्ता निगरानी स्टेशनों के स्थानों का निर्णय राज्य प्रदूषण नियंत्रण बोर्ड (एसपीसीबी) के परामर्श से किया जाएगा और यह सुनिश्चित किया जाएगा कि अपविंड और डाउनविंड दिशा में कम से कम	एएक्यू की निगरानी अर्धवार्षिक आधार पर एनएबीएल मान्यता प्राप्त और प्रमाणित सलाहकार के माध्यम से की जाती है।

	एक स्टेशन स्थापित किया गया है और साथ ही जहां अधिकतम जमीनी स्तर की सांद्रता का अनुमान है।	नवीनतम रिपोर्ट अनुबंध-12 के रूप में संलग्न है।
4.	संयंत्र क्षेत्र में और उसके आसपास के समग्र शोर स्तर को ध्वनिक हूड्स, सिलेन्सर, संलग्नक आदि सहित शोर नियंत्रण उपाय प्रदान करके मानकों के भीतर अच्छी तरह से रखा जाएगा। शोर उत्पादन के सभी स्रोतों पर। परिवेशी शोर स्तर पर्यावरण (संरक्षण) अधिनियम, 1986 नियम, 1989 के तहत निर्धारित मानकों के अनुरूप होगा। 75 डीबीए (दिन का समय) और 70 डीबीए (रात का समय)।	रिग इंजन और डीजी सेट को ध्वनिक संलग्नक प्रदान किए जाते हैं और इसलिए शोर की सीमा निर्धारित स्तर के तहत बनाए रखी जाती है। शोर निगरानी की नवीनतम रिपोर्ट अनुबंध-15 के रूप में संलग्न है।
5.	सभी कर्मचारियों को रसायनों के संचालन के सुरक्षा और स्वास्थ्य पहलुओं पर प्रशिक्षण दिया जाएगा। सभी कर्मचारियों के लिए रोजगार पूर्व और नियमित आवधिक चिकित्सा परीक्षा (पीएमई) नियमित आधार पर की जाएगी।	रसायनों के संचालन पर सभी कर्मचारियों को प्रशिक्षण दिया जाएगा। सीबीएम स्थापना में काम करने वाले सभी श्रमिकों को एमवीटी प्रदान की जाती है। पीएमई वार्षिक रूप से दिशानिर्देशों के अनुसार किया जाता है।
6.	कंपनी मंत्रालय को प्रस्तुत दस्तावेजों में प्रस्तावित सभी पर्यावरण संरक्षण उपायों और सुरक्षा उपायों का भी पालन करेगी। पर्यावरण प्रबंधन, जोखिम शमन उपायों और परियोजना से संबंधित सार्वजनिक सुनवाई के संबंध में ईआईए/ईएमपी में की गई सभी सिफारिशों को लागू किया जाएगा।	परियोजना स्थापना चरण के दौरान निर्धारित पर्यावरणीय सुरक्षा उपायों का अनुपालन किया जा रहा है।
7.	कंपनी आसपास के क्षेत्र की सामाजिक-आर्थिक स्थितियों में सुधार के लिए सभी प्रासंगिक उपाय करेगी। स्थानीय गांवों और प्रशासन को शामिल करके सीएसआर गतिविधियां की जाएंगी। ओएनजीसी के परिचालन क्षेत्रों में सीएसआर गतिविधियां लागू की जाती हैं।	वित्त वर्ष 24-25 के लिए सीएसआर के तहत की गई गतिविधियों का संक्षिप्त विवरण अनुबंध-18 के रूप में संलग्न है।
8.	कंपनी पर्यावरण के समग्र सुधार के लिए परियोजना क्षेत्र में सामुदायिक कल्याण उपायों सहित पारिस्थितिकी विकासात्मक उपाय करेगी।	ओएनजीसी की सीएसआर गतिविधियों के तहत, विभिन्न पारिस्थितिकी विकास गतिविधियां शुरू की जा रही हैं।
9.	पर्यावरण प्रबंधन और निगरानी कार्यों को पूरा करने के लिए पूर्ण प्रयोगशाला सुविधाओं से युक्त एक अलग पर्यावरण प्रबंधन प्रकोष्ठ स्थापित किया जाएगा।	पर्यावरण प्रबंधन सेल योग्य पर्यावरण इंजीनियरों के साथ मौजूद है। हालांकि पर्यावरण निगरानी परिवेशी वायु निगरानी, स्टैक उत्सर्जन निगरानी, भूजल निगरानी, शोर निगरानी आदि। एनएबीएल मान्यता प्राप्त के माध्यम से किया जा रहा है।
10.	कंपनी यहां निर्धारित सभी शर्तों के लिए कार्यान्वयन अनुसूची के साथ पर्यावरण और वन मंत्रालय के साथ-	पर्याप्त धनराशि निर्धारित की गई है जैसा कि ईएमपी में उल्लेख किया गया है,

	साथ राज्य सरकार द्वारा निर्धारित शर्तों को लागू करने के लिए पूंजी लागत और आवर्ती लागत प्रति वर्ष के लिए पर्याप्त धन निर्धारित करेगी। पर्यावरण प्रबंधन/प्रदूषण नियंत्रण उपायों के लिए निर्धारित निधियों को किसी अन्य उद्देश्य के लिए डायवर्ट नहीं किया जाएगा।	पर्यावरण प्रबंधन/प्रदूषण नियंत्रण उपायों के लिए निर्धारित धनराशि को किसी अन्य उद्देश्य के लिए डायवर्ट नहीं किया जाता है।
11.	परियोजना प्रस्तावक द्वारा मंजूरी पत्र की एक प्रति संबंधित पंचायत, जिला परिषद/नगर निगम, शहरी स्थानीय निकाय और स्थानीय गैर सरकारी संगठन, यदि कोई हो, को भेजी जाएगी, जिससे प्रस्ताव को संसाधित करते समय सुझाव/अभ्यावेदन, यदि कोई हो, प्राप्त हुए थे।	ईसी को 6 मई 2016 को संबंधित क्षेत्र के क्रमशः टाइम्स नेशन और अर्थ जागरण में अंग्रेजी और हिंदी भाषा दोनों में विज्ञापित किया गया था। समाचार पत्र काटने की प्रति अनुलग्नक-10 के रूप में संलग्न है।
12.	परियोजना प्रस्तावक निर्धारित पर्यावरणीय मंजूरी शर्तों के अनुपालन की स्थिति पर छह मासिक रिपोर्ट भी प्रस्तुत करेगा, जिसमें निगरानी किए गए डेटा (हार्ड कॉपी के साथ-साथ ई-मेल दोनों में) के परिणाम शामिल हैं, एमओईएफ एंड सीसी के संबंधित क्षेत्रीय कार्यालय, सीपीसीबी के संबंधित क्षेत्रीय कार्यालय और जेएसपीसीबी को प्रस्तुत करेंगे।	अक्टूबर 2024 से मार्च 2025 की अवधि के लिए निगरानी किए गए डेटा (हार्ड कॉपी के साथ-साथ ई-मेल दोनों में) के परिणामों सहित निर्धारित पर्यावरणीय मंजूरी शर्तों के अनुपालन की स्थिति पर छह मासिक रिपोर्ट क्षेत्रीय कार्यालय MoEF&CC रांची को प्रस्तुत की जाती है। इसे कंपनी की वेबसाइट पर भी प्रदर्शित किया जाएगा।
13.	31 मार्च को समाप्त होने वाले प्रत्येक वित्तीय वर्ष के लिए अनिवार्य रूप से फॉर्म-V में पर्यावरणीय विवरण संबंधित राज्य प्रदूषण नियंत्रण बोर्ड को प्रस्तुत किया जाएगा, जैसा कि बाद में संशोधित पर्यावरण (संरक्षण) नियम, 1986 के तहत निर्धारित किया गया है, जिसे भी वेबसाइट पर डाला जाएगा। कंपनी 'पर्यावरणीय मंजूरी शर्तों के अनुपालन की स्थिति के साथ और एमओईएफ एंड सीसी के संबंधित क्षेत्रीय कार्यालयों को भी ई-मेल द्वारा भेजा जाएगा।	वित्त वर्ष 2023-2024 के लिए पर्यावरण विवरण (फॉर्म V) दिनांक 06.09.2024 को मेल के माध्यम से पर्यावरण, वन और जलवायु परिवर्तन मंत्रालय के क्षेत्रीय कार्यालय को प्रस्तुत किया गया है। फॉर्म V अनुलग्नक-11 के रूप में संलग्न है।
14.	परियोजना प्रस्तावक जनता को सूचित करेगा कि 'परियोजना को मंत्रालय द्वारा पर्यावरणीय मंजूरी दे दी गई है और मंजूरी पत्र की प्रतियां एसपीसीबी / समिति के पास उपलब्ध हैं और मंत्रालय की वेबसाइट http://envfor.nic.in पर भी देखी जा सकती हैं। इसे मंजूरी पत्र जारी होने की तारीख से सात दिनों के भीतर विज्ञापित किया जाएगा, कम से कम दो स्थानीय समाचार पत्रों में जो उस क्षेत्र में व्यापक रूप से प्रसारित होते हैं, जिनमें से एक संबंधित इलाके की स्थानीय भाषा	ईसी को 6 मई 2016 को संबंधित क्षेत्र के क्रमशः टाइम्स नेशन और अर्थ जागरण में अंग्रेजी और हिंदी भाषा दोनों में विज्ञापित किया गया था। समाचार पत्र की प्रति अनुलग्नक-10 के रूप में संलग्न है।

	में होगा और उसकी एक प्रति मंत्रालय के संबंधित क्षेत्रीय कार्यालय को अग्रेषित की जाएगी।	
15.	परियोजना प्राधिकरण क्षेत्रीय कार्यालय के साथ-साथ मंत्रालय को वित्तीय समापन की तारीख और संबंधित अधिकारियों द्वारा परियोजना के अंतिम अनुमोदन और परियोजना के शुरू होने की तारीख के बारे में सूचित करेंगे।	अनुपालन किया जा रहा है।

अनुमोदन के लिए प्रस्तुत

विजेन्द्र सिंह

विजयेंद्र सिंह/VIJAYENDRA SINGH
मुख्य महसूब (उत्पादन)/CGM (P)
प्रधान एचएसई/Head HSE
ओएनजीसी, सीबीएम परिसम्पत्ति, बोकारो
ONGC, CBM Asset, Bokaro

F. No. J-11011/430/2011- IA II (I)
Government of India
Ministry of Environment, Forest and Climate Change
(I.A. Division)

Indira Paryavaran Bhawan
Aliganj, Jorbagh Road,
New Delhi -110003

E-mail : lk.bokolia@nic.in
Telefax : 011-24695313
Dated: 28th March, 2016

To,
Shri C.K.Prasad, Executive Director
M/s Oil and Natural Gas Corporation Ltd.
1st Floor, HSCL Building, Nayamore
Bokaro - 827001, Jharkhand

E-mail: gourisankar.datta@yahoo.co.in ; Fax No.: 06542-226666.

Subject: Development Plan of CBM Block (BK-CBM-2001/1) in District Bokaro, Jharkhand by
M/s Oil and Natural Gas Corporation Ltd. (ONGCL) –Environmental Clearance reg.
Ref: Your online proposal no. IA/JH/IND/4969/2011 ; dated 11th June, 2015.

Sir,
This has reference to your online proposal no. IA/JH/IND/4969/2011 dated 11th June, 2015 alongwith project documents including Form I, Terms of References, Pre-feasibility Report, EIA/EMP Report alongwith Public Hearing Report regarding above mentioned project.

2.0 The Ministry of Environment, Forest and Climate Change has examined the application. It is noted that proposal is for Development Plan of CBM Block BK-CBM-2001/1 of Bokaro, Jharkhand. The Bokaro CBM Block (BK-CBM-2001/1) was awarded to ONGC-IOC consortium in 2002 and the Petroleum Exploration License (PEL) was granted by the Government of Jharkhand w.e.f. 21.2.2003 ('Effective Date'). 2 exploratory wells and eight core holes/ boreholes were drilled as per the committed MWP of Exploratory Phase (Phase-I) during 2½ years, with an extension of 6 months beyond original duration of 2 years (i.e. up to 20.8.2005). The Bokaro Block, extending over an area of 75 km², consists of three disconnected sectors, viz. Central Patch (Patch-A covering 48 km² area), Western Patch (Patch-B covering 16 km² area), and Eastern Patch (Patch-C covering 11 km² area). The total prospective area works out to approximately 64 km² (48 km² in Patch-A and 16 km² in Patch-B). ONGC has planned to drill vertical wells. For processing of and collecting the gas and water to be produced from these wells, gas collecting stations are planned to be constructed. Land required for development wells are in process of permanent acquisition through Government. It is reported that no forest land is involved in this project. It is also reported that no wildlife sanctuary is located within 10 km distance. Following wells will be developed:

141 Development Wells and 05 Assessment wells

ONE Gas Collecting Station (GCS)

- Peak gas production of ~ 7.6 LCMD, Max Water 1550 SCMD
- Water production will reduce to ~ 70 SCMD at the 20th year

TWO Early Production System (EPS)

- Peak gas production of ~ 0.75 LCMD, Max Water 500 SCMD for each
- Water production will reduce to ~120 SCMD at the 20th year for each

Cost of project is Rs.1629 Crores. Well will be drilled with the average depth 1000m, Max: 1500m.

3.0 Air emissions from D.G. sets will be dispersed by providing adequate stack height. Flaring will be done as per the CPCB guidelines. Fresh water requirement will be 800 m³/well during drilling and 1 m³/day for GGS/MCS operation. Water based mud (WBM) will be used. Effluent comprising mud will be treated in compact effluent treatment plant (ETP) comprising equalization, chemical coagulation, flocculation and clarification by settling. Residual unusable mud will be collected in lined pits and solar evaporated. Remaining mud will be reused in the drilling process. Produced water will be generated around 40 m³/day and recycle/reuse for domestic purposes and preparation of mud. Produce water will be discharged into streams/land after meeting the standards prescribed by the SPCB/CPCB. Drill cutting (DC) will be separated from water based mud (WBM) and washed properly and unusable drilling fluids (DF) will be disposed off in well designed lined pit with impervious liner for solar drying. Disposal of drill cuttings and drill mud will be carried out in accordance with the GSR 546 (E) dated 30th August, 2005. Used oil will be sent to authorized recyclers.

4.0 All the projects related to offshore and onshore Oil and Gas exploration, development and production are listed in para 1(b) of schedule of EIA Notification, 2006 covered under category 'A' and appraised at central level.

5.0 Public Hearing/ Public Consultation meeting conducted on 05.10.2015 for Bokaro district and 28.10.2015 for Ramgrah district.

6.0 The proposal was considered by the Expert Appraisal Committee (Industry-2) in its meetings held during 17th – 18th October, 2011, 26th – 27th August, 2013 and 18th – 19th January, 2016 respectively. Project Proponent and the EIA Consultant namely M/s ONGC, have presented EIA / EMP report as per the TOR. EAC has found the EIA / EMP Report and additional information to be satisfactory and in full consonance with the presented TORs. The Committee recommended the proposal for environmental clearance.

7.0 Based on information submitted by you, the Ministry of Environment and Forests hereby accords environmental clearance to the above project under the provisions of EIA Notification dated 14th September, 2006 subject to strict compliance of the following specific and general conditions:

A. SPECIFIC CONDITIONS :

- i. As proposed, no forest land shall be used for the proposed facilities/ activities.
- ii. Compensation for the land acquisition to the land oustees, if any, and also for standing crop shall be paid as per the National Resettlement and Rehabilitation Policy (NRRP) 2007 or State Government norms. It may be ensured that compensation provided shall not be less than the norms of the NRRP, 2007.
- iii. The surface facilities shall be installed as per the applicable codes and standards, international practices and applicable local regulations.
- iv. Ambient air quality shall be monitored near the closest human settlements as per the National Ambient Air Quality Emission Standards (NAAQES) issued by the Ministry vide G.S.R. No. 826(E) dated 16th November, 2009 for PM₁₀, PM_{2.5}, SO₂, NO_x, CO, CH₄, VOCs, HC, Non-methane HC etc. Efforts shall be made to improve the ambient air quality of the area.
- v. Mercury shall also be analyzed in air, water and drill cuttings twice during drilling period.



- vi. The flare system shall be designed as per good oil field practices and Oil Industry Safety Directorate (OISD) guidelines. The company shall take necessary measures to prevent fire hazards and soil remediation as needed. At the place of ground flaring, the flare pit shall be lined with refractory bricks and efficient burning system. In case of overhead flare stacks, the stack height shall be provided as per the regulatory requirements and emissions from stacks shall meet the MOEF/CPCB guidelines.
- vii. The company shall make the arrangement for control of noise from the drilling activity and DG sets by providing necessary mitigation measures such as proper acoustic enclosures to DG sets and meet the norms notified by the MoEF. Height of all the stacks/vents shall be as per the CPCB guidelines.
- viii. The company shall comply with the guidelines for disposal of solid waste, drill cutting and drilling fluids for onshore drilling operation notified vide GSR. 546(E) dated 30th August, 2005.
- ix. During well drilling, wastewater shall be segregated into waste drilling fluid and drill cuttings. Drill cutting shall be stored onsite impervious HDPE lined pit for solar evaporation and drying. Effluent shall be properly treated and treated effluent shall conform to CPCB standards. The produced water shall be stored onsite HDPE lined pit for solar evaporation and reuse in drilling of new wells and fire hydrant system. Domestic effluent shall be disposed off through septic tank followed by soak pit.
- x. Water produced during drilling shall be reused in drilling of other core/test wells.
- xi. Ground water quality monitoring shall be done to assess if produced water storage or disposal has any effect.
- xii. Drilling wastewater including drill cuttings, wash water shall be collected in disposal pit lined with HDPE lining, evaporated or treated and shall comply with the notified standards for on-shore disposal on land. Proper toxicological analysis shall be done to ensure there is no hazardous material. Copy of toxicological analysis shall be submitted to Ministry's Regional Office at Bangalore.
- xiii. Only water based drilling mud shall be used. The drilling mud shall be recycled. Hazardous waste shall be disposed of as per Hazardous Waste (Management, Handling and Transboundary Movement) Rules, 2008. The recyclable waste (oily sludge) and spent oil shall be disposed of to the authorized recyclers/re-processors.
- xiv. The Company shall take necessary measures to prevent fire hazards, containing oil spill and soil remediation as needed. At place of ground flaring, the overhead flaring stack with knockout drums shall be installed to minimize gaseous emissions during operation.
- xv. To prevent underground coal fire, preventive measures shall be taken for ingress of ambient air during withdrawal inside the coal seams by adopting technologies including vacuum suction. Gas detectors for the detection of CH₄ and H₂S shall be provided.
- xvi. The design, material of construction, assembly, inspection, testing and safety aspects of operation and maintenance of pipeline and transporting the natural gas/oil shall be governed by ASME/ANSI B 31.8/B31.4 and OISD standard 141. Pipeline wall thickness and minimum depth of burial at river crossing and casings at rails, major road crossings should be in conformity with ANSI/ASME requirements.
- xvii. The company shall develop a contingency plan for H₂S release 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.

- xviii. Adequate well protection system shall be provided like Blow Out Preventor (BOP) or diverter systems as required based on the geological formation of the blocks.
- xix. The top soil removed shall be stacked separately for reuse during restoration process.
- xx. Emergency Response Plan shall be based on the guidelines prepared by OISD, DGMS and Govt. of India. Recommendations mentioned in the Risk Assessment & Consequence Analysis and Disaster Management Plan shall be strictly followed.
- xxi. Project proponent shall comply with the environment protection measures and safeguards recommended in the EIA/EMP/risk analysis report/disaster management plan.
- xxii. The company shall take measures after completion of drilling process by well plugging and secured enclosures, decommissioning of rig upon abandonment of the well and drilling site shall be restored in original condition. In the event that no economic quantity of hydrocarbon is found a full abandonment plan shall be implemented for the drilling site in accordance with the applicable Indian Petroleum Regulations.
- xxiii. Occupational health surveillance of the workers shall be carried out as per the prevailing Acts and Rules.
- xxiv. Company shall adopt Corporate Environment Policy as per the Ministry's O.M. No. J-11013/41/2006-IA.II(I) dated 26th April, 2011 and implemented.
- xxv. Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, Safe drinking water, medical health care, crèche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.
- xxvi. Company shall prepare operating manual in respect of all activities. It shall cover all safety & environment related issues and system. 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 shall be available at the project site office. Remote monitoring of site should be done.
- xxvii. On completion of drilling, the company has to plug the drilled wells safely and obtain certificate from environment safety angle from the concerned authority.

B. GENERAL CONDITIONS:

- i. The project authorities must strictly adhere to the stipulations made by the Jharkhand State Pollution Control Board (JSPCB), State Government and any other statutory authority.
- ii. No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment and Forests. 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 to assess the adequacy of conditions imposed and to add additional environmental protection measures required, if any.
- iii. The locations of ambient air quality monitoring stations shall be decided in consultation with the State Pollution Control Board (SPCB) and it shall be ensured that at least one stations

is installed in the upwind and downwind direction as well as where maximum ground level concentrations are anticipated.

- iv. 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 conform to the standards prescribed under Environment (Protection) Act, 1986 Rules, 1989 viz. 75 dBA (day time) and 70 dBA (night time).
- v. Training shall be imparted to all employees on safety and health aspects of chemicals handling. Pre-employment and routine periodical medical examinations for all employees shall be undertaken on regular basis. Training to all employees on handling of chemicals shall be imparted.
- vi. The company shall also comply with all the environmental protection measures and safeguards proposed in the documents submitted to the Ministry. All the recommendations made in the EIA/EMP in respect of environmental management, risk mitigation measures and public hearing relating to the project shall be implemented.
- vii. The company shall undertake all relevant measures for improving the socio-economic conditions of the surrounding area. CSR activities shall be undertaken by involving local villages and administration.
- viii. The company shall undertake eco-developmental measures including community welfare measures in the project area for the overall improvement of the environment.
- ix. A separate Environmental Management Cell equipped with full fledged laboratory facilities shall be set up to carry out the Environmental Management and Monitoring functions.
- x. The company shall earmark sufficient funds towards capital cost and recurring cost per annum to implement the conditions stipulated by the Ministry of Environment and Forests as well as the State Government along with the implementation schedule for all the conditions stipulated herein. The funds so earmarked for environment management/ pollution control measures shall not be diverted for any other purpose.
- xi. A copy of the clearance letter shall be sent by the project proponent to concerned Panchayat, Zila Parisad/Municipal Corporation, Urban local Body and the local NGO, if any, from whom suggestions/ representations, if any, were received while processing the proposal.
- xii. The project proponent shall also submit six monthly 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 respective Regional Office of MoEF, the respective Zonal Office of CPCB and JSPCB. A copy of Environmental Clearance and six monthly compliance status report shall be posted on the website of the company.
- xiii. The environmental statement for each financial year ending 31st March in Form-V as is mandated shall be submitted to the concerned State Pollution Control Board 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 of MoEF by e-mail.
- xiv. 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 at

<http://envfor.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.

- xv. 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.

8.0 The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.

9.0 The Ministry reserves the right to stipulate additional conditions, if found necessary. The company in a time bound manner will implement these conditions.

10.0 The above conditions will be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, Air (Prevention & Control of Water Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous Waste (Management, Handling and Trans-boundary Movement) Rules, 2008 and the Public Liability Insurance Act, 1991 along with their amendments and rules.


(Lalit Bokolia)
Additional Director

Copy to:-

1. The Secretary, Department of Environment, Govt. of Jharkhand, Jharkhand.
2. The Chief Conservator of Forests, Regional Office (EZ), A/3, Chandrashekharapur, Bhubaneswar, 751023. Orissa.
3. The Chairman, Central Pollution Control Board Parivesh Bhavan, CBD-cum-Office Complex, East Arjun Nagar, New Delhi - 110 032.
4. The Chairman, Jharkhand Pollution Control Board, Town Administrative Building, HEC, Dhurwa, Ranchi- 824004.
5. Monitoring Cell, Ministry of Environment, Forest and Climate Change, Indira Paryavaran Bhawan, Jor Bagh, New Delhi
6. Guard File/Monitoring File/Record File.


(Lalit Bokolia)
Additional Director



SV ENVIRO LABS & CONSULTANTS

(ENVIRONMENTAL ENGINEERS & CONSULTANTS IN POLLUTION CONTROL)

Corporate Office & Laboratory : Enviro House, B-1, Block-B, IDA Autonagar, Visakhapatnam-530012

Hyderabad Office: #402, SaiKrishna Villa, Behind CMR Shopping Mall, AS Raju Nagar, Kukatpally, Hyderabad-500072

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Recognized by Govt. of India-MoEF & CC, New Delhi, Accredited by : NABL & NABET



Ref: SVEL/ONGC-B/25-02/01

Date: 28-02-2025

NAME AND ADDRESS : M/s. OIL AND NATURAL GAS CORPORATION LTD LTD,
CBM Asset, 1st Floor, HSCL Building,
Naya More Bokaro Steel City,
Jharkhand-827001.

SAMPLE PARTICULARS : AMBIENT AIR

SOURCE OF COLLECTION : RIG DR-03 at BK-62

SITE NAME : BOKARO

DATE OF COLLECTION : 14-02-2025

TEST REPORT

S.No	Parameter	Unit	Result	NAAQ Standard	Method
1.	Particulate Matter – (PM ₁₀)	µg/m ³	68.9	100	IS:5182 (P-23)
2.	Particulate Matter – (PM _{2.5})	µg/m ³	27.1	60	IS:5182 (P-24)
3.	Sulphur Dioxide – SO ₂	µg/m ³	13.9	80	IS:5182 (P-2)
4.	Oxides of Nitrogen - NO _x	µg/m ³	15.7	80	IS:5182(P-6)
5.	Carbon Monoxide – CO	µg/m ³	0.26	2.0	IS:5182 (P-10)
6.	Ozone(O ₃)	µg/m ³	9.2	100	IS :5182 (P-9)
7.	Lead(Pb)	µg/m ³	< 0.01	01	IS:5182 (P-22)
8.	Ammonia (NH ₃)	µg/m ³	< 20	400	IS:5182 (P-25)
9.	Benzene (C ₆ H ₆)	µg/m ³	< 0.5	05	IS 5182 (P-11)
10.	Benzo(a) pyrene(BaP)	ng/m ³	< 0.5	01	IS 5182 (P-12)
11.	Arsenic (As)	ng/m ³	< 5.0	06	CPCB Guidelines
12.	Nickel (Ni)	ng/m ³	< 5.0	20	IS 5182 (P-26)
13.	Methane	µg/m ³	1.8	-	IS:5182(P- 21)
14.	Non- Methane	µg/m ³	1.4	-	IS:5182(P- 21)

Remarks: As per the above result, all the parameters are within the CPCB standard

Instrument Used	Make	Model/SI No	Calibrated on	Calibration Due Date
PM10 / PM2.5 Sampler	Lata Envirotech	APM – 154/ 286-DTF-2018	16.08.2024	15.08.2025

CHECKED BY



SV ENVIRO LABS & CONSULTANTS



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Recognized by Govt. of India-MoEF & CC, New Delhi, Accredited by : NABL & NABET



Ref: SVEL/ONGC-B/25-02/02

Date: 28-02-2025

NAME AND ADDRESS

M/s. OIL AND NATURAL GAS CORPORATION LTD LTD,
CBM Asset, 1st Floor, HSCL Building,
Naya More Bokaro Steel City,
Jharkhand-827001.

SAMPLE PARTICULARS

AMBIENT AIR

SOURCE OF COLLECTION

NEAR SECURITY GATE (GCS KHUDGADA)

SITE NAME

BOKARO

DATE OF COLLECTION

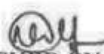
14-02-2025

TEST REPORT

S.No	Parameter	Unit	Result	NAAQ Standard	Method
1.	Particulate Matter – (PM ₁₀)	µg/m ³	63.2	100	IS:5182 (P-23)
2.	Particulate Matter – (PM _{2.5})	µg/m ³	22.7	60	IS:5182 (P-24)
3.	Sulphur Dioxide – SO ₂	µg/m ³	16.1	80	IS:5182 (P-2)
4.	Oxides of Nitrogen – NO _x	µg/m ³	13.5	80	IS:5182(P-6)
5.	Carbon Monoxide – CO	µg/m ³	0.27	2.0	IS:5182 (P-10)
6.	Ozone(O ₃)	µg/m ³	10.3	100	IS :5182 (P-9)
7.	Lead(Pb)	µg/m ³	< 0.01	01	IS:5182 (P-22)
8.	Ammonia (NH ₃)	µg/m ³	< 20	400	IS:5182 (P-25)
9.	Benzene (C ₆ H ₆)	µg/m ³	< 0.5	05	IS 5182 (P-11)
10.	Benzo(a)pyrene(BaP)	µg/m ³	< 0.5	01	IS 5182 (P-12)
11.	Arsenic (As)	µg/m ³	< 5.0	06	CPCB Guidelines
12.	Nickel (Ni)	µg/m ³	< 5.0	20	IS 5182 (P-26)
13.	Methane	µg/m ³	2.7	-	IS:5182(P- 21)
14.	Non- Methane	µg/m ³	1.4	-	IS:5182(P- 21)

Remarks: As per the above result, all the parameters are within the CPCB standard

Instrument Used	Make	Model/SI No	Calibrated on	Calibration Due Date
Combo PM10&PM2.5 Sampler	Lata Envirotech Instruments	APM-154 S.No 480-DTE-2024	09-05-2024	20.08.2025

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Ref: SVEL/ONGC-B/25-02/03

Date: 28-02-2025

NAME AND ADDRESS : M/s. OIL AND NATURAL GAS CORPORATION LTD LTD,
CBM Asset, 1st Floor, HSCL Building,
Naya More Bokaro Steel City.
Jharkhand-827001.

SAMPLE PARTICULARS : AMBIENT AIR

SOURCE OF COLLECTION : WSS BIADA

SITE NAME : BIADA

DATE OF COLLECTION : 14-02-2025

TEST REPORT

S.No	Parameter	Unit	Result	NAAQ Standard	Method
1.	Particulate Matter – (PM ₁₀)	µg/m ³	65.9	100	IS:5182 (P-23)
2.	Particulate Matter – (PM _{2.5})	µg/m ³	27.1	60	IS:5182 (P-24)
3.	Sulphur Dioxide – SO ₂	µg/m ³	11.9	80	IS:5182 (P-2)
4.	Oxides of Nitrogen - NO _x	µg/m ³	13.2	80	IS:5182(P-6)
5.	Carbon Monoxide – CO	µg/m ³	0.31	2.0	IS:5182 (P-10)
6.	Ozone(O ₃)	µg/m ³	12.3	100	IS :5182 (P-9)
7.	Lead(Pb)	µg/m ³	< 0.01	01	IS:5182 (P-22)
8.	Ammonia (NH ₃)	µg/m ³	< 20	400	IS:5182 (P-25)
9.	Benzene (C ₆ H ₆)	µg/m ³	< 0.5	05	IS 5182 (P-11)
10.	Benzo(a)pyrene(BaP)	µg/m ³	< 0.5	01	IS 5182 (P-12)
11.	Arsenic (As)	µg/m ³	< 5.0	06	CPCB Guidelines
12.	Nickel (Ni)	µg/m ³	< 5.0	20	IS 5182 (P-26)
13.	Methane	µg/m ³	3.6	-	IS:5182(P- 21)
14.	Non- Methane	µg/m ³	2.2	-	IS:5182(P- 21)

Remarks: As per the above result, all the parameters are within the CPCB standard

Instrument Used	Make	Model/SI No	Calibrated on	Calibration Due Date
PM10 / PM2.5 Sampler	Lata Envirotech	APM – 154/ 478-DTE-2024	09.05.2024	08.05.2025

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Ref: SVEL/ONGC-B/25-02/04

Date: 28-02-2025

NAME AND ADDRESS : M/s. OIL AND NATURAL GAS CORPORATION LTD LTD,
CBM Asset, 1st Floor, HSCL Building,
Naya More Bokaro Steel City,
Jharkhand-827001.

SAMPLE PARTICULARS : AMBIENT AIR

SOURCE OF COLLECTION : RIG AKASH-2 at BK # 55

SITE NAME : BOKARO

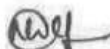
DATE OF COLLECTION : 14-02-2025

TEST REPORT

S.No	Parameter	Unit	Result	NAAQ Standard	Method
1.	Particulate Matter – (PM ₁₀)	µg/m ³	61.3	100	IS:5182 (P-23)
2.	Particulate Matter – (PM _{2.5})	µg/m ³	23.9	60	IS:5182 (P-24)
3.	Sulphur Dioxide – SO ₂	µg/m ³	10.6	80	IS:5182 (P-2)
4.	Oxides of Nitrogen - NO _x	µg/m ³	11.7	80	IS:5182(P-6)
5.	Carbon Monoxide – CO	µg/m ³	0.29	2.0	IS:5182 (P-10)
6.	Ozone(O ₃)	µg/m ³	13.6	100	IS :5182 (P-9)
7.	Lead(Pb)	µg/m ³	< 0.01	01	IS:5182 (P-22)
8.	Ammonia (NH ₃)	µg/m ³	< 20	400	IS:5182 (P-25)
9.	Benzene (C ₆ H ₆)	µg/m ³	< 0.5	05	IS 5182 (P-11)
10.	Benzo(a)pyrene(BaP)	µg/m ³	< 0.5	01	IS 5182 (P-12)
11.	Arsenic (As)	µg/m ³	< 5.0	06	CPCB Guidelines
12.	Nickel (Ni)	µg/m ³	< 5.0	20	IS 5182 (P-26)
13.	Methane	µg/m ³	3.2	-	IS:5182(P- 21)
14.	Non- Methane	µg/m ³	1.7	-	IS:5182(P- 21)

Remarks: As per the above result, all the parameters are within the CPCB standard

Instrument Used	Make	Model/SI No	Calibrated on	Calibration Due Date
PM10 / PM2.5 Sampler	Lata Envirotech	APM – 154/ 477-DTE-2024	09.05.2024	08.05.2025

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Ref: SVEL/ONGC-B/25-02/08

Date: 28-02-2025

NAME AND ADDRESS : M/s. OIL AND NATURAL GAS CORPORATION LTD LTD,
CBM Asset, 1st Floor, HSCL Building,
Naya More Bokaro Steel City,
Jharkhand-827001.

SAMPLE PARTICULARS : AMBIENT AIR

SOURCE OF COLLECTION : ONGC OFFICE ENTRY

SITE NAME : BOKARO

DATE OF COLLECTION : 13-02-2025

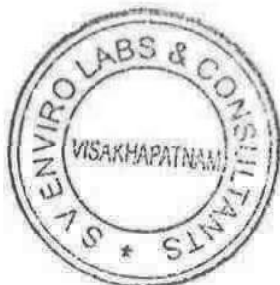
TEST REPORT

S.No	Parameter	Unit	Result	NAAQ Standard	Method
1.	Particulate Matter – (PM ₁₀)	µg/m ³	74.6	100	IS:5182 (P-23)
2.	Particulate Matter – (PM _{2.5})	µg/m ³	32.9	60	IS:5182 (P-24)
3.	Sulphur Dioxide – SO ₂	µg/m ³	12.3	80	IS:5182 (P-2)
4.	Oxides of Nitrogen - NO _x	µg/m ³	15.9	80	IS:5182(P-6)
5.	Carbon Monoxide – CO	µg/m ³	0.42	2.0	IS:5182 (P-10)
6.	Ozone(O ₃)	µg/m ³	13.1	100	IS :5182 (P-9)
7.	Lead(Pb)	µg/m ³	< 0.01	01	IS:5182 (P-22)
8.	Ammonia (NH ₃)	µg/m ³	< 20	400	IS:5182 (P-25)
9.	Benzene (C ₆ H ₆)	µg/m ³	< 0.5	05	IS 5182 (P-11)
10.	Benzo(a)pyrene(BaP)	µg/m ³	< 0.5	01	IS 5182 (P-12)
11.	Arsenic (As)	µg/m ³	< 5.0	06	CPCB Guidelines
12.	Nickel (Ni)	µg/m ³	< 5.0	20	IS 5182 (P-26)
13.	Methane	µg/m ³	3.7	-	IS:5182(P- 21)
14.	Non- Methane	µg/m ³	2.4	-	IS:5182(P- 21)

Remarks: As per the above result, all the parameters are within the CPCB standard

Instrument Used	Make	Model/SI No	Calibrated on	Calibration Due Date
PM10 / PM2.5 Sampler	Lata Envirotech	APM – 154/ 286-DTF-2018	16.08.2024	15.08.2025

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Ref: SVELC/ONGC-B/25-02/26

Date: 28-02-2025

NAME AND ADDRESS : M/s. OIL AND NATURAL GAS CORPORATION LTD LTD,
CBM Asset, 1st Floor, HSCL Building,
Naya More Bokaro Steel City,
Jharkhand-827001.

SAMPLE PARTICULARS : DRILL CUTTING

SOURCE OF COLLECTION : DR 27 at RNAF

SITE NAME : RANIGANJ

SAMPLE CODE : SVELC/25/983

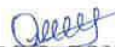
DATE OF COLLECTION : 13-02-2025

TEST REPORT

S.NO	PARAMETER	UNIT	RESULT
1.	Oil & Grease	mg/kg	11.0
2.	Lead as Pb	mg/kg	4.28
3.	Mercury as Hg	mg/kg	<0.1
4.	Cadmium as Cd	mg/kg	9.68
5.	Total Chromium as Cr	mg/kg	34.6
6.	Hexavalent Chromium	mg/kg	<0.1
7.	Copper as Cu	mg/kg	17.2
8.	Zinc as Zn	mg/kg	48.3
9.	Nickel as Ni	mg/kg	21.1
10.	Selenium	mg/kg	<0.1
11.	Total Arsenic as As	mg/kg	<0.1


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Ref: SVELC/ONGC-B/25-02/18

Date: 28-02-2025

NAME AND ADDRESS : M/s. OIL AND NATURAL GAS CORPORATION LTD LTD,
CBM Asset, 1st Floor, HSCL Building,
Naya More Bokaro Steel City.
Jharkhand-827001.

SAMPLE PARTICULARS : PRODUCED WATER

SOURCE OF COLLECTION : RO REJECT WATER

SITE NAME : GCS KHUDGADDA BOKARO

SAMPLE CODE : SVELC/25/974

DATE OF COLLECTION : 14-02-2025

TEST REPORT

S.NO	PARAMETER	UNIT	RESULT
1.	Temperature	°C	26.7
2.	pH	-	7.47
3.	Electrical Conductivity	µmhos	4295
4.	Total Dissolved Solids	mg/l	2537
5.	Total Alkalinity as CaCO ₃	mg/l	2362
6.	Calcium as Ca	mg/l	46.9
7.	Magnesium as Mg	mg/l	10.1
8.	Chlorides as Cl	mg/l	732
9.	Carbonates	mg/l	2362
10.	Bi-Carbonates	mg/l	NIL
11.	Iron as Fe	mg/l	<0.1
12.	Sodium as Na	mg/l	283
13.	Sulfate as SO ₄	mg/l	<1.0
14.	Oil & Grease	mg/l	<1.0
15.	Total Suspended Solids	mg/l	7.0
16.	Chemical Oxidation Demand-COD	mg/l	<10.0
17.	Bio-Chemical Oxidation Demand-BOD (3days incubation at27°C)	mg/l	<3.0
18.	Sulphide as S	mg/l	<0.1
19.	Phenolic Compounds as C ₆ H ₅ OH	mg/l	<0.05
20.	Cyanide as CN	mg/l	<0.02



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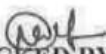
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21.	Lead as Pb	mg/l	<0.01
22.	Mercury as Hg	mg/l	<0.01
23.	Cadmium as Cd	mg/l	<0.001
24.	Total Chromium as Cr	mg/l	<0.01
25.	Hexavalent Chromium	mg/l	<0.1
26.	Copper as Cu	mg/l	<0.01
27.	Zinc as Zn	mg/l	0.10
28.	Nickel as Ni	mg/l	<0.01
29.	Fluorides as F	mg/l	<0.01
30.	Vanadium as V	mg/l	<0.01
31.	Total Arsenic as As	mg/l	<0.01


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Ref: SVELC/ONGC-B/25-02/19

Date: 28-02-2025

NAME AND ADDRESS : M/s. OIL AND NATURAL GAS CORPORATION LTD LTD,
CBM Asset, 1st Floor, HSCL Building,
Naya More Bokaro Steel City.
Jharkhand-827001.

SAMPLE PARTICULARS : PRODUCED WATER

SOURCE OF COLLECTION : OUTLET FILTER WATER TANK

SITE NAME : GCS KHUDGADDA BOKARO

SAMPLE CODE : SVELC/25/975

DATE OF COLLECTION : 14-02-2025

TEST REPORT

S.NO	PARAMETER	UNIT	RESULT
1.	Temperature	°C	27.3
2.	pH	-	7.95
3.	Electrical Conductivity	μmhos	2491
4.	Total Dissolved Solids	mg/l	1516
5.	Total Alkalinity as CaCO ₃	mg/l	2095
6.	Calcium as Ca	mg/l	10.2
7.	Magnesium as Mg	mg/l	21.8
8.	Chlorides as Cl	mg/l	118
9.	Carbonates	mg/l	2095
10.	Bi-Carbonates	mg/l	NIL
11.	Iron as Fe	mg/l	<0.1
12.	Sodium as Na	mg/l	54.3
13.	Sulfate as SO ₄	mg/l	<1.0
14.	Oil & Grease	mg/l	<1.0
15.	Total Suspended Solids	mg/l	1.0
16.	Chemical Oxidation Demand-COD	mg/l	<10.0
17.	Bio-Chemical Oxidation Demand-BOD (3days incubation at27°C)	mg/l	<3.0
18.	Sulphide as S	mg/l	<0.1
19.	Phenolic Compounds as C ₆ H ₅ OH	mg/l	<0.05
20.	Cyanide as CN	mg/l	<0.02



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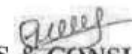
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21.	Lead as Pb	mg/l	<0.01
22.	Mercury as Hg	mg/l	<0.01
23.	Cadmium as Cd	mg/l	<0.001
24.	Total Chromium as Cr	mg/l	<0.01
25.	Hexavalent Chromium	mg/l	<0.1
26.	Copper as Cu	mg/l	<0.01
27.	Zinc as Zn	mg/l	0.04
28.	Nickel as Ni	mg/l	<0.01
29.	Fluorides as F	mg/l	<0.01
30.	Vanadium as V	mg/l	<0.01
31.	Total Arsenic as As	mg/l	<0.01


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Ref: SVELC/ONGC-B/25-02/20

Date: 28-02-2025

NAME AND ADDRESS : M/s. OIL AND NATURAL GAS CORPORATION LTD LTD,
CBM Asset, 1st Floor, HSCL Building,
Naya More Bokaro Steel City.
Jharkhand-827001.

SAMPLE PARTICULARS : PRODUCED WATER

SOURCE OF COLLECTION : FILTRATION WATER (FROM FILTRATION OUTLET)

SITE NAME : GCS KHUDGADDA BOKARO

SAMPLE CODE : SVELC/25/976

DATE OF COLLECTION : 14-02-2025

TEST REPORT

S.NO	PARAMETER	UNIT	RESULT
1.	Temperature	°C	26.6
2.	pH	-	7.01
3.	Electrical Conductivity	µmhos	1614
4.	Total Dissolved Solids	mg/l	955
5.	Total Alkalinity as CaCO ₃	mg/l	1174
6.	Calcium as Ca	mg/l	31.6
7.	Magnesium as Mg	mg/l	14.9
8.	Chlorides as Cl	mg/l	117
9.	Carbonates	mg/l	1174
10.	Bi-Carbonates	mg/l	NIL
11.	Iron as Fe	mg/l	<0.01
12.	Sodium as Na	mg/l	41.9
13.	Sulfate as SO ₄	mg/l	10.3
14.	Oil & Grease	mg/l	<1.0
15.	Total Suspended Solids	mg/l	2.0
16.	Chemical Oxidation Demand-COD	mg/l	<10.0
17.	Bio-Chemical Oxidation Demand-BOD (3days incubation at 27°C)	mg/l	<3.0
18.	Sulphide as S	mg/l	<0.1
19.	Phenolic Compounds as C ₆ H ₅ OH	mg/l	<0.05
20.	Cyanide as CN	mg/l	<0.02



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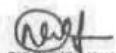
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21.	Lead as Pb	mg/l	<0.01
22.	Mercury as Hg	mg/l	<0.01
23.	Cadmium as Cd	mg/l	<0.001
24.	Total Chromium as Cr	mg/l	<0.01
25.	Hexavalent Chromium	mg/l	<0.1
26.	Copper as Cu	mg/l	<0.01
27.	Zinc as Zn	mg/l	0.02
28.	Nickel as Ni	mg/l	<0.01
29.	Fluorides as F	mg/l	0.04
30.	Vanadium as V	mg/l	<0.01
31.	Total Arsenic as As	mg/l	<0.01


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Ref: SVELC/ONGC-B/25-02/21

Date: 28-02-2025

NAME AND ADDRESS : M/s. OIL AND NATURAL GAS CORPORATION LTD LTD,
CBM Asset, 1st Floor, HSCL Building,
Naya More Bokaro Steel City.
Jharkhand-827001.

SAMPLE PARTICULARS : PRODUCED WATER

SOURCE OF COLLECTION : BEFORE CARTIDGE

SITE NAME : GCS KHUDGADDA BOKARO

SAMPLE CODE : SVELC/25/977

DATE OF COLLECTION : 14-02-2025

TEST REPORT

S.NO	PARAMETER	UNIT	RESULT
1.	Temperature	°C	27.4
2.	pH	-	8.22
3.	Electrical Conductivity	µmhos	2369
4.	Total Dissolved Solids	mg/l	1506
5.	Total Alkalinity as CaCO ₃	mg/l	2100
6.	Calcium as Ca	mg/l	16.1
7.	Magnesium as Mg	mg/l	14.5
8.	Chlorides as Cl	mg/l	113
9.	Carbonates	mg/l	2100
10.	Bi-Carbonates	mg/l	NIL
11.	Iron as Fe	mg/l	<0.1
12.	Sodium as Na	mg/l	44.7
13.	Sulfate as SO ₄	mg/l	<1.0
14.	Oil & Grease	mg/l	<1.0
15.	Total Suspended Solids	mg/l	<1.0
16.	Chemical Oxidation Demand-COD	mg/l	<10.0
17.	Bio-Chemical Oxidation Demand-BOD (3days incubation at 27°C)	mg/l	<3.0
18.	Sulphide as S	mg/l	<0.1
19.	Phenolic Compounds as C ₆ H ₅ OH	mg/l	<0.05
20.	Cyanide as CN	mg/l	<0.02



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21.	Lead as Pb	mg/l	<0.01
22.	Mercury as Hg	mg/l	<0.01
23.	Cadmium as Cd	mg/l	<0.001
24.	Total Chromium as Cr	mg/l	<0.01
25.	Hexavalent Chromium	mg/l	<0.1
26.	Copper as Cu	mg/l	<0.01
27.	Zinc as Zn	mg/l	0.02
28.	Nickel as Ni	mg/l	<0.01
29.	Fluorides as F	mg/l	<0.01
30.	Vanadium as V	mg/l	<0.01
31.	Total Arsenic as As	mg/l	<0.01


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Ref: SVELC/ONGC-B/25-02/22

Date: 28-02-2025

NAME AND ADDRESS : M/s. OIL AND NATURAL GAS CORPORATION LTD LTD,
CBM Asset, 1st Floor, HSCL Building,
Naya More Bokaro Steel City,
Jharkhand-827001.

SAMPLE PARTICULARS : PRODUCED WATER

SOURCE OF COLLECTION : AFTER CARTIDGE

SITE NAME : GCS KHUDGADDA BOKARO

SAMPLE CODE : SVELC/25/978

DATE OF COLLECTION : 14-02-2025

TEST REPORT

S.NO	PARAMETER	UNIT	RESULT
1.	Temperature	°C	26.3
2.	pH	-	7.86
3.	Electrical Conductivity	µmhos	3895
4.	Total Dissolved Solids	mg/l	1432
5.	Total Alkalinity as CaCO ₃	mg/l	1986
6.	Calcium as Ca	mg/l	20.8
7.	Magnesium as Mg	mg/l	16.5
8.	Chlorides as Cl	mg/l	118
9.	Carbonates	mg/l	1432
10.	Bi-Carbonates	mg/l	NIL
11.	Iron as Fe	mg/l	<0.1
12.	Sodium as Na	mg/l	37.9
13.	Sulfate as SO ₄	mg/l	<1.0
14.	Oil & Grease	mg/l	<1.0
15.	Total Suspended Solids	mg/l	<1.0
16.	Chemical Oxidation Demand-COD	mg/l	<10.0
17.	Bio-Chemical Oxidation Demand-BOD (3days incubation at 27°C)	mg/l	<3.0
18.	Sulphide as S	mg/l	<0.1
19.	Phenolic Compounds as C ₆ H ₅ OH	mg/l	<0.05
20.	Cyanide as CN	mg/l	<0.02



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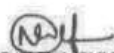
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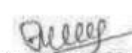
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21.	Lead as Pb	mg/l	<0.01
22.	Mercury as Hg	mg/l	<0.01
23.	Cadmium as Cd	mg/l	<0.001
24.	Total Chromium as Cr	mg/l	<0.01
25.	Hexavalent Chromium	mg/l	<0.1
26.	Copper as Cu	mg/l	<0.01
27.	Zinc as Zn	mg/l	0.09
28.	Nickel as Ni	mg/l	<0.01
29.	Fluorides as F	mg/l	<0.01
30.	Vanadium as V	mg/l	<0.01
31.	Total Arsenic as As	mg/l	<0.01


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Ref: SVELC/ONGC-B/25-02/23

Date: 28-02-2025

NAME AND ADDRESS : M/s. OIL AND NATURAL GAS CORPORATION LTD LTD,
CBM Asset, 1st Floor, HSCL Building,
Naya More Bokaro Steel City.
Jharkhand-827001.

SAMPLE PARTICULARS : PRODUCED WATER

SOURCE OF COLLECTION : BK#87

SITE NAME : GCS KHUDGADDA BOKARO

SAMPLE CODE : SVELC/25/979

DATE OF COLLECTION : 14-02-2025

TEST REPORT

S.NO	PARAMETER	UNIT	RESULT
1.	Temperature	⁰ C	26.2
2.	pH	-	7.13
3.	Electrical Conductivity	µmhos	1863
4.	Total Dissolved Solids	mg/l	1059
5.	Total Alkalinity as CaCO ₃	mg/l	862
6.	Calcium as Ca	mg/l	32.6
7.	Magnesium as Mg	mg/l	13.4
8.	Chlorides as Cl	mg/l	342
9.	Carbonates	mg/l	862
10.	Bi-Carbonates	mg/l	NIL
11.	Iron as Fe	mg/l	<0.1
12.	Sodium as Na	mg/l	117
13.	Sulfate as SO ₄	mg/l	<1.0
14.	Oil & Grease	mg/l	<1.0
15.	Total Suspended Solids	mg/l	2.0
16.	Chemical Oxidation Demand-COD	mg/l	<10.0
17.	Bio-Chemical Oxidation Demand-BOD (3days incubation at27 ⁰ C)	mg/l	<3.0
18.	Sulphide as S	mg/l	<0.1
19.	Phenolic Compounds as C ₆ H ₅ OH	mg/l	<0.05
20.	Cyanide as CN	mg/l	<0.02



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21.	Lead as Pb	mg/l	<0.01
22.	Mercury as Hg	mg/l	<0.01
23.	Cadmium as Cd	mg/l	<0.001
24.	Total Chromium as Cr	mg/l	<0.01
25.	Hexavalent Chromium	mg/l	<0.1
26.	Copper as Cu	mg/l	<0.01
27.	Zinc as Zn	mg/l	0.07
28.	Nickel as Ni	mg/l	<0.01
29.	Fluorides as F	mg/l	<0.01
30.	Vanadium as V	mg/l	<0.01
31.	Total Arsenic as As	mg/l	<0.01

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Ref: SVELC/ONGC-B/25-02/24

Date: 28-02-2025

NAME AND ADDRESS : M/s. OIL AND NATURAL GAS CORPORATION LTD LTD,
CBM Asset, 1st Floor, HSCL Building,
Naya More Bokaro Steel City.
Jharkhand-827001.

SAMPLE PARTICULARS : PRODUCED WATER

SOURCE OF COLLECTION : COMMON PRODUCED WATER

SITE NAME : GCS KHUDGADDA BOKARO

SAMPLE CODE : SVELC/25/980

DATE OF COLLECTION : 14-02-2025

TEST REPORT

S.NO	PARAMETER	UNIT	RESULT
1.	Temperature	⁰ C	26.7
2.	pH	-	7.51
3.	Electrical Conductivity	μmhos	2493
4.	Total Dissolved Solids	mg/l	1521
5.	Total Alkalinity as CaCO ₃	mg/l	2031
6.	Calcium as Ca	mg/l	38.3
7.	Magnesium as Mg	mg/l	14.1
8.	Chlorides as Cl	mg/l	134
9.	Carbonates	mg/l	2031
10.	Bi-Carbonates	mg/l	NIL
11.	Iron as Fe	mg/l	<0.1
12.	Sodium as Na	mg/l	63.9
13.	Sulfate as SO ₄	mg/l	<1.0
14.	Oil & Grease	mg/l	<1.0
15.	Total Suspended Solids	mg/l	2.0
16.	Chemical Oxidation Demand-COD	mg/l	<10.0
17.	Bio-Chemical Oxidation Demand-BOD (3days incubation at 27 ⁰ C)	mg/l	<3.0
18.	Sulphide as S	mg/l	<0.1
19.	Phenolic Compounds as C ₆ H ₅ OH	mg/l	<0.05
20.	Cyanide as CN	mg/l	<0.02



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21.	Lead as Pb	mg/l	<0.01
22.	Mercury as Hg	mg/l	<0.01
23.	Cadmium as Cd	mg/l	<0.001
24.	Total Chromium as Cr	mg/l	<0.01
25.	Hexavalent Chromium	mg/l	<0.1
26.	Copper as Cu	mg/l	<0.01
27.	Zinc as Zn	mg/l	0.07
28.	Nickel as Ni	mg/l	<0.01
29.	Fluorides as F	mg/l	<0.01
30.	Vanadium as V	mg/l	<0.01
31.	Total Arsenic as As	mg/l	<0.01

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Ref: SVELC/ONGC-B/25-02/25

Date: 28-02-2025

NAME AND ADDRESS : **M/s. OIL AND NATURAL GAS CORPORATION LTD LTD,**
CBM Asset, 1st Floor, HSCL Building,
Naya More Bokaro Steel City.
Jharkhand-827001.

SAMPLE PARTICULARS : **PRODUCED WATER**

SOURCE OF COLLECTION : RO PERMEATE

SITE NAME : GCS KHUDGADDA BOKARO

SAMPLE CODE : SVELC/25/982

DATE OF COLLECTION : 14-02-2025

TEST REPORT

S.NO	PARAMETER	UNIT	RESULT
1.	Temperature	°C	26.2
2.	pH	-	7.32
3.	Electrical Conductivity	µmhos	2163
4.	Total Dissolved Solids	mg/l	1321
5.	Total Alkalinity as CaCO ₃	mg/l	1833
6.	Calcium as Ca	mg/l	38.3
7.	Magnesium as Mg	mg/l	11.9
8.	Chlorides as Cl	mg/l	93.6
9.	Carbonates	mg/l	1833
10.	Bi-Carbonates	mg/l	NIL
11.	Iron as Fe	mg/l	<0.1
12.	Sodium as Na	mg/l	36.2
13.	Sulfate as SO ₄	mg/l	<1.0
14.	Oil & Grease	mg/l	<1.0
15.	Total Suspended Solids	mg/l	5.0
16.	Chemical Oxidation Demand-COD	mg/l	<10.0
17.	Bio-Chemical Oxidation Demand-BOD (3days incubation at 27°C)	mg/l	<3.0
18.	Sulphide as S	mg/l	<0.1
19.	Phenolic Compounds as C ₆ H ₅ OH	mg/l	<0.05
20.	Cyanide as CN	mg/l	<0.02



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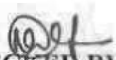
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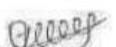
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21.	Lead as Pb	mg/l	<0.01
22.	Mercury as Hg	mg/l	<0.01
23.	Cadmium as Cd	mg/l	<0.001
24.	Total Chromium as Cr	mg/l	<0.01
25.	Hexavalent Chromium	mg/l	<0.1
26.	Copper as Cu	mg/l	<0.01
27.	Zinc as Zn	mg/l	0.16
28.	Nickel as Ni	mg/l	<0.01
29.	Fluorides as F	mg/l	<0.01
30.	Vanadium as V	mg/l	<0.01
31.	Total Arsenic as As	mg/l	<0.01


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Ref: SVEL/ONGC-B/25-02/01

Date: 28-02-2025

NAME AND ADDRESS : M/s. OIL AND NATURAL GAS CORPORATION LTD LTD,
CBM Asset, 1st Floor, HSCL Building,
Naya More Bokaro Steel City,
Jharkhand-827001.

SAMPLE PARTICULARS : NOISE LEVELS

SOURCE OF COLLECTION : Near Air Compressor Shed Area

LOCATION : BOKARO (GCS Khudgadda)

DATE OF COLLECTION : 13-02-2025

TEST REPORT

Period	Hrs	dB (A)	Leq Day dB (A)	Leq Night dB (A)
Day	6.00	64.2	67.7	60.5
	7.00	65.9		
	8.00	63.8		
	9.00	67.2		
	10.00	66.2		
	11.00	69.2		
	12.00	70.4		
	13.00	70.1		
	14.00	69.4		
	15.00	68.3		
	16.00	70.1		
	17.00	69.3		
	18.00	68.2		
	19.00	70.2		
Night	20.00	66.2		
	21.00	66.1		
	22.00	66.8		
	23.00	65.7		
	24.00	60.1		
	1.00	59.3		
	2.00	56.2		
	3.00	59.4		
	4.00	60.8		
	5.00	61.7		
CPCB STANDARDS				
RESIDENTIAL AREA			55	45
INDUSTRIAL AREA			75	70



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Ref: SVEL/ONGC-B/25-02/02

Date: 28-02-2025

NAME AND ADDRESS : M/s. OIL AND NATURAL GAS CORPORATION LTD LTD,
CBM Asset, 1st Floor, HSCL Building,
Naya More Bokaro Steel City.
Jharkhand-827001.

SAMPLE PARTICULARS : NOISE LEVELS

SOURCE OF COLLECTION : Near GG Room Area

LOCATION : BOKARO (GCS Khudgadda)

DATE OF COLLECTION : 13-02-2025

TEST REPORT

Period	Hrs	dB (A)	Leq Day dB (A)	Leq Night dB (A)
Day	6.00	67.3	68.4	63.4
	7.00	68.4		
	8.00	69.2		
	9.00	65.4		
	10.00	68.4		
	11.00	69.2		
	12.00	68.4		
	13.00	70.8		
	14.00	71.5		
	15.00	70.7		
	16.00	69.8		
	17.00	69.4		
	18.00	66.3		
	19.00	65.4		
Night	20.00	67.8		
	21.00	68.1		
	22.00	67.3		
	23.00	65.7		
	24.00	64.3		
	1.00	63.5		
	2.00	62.8		
CPCB STANDARDS	3.00	61.3		
	4.00	62.4		
	5.00	63.7		
RESIDENTIAL AREA			55	45
INDUSTRIAL AREA			75	70



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Ref: SVEL/ONGC-B/25-02/03

Date: 28-02-2025

NAME AND ADDRESS : M/s. OIL AND NATURAL GAS CORPORATION LTD LTD,
CBM Asset, 1st Floor, HSCL Building,
Naya More Bokaro Steel City,
Jharkhand-827001.

SAMPLE PARTICULARS : NOISE LEVELS

SOURCE OF COLLECTION : Near Control Room Area

LOCATION : BOKARO (GCS Khudgadda)

DATE OF COLLECTION : 13-02-2025

TEST REPORT

Period	Hrs	dB (A)	Leq Day dB (A)	Leq Night dB (A)
Day	6.00	63.2	64.4	58.6
	7.00	64.1		
	8.00	65.9		
	9.00	66.4		
	10.00	65.2		
	11.00	61.8		
	12.00	64.5		
	13.00	64.3		
	14.00	63.1		
	15.00	64.8		
	16.00	65.1		
	17.00	63.4		
	18.00	64.2		
	19.00	65.7		
Night	20.00	64.3		
	21.00	62.8		
	22.00	65.4		
	23.00	63.7		
	24.00	59.4		
	1.00	54.2		
	2.00	51.6		
CPCB STANDARDS	3.00	53.2		
	4.00	55.7		
	5.00	58.1		
RESIDENTIAL AREA			55	45
INDUSTRIAL AREA			75	70



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(ENVIRONMENTAL ENGINEERS & CONSULTANTS IN POLLUTION CONTROL)

Corporate Office & Laboratory : Enviro House, B-1, Block-B, IDA Autonagar, Visakhapatnam-530012

Hyderabad Office: #402, SaiKrishna Villa, Behind CMR Shopping Mall, AS Raju Nagar, Kukatpally, Hyderabad-500072

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Ref: SVEL/ONGC-B/25-02/04

Date: 28-02-2025

NAME AND ADDRESS : M/s. OIL AND NATURAL GAS CORPORATION LTD LTD,
CBM Asset, 1st Floor, HSCL Building,
Naya More Bokaro Steel City,
Jharkhand-827001.

SAMPLE PARTICULARS : NOISE LEVELS

SOURCE OF COLLECTION : Near Main gate Area

LOCATION : BOKARO (GCS Khudgadda)

DATE OF COLLECTION : 13-02-2025

TEST REPORT

Period	Hrs	dB (A)	Leq Day dB (A)	Leq Night dB (A)
Day	6.00	67.2	69.4	61.2
	7.00	68.1		
	8.00	70.2		
	9.00	71.3		
	10.00	69.2		
	11.00	70.1		
	12.00	69.4		
	13.00	68.6		
	14.00	67.2		
	15.00	69.3		
	16.00	67.3		
	17.00	72.4		
	18.00	69.4		
	19.00	71.8		
	20.00	70.3		
	21.00	69.6		
	22.00	68.4		
Night	23.00	65.3		
	24.00	63.7		
	1.00	62.8		
	2.00	58.9		
	3.00	60.1		
	4.00	61.9		
	5.00	55.6		
CPCB STANDARDS				
RESIDENTIAL AREA			55	45
INDUSTRIAL AREA			75	70



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Ref: SVEL/ONGC-B/25-02/05

Date: 28-02-2025

NAME AND ADDRESS : M/s. OIL AND NATURAL GAS CORPORATION LTD LTD,
CBM Asset, 1st Floor, HSCL Building,
Naya More Bokaro Steel City,
Jharkhand-827001.

SAMPLE PARTICULARS : NOISE LEVELS

SOURCE OF COLLECTION : Near Low Pressure Compressor Area

LOCATION : BOKARO (GCS Khudgadda)

DATE OF COLLECTION : 13-02-2025

TEST REPORT

Period	Hrs	dB (A)	Leq Day dB (A)	Leq Night dB (A)
Day	6.00	65.7	68.1	60.9
	7.00	67.6		
	8.00	68.1		
	9.00	70.4		
	10.00	70.9		
	11.00	69.2		
	12.00	67.1		
	13.00	65.9		
	14.00	63.4		
	15.00	65.4		
	16.00	67.8		
	17.00	70.2		
	18.00	71.6		
	19.00	70.2		
	20.00	69.8		
	21.00	67.3		
Night	22.00	67.1		
	23.00	64.9		
	24.00	63.4		
	1.00	60.8		
	2.00	58.9		
	3.00	56.7		
	4.00	59.1		
	5.00	62.6		
CPCB STANDARDS				
RESIDENTIAL AREA			55	45
INDUSTRIAL AREA			75	70



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Ref: SVEL/ONGC-B/25-02/06

Date: 28-02-2025

NAME AND ADDRESS

M/s. OIL AND NATURAL GAS CORPORATION LTD LTD,
CBM Asset, 1st Floor, HSCL Building,
Naya More Bokaro Steel City,
Jharkhand-827001.

SAMPLE PARTICULARS

NOISE LEVELS

SOURCE OF COLLECTION

Far Low Pressure Compressor Area

LOCATION

BOKARO (GCS Khudgadda)

DATE OF COLLECTION

13-02-2025

TEST REPORT

Period	Hrs	dB (A)	Leq Day dB (A)	Leq Night dB (A)
Day	6.00	65.7	67.4	60.5
	7.00	66.9		
	8.00	67.2		
	9.00	69.6		
	10.00	67.4		
	11.00	65.8		
	12.00	68.1		
	13.00	71.6		
	14.00	73.4		
	15.00	70.8		
	16.00	67.2		
	17.00	69.4		
	18.00	66.4		
	19.00	64.8		
Night	20.00	65.9		
	21.00	63.4		
	22.00	62.7		
	23.00	61.9		
	24.00	60.7		
	1.00	59.8		
	2.00	58.6		
CPCB STANDARDS	3.00	60.4		
	4.00	59.1		
	5.00	62.8		
RESIDENTIAL AREA			55	45
INDUSTRIAL AREA			75	70



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Ref: SVEL/ONGC-B/25-02/07

Date: 28-02-2025

NAME AND ADDRESS : M/s. OIL AND NATURAL GAS CORPORATION LTD LTD,
CBM Asset, 1st Floor, HSCL Building,
Naya More Bokaro Steel City,
Jharkhand-827001.

SAMPLE PARTICULARS : NOISE LEVELS

SOURCE OF COLLECTION : Near High Pressure Compressor Area

LOCATION : BOKARO (GCS Khudgadda)

DATE OF COLLECTION : 13-02-2025

TEST REPORT

Period	Hrs	dB (A)	Leq Day dB (A)	Leq Night dB (A)
Day	6.00	64.8	68.8	64.4
	7.00	66.1		
	8.00	65.7		
	9.00	68.3		
	10.00	70.4		
	11.00	72.8		
	12.00	73.1		
	13.00	71.6		
	14.00	72.4		
	15.00	70.8		
	16.00	69.4		
	17.00	67.2		
	18.00	70.3		
	19.00	68.1		
	20.00	66.9		
	21.00	67.1		
Night	22.00	65.3		
	23.00	66.9		
	24.00	63.4		
	1.00	61.5		
	2.00	63.7		
	3.00	65.1		
	4.00	63.9		
CPCB STANDARDS	5.00	66.4		
RESIDENTIAL AREA			55	45
INDUSTRIAL AREA			75	70



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Ref: SVEL/ONGC-B/25-02/08

Date: 28-02-2025

NAME AND ADDRESS : M/s. OIL AND NATURAL GAS CORPORATION LTD LTD,
CBM Asset, 1st Floor, HSCL Building,
Naya More Bokaro Steel City,
Jharkhand-827001.

SAMPLE PARTICULARS : NOISE LEVELS

SOURCE OF COLLECTION : Far High Pressure Compressor Area

LOCATION : BOKARO (GCS Khudgadda)

DATE OF COLLECTION : 13-02-2025

TEST REPORT

Period	Hrs	dB (A)	Leq Day dB (A)	Leq Night dB (A)
Day	6.00	65.3	69.4	63.7
	7.00	67.2		
	8.00	65.1		
	9.00	70.2		
	10.00	72.4		
	11.00	71.8		
	12.00	71.3		
	13.00	70.9		
	14.00	69.4		
	15.00	70.2		
	16.00	71.8		
	17.00	71.4		
	18.00	69.6		
	19.00	70.3		
Night	20.00	68.4		
	21.00	67.9		
	22.00	66.7		
	23.00	67.8		
	24.00	65.4		
	1.00	64.3		
	2.00	63.8		
CPCB STANDARDS	3.00	61.9		
	4.00	59.2		
	5.00	63.7		
RESIDENTIAL AREA			55	45
INDUSTRIAL AREA			75	70



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Ref: SVEL/ONGC-B/25-02/09

Date: 28-02-2025

NAME AND ADDRESS : M/s. OIL AND NATURAL GAS CORPORATION LTD LTD,
CBM Asset, 1st Floor, HSCL Building,
Naya More Bokaro Steel City,
Jharkhand-827001.

SAMPLE PARTICULARS : NOISE LEVELS

SOURCE OF COLLECTION : Near Emergency Exit Site Area

LOCATION : BOKARO (GCS Khudgadda)

DATE OF COLLECTION : 13-02-2025

TEST REPORT

Period	Hrs	dB (A)	Leq Day dB (A)	Leq Night dB (A)
Day	6.00	63.4	66.6	63.8
	7.00	64.9		
	8.00	64.7		
	9.00	70.2		
	10.00	69.1		
	11.00	66.8		
	12.00	68.7		
	13.00	65.3		
	14.00	66.7		
	15.00	64.2		
	16.00	66.9		
	17.00	67.8		
	18.00	68.4		
	19.00	66.3		
	20.00	67.2		
	21.00	66.9		
	22.00	65.4		
Night	23.00	64.2		
	24.00	64.7		
	1.00	62.9		
	2.00	63.1		
	3.00	63.8		
	4.00	64.2		
	5.00	63.4		
CPCB STANDARDS				
RESIDENTIAL AREA			55	45
INDUSTRIAL AREA			75	70



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Ref: SVEL/ONGC-B/25-02/10

Date: 28-02-2025

NAME AND ADDRESS : **M/s. OIL AND NATURAL GAS CORPORATION LTD LTD,**
CBM Asset, 1st Floor, HSCL Building,
Naya More Bokaro Steel City.
Jharkhand-827001.

SAMPLE PARTICULARS : **NOISE LEVELS**

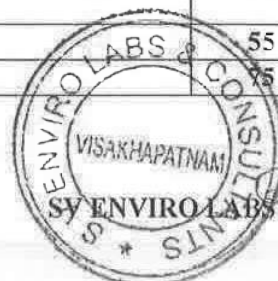
SOURCE OF COLLECTION : Near Fire Water Pump Site Area

LOCATION : BOKARO (GCS Khudgadda)

DATE OF COLLECTION : 13-02-2025

TEST REPORT

Period	Hrs	dB (A)	Leq Day dB (A)	Leq Night dB (A)
Day	6.00	68.2	69.1	64.9
	7.00	67.1		
	8.00	69.4		
	9.00	70.5		
	10.00	70.8		
	11.00	69.0		
	12.00	71.2		
	13.00	69.4		
	14.00	68.4		
	15.00	67.3		
	16.00	68.4		
	17.00	70.8		
	18.00	69.2		
	19.00	70.4		
	20.00	68.3		
	21.00	67.8		
	22.00	68.9		
Night	23.00	65.4		
	24.00	66.2		
	1.00	64.3		
	2.00	63.2		
	3.00	65.7		
	4.00	65.9		
	5.00	63.4		
CPCB STANDARDS				
RESIDENTIAL AREA			55	45
INDUSTRIAL AREA			75	70



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Ref: SVEL/ONGC-B/25-02/11

Date: 28-02-2025

NAME AND ADDRESS : M/s. OIL AND NATURAL GAS CORPORATION LTD LTD,
CBM Asset, 1st Floor, HSCL Building,
Naya More Bokaro Steel City,
Jharkhand-827001.

SAMPLE PARTICULARS : NOISE LEVELS

SOURCE OF COLLECTION : Far Fire Water Pump Site Area

LOCATION : BOKARO (GCS Khudgadda)

DATE OF COLLECTION : 13-02-2025

TEST REPORT

Period	Hrs	dB (A)	Leq Day dB (A)	Leq Night dB (A)
Day	6.00	67.2	68.7	62.8
	7.00	68.4		
	8.00	70.5		
	9.00	69.4		
	10.00	67.3		
	11.00	70.5		
	12.00	73.4		
	13.00	71.5		
	14.00	69.8		
	15.00	67.6		
	16.00	68.4		
	17.00	70.5		
	18.00	69.1		
	19.00	68.4		
	20.00	66.7		
	21.00	65.8		
Night	22.00	64.2		
	23.00	63.2		
	24.00	65.7		
	1.00	62.1		
	2.00	60.8		
	3.00	59.8		
	4.00	62.4		
	5.00	65.3		
CPCB STANDARDS				
RESIDENTIAL AREA			55	45
INDUSTRIAL AREA			75	70



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Ref: SVELC/ONGC-B/25-02/30

Date: 28-02-2025

NAME AND ADDRESS : M/s. OIL AND NATURAL GAS CORPORATION LTD LTD,
CBM Asset, 1st Floor, HSCL Building,
Naya More Bokaro Steel City,
Jharkhand-827001.

SAMPLE PARTICULARS : GROUND WATER

SOURCE OF COLLECTION : KHUDGUDDA VILLAGE

SITE NAME : BOKARO

SAMPLE CODE : SVELC/25/986

DATE OF COLLECTION : 13-02-2025

TEST REPORT

S.NO	PARAMETER	UNIT	RESULT
1.	Temperature	^o C	26.2
2.	pH	-	7.31
3.	Electrical Conductivity	μmhos	1286
4.	Total Dissolved Solids	mg/l	767
5.	Total Alkalinity as CaCO ₃	mg/l	376
6.	Calcium as Ca	mg/l	120
7.	Magnesium as Mg	mg/l	61.2
8.	Chlorides as Cl	mg/l	156
9.	Carbonates	mg/l	376
10.	Bi-Carbonates	mg/l	NIL
11.	Iron as Fe	mg/l	<0.01
12.	Sodium as Na	mg/l	137
13.	Sulfate as SO ₄	mg/l	35.2
14.	Oil & Grease	mg/l	<1.0
15.	Total Suspended Solids	mg/l	9.0
16.	Chemical Oxidation Demand-COD	mg/l	<10.0
17.	Bio-Chemical Oxidation Demand-BOD (3days incubation at 27 ^o C)	mg/l	<3.0
18.	Sulphide as S	mg/l	<0.1
19.	Phenolic Compounds as C ₆ H ₅ OH	mg/l	<0.05
20.	Cyanide as CN	mg/l	<0.02



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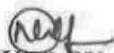
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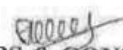
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21.	Lead as Pb	mg/l	<0.01
22.	Mercury as Hg	mg/l	<0.01
23.	Cadmium as Cd	mg/l	<0.001
24.	Total Chromium as Cr	mg/l	<0.01
25.	Hexavalent Chromium	mg/l	<0.1
26.	Copper as Cu	mg/l	<0.01
27.	Zinc as Zn	mg/l	0.08
28.	Nickel as Ni	mg/l	<0.01
29.	Fluorides as F	mg/l	0.73
30.	Vanadium as V	mg/l	<0.01
31.	Total Arsenic as As	mg/l	<0.01

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MOEF F. No: LB/99/7/2021-INST LAB-HO-CPCB-HO/Pvt./1940

VALIDITY: 27-12-2027

Ref: SVEL/ONGC-B/25-02/02

Date: 27-02-2025

NAME AND ADDRESS : M/s. OIL AND NATURAL GAS CORPORATION LTD LTD,
CBM Asset, 1st Floor, HSCL Building,
Naya More Bokaro Steel City.
Jharkhand-827001.

SAMPLE PARTICULARS : CBM GAS

SOURCE OF COLLECTION : GCS-KOD, GCS KHUDGADDA.

SITE NAME : BOKARO

DATE OF COLLECTION : 13-02-2025

DATE OF TESTING : 27-02-2025

TEST REPORT

S.No.	PARAMETER	UNIT	RESULT	METHOD
1.	Hydrogen sulfide as H ₂ S	mg/m ³	BDL(DL=0.69)	USEPA Method 15
2.	Mercury as Hg	mg/m ³	BDL(DL=0.01)	USEPA Method 29
3.	Oxygen as O ₂	%	<0.1	Portable Analyzer
4.	Total Sulphur	mg/m ³	8.2	Gas chromatography

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MOEF F. No: LB/99/7/2021-INST LAB-HO-CPCB-HO/Pvt./1940

VALIDITY: 27-12-2027

Ref: SVEL/ONGC-B/25-02/03

Date: 27-02-2025

NAME AND ADDRESS : M/s. OIL AND NATURAL GAS CORPORATION LTD LTD,
CBM Asset, 1st Floor, HSCL Building,
Naya More Bokaro Steel City,
Jharkhand-827001.

SAMPLE PARTICULARS : CBM GAS

SOURCE OF COLLECTION : CTM-GCS KHUDGADDA

SITE NAME : BOKARO

DATE OF COLLECTION : 13-02-2025

DATE OF TESTING : 27-02-2025

TEST REPORT

S.No.	PARAMETER	UNIT	RESULT	METHOD
1.	Hydrogen sulfide as H ₂ S	mg/m ³	BDL(DL=0.69)	USEPA Method 15
2.	Mercury as Hg	mg/m ³	BDL(DL=0.01)	USEPA Method 29
3.	Oxygen as O ₂	%	<0.1	Portable Analyzer
4.	Total Sulphur	mg/m ³	5.1	Gas chromatography

CHECKED BY



SV ENVIRO LABS & CONSULTANTS

CSR Projects in Bokaro district for FY 2024-25			
Sl. No	Project Name	AREA	Project Cost
1	Financial Assistance for Providing Smart Computer Lab for the Students of Tenughat Maha Vidyalaya, Tenughat, Gomia, Bokaro District	GOMIA	₹ 14,82,075.00
2	70 Solar Light at Siyari Panchayat ,Gomia ,Bokaro	GOMIA	₹ 14,89,110.00
3	70 Solar Light at Hazari ,Gomia ,Bokaro	GOMIA	₹ 14,89,110.00
4	Renovation of Community pond and Construction of Bath ghat at Bhuiyan Tola , Siyari Panchayat , Bokaro	GOMIA	₹ 13,07,865.00
5	Solar based Deep Bore well at Dhendhe village of Gomia Block , Bokaro	GOMIA	₹ 7,80,428.00
6	Financial Assistance for toilet complex with based deep based deep bore well at middle school Gomadih , Gomia	GOMIA	₹ 16,44,198.00
7	Financial Assistance for construction of community hall for the villagers of Devipur, Hosir West	GOMIA	₹ 9,62,504.00
8	Financial Assistance for solar based deep borewell facility of 5000 L at village Udda , Siyari, Gomia	GOMIA	₹ 8,12,142.00
9	Financial assistance for solar based deep borewell at Devipur village of Gomia, Hosir west	GOMIA	₹ 8,26,247
10	Financial Assistance for solar based deep borewell at Chandubar village of Gomia, Saram East	GOMIA	₹ 8,12,142.00
11	Financial assistance for solar based deep borewell at Pagaria tola, sadam panchayat, gomia, Block	GOMIA	₹ 8,12,142.00
12	Financial assistance for solar based borewell for the villagers of muslim tola, Palani Bandh panchayat, Gomia Block, Bokaro	GOMIA	₹ 14,51,009
13	Financial Assistance for beautification of courtyard of Baba Sahed Dr. Bhima Rao Ambedkar	GOMIA	₹ 7,49,250
14	Financial Assistance for providing 1000 nos of Antiserum Snake Venom to Ardeer Hospital Trust,Gomia	GOMIA	₹ 8,61,000
15	Financial assistance for establishment of Dr Bhimrao Ambedkar's idol in Gaimajurwa, Ganjudihbasti of Hazri panchayat, Gomia,Bokaro	GOMIA	₹ 7,88,085
16	Financial Assistance for providing drinking water facility at Kodwatad Village of Lalpaniya Panchayat of Gomia	GOMIA	₹ 8,52,749
17	Financial Assistance for providing drinking water faciilty at Sarhachiya Panchayat, Tenughat	GOMIA	₹ 8,52,749

18	Financial Assistance for construction of toilet with solar based drinking water facility at Utkramit Madhya Vidyalaya , Saram East, Lalbandh, Gomia, Bokaro	GOMIA	₹17,26,406
19	Financial Assistance fpr Science Lab equipments for Masi Marsal School,Kajarkilo,Gomia(Under Component Plan 2024 25)	GOMIA	₹ 5,16,748
20	Financial Assistance for procurement of 12Nos of computer at Masi Marsal School.Patki,Petarwar,Gomia	GOMIA	₹ 4,66,200
Total			₹ 1,54,79,222.00

CSR Projects in Bokaro district for FY 2024-25			
S. n o.	Project Name	AREA	Project Cost
1	Construction of two rooms at Ucch Vidyalaya Talgharia , Chandankiyari Block Bokaro	Jharia	₹ 16,77,844
2	Financial assistance for shamshan shed and chabutra in Nayavan Panchayat at Chandankiyari Block, Bokaro	Jharia	₹ 5,79,365
3	Financial assistance for Tree Plantation Drive in the schools premises of Chandankiyari Block & Chas of Bokaro District	Jharia	₹ 6,40,500
4	Financial assistance for Construction of Samshan Ghat & Shed for the Villagers of Mahal Purbhi Panchayat, Chandankiyari block of Bokaro	Jharia	₹ 5,27,808.00
5	Solar Deep Borewell at Chandankiyari Block ,Nayavan Panchayt, Bokaro	Jharia	₹ 8,26,600
6	Financial assistance for construction and renovation of Dwarik bandh,Dibardha , Nayavan Panchayat, Bokaro	Jharia	₹ 12,68,837.00
7	Financial assistance for construction of toilet complex with solar based deep borewell at Utkramit Madhya Vidyalaya , Nayavn , Chandankiyari Block	Jharia	₹ 14,52,544.00
8	Financial Assistance towards Renovation of Ghatbandhi Pond for the villagers of Nayaban Panchayat , Chandankiyari , Bokaro	Jharia	₹ 15,27,000.00
9	Pond Renovation and Constriction for Gadiya Talab Location: Village– Talgadia (Near Hari Mandir) Chandankiyari ,bokaro	Jharia	₹ 25,62,821
10	Financial Assistance for equipping two band parties at Shilfore village	Jharia	₹ 3,17,430

Modi to visit Iran this month to boost ties

New Delhi: Prime Minister Narendra Modi will embark on a visit to Iran this month with an aim to bolster overall bilateral ties with the Persian Gulf nation in a range of areas including energy, trade and investment and connectivity.

TIMESCLASSIFIEDS

FOR BOOKINGS CONTACT:

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Refund fees: UGC

New Delhi:

The UGC has

said it has re-

ceived com-

plaints that

colleges collect

in advance full

fee from stu-

dents who have

to forfeit it even

if they don't join

and asked insti-

tutions to follow

the norms in a

letter to Vice

Chancellors,

UGC Secretary

Jaspal S Sandhu

said there were

com-

plaints that insti-

tutions also retain

the original cer-

tificates of candi-

dates. The

University

Grants Commis-

sion (UGC), in its

letter, referred

to a public notice

issued by it in

2007 in which

it had asked

that retaining

original certificates

and forcing

retention of ad-

mitted stu-

dents limited the

opportunity of

candidates to

join other insti-

tutions. It had

asked insti-

tutions to main-

tain a waiting

list of students

who choose

not to join,

admit the next

in free while de-

clining to pro-

cessing fees of

not more than

Rs 1,000 and re-

fund the rest

amount. ■

TELEPHONICALLY RADICAL AGAIN

How An Aspiring Dancer Was Radicalised Into Giving Up 'Sinfu' Activities

Refugee fees: UGC

New Delhi:

If fate hadn't

taken a crucial

turn in his life,

Sajid, the main

suspect in the

aborted Jaish-e-

Mohammed

terror strike on

Hindon

airbase, would

probably have

made a living as

a dancer. He

remembered how

as a 20-

something some

years ago he

had auditioned

for a dance

show and had

been selected,

expecting to

get selected, he

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The inflammatory

contents of the

site led Sajid to

believe that a

major portion

of the Quran taught

people to "kill

for the sake of

religion". An

infringed Sajid

thought books and

downloaded

files in his room

and had a

conversation

with a man

who had a

beard and a

mustache. He

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शुद्धता



ONGC

OIL AND NATURAL GAS CORPORATION LTD.

CBM Asset, HSC Building, First Floor,

Nayamare, Bokaro-827001

Phone No.: 06543-236667, Fax No.: 06543-236666

ENVIRONMENTAL CLEARANCE

ONGC is pleased to inform the people of Jharkhand State that Ministry of Environment and Forests, Govt. of India, New Delhi has granted environmental clearance for development in Bokaro CBM Block, located in Bokaro and Ramgarh district of Jharkhand State.

The copies of clearance letter are available with Jharkhand State Pollution Control Board and may also be seen at the website of Ministry of Environment and Forests at <http://envfor.nic.in>

S.M.K. Hayat, Asset Manager
CBM Asset, ONGC

ओएनजीसी



ONGC

आयन एण्ड नैचुरल गैस कॉर्पोरेशन लि.

मोन्टेगुम एसेट, एचएमएमएल जॉइंटल, ग्रुपम हाउस,

नयागढ़, गोरखपुर - 221001

फोन नं.: 05543-226667, फैक्स नं.: 05543-226666

पर्यावरणीय अनुमति

ओएनजीसी की ओर से झारखण्ड राज्य के लोगों को सहज सूचित किया जाता है कि पर्यावरण एवं वन मंत्रालय, भारत सरकार, नई दिल्ली द्वारा झारखण्ड राज्य के बोकारो और रामगढ़ जिले में स्थित बोकारो मोन्टेगुम प्लांट में विकास हेतु पर्यावरणीय अनुमति प्राप्त हो चुकी है।

अनुमति पत्र की प्रतिलिपियाँ झारखण्ड राज्य प्रदूषण नियंत्रण बोर्ड के पास उपलब्ध हैं और पर्यावरण एवं वन मंत्रालय की वेबसाइट <http://envfor.nlc.in> पर भी देखी जा सकती है।

एस.एन.के, इयात, परिसंपत्ति प्रबंधक
मोन्टेगुम एसेट, ओएनजीसी

Form-V
(SEE RULE 14)

Environmental Statement for the Financial Year ending the 31ST March 2024
(1ST April 2023 to 31ST March 2024)

Part- A

1.	Name and Address of the Owner/ Occupier of the Industry Operation or Process	Sh. Aditya Johri Asset Manager ONGC, CBM Asset, Bokaro
2.	Industry Category: Primary (STC Code); Secondary (SIC Code)	RED
3.	Production Capacity	CBM Gas- 0.75 MMSCM
4.	Year of Establishment	QPS Parbatpur : 2009 GCS Khudgadda: 2023
5.	Date of the last environmental statement submitted	05.12.2023

Part-B

Water and Raw Material Consumption

1. Water Consumption (in m³ for the entire duration)
 - a. Industrial and other: 28 KL/D
 - b. Domestic: 11 KL/D

Name of Product	Process Water Consumption Per Unit Of Product Output	
	During previous Financial year 2021-22	During this Financial year 2022-23
CBM	Approx 800 m3/well	Approx 800 m3/well

2. Raw material consumption: **Not Applicable**

Name of raw materials*	Name of Products	Consumption of raw material per unit of output	
		During the previous financial year	During the current financial year
Not Applicable			

*Industry may use codes if disclosing details of raw material would violate contractual obligations, otherwise all industries have to name the raw materials used.

Part- C

Pollution discharged to environment/unit of output
(Parameter as specified in the consent issued)

- (a) Water: The produced water generated is around 40m³/day. The produced water is found to be of good quality with exception of Sodium which will be treated through RO at GCS, Khudgadha. Produced water is also used for industrial purposes. Test reports of produced water enclosed at **Annexure- I**.
- (b) Air: Ambient Air Quality Monitoring of various installations/rigs is attached as **Annexure- II**.

- (c) Noise: Noise Level Monitoring at production installations is attached as **Annexure-III**.

PART-D

HAZARDOUS WASTES

(As specified under Hazardous & Other Wastes (Management & Transboundary Movement Rules, 2016)

Hazardous Wastes	Total Quantity (Kg)	
	During the previous financial year	During the current financial year
1. From Process -		
Spent Oil (m ³)	6.247	7.1
Cotton (Kg)	161.5	70
2. From Pollution Control Facilities	NA	NA

PART-E

SOLID WASTES

Solid Wastes	Total Quantity (Kg)	
	During the previous financial year	During the current financial year
Drill Cuttings	790 Tonnes	1456.9 Tonnes
Drill Mud	2900 m ³	3150 m ³

PART- F

Please specify the characteristics (in terms of concentration and quantum) of hazardous as well as solid wastes and indicate disposal practice adopted for both these categories of wastes.

- I. Recovery of oil is not applicable as it is a gas based project.
- II. Burnt oil sent for disposal/recycle through authorized vendors.
- III. Cotton waste being generated is being utilized at the time of fire mock drills frequently conducted at well sites and installations.
- IV. Other solid waste like Drill cuttings are Drill mud are processed as per the GSR 546.

PART-G

Impact of the pollution control measures taken on conservation of natural resources and consequently on the cost of production: Pollution control measures have virtuous cyclical relation with the natural resource conservation and subsequently lowers the cost of production while at the same time positively impacting the society and environment leading to sustainable development.

PART-H

Additional measures/investment proposal for environmental protection including abatement of pollution.

- I. Environmental monitoring (ambient air, ground water, sound level and stack emissions) at Rigs and installations by PCBA authorized agencies (please refer analysis reports as attached Annexures).
- II. Acoustic enclosures provided for DG sets.
- III. Other solid waste, as specified, are handled as per the GSR 546 standards.

PART I

MISCELLANEOUS: Any other particulars in respect of environmental protection and abatement of pollution.

- I. Plantation was done as part of CSR activities.
- II. It has been a practice of presenting plant as a green memoir.
- III. Programmes like World Environment Day Celebration, training on environmental issues were undertaken to create awareness about environment.
- IV. Encouraging Paperless office by use of DISHA for movement of files and ONGC mail for correspondence.


(Barnali Das)
GGM(P)-Head HSE

फॉर्म-V
(नियम 14 देखें)

31 मार्च 2024 को समाप्त वित्तीय वर्ष के लिए पर्यावरणीय विवरण
(1 अप्रैल 2023 से 31 मार्च 2024)

भाग- ए

1.	उद्योग संचालन या प्रक्रिया के मालिक/अधिभोगी का नाम और पता	श्री श्री. आदित्य जौहरी आस्ति प्रबंधक ओएनजीसी, सीबीएम परिसंपत्ति, बोकारो
2.	उद्योग श्रेणी: प्राथमिक (एसटीसी कोड); माध्यमिक (एसआईसी कोड)	लाल
3.	उत्पादन क्षमता	सीबीएम गैस- 0.75 एमएमएससीएम
4.	स्थापना वर्ष	क्यूपीएस परबतपुर : 2009 गी सी एस खुदगढ़ा : 2023
5.	प्रस्तुत पिछले पर्यावरण विवरण की तिथि	05.12.2023

भाग- बी

पानी और कच्चे माल की खपत

1. पानी की खपत (पूरी अवधि के लिए m^3 में)
क. औद्योगिक और अन्य: 28 केएल/डी
ख. घरेलू: 11 केएल/डी

उत्पाद का नाम	उत्पाद आउटपुट के प्रति यूनिट पानी की खपत की प्रक्रिया	
	पिछले वित्तीय वर्ष 2021-22 के दौरान	इस वित्तीय वर्ष के दौरान 2022-23
सीबीएम	लगभग $800 m^3$ /वेल	लगभग $800 m^3$ /वेल

2. कच्चे माल की खपत: लागू नहीं

कच्चे माल का नाम*	उत्पादों का नाम	उत्पादन की प्रति इकाई कच्चे माल की खपत	
		पिछले वित्तीय वर्ष के दौरान	चालू वित्त वर्ष के दौरान
लागू नहीं			

*उद्योग कोड का उपयोग कर सकता है यदि कच्चे माल के विवरण का खुलासा संविदात्मक दायित्वों का उल्लंघन करेगा, अन्यथा सभी उद्योगों को उपयोग किए गए कच्चे माल का नाम देना होगा।

भाग- सी
पर्यावरण / उत्पादन की इकाई के लिए प्रदूषण का निर्वहन
(जारी की गई सहमति में निर्दिष्ट मापदंड)

(ए) पानी: उत्पादित पानी लगभग 40m³/दिन है। उत्पादित पानी सोडियम के अपवाद के साथ अच्छी गुणवत्ता का पाया जाता है जिसे जीसीएस, खुदगढ़ में आरओ के माध्यम से उपचारित किया जाएगा। उत्पादित पानी का उपयोग औद्योगिक उद्देश्यों के लिए भी किया जाता है। उत्पादित पानी की परीक्षण रिपोर्ट अनुबंध- I में संलग्न है।

(बी) हवा: विभिन्न प्रतिष्ठानों/आरआईजी की परिवेशी वायु गुणवत्ता निगरानी अनुबंध- II के रूप में संलग्न है।

(सी) शोर: उत्पादन प्रतिष्ठानों पर शोर स्तर की निगरानी अनुबंध- III के रूप में संलग्न है।

भाग-डी
खतरनाक अपशिष्ट

(जैसा कि खतरनाक और अन्य कचरे (प्रबंधन और सीमा पार आंदोलन नियम, 2016 के तहत निर्दिष्ट)

खतरनाक अपशिष्ट	कुल मात्रा (केजी)	
	पिछले वित्तीय वर्ष के दौरान	चालू वित्त वर्ष के दौरान
1. प्रक्रिया से -		
खर्च किया तेल (m ³)	6.247	7.1
कपास (kg)	161.5	70
2. प्रदूषण नियंत्रण सुविधाओं से	-	-

भाग-ई
ठोस कचरा

ठोस कचरा	कुल मात्रा (केजी)	
	पिछले वित्तीय वर्ष के दौरान	चालू वित्त वर्ष के दौरान
ड्रिल कटिंग	790 टन्स	1456.9 टन्स
ड्रिल कीचड़	2900 m ³	3150 m ³

भाग-एफ

कृपया खतरनाक और ठोस कचरे की विशेषताओं (सांद्रता और मात्रा के संदर्भ में) को निर्दिष्ट करें और इन दोनों श्रेणियों के कचरे के लिए अपनाए गए निपटान अभ्यास को इंगित करें।

- i. तेल की वसूली लागू नहीं है क्योंकि यह गैस आधारित परियोजना है।
- ii. अधिकृत विक्रेताओं के माध्यम से निपटान/पुनर्चक्रण के लिए जला हुआ तेल भेजा गया।
- iii. उत्पन्न होने वाले कपास के कचरे का उपयोग आग मॉक ड्रिल के समय किया जा रहा है जो अक्सर कुएं और प्रतिष्ठानों पर आयोजित किया जाता है।
- iv. अन्य ठोस कचरे जैसे ड्रिल कटिंग ड्रिल मिट्टी को जीएसआर 546 के अनुसार संसाधित किया जाता है।

भाग-जी

प्राकृतिक संसाधनों के संरक्षण पर किए गए प्रदूषण नियंत्रण उपायों का प्रभाव और परिणामस्वरूप उत्पादन की लागत पर: प्रदूषण नियंत्रण उपायों का प्राकृतिक संसाधन संरक्षण के साथ अच्छे चक्रीय संबंध हैं और बाद में उत्पादन की लागत को कम करता है जबकि एक ही समय में समाज और पर्यावरण को सकारात्मक रूप से प्रभावित करता है जिससे स्थायी विकास होता है।

भाग-एच

प्रदूषण को कम करने सहित पर्यावरण संरक्षण के लिए अतिरिक्त उपाय/निवेश प्रस्ताव।

- i. रिग में पर्यावरणीय निगरानी (परिवेशी हवा, भूजल, ध्वनि स्तर और स्टैक उत्सर्जन) और पीसीबीए अधिकृत एजेंसियों द्वारा स्थापना (कृपया संलग्न अनुलग्नक के रूप में विश्लेषण रिपोर्ट देखें)।
- ii. डीजी सेट के लिए ध्वनिक संलग्नक प्रदान किए गए।
- iii. अन्य ठोस अपशिष्ट, जैसा कि निर्दिष्ट है, जीएसआर 546 मानकों के अनुसार संभाला जाता है।

भाग I

विविध: पर्यावरण संरक्षण और प्रदूषण में कमी के संबंध में कोई अन्य विवरण।

- i. सीएसआर गतिविधियों के हिस्से के रूप में वृक्षारोपण किया गया था।
- ii. यह पादप को एक हरित संस्मरण के रूप में प्रस्तुत करने की प्रथा रही है।
- iii. पर्यावरण के बारे में जागरूकता पैदा करने के लिए विश्व पर्यावरण दिवस समारोह, पर्यावरणीय मुद्दों पर प्रशिक्षण जैसे कार्यक्रम शुरू किए गए थे।
- iv. फाइलों की आवाजाही और पत्राचार के लिए ओएनजीसी मेल के लिए दिशा के उपयोग से कागज रहित कार्यालय को प्रोत्साहित करना।

बर्नाली दास
(बर्नाली दास)

जीजीएम (पी) - हेड एचएसई