



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

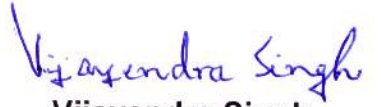
No. BKRO/CBM/HSE/EC 03

Date: 08.12.2025

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 April 2025 to September 2025.


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

In view of the above EC, the compliances are detailed as follows:

Specific Conditions		
S. No.	Conditions	Compliance status for period 01.04.2025 to 30.09.2025
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-3
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-4 , furthermore latest Produced Water analysis report has been enclosed in Annexure-5 .
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 flare pit shall be lined with refractory bricks and efficient burning system. In case	Flaring System is in conformity to Statutory guidelines viz., OISD and CPCB.

	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-6. 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-4
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-5.
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-7 .
12.	Drilling wastewater including drill cuttings, wash water shall be collected in disposal pit lined with HDPE lining, evaporated or	Drilling operations are in compliance with notification G.S.R.546 (E).

	provided with personal H ₂ S detectors in locations of high risk of exposure along with self-containing breathing apparatus.	
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 O.M. No. J-11013/41/2006-IAII (I) dated 26 th April, 2011 and implemented.	ONGC has formulated its Corporate Environment Policy as per said 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	All construction workers are local residents of the operational area.

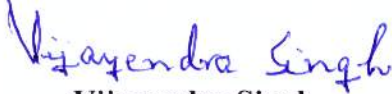
	as fuel for cooking, mobile toilets, mobile STP, Safe drinking water, medical health care, crèche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.	Shelters/bunk houses are available for workers. Potable drinking water and emergency vehicle 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	AAQ monitoring is done on half yearly basis through NABL Accredited and certified consultant.

	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.	Latest report for drill cutting has been enclosed in Annexure-4
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-8 .
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 conformity with ANSI/ASME requirements.	OISD standard 141 is not applicable to CBM Asset.
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	The gas analysis of CBM from wells shows H ₂ S below detectable limit (BDL). Latest Reports enclosed as Annexure-8 .

	ensured that at least one stations is installed in the upwind and downwind direction as well as where maximum ground level concentrations are anticipated.	Latest report is enclosed as Annexure-3 .
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-6 .
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 H1 FY 25-26 is enclosed as Annexure-9 .
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	Environment management Cell exists with qualified Environment engineers posted.

	Environmental Management and Monitoring functions.	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-10 .
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 April 2025 to September 2025 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 2024-2025 has been submitted to RO of MoEF&CC Ranchi via mail on dated 17.09.2025. Form V is enclosed as Annexure-11 .

	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-10 .
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.


Vijayendra Singh
CGM (P) – Head HSE
CBM Asset, ONGC 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
उपरोक्त ईसी शर्तों को ध्यान में रखते हुए और उनके अनुपालन का विवरण निम्नानुसार है:

विशिष्ट शर्तें		
क्र.सं.	अनुपालन	01.04.2025 से 30.09.2025 की अवधि के लिए शर्त 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-3 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-4 में संलग्न की गई है, इसके अलावा नवीनतम उत्पादित जल विश्लेषण रिपोर्ट अनुबंध-5 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 ईट 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-6 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 लाइनर 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 बहिस्राव सीपीसीबी मानकों के अनुरूप होगा। उत्पादित पानी को सौर वाष्पीकरण के लिए ऑनसाइट एचडीपीई लाइनर वाले गड्ढे को संग्रहीत किया जाएगा और नए कुओं और अग्नि जल प्रणाली की ड्रिलिंग में पुनः उपयोग किया जाएगा। घरेलू बहिस्राव को सैप्टिक 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-4 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-5 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-7 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	ड्रिलिंग परिचालन अधिसूचना GSR546 (E) के अनुपालन में हैं।

	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।	ड्रिल कटिंग की नवीनतम रिपोर्ट अनुबंध-4 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 फ्लोरिंग स्टैक 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 सीमाओं 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 CH₄ गैस डिटेक्टर प्रतिष्ठानों और अच्छी साइटों में उपलब्ध हैं। सीएच₄ और H₂S का पता लगाने के लिए गैस गैस डिटेक्टर प्रदान किए जाएंगे। कुओं से सीबीएम का विश्लेषण पता लगाने योग्य सीमा (बीडीएल) से नीचे H₂S दिखाता है। नवीनतम रिपोर्ट अनुबंध-8 के रूप में संलग्न हैं।
16.	पाइपलाइन के संचालन और रखरखाव और प्राकृतिक गैस/तेल के परिवहन के	ओआईएसडी मानक 141 सीबीएम संपत्ति पर लागू नहीं है।

	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 केसिंग, प्रमुख सड़क क्रॉसिंग एएनएसआई/एएसएमई आवश्यकताओं के अनुरूप होना चाहिए।	
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 एक्सपोजर के उच्च जोखिम वाले स्थानों में व्यक्तिगत एच2एस डिटेक्टर प्रदान किए जाएंगे।	कुओं से सीबीएम के गैस विश्लेषण से पता लगाने योग्य सीमा (बीडीएल) से नीचे H ₂ S पता चलता है। नवीनतम रिपोर्टें अनुबंध-8 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	परियोजना के प्रत्येक चरण में ईएमपी का अनुपालन किया जा रहा है।

	अनुशंसित पर्यावरण सुरक्षा उपायों और सुरक्षा उपायों का पालन करेगा।	
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 जापन 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 एसटीपी, सुरक्षित पेयजल, चिकित्सा स्वास्थ्य देखभाल, क्लेश आदि के साथ प्रावधान किया जाएगा।	आवास परियोजना के पूरा होने के बाद हटाए जाने वाले अस्थायी ढांचे के रूप में हो सकता है। सभी निर्माण श्रमिक 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	मैनुअल और एसओपी का कड़ाई से पालन करने के लिए जागरूकता कार्यक्रम आयोजित किए जाते हैं।

	चाहिए। प्रत्येक स्थापना में मैनुअल और मानक संचालन प्रक्रियाएं उपलब्ध 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	01.04.2025 से 30.09.2025 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 एक स्टेशन स्थापित किया गया है और साथ ही जहां अधिकतम जमीनी स्तर की सांद्रता का अनुमान है।	एएक्यू की निगरानी अर्धवार्षिक आधार पर एनएबीएल मान्यता प्राप्त और प्रमाणित सलाहकार के माध्यम से की जाती है। नवीनतम रिपोर्ट अनुबंध-3 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-6 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 25-26 के लिए सीएसआर के तहत की गई गतिविधियों का संक्षिप्त विवरण अनुबंध-9 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	पर्यावरण प्रबंधन सेल योग्य पर्यावरण इंजीनियरों के साथ मौजूद है। हालांकि पर्यावरण

	एक अलग पर्यावरण प्रबंधन प्रकोष्ठ स्थापित किया जाएगा।	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-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।	पर्याप्त धनराशि निर्धारित की गई है जैसा कि ईएमपी में उल्लेख किया गया है, 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।	इसी 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।	मार्च 2025 से सेप्टेम्बर 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	वित्त वर्ष 2024-2025 के लिए पर्यावरण विवरण (फॉर्म V) दिनांक 17.09.2025 को मेल के माध्यम से पर्यावरण, वन और जलवायु परिवर्तन मंत्रालय के क्षेत्रीय कार्यालय को प्रस्तुत किया गया है।

	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।	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 में होगा और उसकी एक प्रति मंत्रालय के संबंधित क्षेत्रीय कार्यालय को अग्रेषित की जाएगी।	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।
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।

विजेन्द्र सिंह

विजयेन्द्र सिंह
सीजीएम (पी) - प्रमुख एचएसई
सीबीएम परिसम्पत्ति, ओएनजीसी बोकारो

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 & RESEARCH PRIVATE LIMITED

formerly known as SV ENVIRO LABS & CONSULTANTS
Researching for better Environmental Solutions



Ref: SV/ONGC-B/25-09/09

Date: 29-09-2025

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

SAMPLE PARTICULARS : AMBIENT AIR

SOURCE OF COLLECTION : NEAR KHUDGADDA VILLAGE

SITE NAME : BOKARO

DATE OF COLLECTION : 09-09-2025

TEST REPORT

S.No	Parameter	Unit	Result	NAAQ Standard	Method
1.	Particulate Matter – (PM ₁₀)	µg/m ³	55.1	100	IS:5182 (P-23)
2.	Particulate Matter – (PM _{2.5})	µg/m ³	17.3	60	IS:5182 (P-24)
3.	Sulphur Dioxide – SO ₂	µg/m ³	13.6	80	IS:5182 (P-2)
4.	Oxides of Nitrogen – NO _x	µg/m ³	9.4	80	IS:5182(P-6)
5.	Carbon Monoxide – CO	µg/m ³	0.20	2.0	IS:5182 (P-10)
6.	Ozone(O ₃)	µg/m ³	11.7	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	2.3	-	IS:5182(P- 21)
14.	Non- Methane	µg/m ³	0.8	-	IS:5182(P- 21)

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


CHECKED BY




AUTHORIZED SIGNATORY

Recognized by GOI - MoEFCC, Accredited by NABL & NABET

Corporate Office and 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

Website: www.svenvirolabs.com
E-Mails : info@svenvirolabs.com, svenviro_labs@yahoo.co.in

Contacts
0891-2755528, +91 7207664444

PAN: ABQCS0643F
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Website: www.svenvirolabs.com
E-Mails : info@svenvirolabs.com, svenviro_labs@yahoo.co.in

Contacts
0891-2755528, +91 7207664444

PAN: ABQCS0643F
CIN: U74909AP2025PTC119098





SV ENVIRO LABS & RESEARCH PRIVATE LIMITED

formerly known as SV ENVIRO LABS & CONSULTANTS
Researching for better Environmental Solutions



Ref: SVELC/ONGC-B/25-05/43

Date: 16-06-2025

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

SAMPLE PARTICULARS : DRILL CUTTING

SOURCE OF COLLECTION : DR 27 at JHED at 1200-1250 Meters

SITE NAME : JHARIA

SAMPLE CODE : SVELC/25/3042

DATE OF COLLECTION : 29-05-2025

DATE OF RECEIPT : 31-05-2025

TEST REPORT

S.NO	PARAMETER	UNIT	RESULT
1.	Oil & Grease	mg/kg	9.0
2.	Lead as Pb	mg/kg	3.86
3.	Mercury as Hg	mg/kg	<0.1
4.	Cadmium as Cd	mg/kg	9.22
5.	Total Chromium as Cr	mg/kg	30.1
6.	Hexavalent Chromium	mg/kg	<0.1
7.	Copper as Cu	mg/kg	13.6
8.	Zinc as Zn	mg/kg	42.1
9.	Nickel as Ni	mg/kg	17.6
10.	Selenium	mg/kg	<0.1
11.	Total Arsenic as As	mg/kg	<0.1

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Ref: SVELC/ONGC-B/25-05/44

Date: 16-06-2025

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

SAMPLE PARTICULARS : DRILL CUTTING

SOURCE OF COLLECTION : DR 27 at JHED at 1250-1300 Meters

SITE NAME : JHARIA

SAMPLE CODE : SVELC/25/3043

DATE OF COLLECTION : 29-05-2025

DATE OF RECEIPT : 31-05-2025

TEST REPORT

S.NO	PARAMETER	UNIT	RESULT
1.	Oil & Grease	mg/kg	13.0
2.	Lead as Pb	mg/kg	4.68
3.	Mercury as Hg	mg/kg	<0.1
4.	Cadmium as Cd	mg/kg	10.6
5.	Total Chromium as Cr	mg/kg	38.9
6.	Hexavalent Chromium	mg/kg	<0.1
7.	Copper as Cu	mg/kg	16.4
8.	Zinc as Zn	mg/kg	47.7
9.	Nickel as Ni	mg/kg	16.1
10.	Selenium	mg/kg	<0.1
11.	Total Arsenic as As	mg/kg	<0.1


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Ref: SV/ONGC-B/25-09/39

Date: 29-09-2025

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-66 WATER

SITE NAME : BOKARO

SAMPLE CODE : SV/25/5392

DATE OF COLLECTION : 10-09-2025

DATE OF RECEIPT : 13-09-2025

TEST REPORT

S.NO	PARAMETER	UNIT	RESULT
1.	Temperature	^o C	27.1
2.	pH	=	7.41
3.	Electrical Conductivity	µmhos	3182
4.	Total Dissolved Solids	mg/l	1801
5.	Total Alkalinity as CaCO ₃	mg/l	1462
6.	Calcium as Ca	mg/l	34.6
7.	Magnesium as Mg	mg/l	15.1
8.	Chlorides as Cl	mg/l	131
9.	Carbonates	mg/l	Nil
10.	Bi-Carbonates	mg/l	1462
11.	Iron as Fe	mg/l	0.05
12.	Sodium as Na	mg/l	674
13.	Sulfate as SO ₄	mg/l	16.6
14.	Oil & Grease	mg/l	<1.0
15.	Total Suspended Solids	mg/l	18.0
16.	Chemical Oxidation Demand-COD	mg/l	20.0
17.	Bio-Chemical Oxidation Demand-BOD (3days incubation at 27 ^o C)	mg/l	8.0
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	0.03
28.	Nickel as Ni	mg/l	<0.01
29.	Fluorides as F ⁻	mg/l	1.51
30.	Vanadium as V	mg/l	<0.01
31.	Total Arsenic as As	mg/l	<0.01

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Ref: SV/ONGC-B/25-09/40

Date: 29-09-2025

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-56 WATER

SITE NAME : BOKARO

SAMPLE CODE : SV/25/5393

DATE OF COLLECTION : 10-09-2025

DATE OF RECEIPT : 13-09-2025

TEST REPORT

S.NO	PARAMETER	UNIT	RESULT
1.	Temperature	°C	27.1
2.	pH	*	7.70
3.	Electrical Conductivity	µmhos	2415
4.	Total Dissolved Solids	mg/l	1372
5.	Total Alkalinity as CaCO ₃	mg/l	1064
6.	Calcium as Ca	mg/l	15.9
7.	Magnesium as Mg	mg/l	7.28
8.	Chlorides as Cl	mg/l	149
9.	Carbonates	mg/l	Nil
10.	Bi-Carbonates	mg/l	1064
11.	Iron as Fe	mg/l	0.02
12.	Sodium as Na	mg/l	511
13.	Sulfate as SO ₄	mg/l	<1.0
14.	Oil & Grease	mg/l	<1.0
15.	Total Suspended Solids	mg/l	14.0
16.	Chemical Oxidation Demand-COD	mg/l	16.0
17.	Bio-Chemical Oxidation Demand-BOD (3days incubation at 27°C)	mg/l	5.0
18.	Sulphide as S	mg/l	<0.1
19.	Phenolic Compounds as C ₆ H ₅ OH	mg/l	<0.05

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E-Mails : info@svenvirolabs.com, svenviro_labs@yahoo.co.in

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0891-2755528, +91 7207664444

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20.	Cyanide as CN	mg/l	<0.02
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	1.53
30.	Vanadium as V	mg/l	<0.01
31.	Total Arsenic as As	mg/l	<0.01


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Ref: SV/ONGC-B/25-09/41

Date: 29-09-2025

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-04 WATER

SITE NAME : BOKARO

SAMPLE CODE : SV/25/5394

DATE OF COLLECTION : 10-09-2025

DATE OF RECEIPT : 13-09-2025

TEST REPORT

S.NO	PARAMETER	UNIT	RESULT
1.	Temperature	°C	28.2
2.	pH	-	7.97
3.	Electrical Conductivity	µmhos	2514
4.	Total Dissolved Solids	mg/l	1642
5.	Total Alkalinity as CaCO ₃	mg/l	1193
6.	Calcium as Ca	mg/l	28.6
7.	Magnesium as Mg	mg/l	4.04
8.	Chlorides as Cl	mg/l	164
9.	Carbonates	mg/l	264
10.	Bi-Carbonates	mg/l	929
11.	Iron as Fe	mg/l	0.01
12.	Sodium as Na	mg/l	611
13.	Sulfate as SO ₄	mg/l	<1.0
14.	Oil & Grease	mg/l	<1.0
15.	Total Suspended Solids	mg/l	20.0
16.	Chemical Oxidation Demand-COD	mg/l	23.0
17.	Bio-Chemical Oxidation Demand-BOD (3days incubation at 27°C)	mg/l	11.0
18.	Sulphide as S	mg/l	<0.1
19.	Phenolic Compounds as C ₆ H ₅ OH	mg/l	<0.05





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20.	Cyanide as CN	mg/l	<0.02
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	0.89
30.	Vanadium as V	mg/l	<0.01
31.	Total Arsenic as As	mg/l	<0.01


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Website: www.svenvirolabs.com
E-Mails : info@svenvirolabs.com, svenviro_labs@yahoo.co.in

Contacts
0891-2755528, +91 7207664444

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Ref: SV/ONGC-B/25-09/42

Date: 29-09-2025

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-03 WATER

SITE NAME : BOKARO

SAMPLE CODE : SV/25/5395

DATE OF COLLECTION : 10-09-2025

DATE OF RECEIPT : 13-09-2025

TEST REPORT

S.NO	PARAMETER	UNIT	RESULT
1.	Temperature	°C	28.5
2.	pH	-	7.80
3.	Electrical Conductivity	µmhos	4536
4.	Total Dissolved Solids	mg/l	2769
5.	Total Alkalinity as CaCO ₃	mg/l	1928
6.	Calcium as Ca	mg/l	48.7
7.	Magnesium as Mg	mg/l	22.6
8.	Chlorides as Cl	mg/l	146
9.	Carbonates	mg/l	462
10.	Bi-Carbonates	mg/l	1466
11.	Iron as Fe	mg/l	0.08
12.	Sodium as Na	mg/l	1264
13.	Sulfate as SO ₄	mg/l	<1.0
14.	Oil & Grease	mg/l	<1.0
15.	Total Suspended Solids	mg/l	30.0
16.	Chemical Oxidation Demand-COD	mg/l	20.0
17.	Bio-Chemical Oxidation Demand-BOD (3days incubation at 27°C)	mg/l	7.0
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	0.05
28.	Nickel as Ni	mg/l	<0.01
29.	Fluorides as F	mg/l	1.26
30.	Vanadium as V	mg/l	<0.01
31.	Total Arsenic as As	mg/l	<0.01

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Ref: SV/ONGC-B/25-09/43

Date: 29-09-2025

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-81 WATER

SITE NAME : BOKARO

SAMPLE CODE : SV/25/5396

DATE OF COLLECTION : 10-09-2025

DATE OF RECEIPT : 13-09-2025

EST REPORT

S.NO	PARAMETER	UNIT	RESULT
1.	Temperature	^o C	26.4
2.	pH	-	8.12
3.	Electrical Conductivity	µmhos	2866
4.	Total Dissolved Solids	mg/l	1764
5.	Total Alkalinity as CaCO ₃	mg/l	1269
6.	Calcium as Ca	mg/l	34.6
7.	Magnesium as Mg	mg/l	26.8
8.	Chlorides as Cl	mg/l	134
9.	Carbonates	mg/l	246
10.	Bi-Carbonates	mg/l	1023
11.	Iron as Fe	mg/l	0.08
12.	Sodium as Na	mg/l	676
13.	Sulfate as SO ₄	mg/l	<1.0
14.	Oil & Grease	mg/l	<1.0
15.	Total Suspended Solids	mg/l	26.0
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

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20.	Cyanide as CN	mg/l	<0.02
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	1.43
30.	Vanadium as V	mg/l	<0.01
31.	Total Arsenic as As	mg/l	<0.01

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Ref: SV/ONGC-B/25-09/44

Date: 29-09-2025

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-104 WATER

SITE NAME : BOKARO

SAMPLE CODE : SV/25/5397

DATE OF COLLECTION : 10-09-2025

DATE OF RECEIPT : 13-09-2025

TEST REPORT

S.NO	PARAMETER	UNIT	RESULT
1.	Temperature	^o C	26.2
2.	pH	-	7.88
3.	Electrical Conductivity	µmhos	1798
4.	Total Dissolved Solids	mg/l	1092
5.	Total Alkalinity as CaCO ₃	mg/l	894
6.	Calcium as Ca	mg/l	21.1
7.	Magnesium as Mg	mg/l	4.62
8.	Chlorides as Cl	mg/l	151
9.	Carbonates	mg/l	210
10.	Bi-Carbonates	mg/l	684
11.	Iron as Fe	mg/l	0.02
12.	Sodium as Na	mg/l	312
13.	Sulfate as SO ₄	mg/l	<0.01
14.	Oil & Grease	mg/l	<1.0
15.	Total Suspended Solids	mg/l	9.0
16.	Chemical Oxidation Demand-COD	mg/l	17.0
17.	Bio-Chemical Oxidation Demand-BOD (3days incubation at 27 ^o C)	mg/l	5.0
18.	Sulphide as S	mg/l	<0.1
19.	Phenolic Compounds as C ₆ H ₅ OH	mg/l	<0.05





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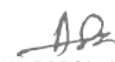
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20.	Cyanide as CN	mg/l	<0.02
21.	Lead as Pb	mg/l	<0.01
22.	Mercury as Hg	mg/l	<0.01
23.	Cadmium as Cd	mg/l	<0.001
24.	Total Chromium as Cr	mg/l	<0.01
25.	Hexavalent Chromium	mg/l	<0.1
26.	Copper as Cu	mg/l	<0.01
27.	Zinc as Zn	mg/l	0.05
28.	Nickel as Ni	mg/l	<0.01
29.	Fluorides as F	mg/l	1.34
30.	Vanadium as V	mg/l	<0.01
31.	Total Arsenic as As	mg/l	<0.01


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Corporate Office and 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

Website: www.svenvirolabs.com
E-Mails : info@svenvirolabs.com, svenviro_labs@yahoo.co.in

Contacts
0891-2755528, +91 7207664444

PAN: ABQCS0643F
CIN: U74909AP2025PTC119098





SV ENVIRO LABS & RESEARCH PRIVATE LIMITED

formerly known as SV ENVIRO LABS & CONSULTANTS
Researching for better Environmental Solutions



Ref: SV/ONGC-B/25-09/45

Date: 29-09-2025

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-17 WATER

SITE NAME : BOKARO

SAMPLE CODE : SV/25/5398

DATE OF COLLECTION : 10-09-2025

DATE OF RECEIPT : 13-09-2025

TEST REPORT

S.NO	PARAMETER	UNIT	RESULT
1.	Temperature	^o C	27.3
2.	pH	-	8.22
3.	Electrical Conductivity	µmbos	3814
4.	Total Dissolved Solids	mg/l	2267
5.	Total Alkalinity as CaCO ₃	mg/l	2060
6.	Calcium as Ca	mg/l	21.4
7.	Magnesium as Mg	mg/l	6.29
8.	Chlorides as Cl	mg/l	144
9.	Carbonates	mg/l	430
10.	Bi-Carbonates	mg/l	1630
11.	Iron as Fe	mg/l	0.02
12.	Sodium as Na	mg/l	762
13.	Sulfate as SO ₄	mg/l	1.11
14.	Oil & Grease	mg/l	<1.0
15.	Total Suspended Solids	mg/l	18.0
16.	Chemical Oxidation Demand-COD	mg/l	21.0
17.	Bio-Chemical Oxidation Demand-BOD (3days incubation at 27 ^o C)	mg/l	7.0
18.	Sulphide as S	mg/l	<0.1
19.	Phenolic Compound as C ₆ H ₅ OH	mg/l	<0.05

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20.	Cyanide as CN	mg/l	<0.02
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	0.03
28.	Nickel as Ni	mg/l	<0.01
29.	Fluorides as F	mg/l	1.34
30.	Vanadium as V	mg/l	<0.01
31.	Total Arsenic as As	mg/l	<0.01


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Ref: SV/ONGC-B/25-09/46

Date: 29-09-2025

NAME AND ADDRESS	M/s. OIL AND NATURAL GAS CORPORATION LTD LTD, CBM Asset, 1 st Floor, HSCL Building, Naya More Bokaro Steel City, Jharkhand-827001.
SAMPLE PARTICULARS	PRODUCED WATER
SOURCE OF COLLECTION	BK-52 WATER
SITE NAME	BOKARO
SAMPLE CODE	SV/25/5399
DATE OF COLLECTION	10-09-2025
DATE OF RECEIPT	13-09-2025

TEST REPORT

S.NO	PARAMETER	UNIT	RESULT
1.	Temperature	°C	26.8
2.	pH	-	7.93
3.	Electrical Conductivity	µmhos	3575
4.	Total Dissolved Solids	mg/l	2188
5.	Total Alkalinity as CaCO ₃	mg/l	1370
6.	Calcium as Ca	mg/l	35.6
7.	Magnesium as Mg	mg/l	12.1
8.	Chlorides as Cl	mg/l	549
9.	Carbonates	mg/l	180
10.	Bi-Carbonates	mg/l	1190
11.	Iron as Fe	mg/l	0.07
12.	Sodium as Na	mg/l	683
13.	Sulfate as SO ₄	mg/l	3.26
14.	Oil & Grease	mg/l	<1.0
15.	Total Suspended Solids	mg/l	7.0
16.	Chemical Oxidation Demand-COD	mg/l	17.0
17.	Bio-Chemical Oxidation Demand-BOD (3days incubation at 27°C)	mg/l	6.0
18.	Sulphide as S	mg/l	<0.1
19.	Phenolic Compounds as C ₆ H ₅ OH	mg/l	<0.05

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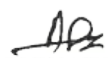
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20.	Cyanide as CN	mg/l	<0.02
21.	Lead as Pb	mg/l	<0.01
22.	Mercury as Hg	mg/l	<0.01
23.	Cadmium as Cd	mg/l	<0.001
24.	Total Chromium as Cr	mg/l	<0.01
25.	Hexavalent Chromium	mg/l	<0.1
26.	Copper as Cu	mg/l	<0.01
27.	Zinc as Zn	mg/l	0.05
28.	Nickel as Ni	mg/l	<0.01
29.	Fluorides as F	mg/l	0.56
30.	Vanadium as V	mg/l	<0.01
31.	Total Arsenic as As	mg/l	<0.01


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Ref: SV/ONGC-B/25-09/47

Date: 29-09-2025

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-101 WATER

SITE NAME : BOKARO

SAMPLE CODE : SV/25/5400

DATE OF COLLECTION : 10-09-2025

DATE OF RECEIPT : 13-09-2025

TEST REPORT

S.NO	PARAMETER	UNIT	RESULT
1.	Temperature	°C	26.2
2.	pH	-	8.52
3.	Electrical Conductivity	µmhos	2133
4.	Total Dissolved Solids	mg/l	1316
5.	Total Alkalinity as CaCO ₃	mg/l	1010
6.	Calcium as Ca	mg/l	14.6
7.	Magnesium as Mg	mg/l	5.29
8.	Chlorides as Cl	mg/l	82.1
9.	Carbonates	mg/l	240
10.	Bi-Carbonates	mg/l	770
11.	Iron as Fe	mg/l	0.11
12.	Sodium as Na	mg/l	517
13.	Sulfate as SO ₄	mg/l	<1.0
14.	Oil & Grease	mg/l	<1.0
15.	Total Suspended Solids	mg/l	8.0
16.	Chemical Oxidation Demand-COD	mg/l	29.9
17.	Bio-Chemical Oxidation Demand-BOD (3days incubation at 27°C)	mg/l	13.0
18.	Sulphide as S	mg/l	<0.1
19.	Phenolic Compounds as C ₆ H ₅ OH	mg/l	<0.05





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20.	Cyanide as CN	mg/l	<0.02
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	0.03 ⁺
28.	Nickel as Ni	mg/l	<0.01
29.	Fluorides as F	mg/l	1.15
30.	Vanadium as V	mg/l	<0.01
31.	Total Arsenic as As	mg/l	<0.01


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Ref: SV/ONGC-B/25-09/48

Date: 29-09-2025

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-40 WATER

SITE NAME : BOKARO

SAMPLE CODE : SV/25/5401

DATE OF COLLECTION : 10-09-2025

DATE OF RECEIPT : 13-09-2025

TEST REPORT

S.NO	PARAMETER	UNIT	RESULT
1.	Temperature	⁰ C	26.7
2.	pH	-	8.18
3.	Electrical Conductivity	µmhos	4677
4.	Total Dissolved Solids	mg/l	2768
5.	Total Alkalinity as CaCO ₃	mg/l	2940
6.	Calcium as Ca	mg/l	21.3
7.	Magnesium as Mg	mg/l	14.6
8.	Chlorides as Cl	mg/l	192
9.	Carbonates	mg/l	680
10.	Bi-Carbonates	mg/l	2260
11.	Iron as Fe	mg/l	0.07
12.	Sodium as Na	mg/l	674
13.	Sulfate as SO ₄	mg/l	0.82
14.	Oil & Grease	mg/l	<1.0
15.	Total Suspended Solids	mg/l	7.0
16.	Chemical Oxidation Demand-COD	mg/l	19.0
17.	Bio-Chemical Oxidation Demand-BOD (3days incubation at 27 ⁰ C)	mg/l	6.0
18.	Sulphide as S	mg/l	<0.1
19.	Phenolic Compounds as C ₆ H ₅ OH	mg/l	<0.05

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20.	Cyanide as CN	mg/l	<0.02
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	0.56
30.	Vanadium as V	mg/l	<0.01
31.	Total Arsenic as As	mg/l	<0.01


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Ref: SV/ONGC-B/25-09/49

Date: 29-09-2025

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-60 WATER

SITE NAME : BOKARO

SAMPLE CODE : SV/25/5402

DATE OF COLLECTION : 10-09-2025

DATE OF RECEIPT : 13-09-2025

TEST REPORT

S.NO	PARAMETER	UNIT	RESULT
1.	Temperature	^o C	25.8
2.	pH		7.54
3.	Electrical Conductivity	µmhos	4625
4.	Total Dissolved Solids	mg/l	2814
5.	Total Alkalinity as CaCO ₃	mg/l	2870
6.	Calcium as Ca	mg/l	9.43
7.	Magnesium as Mg	mg/l	2.67
8.	Chlorides as Cl	mg/l	136
9.	Carbonates	mg/l	590
10.	Bi-Carbonates	mg/l	2280
11.	Iron as Fe	mg/l	0.13
12.	Sodium as Na	mg/l	834
13.	Sulfate as SO ₄	mg/l	1.14
14.	Oil & Grease	mg/l	<1.0
15.	Total Suspended Solids	mg/l	14.0
16.	Chemical Oxidation Demand-COD	mg/l	23.0
17.	Bio-Chemical Oxidation Demand-BOD (3days incubation at 27 ^o C)	mg/l	9.0
18.	Sulphide as S	mg/l	<0.1
19.	Phenolic Compounds as C ₆ H ₅ OH	mg/l	<0.05

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20.	Cyanide as CN	mg/l	<0.02
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	1.53
30.	Vanadium as V	mg/l	<0.01
31.	Total Arsenic as As	mg/l	<0.01


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Ref: SV/ONGC-B/25-09/50

Date: 29-09-2025

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-35 WATER

SITE NAME : BOKARO

SAMPLE CODE : SV/25/5403

DATE OF COLLECTION : 10-09-2025

DATE OF RECEIPT : 13-09-2025

TEST REPORT

S.NO	PARAMETER	UNIT	RESULT
1.	Temperature	°C	27.1
2.	pH		7.65
3.	Electrical Conductivity	µmhos	2499
4.	Total Dissolved Solids	mg/l	1562
5.	Total Alkalinity as CaCO ₃	mg/l	1680
6.	Calcium as Ca	mg/l	17.1
7.	Magnesium as Mg	mg/l	4.62
8.	Chlorides as Cl	mg/l	67.4
9.	Carbonates	mg/l	410
10.	Bi-Carbonates	mg/l	1270
11.	Iron as Fe	mg/l	0.07
12.	Sodium as Na	mg/l	411
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	19.0
17.	Bio-Chemical Oxidation Demand-BOD (3days incubation at 27°C)	mg/l	6.0
18.	Sulphide as S	mg/l	<0.1
19.	Phenolic Compounds as C ₆ H ₅ OH	mg/l	<0.05

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20.	Cyanide as CN	mg/l	<0.02
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	<0.01
28.	Nickel as Ni	mg/l	<0.01
29.	Fluorides as F	mg/l	1.45
30.	Vanadium as V	mg/l	<0.01
31.	Total Arsenic as As	mg/l	<0.01

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Ref: SV/ONGC-B/25-09/51

Date: 29-09-2025

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-37 WATER

SITE NAME : BOKARO

SAMPLE CODE : SV/25/5404

DATE OF COLLECTION : 10-09-2025

DATE OF RECEIPT : 13-09-2025

TEST REPORT

S.NO	PARAMETER	UNIT	RESULT
1.	Temperature	°C	27.4
2.	pH	-	7.63
3.	Electrical Conductivity	µmhos	4784
4.	Total Dissolved Solids	mg/l	2814
5.	Total Alkalinity as CaCO ₃	mg/l	2690
6.	Calcium as Ca	mg/l	18.5
7.	Magnesium as Mg	mg/l	7.92
8.	Chlorides as Cl	mg/l	168
9.	Carbonates	mg/l	510
10.	Bi-Carbonates	mg/l	2180
11.	Iron as Fe	mg/l	0.02
12.	Sodium as Na	mg/l	942
13.	Sulfate as SO ₄	mg/l	1.43
14.	Oil & Grease	mg/l	<1.0
15.	Total Suspended Solids	mg/l	10.0
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

Corporate Office and 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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20.	Cyanide as CN	mg/l	<0.02
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	0.03
28.	Nickel as Ni	mg/l	<0.01
29.	Fluorides as F	mg/l	1.54
30.	Vanadium as V	mg/l	<0.01
31.	Total Arsenic as As	mg/l	<0.01

CHECKED BY 




AUTHORIZED SIGNATORY

Recognized by GOI - MoEFCC, Accredited by NABL & NABET

Corporate Office and 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

Website: www.svenvirolabs.com
E-Mails: info@svenvirolabs.com, svenviro_labs@yahoo.co.in

Contacts
0891-2755528, +91 7207664444

PAN: ABQCS0643F
CIN: U74909AP2025PTC119098





SV ENVIRO LABS & RESEARCH PRIVATE LIMITED

formerly known as SV ENVIRO LABS & CONSULTANTS
Researching for better Environmental Solutions



Ref: SV/ONGC-B/25-09/74

Date: 29-09-2025

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

SAMPLE PARTICULARS : NOISE LEVELS

SOURCE OF COLLECTION : GG ROOM

LOCATION : BOKARO (GCS Khudgadda)

DATE OF COLLECTION : 10-09-2025

TEST REPORT

Period	Hrs	dB (A)	Leq Day	Leq Night
Day	6.00	65.5	69.5	59.5
	7.00	71.6		
	8.00	70.5		
	9.00	70.7		
	10.00	72.4		
	11.00	64.5		
	12.00	70.5		
	13.00	70.5		
	14.00	71.9		
	15.00	69.6		
	16.00	67.3		
	17.00	64.6		
	18.00	69.6		
	19.00	67.1		
Night	20.00	65.2		
	21.00	60.4		
	22.00	55.9		
	23.00	59.6		
	24.00	56.6		
	1.00	57.7		
	2.00	54.5		
	3.00	60.1		
	4.00	59.6		
	5.00	63.4		
CPCB STANDARDS				
RESIDENTIAL AREA			55	45
INDUSTRIAL AREA			75	70



Corporate Office and 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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CIN: U74909AP2025PTC119098





SV ENVIRO LABS & RESEARCH PRIVATE LIMITED

formerly known as SV ENVIRO LABS & CONSULTANTS
Researching for better Environmental Solutions



Ref: SV/ONGC-B/25-09/75

Date: 29-09-2025

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

SAMPLE PARTICULARS : NOISE LEVELS

SOURCE OF COLLECTION : CONTROL ROOM

LOCATION : BOKARO (GCS Khudgadda)

DATE OF COLLECTION : 10-09-2025

TEST REPORT

Period	Hrs	dB (A)	Leq Day	Leq Night
Day	6.00	69.6	69.6	60.9
	7.00	68.9		
	8.00	68.8		
	9.00	74.3		
	10.00	68.7		
	11.00	61.2		
	12.00	66.1		
	13.00	70.2		
	14.00	73.5		
	15.00	65.5		
	16.00	66.9		
	17.00	68.6		
	18.00	68.5		
	19.00	61.5		
	20.00	69.9		
Night	21.00	64.5		
	22.00	65.3		
	23.00	63.6		
	24.00	59.6		
	1.00	59.6		
	2.00	57.7		
	3.00	58.4		
CPCB STANDARDS	4.00	59.9	55	45
	5.00	63.8		
RESIDENTIAL AREA			75	70
INDUSTRIAL AREA				

AUTHORIZED SIGNATORY



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

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CIN: U74909AP2025PTC119098





SV ENVIRO LABS & RESEARCH PRIVATE LIMITED

formerly known as SV ENVIRO LABS & CONSULTANTS
Researching for better Environmental Solutions



Ref: SV/ONGC-B/25-09/76

Date: 29-09-2025

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

SAMPLE PARTICULARS : NOISE LEVELS

SOURCE OF COLLECTION : MAIN GATE GCS KHUDGADDA

LOCATION : BOKARO (GCS Khudgadda)

DATE OF COLLECTION : 10-09-2025

TEST REPORT

Period	Hrs	dB (A)	Leq Day dB (A)	Leq Night dB (A)
Day	6.00	71.2	71.1	55.2
	7.00	66.5		
	8.00	72.5		
	9.00	73.9		
	10.00	72.6		
	11.00	63.6		
	12.00	69.7		
	13.00	70.2		
	14.00	74.1		
	15.00	72.2		
	16.00	71.5		
	17.00	63.2		
	18.00	72.6		
	19.00	62.3		
Night	20.00	69.7		
	21.00	65.4		
	22.00	63.0		
	23.00	56.5		
	24.00	54.2		
	1.00	52.9		
	2.00	56.6		
	3.00	55.3		
	4.00	54.7		
	5.00	55.4		
CPCB STANDARDS				
RESIDENTIAL AREA			55	45
INDUSTRIAL AREA			75	70

VSP-12
AUTHORIZED SIGNATORY

Recognized by GOI - MoEFCC, Accredited by NABL & NABET

Corporate Office and 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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Contacts
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PAN: ABQCS0643F
CIN: U74909AP2025PTC119098





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formerly known as SV ENVIRO LABS & CONSULTANTS
Researching for better Environmental Solutions



Ref: SV/ONGC-B/25-09/77

Date: 29-09-2025

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

SAMPLE PARTICULARS : NOISE LEVELS

SOURCE OF COLLECTION : NEAR LP COMPRESSOR

LOCATION : BOKARO (GCS Khudgadda)

DATE OF COLLECTION : 10-09-2025

TEST REPORT

Period	Hrs	dB (A)	Leq Day dB (A)	Leq Night dB (A)
Day	6.00	70.4	71.4	67.7
	7.00	71.2		
	8.00	64.5		
	9.00	65.6		
	10.00	73.6		
	11.00	73.7		
	12.00	69.4		
	13.00	66.1		
	14.00	72.8		
	15.00	68.8		
	16.00	71.2		
	17.00	70.9		
	18.00	73.6		
	19.00	69.3		
Night	20.00	69.9		
	21.00	70.4		
	22.00	72.1		
	23.00	69.6		
	24.00	65.5		
	1.00	68.6		
	2.00	70.9		
	3.00	61.0		
	4.00	64.7		
	5.00	67.5		
CPCB STANDARDS				
RESIDENTIAL AREA			55	45
INDUSTRIAL AREA			75	70



AUTHORIZED SIGNATORY

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E-Mails : info@svenvirolabs.com, svenviro_labs@yahoo.co.in

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Ref: SV/ONGC-B/25-09/79

Date: 29-09-2025

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

SAMPLE PARTICULARS : NOISE LEVELS

SOURCE OF COLLECTION : FAR LP COMPRESSOR

LOCATION : BOKARO (GCS Khudgadda)

DATE OF COLLECTION : 10-09-2025

TEST REPORT

Period	Hrs	dB (A)	Leq Day dB (A)	Leq Night dB (A)
Day	6.00	64.2	66.5	61.2
	7.00	65.6		
	8.00	65.5		
	9.00	64.7		
	10.00	63.6		
	11.00	65.1		
	12.00	67.8		
	13.00	66.5		
	14.00	69.2		
	15.00	66.3		
	16.00	69.6		
	17.00	68.3		
	18.00	62.3		
	19.00	63.2		
Night	20.00	61.2		
	21.00	64.6		
	22.00	64.5		
	23.00	58.5		
	24.00	61.4		
	1.00	56.8		
	2.00	63.8		
	3.00	57.1		
	4.00	61.5		
	5.00	63.8		
CPCB STANDARDS				
RESIDENTIAL AREA			55	45
INDUSTRIAL AREA			75	70



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CIN: U74909AP2025PTC119098





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Ref: SV/ONGC-B/25-09/81

Date: 29-09-2025

NAME AND ADDRESS : M/s. OIL AND NATURAL GAS CORPORATION 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 : 09-09-2025

TEST REPORT

Period	Hrs	dB (A)	Leq Day dB (A)	Leq Night dB (A)
Day	6.00	64.5	69.6	63.3
	7.00	67.7		
	8.00	63.6		
	9.00	69.1		
	10.00	68.6		
	11.00	68.5		
	12.00	72.2		
	13.00	71.9		
	14.00	73.6		
	15.00	65.6		
	16.00	69.7		
	17.00	71.4		
	18.00	60.2		
	19.00	63.7		
Night	20.00	71.0		
	21.00	64.1		
	22.00	66.8		
	23.00	62.5		
	24.00	63.2		
	1.00	69.0		
	2.00	57.2		
	3.00	59.9		
	4.00	56.6		
	5.00	61.1		
CPCB STANDARDS				
RESIDENTIAL AREA			55	45
INDUSTRIAL AREA			75	70



AUTHORIZED SIGNATORY

Corporate Office and 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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E-Mails : info@svenvirolabs.com, svenviro_labs@yahoo.co.in

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CIN: U74909AP2025PTC119098





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formerly known as SV ENVIRO LABS & CONSULTANTS
Researching for better Environmental Solutions



Ref: SV/ONGC-B/25-09/82

Date: 29-09-2025

NAME AND ADDRESS : M/s. OIL AND NATURAL GAS CORPORATION LTD LTD,
CBM Asset, 1st Floor, HSCI 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 : 09-09-2025

TEST REPORT

Period	Hrs	dB (A)	Leq Day dB (A)	Leq Night dB (A)
Day	6.00	66.4	71.8	61.8
	7.00	72.2		
	8.00	71.5		
	9.00	72.6		
	10.00	71.3		
	11.00	73.5		
	12.00	72.6		
	13.00	71.5		
	14.00	72.3		
	15.00	70.5		
	16.00	71.6		
	17.00	72.3		
	18.00	71.2		
	19.00	70.6		
	20.00	72.3		
	21.00	66.5		
	22.00	64.2		
Night	23.00	59.5	71.8	61.8
	24.00	61.2		
	1.00	62.6		
	2.00	60.3		
	3.00	61.4		
	4.00	62.8		
	5.00	63.6		
CPCB STANDARDS				
RESIDENTIAL AREA			55	45
INDUSTRIAL AREA			75	70

AUTHORIZED SIGNATORY

Corporate Office and Laboratory: Enviro House, B-1, Block-B, IDA, Autonagar, Visakhapatnam - 530012
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CIN: U74909AP2025PTC119098





SV ENVIRO LABS & RESEARCH PRIVATE LIMITED

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Researching for better Environmental Solutions



Ref: SV/ONGC-B/25-09/83

Date: 29-09-2025

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 : 09-09-2025

TEST REPORT

Period	Hrs	dB (A)	Leq Day dB (A)	Leq Night dB (A)
Day	6.00	67.4	67.0	63.0
	7.00	69.2		
	8.00	67.5		
	9.00	66.2		
	10.00	70.3		
	11.00	69.2		
	12.00	67.6		
	13.00	66.9		
	14.00	67.2		
	15.00	66.9		
	16.00	65.6		
	17.00	63.5		
	18.00	55.6		
	19.00	64.2		
	20.00	61.6		
	21.00	59.3		
Night	22.00	61.5		
	23.00	59.3		
	24.00	61.2		
	1.00	65.9		
	2.00	64.2		
	3.00	63.6		
	4.00	60.2		
	5.00	63.4		
CPCB STANDARDS				
RESIDENTIAL AREA			55	45
INDUSTRIAL AREA			75	70



Corporate Office and Laboratory: Enviro House, B-1, Block-B, IDA, Autonagar, Visakhapatnam - 530012
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CIN: U74909AP2025PTC119098





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formerly known as SV ENVIRO LABS & CONSULTANTS
Researching for better Environmental Solutions



Ref: SV/ONGC-B/25-09/84

Date: 29-09-2025

NAME AND ADDRESS : M/s. OIL AND NATURAL GAS CORPORATION LTD LTD,
CBM Asset, 1st Floor, HSCCL 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 : 09-09-2025

TEST REPORT

Period	Hrs	dB (A)	Leq Day dB (A)	Leq Night dB (A)
Day	6.00	72.4	70.7	66.6
	7.00	68.6		
	8.00	71.2		
	9.00	74.3		
	10.00	68.6		
	11.00	65.5		
	12.00	66.2		
	13.00	72.9		
	14.00	73.6		
	15.00	68.5		
	16.00	66.2		
	17.00	70.5		
	18.00	66.2		
	19.00	70.3		
Night	20.00	69.2		
	21.00	67.6		
	22.00	66.9		
	23.00	67.2		
	24.00	66.9		
	1.00	65.6		
	2.00	63.5		
	3.00	67.4		
	4.00	66.2		
	5.00	68.3		
CPCB STANDARDS				
RESIDENTIAL AREA			55	45
INDUSTRIAL AREA			75	70



Corporate Office and 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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CIN: U74909AP2025PTC119098





SV ENVIRO LABS & RESEARCH PRIVATE LIMITED

formerly known as SV ENVIRO LABS & CONSULTANTS
Researching for better Environmental Solutions



Ref: SV/ONGC-B/25-09/85

Date: 29-09-2025

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 : 09-09-2025

TEST REPORT

Period	Hrs	dB (A)	Leq Day dB (A)	Leq Night dB (A)
Day	6.00	67.5	69.1	63.6
	7.00	64.3		
	8.00	63.9		
	9.00	63.2		
	10.00	67.4		
	11.00	64.6		
	12.00	62.5		
	13.00	63.2		
	14.00	68.6		
	15.00	71.5		
	16.00	70.3		
	17.00	67.5		
	18.00	68.4		
	19.00	69.3		
	20.00	72.8		
	21.00	70.2		
Night	22.00	71.6		
	23.00	57.4		
	24.00	60.6		
	1.00	67.2		
	2.00	64.3		
	3.00	63.9		
	4.00	64.2		
CPCB STANDARDS				
RESIDENTIAL AREA			55	45
INDUSTRIAL AREA				70



AS

AUTHORIZED SIGNATORY

Corporate Office and 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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CIN: U74909AP2025PTC119098





SV ENVIRO LABS & RESEARCH PRIVATE LIMITED

formerly known as SV ENVIRO LABS & CONSULTANTS
Researching for better Environmental Solutions



Ref: SV/ONGC-B/25-09/68

Date: 29-09-2025

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 : SV/25/5421

DATE OF COLLECTION : 10-09-2025

DATE OF RECEIPT : 13-09-2025

TEST REPORT

S.NO	PARAMETER	UNIT	RESULT
1.	Temperature	°C	26.4
2.	pH		7.72
3.	Electrical Conductivity	µmhos	1641
4.	Total Dissolved Solids	mg/l	942
5.	Total Alkalinity as CaCO ₃	mg/l	760
6.	Calcium as Ca	mg/l	64.1
7.	Magnesium as Mg	mg/l	26.7
8.	Chlorides as Cl	mg/l	104
9.	Carbonates	mg/l	760
10.	Bi-Carbonates	mg/l	NIL
11.	Iron as Fe	mg/l	<0.01
12.	Sodium as Na	mg/l	189
13.	Sulfate as SO ₄	mg/l	27.2
14.	Oil & Grease	mg/l	<1.0
15.	Total Suspended Solids	mg/l	8.0
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





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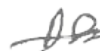
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20.	Cyanide as CN	mg/l	<0.02
21.	Lead as Pb	mg/l	<0.01
22.	Mercury as Hg	mg/l	<0.01
23.	Cadmium as Cd	mg/l	<0.001
24.	Total Chromium as Cr	mg/l	<0.01
25.	Hexavalent Chromium	mg/l	<0.1
26.	Copper as Cu	mg/l	<0.01
27.	Zinc as Zn	mg/l	0.03
28.	Nickel as Ni	mg/l	<0.01
29.	Fluorides as F	mg/l	0.43
30.	Vanadium as V	mg/l	<0.01
31.	Total Arsenic as As	mg/l	<0.01


CHECKED BY




AUTHORIZED SIGNATORY

Recognized by GOI - MoEFCC, Accredited by NABL & NABET

Corporate Office and 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

Website: www.svenvirolabs.com
E-Mails : info@svenvirolabs.com, svenviro_labs@yahoo.co.in

Contacts
0891-2755528, +91 7207664444

PAN: ABQCS0643F
CIN: U74909AP2025PTC119098





SV ENVIRO LABS & RESEARCH PRIVATE LIMITED

formerly known as SV ENVIRO LABS & CONSULTANTS
Researching for better Environmental Solutions



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

VALIDITY: 27-12-2027

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

Date: 16-09-2025

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 : 09-09-2025

START DATE OF TESTING : 12-09-2025

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	4.9	Gas chromatography

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AUTHORIZED SIGNATORY



CSR Details – Bokaro and Jharia

S.no	Project Name	Project cost	Area
1.	Financial assistance for solar based drinking water at Birhor Tanda,Siyari Panchayat,Gomia, Bokaro	₹ 8,52,749.00	Gomia
2.	Financial assistance for providing safe and friendly environment by construction of guard wall drainage Nala ambatola(Khudgada),Panchayat-Hazari	₹ 10,07,504.00	Gomia
3.	Fianancial Assistance for toilet complex at Gomia Police Station, Gomia	₹ 16,44,197.87	Gomia
4.	Financial Assistance for providing solar based deep boring drinking water facilities in Nainatand) of Sadam East village of Gomia block in Bokaro district	₹ 8,52,749.00	Gomia
5.	Financial Assistance for construction of park in front of Bokaro Airport parallel to Chas Main Road , Bokaro .	₹ 7,90,755.00	Gomia
6.	Financial Assistance for socio – economic upliftment of the rural poor women through skill up gradation at Dalal Tola, Block – Gomia, Bokaro	₹ 7,86,940.00	Gomia
7.	Financial Assistance for “Nayi Disha – Carrier Pathway through ITI for youth” at Shilfore Panchayat, Block- Chandankiyari, District- Bokaro.	₹ 14,49,630.00	Jharia
8.	Construction of Solar Drinking Water System in Khudgada Nayi Basti, Upar Tola, Panchayat-Hazari of Gomia Block of Bokaro District	₹ 8,47,512.00	Gomia
9.	Financial Assistance for solar based deep borewell at Dwar and Birhor Dera village , Gomia	₹ 16,93,110.00	Gomia
10.	Construction of Solar Drinking Water System in Tetriyatand village of Hosir East panchayat of Gomia Block of Bokaro District	₹ 8,47,512.00	Gomia
11.	Financial Assistance for construction of solar jal minar with deep boring & solar submersible pump to deliver safe drinking water for better community health at Paisra Kurknalo , Karrikhurd Panchayat ,Gomia	₹ 8,47,512.00	Gomia
12.	Financial Assistance for installation of deep boring with solar based water pump and water tank in Ocho (Gandhigram) village of Siyari Panchayat of Gomia	₹ 8,46,555.00	Gomia
13.	Financial assistance for solar based drinking water facility at Dalal Tola, Muslim Mahalla , Purvi Sadam, Gomia	₹ 8,46,555.00	Gomia

14.	Construction of Solar Drinking Water System in Khudgada Nayi Basti Niche Tola, Panchayat-Hazari of Gomia Block of Bokaro District	₹ 8,46,555.00	Gomia
15.	Financial Assistance for Renovation and Maintenance of Rural water supply scheme along with repair work of various components in Hazari Khudgadda, Gum	₹ 26,52,277.00	Gomia
16.	Financial Assistance for installation of deep boring with solar based watersupply in barwadih village of Tulbul Panchayat of gomia block of bokaro district	₹ 8,46,555.00	Gomia
17.	Financial assistance for providing solar based water supply in Tulbul(Kari Tongri) village of Tulbul Panchayat of Gomia Block of Bokaro District	₹ 8,46,555.00	Gomia
18.	Financial Assistance for installation of 45 solar lights of 20 watts to facilitate the movement of visitos on Lughu Pahad Forest Path , Block-Gomia,	₹ 13,12,376.00	Gomia
19.	Financial assistance for Gym equipments at Upadhyay Tola	₹ 4,09,252.00	Gomia
20.	Financial Assistance installation of solar based water supply in Nav Prathmik Vidyalaya in Village - Tooti Jharna, Panchayat - Teliya, Block - Gomia, District-Bokaro.	₹ 6,97,367.00	Gomia
21.	Financial assistance for Cleanliness And Environmental Protection On The Banks Of Rivers/Ponds For The Convenience Of Villagers at – ONGC ,Operational Area in Gomia Block Of Bokaro District	₹ 6,27,330.00	Gomia
22.	fa for solar drinking water system at Pindra village, tulbul panchayat,gomia block,bokaro dtistrict	₹ 8,46,555.00	Gomia
23.	Financial Assistance installation of solar based water supply/ jal minar in Rajput Tola of Purvi Mahal Village, Panchayat – Purvi Mahal, Block - Chandankiyari	₹ 6,97,367.00	Jharia
24.	Financial assistance for oranganizing "Swachhta pakhwada" from 1st July 2025 to 15 July,2025	₹ 3,49,587.00	Gomia, Jharia
25.	Construction of Deep Boring Solar Drinking Water System at Bauridih village of Chandankiyari block of Bokaro District.	₹ 8,52,705.00	Jharia
26.	Construction of solar based drinking water facility at near Shiv Mandir of Talgaria village of Shilfore Panchayat.	₹ 8,46,555.00	Jharia

27.	Financial assistance for repair and furnishing of Amlabad Village Library, Block Chandankiyari, Bokaro District	₹ 7,76,277.00	Jharia
28.	Construction of Solar Drinking Water System at Maa Tara Ashram, Deogram village of Deogram Panchayat of Chandankiyari block of Bokaro District.	₹ 8,46,555.00	Jharia
29.	Construction of Deep Bore well at Amlabad Police Station, Chandankiyari of Bokaro District.	₹ 8,74,300.00	Jharia
30.	Financial assistance for SWACHHATA HI SEVA 2025 (SHS) Campaign from (17th sep to 2nd Oct)	₹ 3,89,398.00	Gomia, Jharia
31.	Financial assistance for SWACHHATA HI SEVA 2025 (SHS) Campaign from (17th sep to 2nd Oct)	₹ 3,06,450.00	Gomia Jharia

शुद्धता



ONGC

OIL AND NATURAL GAS CORPORATION LTD.

CBM Asset, HSCCL 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.

सीबीएम एसेट, एचएमएमएल जॉइंट्स, प्रथम तल,
 बसामाट, कोयंबटूर - 437004

फोन नं.: 06542-226667, फैक्स नं.: 06542-226666

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 सीबीएम ब्लॉक में विकास हेतु पर्यावरणीय अनुमति प्राप्त हो चुकी है।

अनुमति पत्र की प्रतिलिपियां 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, इयाल, परिसंपत्ति प्रबंधक
सीबीएम एसेट, ओएनजीसी

Form-V
(SEE RULE 14)

Environmental Statement for the Financial Year ending the 31ST March 2025
(1ST April 2024 to 31ST March 2025)

Part- A

1.	Name and Address of the Owner/Occupier of the Industry Operation or Process	Sh. T.R. Unnikrishnan Nair 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	06.09.2024

Part-B

Water and Raw Material Consumption

1. Water Consumption (in m³ for the entire duration)
 - a. Industrial and other: 30 KL/D
 - b. Domestic: 15 KL/D

Name of Product	Process Water Consumption Per Unit Of Product Output	
	During previous Financial year 2023-24	During this Financial year 2024-25
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 100 m³/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)	7.1	13.034
Cotton (Kg)	70	267
Filter (Nos.)	-	47
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	1456.9 Tonnes	1510 Tonnes
Drill Mud	3150 m ³	2520 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. Drilling as generated is stored in waste pit. The water content from discarded waste is subsequently reduced due to evaporation.
- V. 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

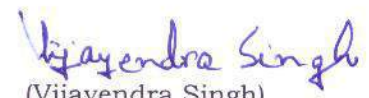
Additional measures/investment proposal for environmental protection including abatement of pollution.

- 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.


(Vijayendra Singh)
CGM (P)-Head HSE

फॉर्म-V
(नियम 14 देखें)

31 मार्च 2024 को समाप्त वित्तीय वर्ष के लिए पर्यावरणीय विवरण
(1 अप्रैल 2024 से 31 मार्च 2025)

भाग- ए

1.	उद्योग संचालन या प्रक्रिया के मालिक/अधिभोगी का नाम और पता	श्री. टी. आर. उन्नीकृष्णन नायर 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	06.09.2024

भाग- बी

पानी और कच्चे माल की खपत

1. पानी की खपत (पूरी अवधि के लिए m^3 में)
क. औद्योगिक और अन्य: 30 केएल/डी
ख. घरेलू: 15 केएल/डी

उत्पाद का नाम	उत्पाद आउटपुट के प्रति यूनिट पानी की खपत की प्रक्रिया	
	पिछले वित्तीय वर्ष 2023-24 के दौरान	इस वित्तीय वर्ष के दौरान 2024-25
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 $100 m^3$ /दिन है। उत्पादित पानी सोडियम के अपवाह 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)	7.1	13.034
कपास (kg)	70	267
फिल्टर (संख्या)	-	47
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	1456.9 टन्स	1510 टन्स
ड्रिल कीचड़	3150 m ³	2520 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।

- तेल की वसूली लागू नहीं है क्योंकि यह गैस आधारित परियोजना है।
- अधिकृत विक्रेताओं के माध्यम से निपटान/पुनर्चक्रण के लिए जला हुआ तेल भेजा गया।
- 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।
- उत्पन्न ड्रिलिंग को अपशिष्ट गड्ढे में संग्रहीत किया जाता है। बाद में वाष्पीकरण के कारण छोड़े गए अपशिष्ट से पानी की मात्रा कम हो जाती है।
- 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।

विजयेंद्र सिंह

(विजयेंद्र सिंह)

सीजीएम (पी) - हेड एचएसई



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Ref: SVELC/ONGC-B/25-02/17

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 : JH # 18 PRODUCED WATER

SITE NAME : JHARIA

SAMPLE CODE : SVELC/25/973

DATE OF COLLECTION : 14-02-2025

TEST REPORT

S.NO	PARAMETER	UNIT	RESULT
1.	Temperature	°C	27.1
2.	pH	-	7.65
3.	Electrical Conductivity	µmhos	2019
4.	Total Dissolved Solids	mg/l	1236
5.	Total Alkalinity as CaCO ₃	mg/l	1352
6.	Calcium as Ca	mg/l	27.2
7.	Magnesium as Mg	mg/l	5.83
8.	Chlorides as Cl	mg/l	275
9.	Carbonates	mg/l	1352
10.	Bi-Carbonates	mg/l	NIL
11.	Iron as Fe	mg/l	<0.1
12.	Sodium as Na	mg/l	83.4
13.	Sulphate 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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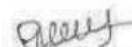
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21.	Lead as Pb	mg/l	<0.01
22.	Mercury as Hg	mg/l	<0.01
23.	Cadmium as Cd	mg/l	<0.001
24.	Total Chromium as Cr	mg/l	<0.01
25.	Hexavalent Chromium	mg/l	<0.1
26.	Copper as Cu	mg/l	<0.01
27.	Zinc as Zn	mg/l	0.07
28.	Nickel as Ni	mg/l	<0.01
29.	Fluorides 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/25-02/18

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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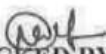
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21.	Lead as Pb	mg/l	<0.01
22.	Mercury as Hg	mg/l	<0.01
23.	Cadmium as Cd	mg/l	<0.001
24.	Total Chromium as Cr	mg/l	<0.01
25.	Hexavalent Chromium	mg/l	<0.1
26.	Copper as Cu	mg/l	<0.01
27.	Zinc as Zn	mg/l	0.10
28.	Nickel as Ni	mg/l	<0.01
29.	Fluorides 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 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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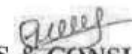
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21.	Lead as Pb	mg/l	<0.01
22.	Mercury as Hg	mg/l	<0.01
23.	Cadmium as Cd	mg/l	<0.001
24.	Total Chromium as Cr	mg/l	<0.01
25.	Hexavalent Chromium	mg/l	<0.1
26.	Copper as Cu	mg/l	<0.01
27.	Zinc as Zn	mg/l	0.04
28.	Nickel as Ni	mg/l	<0.01
29.	Fluorides 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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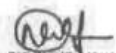
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21.	Lead as Pb	mg/l	<0.01
22.	Mercury as Hg	mg/l	<0.01
23.	Cadmium as Cd	mg/l	<0.001
24.	Total Chromium as Cr	mg/l	<0.01
25.	Hexavalent Chromium	mg/l	<0.1
26.	Copper as Cu	mg/l	<0.01
27.	Zinc as Zn	mg/l	0.02
28.	Nickel as Ni	mg/l	<0.01
29.	Fluorides 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	⁰ 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 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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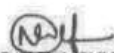
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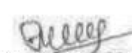
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21.	Lead as Pb	mg/l	<0.01
22.	Mercury as Hg	mg/l	<0.01
23.	Cadmium as Cd	mg/l	<0.001
24.	Total Chromium as Cr	mg/l	<0.01
25.	Hexavalent Chromium	mg/l	<0.1
26.	Copper as Cu	mg/l	<0.01
27.	Zinc as Zn	mg/l	0.09
28.	Nickel as Ni	mg/l	<0.01
29.	Fluorides 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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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/25-02/05

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

AMBIENT AIR

SOURCE OF COLLECTION

NEAR PARBATPUR VILLAGE

SITE NAME

JHARIA

DATE OF COLLECTION

12-02-2025

TEST REPORT

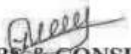
S.No	Parameter	Unit	Result	NAAQ Standard	Method
1.	Particulate Matter – (PM ₁₀)	µg/m ³	58.6	100	IS:5182 (P-23)
2.	Particulate Matter – (PM _{2.5})	µg/m ³	20.3	60	IS:5182 (P-24)
3.	Sulphur Dioxide – SO ₂	µg/m ³	14.3	80	IS:5182 (P-2)
4.	Oxides of Nitrogen - NO _x	µg/m ³	11.7	80	IS:5182(P-6)
5.	Carbon Monoxide – CO	µg/m ³	0.23	2.0	IS:5182 (P-10)
6.	Ozone(O ₃)	µg/m ³	9.1	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	3.6	-	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/ 477-DTE-2024	09.05.2024	08.05.2025


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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

AMBIENT AIR

SOURCE OF COLLECTION

AKASH # 16 at JH#25

SITE NAME

JHARIA

DATE OF COLLECTION

12-02-2025

TEST REPORT

S.No	Parameter	Unit	Result	NAAQ Standard	Method
1.	Particulate Matter – (PM ₁₀)	µg/m ³	72.3	100	IS:5182 (P-23)
2.	Particulate Matter – (PM _{2.5})	µg/m ³	33.9	60	IS:5182 (P-24)
3.	Sulphur Dioxide – SO ₂	µg/m ³	14.4	80	IS:5182 (P-2)
4.	Oxides of Nitrogen - NO _x	µg/m ³	12.1	80	IS:5182(P-6)
5.	Carbon Monoxide – CO	µg/m ³	0.30	2.0	IS:5182 (P-10)
6.	Ozone(O ₃)	µg/m ³	14.7	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	4.2	-	IS:5182(P- 21)
14.	Non- Methane	µg/m ³	3.0	-	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/25-02/07

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 : AMBIENT AIR

SOURCE OF COLLECTION : JH#2

SITE NAME : JHARIA

DATE OF COLLECTION : 12-02-2025

TEST REPORT

S.No	Parameter	Unit	Result	NAAQ Standard	Method
1.	Particulate Matter – (PM ₁₀)	µg/m ³	64.1	100	IS:5182 (P-23)
2.	Particulate Matter – (PM _{2.5})	µg/m ³	23.7	60	IS:5182 (P-24)
3.	Sulphur Dioxide – SO ₂	µg/m ³	11.6	80	IS:5182 (P-2)
4.	Oxides of Nitrogen - NO _x	µg/m ³	12.8	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	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	2.3	-	IS:5182(P- 21)
14.	Non- Methane	µg/m ³	1.2	-	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/ 286-DTF-2018	16.08.2024	15.08.2025

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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 : 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

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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/25-02/02

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

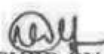
14-02-2025

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

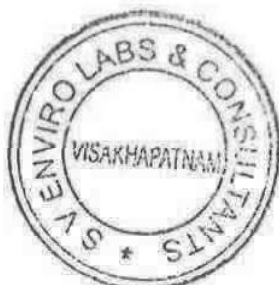
TEST REPORT

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: 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		
CPCB STANDARDS	3.00	59.4		
	4.00	60.8		
	5.00	61.7		
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

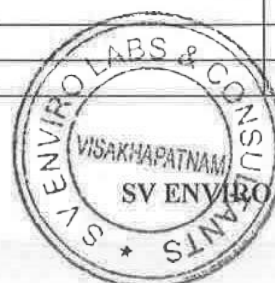
SOURCE OF COLLECTION : Near Control Room Area

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		
	20.00	64.3		
	21.00	62.8		
Night	22.00	65.4		
	23.00	63.7		
	24.00	59.4		
	1.00	54.2		
	2.00	51.6		
	3.00	53.2		
	4.00	55.7		
	5.00	58.1		
CPCB STANDARDS				
RESIDENTIAL AREA			55	45
INDUSTRIAL AREA			75	70



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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		
Night	20.00	66.9		
	21.00	67.1		
	22.00	65.3		
	23.00	66.9		
	24.00	63.4		
	1.00	61.5		
	2.00	63.7		
CPCB STANDARDS	3.00	65.1		
	4.00	63.9		
	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		
	3.00	61.9		
	4.00	59.2		
	5.00	63.7		
CPCB STANDARDS				
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

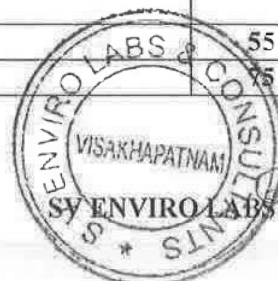
SOURCE OF COLLECTION : Near Fire Water Pump Site Area

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: SVEL/ONGC-B/25-02/12

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 : GG 125 KVA JH #2

LOCATION : JHARIA

DATE OF COLLECTION : 13-02-2025

TEST REPORT

Period	Hrs	dB (A)	Leq Day dB (A)	Leq Night dB (A)
Day	6.00	66.4	68.4	61.7
	7.00	67.2		
	8.00	66.9		
	9.00	69.3		
	10.00	68.4		
	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		
CPCB STANDARDS	3.00	59.4		
	4.00	60.8		
	5.00	61.7		
RESIDENTIAL AREA			55	45
INDUSTRIAL AREA			75	70



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Ref: SVEL/ONGC-B/25-02/13

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 : DG 40 KVA JH #2

LOCATION : JHARIA

DATE OF COLLECTION : 13-02-2025

TEST REPORT

Period	Hrs	dB (A)	Leq Day dB (A)	Leq Night dB (A)
Day	6.00	70.3	69.2	63.3
	7.00	69.8		
	8.00	67.5		
	9.00	69.4		
	10.00	71.5		
	11.00	70.8		
	12.00	69.5		
	13.00	66.8		
	14.00	67.6		
	15.00	69.4		
	16.00	70.8		
	17.00	71.3		
	18.00	68.7		
	19.00	69.8		
	20.00	67.5		
	21.00	68.2		
	22.00	66.9		
Night	23.00	67.8	75	45
	24.00	64.5		
	1.00	63.8		
	2.00	64.2		
	3.00	61.9		
	4.00	59.8		
CPCB STANDARDS				
RESIDENTIAL AREA			55	45
INDUSTRIAL AREA			75	70



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Ref: SVEL/ONGC-B/25-02/14

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 : DG 40 KVA JH #2

LOCATION : JHARIA

DATE OF COLLECTION : 13-02-2025

TEST REPORT

Period	Hrs	dB (A)	Leq Day dB (A)	Leq Night dB (A)
Day	6.00	63.8	65.8	63.0
	7.00	64.1		
	8.00	62.9		
	9.00	69.8		
	10.00	68.6		
	11.00	65.7		
	12.00	66.3		
	13.00	65.7		
	14.00	66.9		
	15.00	63.4		
	16.00	65.8		
	17.00	66.7		
	18.00	67.9		
	19.00	64.5		
Night	20.00	65.3		
	21.00	66.8		
	22.00	64.9		
	23.00	63.7		
	24.00	62.8		
	1.00	61.6		
	2.00	63.8		
CPCB STANDARDS	3.00	62.7		
	4.00	63.5		
	5.00	62.9		
RESIDENTIAL AREA			55	45
INDUSTRIAL AREA			75	70



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