



स्वास्थ , 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 04

Date: 08.12.2025

Sub: Regarding 6 Monthly Compliance of ONGC Jharia CBM Block

On behalf of CBM Asset ONGC, we would like to submit the 6 monthly compliance for Jharia Block with reference to Environmental Clearance, F. No. J-11011/130/2013-IA II (I) dated 11.04.2017

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 for CBM Block of Jharia vide EC: F. No. J-11011/130/2013-IA II (I), dated 11th April, 2017.

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

Specific Conditions		
Sl. No.	Conditions	Compliance status for period 01.04.2025 to 30.09.2025
1.	Ambient air quality shall be monitored near at nearest 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, PM2.5, 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
2.	Mercury shall also be analyzed in air, water and drill cuttings twice during drilling period.	Latest analysis report for air has been enclosed in Annexure-3 .
3.	Approach road shall be made pucca to minimize generation of suspended dust.	Approach roads are made pucca in order to minimize the suspended dust generation.
4.	The company shall make the arrangement for control of noise from the drilling activity. Acoustic enclosure shall be provided to DG sets and proper stack height shall be provided as per CPCB guidelines.	The rig engine and DG sets are provided with acoustic enclosures and hence the noise limits are maintained under the stipulated level. The report of Noise monitoring is enclosed as Annexure-4 . All stacks are conforming to CPCB standards and have sufficient stack height.
5.	Total Water requirement from tankers from nearby testing well/ or bore well at site shall not exceed 800m ³ / well and prior permission shall be obtained from the concerned authority.	Total water requirement is within 800m ³ /well. Mostly the treated produced water is reused in the operations.
6.	The company shall construct the garland drain all around the drilling site to prevent runoff of any oil containing waste into the nearby water bodies. Separate drainage system shall be created for oil contaminated and non-oil contaminated. Effluent shall be properly treated and treated wastewater shall conform to CPCB standards.	CBM Asset produces only Natural Gas. Since, no crude is extracted hence no risk of contamination.
7.	Water based mud shall be used in drilling.	Water based mud is used for drilling.

8.	Disposal of drill cuttings and drilling mud will be in specially designed pit with HDPE lining and is topped with native soil. Other hazardous waste like empty bags, cotton waste, gloves etc. are transported to TSDF site. Whereas, POL/ chemical containers and spent oil are recycled through authorized vendors.	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.
9.	No effluent/ drilling mud/ drill cuttings/ shall be discharged/ disposed off into the nearby surface water bodies.	No effluent/ drilling mud and cuttings are disposed of into the nearby surface water bodies.
10.	The total quantity of Produced water (385 m ³ /day) shall be treated through pre-treatment system which will remove suspended Solids (SS) to less than 10 mg/L. The treatment system shall consist of pressure sand filters, Activated carbon filters, micron cartridge filters, to remove sediments and suspended solids at various stages. After pre-treatment, the water shall be passed through multi-stage RO system (Low pressure and high pressure) to bring down the TDS to 2100mg/L. high pressure pumps will boost the pressure of the water and then fed to the RO system. RO permeate shall be collected in permeate storage pits from where it can be transferred to end use for discharge. Total quantity of 308m ³ / will be treated water with TDS levels below 2100 mg/L. the RO reject of 77 m ³ (20% of 385 m ³) having TDS of about 29000 mg/L will be generated after the Multi-Stage RO treatment. ONGC will consider following two options for disposal of RO rejects.	The project for Surface facility and Pipeline along with produced water handling system is included in the project which shall take care of compliance condition.
11.	Drilling Cuttings generated shall be collected and separated using a solid control system and temporarily stored on site in HDPE lined pits. These cuttings shall be disposed onsite in an impervious pit (10m x 10m x 1.25m) provided with HDPE liners in conformance to the CPCB guidelines. Drilling and wash wastewater generated will also be stored at an onsite HDPE lined pit.	Drilling operations are in compliance with notification G.S.R.546 (E).
12.	Good sanitation facility shall be provided at the drilling site. Domestic sewage shall be disposed-off through septic tank/ soak pit.	Sanitation facility is being maintained at the drilling site. Domestic waste is disposed off in septic tank/ soak pit.

13.	Oil spillage prevention and mitigation scheme shall be prepared. In case of oil spillage/contamination, action plan shall be prepared to clean the site by adopting proven technology. The recyclable waste (oily sludge) and spent oil shall be disposed of to the authorized recyclers.	CBM Asser produces only Natural gas, Since, there is no crude oil obtained by this project, hence there is no risk of oil spillage/contamination.
14.	The project proponent shall take due care and adopt the best practices to ensure that there is no oil spill. However, to meet with any unforeseen situation and combat the oil spill, PP shall prepare the Oil Spill Disaster contingency Plan in line with the provision of National Oil Spill Disaster Contingency Plan. Regular mock drills shall also be conducted.	CBM Asser produces only Natural gas, Since, there is no crude oil obtained by this project, hence there is no risk of oil spillage/contamination. Regular mock drills are done in order to assess the emergency preparedness.
15.	The company shall take necessary measures to prevent fire hazards, containing oil spill and soil remediation as needed. Possibility of using ground flare shall be explored. At the place of ground flaring, 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. CBM Asser produces only Natural gas, Since, there is no crude oil obtained by this project, hence there is no risk of oil spillage/contamination. Flaring is not taking place at present as the project is under establishment.
16.	The company shall develop a contingency plan for H ₂ S release including all necessary aspects from evacuation to resumption of normal operations. The workers shall be provided with personal H ₂ S detectors in locations of high risk of exposure along with self-containing breathing apparatus.	Gas analysis of CBM gas from wells shows H ₂ S below Quantifiable Limits. Analysis report for CBM gas has been enclosed at Annexure 5 .
17.	Emergency Response Plan (ERP) shall be based on the guidelines prepared by OISD, DGMS and Government of India.	ERP is prepared as per the laid guidelines of safety statutory authorities.
18.	All the commitment made to the public during the hearing/ public consultation meeting held on 31st August 2015 and 4th Sep 2015 shall be satisfactorily implemented and adequate budget provisions shall be made accordingly.	All such commitments pertaining to Public Hearing are being implemented.
19.	At least 5% of the total cost of the project shall be earmarked towards the ESC based on public hearing issues, local needs and item wise details along with time bound action plan shall	CSR activities are implemented in the operational areas of ONGC. Brief details of the activities carried under

	be prepared and submitted to the Ministry's regional office.	CSR for the FY 25-26 is enclosed as Annexure 6 .
20.	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.
21.	A separate Environmental Management Cell equipped with full-fledged laboratory facilities shall be set up to carry out the Environmental Management and Monitoring functions.	Environment management cell exists with qualified Environment engineers. However Environment monitoring i.e. Ambient Air Monitoring, Stack emission monitoring, ground water monitoring, noise monitoring etc. is being carried out through NABL Accredited Labs.
General Conditions		
01.	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.	ONGC adheres to directives of JSPCB.
02.	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 that into notice of MoEF&CC.
03.	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 station is installed in the upwind and downwind direction as well as where maximum ground level concentrations are anticipated	AAQ is monitored as per the said condition. Latest Reports enclosed as Annexure-3
04.	The National Ambient Air Quality Emission Standards issued by the Ministry vide G.S.R No. 826(E) dated 16th November, 2009 shall be followed.	AAQ is monitored as per the said condition. Latest Reports enclosed as Annexure-3
05.	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	The rig engine and DG sets are provided with acoustic enclosures and hence the noise limits are maintained under the stipulated level.

	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).	The report of Noise monitoring is attached as Annexure-4 .
06.	The company shall harvest rainwater from the roof tops of the building and storm water drains to recharge the ground water and use the same water to process activities of the project to conserve the fresh water.	The project is still under establishment phase. The provision of rain water harvesting from the roof top will be implemented when new Gas Collection Station (GCS) will be constructed.
07.	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 as per the guidelines.
08.	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.
09.	The company shall undertake all relevant measures for improving the socio-economic conditions of the surrounding area. CSR activities shall be undertaken by involving local villages and administration.	CSR activities are implemented in the operational areas of ONGC. Brief details of the activities carried under CSR for the FY 25-26 is enclosed as Annexure-6 .
10.	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
11.	A separate Environmental Management Cell equipped with full-fledged laboratory facilities shall be set up to carry out the Environmental Management and Monitoring functions.	Environment management Cell exists with qualified Environment engineers. However Environment monitoring i.e. Ambient Air Monitoring, Stack emission monitoring, ground water monitoring, noise monitoring etc. is being carried out through NABL Accredited Labs.

12.	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.
13.	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 local newspaper respectively of the concerned region.
14.	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 compliance (for the period March, 2025 – Sept., 2025) is hereby submitted to MoEF&CC Regional Office, via mail. This compliance report and environment monitoring data will be uploaded in ONGC website i.e. https://www.ongcindia.com
15.	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&CC by e-mail.	Environment statement (Form V) for FY 2024-2025 has been submitted to regional office of MoEF&CC Ranchi dated 06.09.2025 via mail. Form V is enclosed as Annexure-7 .
16.	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	EC was advertised both in English and in Hindi in local newspaper respectively of the concerned region.

	language of the locality concerned and a copy of the same shall be forwarded to the concerned Regional Office of the Ministry.	
17.	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
Vijayendra Singh
CGM (P) - Head HSE
ONGC CBM Bokaro



Government of India
Ministry of Environment, Forest and Climate Change
(IA Division)

Indira Paryavaran Bhawan
Aliganj, Jor Bagh Road
New Delhi – 110 003

Yogendra Pal Singh
Scientist 'D'

F. No. J-11011/130/2013-IA-II (I)

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E-mail : yogendra78@nic.in

Dated: 11th April, 2017

To,

M/s Oil and Natural Gas Corporation Ltd.
Corporate HSE, 8th Floor, Core IV
Scope Minar, Delhi – 110 092

**Sub: Development of Jharia CBM Block, Jharkhand by M/s ONGC –
Environmental Clearance - reg.**

Ref.: Your online proposal no. IA/JH/IND/57123/2013; dated 13th July, 2016.

Sir,

This has reference to your online proposal no. IA/JH/IND/57123/2013; dated 13th July, 2016 along with project documents including Form I, Terms of References, Pre-feasibility Report, EIA/EMP Report along with Public Hearing Report regarding above mentioned project.

2.0 The Ministry of Environment, Forests and Climate Change has examined the application. It is noted that proposal is for Development of Jharia CBM Block, Jharkhand by M/s ONGC. The Jharia CBM Block of Oil and Natural Gas Corporation Limited (ONGC) Block covers 84.55 sq. km area is located in Bokaro and Dhanbad district of Jharkhand. This particular block was awarded for exploration by the Ministry of Petroleum & Natural Gas (MoP& NG) to ONGC on nomination basis in January 2002. ONGC is the operator of the Block, while CIL has a participative interest of 26%. ONGC has completed Phase I (Exploration Phase) & initiated Phase II activities (Pilot Assessment, Market Survey & Commitment Phase).

Environmental clearance (EC) for this Phase II projects was obtained from MoEF&CC vide letter no. J- 11011/287/2006-IA II (I) dated July11, 2007. Presently ONGC as part of its Phase III development program plans to drill an additional 77 nos. development and production wells, installation of 5 Gas Collecting Stations (GCS) and laying of inter-connecting and transportation pipeline network for CBM gas production, collection & transportation and sale. Approximately 209 acre of land would be required for 77 development well and 5 GCS facilities in the Block. Presently 33 acre and 9148.95 sq. ft. of land is available with ONGC. For remaining land required for the project purpose, identification is in the process. Total project cost will be 1136 Crores. Cost for implementation of EMP will be 3.63 Crore. The drilling of wells is expected to be up to a depth of 1200 meters. It is reported that no national park/wildlife sanctuary/biosphere reserves are located within 10 km radius of the Block. It is

also reported that all the proposed activities will be undertaken outside the forest area, primarily in agricultural lands. Water based mud to be used in drilling.

3.0 DG Sets of 350 KVA capacity will be used for drilling purposes. It is estimated that per month 36 KL of diesel will be required during drilling phase.

Approximately 800 m³ of water per well (approximately 1200m depth) will be used for drilling of a well. Water requirement will be met from ground water source. Average 3-5 m³ of water will be consumed per day for operational purpose. 5m³/day/well of CBM produced water will be generated during dewatering operation. Approximately 4.8 m³/day of domestic waste water will be generated from onsite sanitation facility.

Standard Land Rig or Mobile Land Rig with standard water based drilling fluid treatment system will be used for drilling. Drill cuttings generated will be collected and separated using a solid control system and temporarily stored on-site in HDPE lined pits. These cuttings will be disposed onsite in an impervious pit (10m X 10m X 1.25m) provided with HDPE liners in conformance to the CPCB guidelines. Drilling and wash wastewater generated will also be stored at an onsite HDPE lined pit.

The total quantity of Produced Water (385 m³/day) will be treated through Pre-treatment system which will remove Suspended Solids (SS) to less than 10 mg/l. The treatment system will consist of Pressure Sand Filters, Activated Carbon Filters, Micron Cartridge Filters to remove sediment and Suspended Solids at various stages. After Pre-treatment, the water will be passed through Multi-stage RO system (Low Pressure and High Pressure) to bring the TDS level of the treated water below 2100 mg/l. High pressure pumps will boost the pressure of the water and then fed to the RO System. RO permeate shall be collected in permeate storage pits from where it can be transferred to end use or for discharge. Total quantity of 308 m³ will be treated water with TDS levels below 2100 mg/l. The RO reject of 77 m³ (20% of 385 m³) having TDS of about 29,000 mg/l will be generated after Multi-stage RO Treatment. ONGC will consider following two options for disposal of RO rejects:

Option-I: Option shall be explored to use the Reject water for dust sprinkling in the nearby Opencast Coal Mines.

Option-II: In case, Coal Mines are not available in the vicinity of the operational area, this reject amount will be brought in to evaporation tank and evaporated. In that case the evaporation will be fitted with HDPE liner.

4.0 Public Hearing/Public Consultation meeting conducted by the Jharkhand Pollution Control Board on 31st August 2015 and 4th September 2015.

5.0 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.

6.0 The proposal was considered by the Expert Appraisal Committee (Industry) in its 13th and 19th EAC meeting held during 26-27th September, 2016 and 6-7th February, 2017. Project Proponent and the EIA Consultant namely M/s Senes Consultants India Pvt. Ltd., have presented EIA/EMP report as per the TOR. EAC has found the EIA/EMP Report is satisfactory and in full consonance with the presented TORs. The Committee recommended the proposal for environmental clearance.

7.0 Based on the information submitted by the project proponent, the Ministry of Environment and Forests hereby accords environmental clearance to above project under the provisions of EIA Notification dated 14th September 2006, subject to the compliance of the following Specific and General Conditions:

A. SPECIFIC CONDITIONS:

- i. Ambient air quality shall be monitored at the nearest human settlements as per the National Ambient Air Quality Emission Standards 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, HC, Non-methane HC etc.
- ii. Mercury shall also be analyzed in air, water and drill cuttings twice during drilling period.
- iii. Approach road shall be made pucca to minimize generation of suspended dust.
- iv. The company shall make the arrangement for control of noise from the drilling activity. Acoustic enclosure shall be provided to DG sets and proper stack height shall be provided as per CPCB guidelines.
- v. Total water requirement from tankers from nearby testing well/or bore well at site shall not exceed 800 m³/well and prior permission shall be obtained from the Concerned authority.
- vi. The company shall construct the garland drain all around the drilling site to prevent runoff of any oil containing waste into the nearby water bodies. Separate drainage system shall be created for oil contaminated and non-oil contaminated. Effluent shall be properly treated and treated wastewater shall conform to CPCB standards.
- vii. Water based mud shall be used in drilling.
- viii. Disposal of drill cuttings and drilling mud will be in specially designed pit with HDPE lining and is topped with native soil. Other hazardous waste like empty bags, cotton waste, gloves etc are transported to TSDF site. Whereas, POL/chemical containers and spent oil are recycled through authorized vendors.
- ix. No effluent/drilling mud/drill cutting shall be discharged/discharged off into nearby surface water bodies.
- x. The total quantity of Produced Water (385 m³/day) shall be treated through Pre-treatment system which will remove Suspended Solids (SS) to less than 10 mg/l. The treatment system shall consist of Pressure Sand Filters, Activated Carbon Filters, Micron Cartridge Filters to remove sediment and Suspended Solids at various stages. After Pre-treatment, the water shall be passed through Multi-stage RO system (Low Pressure and High Pressure) to bring the TDS level of the treated water below 2100 mg/l. High pressure pumps will boost the pressure of the water and then fed to the RO System. RO permeate shall be collected in permeate storage pits from where it can be transferred to end use or for discharge. Total quantity of 308 m³ will be treated water with TDS levels below 2100 mg/l. The RO reject of 77 m³ (20% of 385 m³) having TDS of about 29,000 mg/l will be generated after Multi-stage RO Treatment. ONGC will consider following two options for disposal of RO rejects.
- xi. Drill cuttings generated shall be collected and separated using a solid control system and temporarily stored on-site in HDPE lined pits. These cuttings will be disposed onsite in an impervious pit (10m X 10m X 1.25m) provided with HDPE liners in conformance to the CPCB guidelines. Drilling

- and wash wastewater generated will also be stored at an onsite HDPE lined pit.
- xii. Good sanitation facility shall be provided at the drilling site. Domestic sewage shall be disposed off through septic tank/ soak pit.
 - xiii. Oil spillage prevention and mitigation scheme shall be prepared. In case of oil spillage/contamination, action plan shall be prepared to clean the site by adopting proven technology. The recyclable waste (oily sludge) and spent oil shall be disposed of to the authorized recyclers.
 - xiv. The project proponent shall take due care and adopt the best practices to ensure that there is no oil spill. However, to meet with any unforeseen situation and combat the oil spill, the PP shall prepare the Oil Spill Disaster Contingency Plan in line with the provisions of the National Oil Spill Disaster Contingency Plan. Regular Mock Drills shall also be conducted.
 - xv. The Company shall take necessary measures to prevent fire hazards, containing oil spill and soil remediation as needed. Possibility of using ground flare shall be explored. At the place of ground flaring, the overhead flaring stack with knockout drums shall be installed to minimize gaseous emissions during operation.
 - xvi. 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.
 - xvii. Emergency Response Plan (ERP) shall be based on the guidelines prepared by OISD, DGMS and Govt. of India.
 - xviii. All the commitments made to the public during public hearing/public consultation meeting held on 31st August 2015 and 4th September 2015 shall be satisfactorily implemented and adequate budget provision shall be made accordingly.
 - xix. At least 5 % of the total cost of the project shall be earmarked towards the Enterprise Social Commitment based on Public Hearing Issues, locals need and item-wise details along with time bound action plan shall be prepared and submitted to the Ministry's Regional Office. Implementation of such program shall be ensured accordingly in a time bound manner.
 - xx. Occupational health surveillance of the workers shall be carried out as per the prevailing Acts and Rules.
 - xxi. Company shall have own Environment Management Cell having qualified persons with proper background (at least one Environmental Manager having post graduate qualification in Environmental Sciences/Environmental Engineering).

B. GENERAL CONDITIONS:

- i. The project authorities must strictly adhere to the stipulations made by the State Pollution Control Board (SPCB), 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.

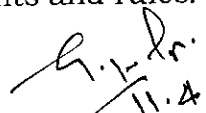
- iii. The locations of ambient air quality monitoring stations shall be decided in consultation with the State Pollution Control Board (SPCB) and it shall be ensured that at least one station is installed in the upwind and downwind direction as well as where maximum ground level concentrations are anticipated.
- iv. The National Ambient Air Quality Emission Standards issued by the Ministry vide G.S.R. No. 826(E) dated 16th November, 2009 shall be followed.
- v. 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).
- vi. The Company shall harvest rainwater from the roof tops of the buildings and storm water drains to recharge the ground water and use the same water for the process activities of the project to conserve fresh water.
- vii. 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.
- viii. 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.
- ix. 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.
- x. The company shall undertake eco-developmental measures including community welfare measures in the project area for the overall improvement of the environment.
- xi. A separate Environmental Management Cell equipped with full fledged laboratory facilities shall be set up to carry out the Environmental Management and Monitoring functions.
- xii. 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.
- xiii. A copy of the clearance letter shall be sent by the project proponent to concerned Panchayat, ZilaParisad/Municipal Corporation, Urban local body and the local NGO, if any, from whom suggestions/representations, if any, were received while processing the proposal.
- xiv. 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 concerned SPCB. A copy of Environmental Clearance and six monthly compliance status report shall be posted on the website of the company.

- xv. 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.
- xvi. 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://moef.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.
- xvii. 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 Pollution) Act, 1981, the Environment (Protection) Act, 1986, the Hazardous and Other Wastes (Management and Trans-boundary Movement) Rules, 2016 and the Public Liability Insurance Act, 1991 along with their amendments and rules.


11.4.2017
(Yogendra Pal Singh)
Scientist 'D'

Copy to:-

1. The Secretary, Department of Environment, Govt. of Jharkhand, Jharkhand.
2. The Chief Conservator of Forests, Regional Office (EZ), A/3, Chandrashekharpur, Bhubaneswar - 751 023. Orissa.
3. The Chairman, Central Pollution Control Board, Parivesh Bhawan, CBD-cum-Office Complex, East Arjun Nagar, New Delhi - 110 032.
4. The Chairman, Jharkhand Pollution Control Board, Town Administrative Building, HEC, Dhurwa, Ranchi - 824 004.
5. Monitoring Cell, Environment, Forests & Climate Change, Indira Paryavaran Bhawan, Jor Bagh, New Delhi.
6. Guard File/Monitoring File/Record File.


11.4.2017
(Yogendra Pal Singh)
Scientist 'D'

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

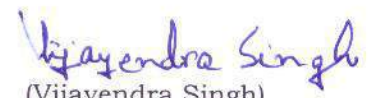
Additional measures/investment proposal for environmental protection including abatement of pollution.

- 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 अपवाद के साथ अच्छी गुणवत्ता का पाया जाता है जिसे जीसीएस, खुदगढ़ में आरओ के माध्यम से उपचारित किया जाएगा।

उत्पादित पानी का उपयोग औद्योगिक उद्देश्यों के लिए भी किया जाता है। उत्पादित पानी की परीक्षण रिपोर्ट अनुबंध- I में संलग्न है।

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

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

भाग-डी

खतरनाक अपशिष्ट

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

खतरनाक अपशिष्ट	कुल मात्रा (केजी)	
	पिछले वित्तीय वर्ष के दौरान	चालू वित्त वर्ष के दौरान
1. प्रक्रिया से -		
खर्च किया तेल (m ³)	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



SV ENVIRO LABS & CONSULTANTS

(ENVIRONMENTAL ENGINEERS & CONSULTANTS IN POLLUTION CONTROL)

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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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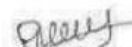
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21.	Lead as Pb	mg/l	<0.01
22.	Mercury as Hg	mg/l	<0.01
23.	Cadmium as Cd	mg/l	<0.001
24.	Total Chromium as Cr	mg/l	<0.01
25.	Hexavalent Chromium	mg/l	<0.1
26.	Copper as Cu	mg/l	<0.01
27.	Zinc as Zn	mg/l	0.07
28.	Nickel as Ni	mg/l	<0.01
29.	Fluorides 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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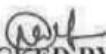
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21.	Lead as Pb	mg/l	<0.01
22.	Mercury as Hg	mg/l	<0.01
23.	Cadmium as Cd	mg/l	<0.001
24.	Total Chromium as Cr	mg/l	<0.01
25.	Hexavalent Chromium	mg/l	<0.1
26.	Copper as Cu	mg/l	<0.01
27.	Zinc as Zn	mg/l	0.10
28.	Nickel as Ni	mg/l	<0.01
29.	Fluorides 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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(ENVIRONMENTAL ENGINEERS & CONSULTANTS IN POLLUTION CONTROL)

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

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

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

Date: 28-02-2025

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

SAMPLE PARTICULARS : PRODUCED WATER

SOURCE OF COLLECTION : OUTLET FILTER WATER TANK

SITE NAME : GCS KHUDGADDA BOKARO

SAMPLE CODE : SVELC/25/975

DATE OF COLLECTION : 14-02-2025

TEST REPORT

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



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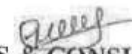
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21.	Lead as Pb	mg/l	<0.01
22.	Mercury as Hg	mg/l	<0.01
23.	Cadmium as Cd	mg/l	<0.001
24.	Total Chromium as Cr	mg/l	<0.01
25.	Hexavalent Chromium	mg/l	<0.1
26.	Copper as Cu	mg/l	<0.01
27.	Zinc as Zn	mg/l	0.04
28.	Nickel as Ni	mg/l	<0.01
29.	Fluorides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


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

Date: 28-02-2025

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

SAMPLE PARTICULARS : PRODUCED WATER

SOURCE OF COLLECTION : FILTRATION WATER (FROM FILTRATION OUTLET)

SITE NAME : GCS KHUDGADDA BOKARO

SAMPLE CODE : SVELC/25/976

DATE OF COLLECTION : 14-02-2025

TEST REPORT

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



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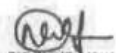
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21.	Lead as Pb	mg/l	<0.01
22.	Mercury as Hg	mg/l	<0.01
23.	Cadmium as Cd	mg/l	<0.001
24.	Total Chromium as Cr	mg/l	<0.01
25.	Hexavalent Chromium	mg/l	<0.1
26.	Copper as Cu	mg/l	<0.01
27.	Zinc as Zn	mg/l	0.02
28.	Nickel as Ni	mg/l	<0.01
29.	Fluorides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


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

Date: 28-02-2025

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

SAMPLE PARTICULARS : PRODUCED WATER

SOURCE OF COLLECTION : BEFORE CARTIDGE

SITE NAME : GCS KHUDGADDA BOKARO

SAMPLE CODE : SVELC/25/977

DATE OF COLLECTION : 14-02-2025

TEST REPORT

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



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


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

Date: 28-02-2025

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

SAMPLE PARTICULARS : PRODUCED WATER

SOURCE OF COLLECTION : AFTER CARTIDGE

SITE NAME : GCS KHUDGADDA BOKARO

SAMPLE CODE : SVELC/25/978

DATE OF COLLECTION : 14-02-2025

TEST REPORT

S.NO	PARAMETER	UNIT	RESULT
1.	Temperature	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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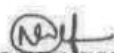
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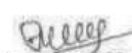
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21.	Lead as Pb	mg/l	<0.01
22.	Mercury as Hg	mg/l	<0.01
23.	Cadmium as Cd	mg/l	<0.001
24.	Total Chromium as Cr	mg/l	<0.01
25.	Hexavalent Chromium	mg/l	<0.1
26.	Copper as Cu	mg/l	<0.01
27.	Zinc as Zn	mg/l	0.09
28.	Nickel as Ni	mg/l	<0.01
29.	Fluorides 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

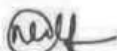
DATE OF COLLECTION : 12-02-2025

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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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

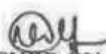
14-02-2025

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**

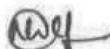
DATE OF COLLECTION : **14-02-2025**

TEST REPORT

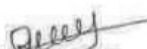
S.No	Parameter	Unit	Result	NAAQ Standard	Method
1.	Particulate Matter – (PM ₁₀)	µg/m ³	61.3	100	IS:5182 (P-23)
2.	Particulate Matter – (PM _{2.5})	µg/m ³	23.9	60	IS:5182 (P-24)
3.	Sulphur Dioxide – SO ₂	µg/m ³	10.6	80	IS:5182 (P-2)
4.	Oxides of Nitrogen - NO _x	µg/m ³	11.7	80	IS:5182(P-6)
5.	Carbon Monoxide – 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

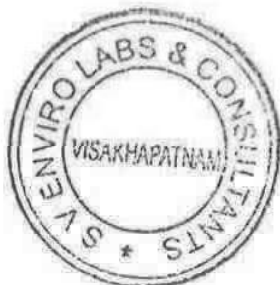
TEST REPORT

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		
	3.00	59.4		
	4.00	60.8		
	5.00	61.7		
CPCB STANDARDS				
RESIDENTIAL AREA			55	45
INDUSTRIAL AREA			75	70



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

Date: 28-02-2025

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

SAMPLE PARTICULARS : NOISE LEVELS

SOURCE OF COLLECTION : Near GG Room Area

LOCATION : BOKARO (GCS Khudgadda)

DATE OF COLLECTION : 13-02-2025

TEST REPORT

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



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

Date: 28-02-2025

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

SAMPLE PARTICULARS : NOISE LEVELS

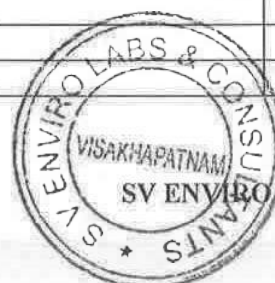
SOURCE OF COLLECTION : Near Control Room Area

LOCATION : BOKARO (GCS Khudgadda)

DATE OF COLLECTION : 13-02-2025

TEST REPORT

Period	Hrs	dB (A)	Leq Day dB (A)	Leq Night dB (A)
Day	6.00	63.2	64.4	58.6
	7.00	64.1		
	8.00	65.9		
	9.00	66.4		
	10.00	65.2		
	11.00	61.8		
	12.00	64.5		
	13.00	64.3		
	14.00	63.1		
	15.00	64.8		
	16.00	65.1		
	17.00	63.4		
	18.00	64.2		
	19.00	65.7		
	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		
	3.00	65.1		
	4.00	63.9		
	5.00	66.4		
CPCB STANDARDS				
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

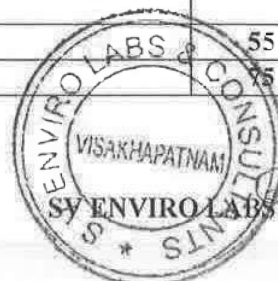
SOURCE OF COLLECTION : Near Fire Water Pump Site Area

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		
	20.00	66.2		
	21.00	66.1		
Night	22.00	66.8		
	23.00	65.7		
	24.00	60.1		
	1.00	59.3		
	2.00	56.2		
	3.00	59.4		
	4.00	60.8		
CPCB STANDARDS	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		
Night	22.00	66.9		
	23.00	67.8		
	24.00	64.5		
	1.00	63.8		
	2.00	64.2		
	3.00	61.9		
CPCB STANDARDS	4.00	59.8		
	5.00	61.2		
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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Ref: SV/ONGC-B/25-09/07

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 PARBATPUR VILLAGE

SITE NAME : JHARIA

DATE OF COLLECTION : 09-09-2025

TEST REPORT

S.No	Parameter	Unit	Result	NAAQ Standard	Method
1.	Particulate Matter – (PM ₁₀)	µg/m ³	55.4	100	IS:5182 (P-23)
2.	Particulate Matter – (PM _{2.5})	µg/m ³	17.1	60	IS:5182 (P-24)
3.	Sulphur Dioxide – SO ₂	µg/m ³	12.6	80	IS:5182 (P-2)
4.	Oxides of Nitrogen - NO _x	µg/m ³	10.3	80	IS:5182(P-6)
5.	Carbon Monoxide – CO	µg/m ³	0.18	2.0	IS:5182 (P-10)
6.	Ozone(O ₃)	µg/m ³	7.6	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	1.2	-	IS:5182(P- 21)

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

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

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PAN: ABQCS0643F
CIN: U74909AP2025PTC119098





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

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 : AMBIENT AIR

SOURCE OF COLLECTION : JH#2

SITE NAME : JHARIA

DATE OF COLLECTION : 10-09-2025

TEST REPORT

S.No	Parameter	Unit	Result	NAAQ Standard	Method
1.	Particulate Matter – (PM ₁₀)	µg/m ³	64.4	100	IS:5182 (P-23)
2.	Particulate Matter – (PM _{2.5})	µg/m ³	20.1	60	IS:5182 (P-24)
3.	Sulphur Dioxide – SO ₂	µg/m ³	10.3	80	IS:5182 (P-2)
4.	Oxides of Nitrogen - NO _x	µg/m ³	11.9	80	IS:5182(P-6)
5.	Carbon Monoxide – CO	µg/m ³	0.18	2.0	IS:5182 (P-10)
6.	Ozone(O ₃)	µg/m ³	12.1	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	1.5	-	IS:5182(P- 21)
14.	Non- Methane	µg/m ³	0.7	-	IS:5182(P- 21)

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

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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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Contacts
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PAN: ABQCS0643F
CIN: U74909AP2025PTC119098





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Ref: SV/ONGC-B/25-09/86

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 125 KVA -JH#8

LOCATION : JHARIA

DATE OF COLLECTION : 10-09-2025

TEST REPORT

Period	Hrs	dB (A)	Leq Day	Leq Night
Day	6.00	69.2	69.9	60.7
	7.00	71.5		
	8.00	68.2		
	9.00	70.5		
	10.00	65.9		
	11.00	63.6		
	12.00	71.5		
	13.00	70.3		
	14.00	69.5		
	15.00	72.3		
	16.00	69.4		
	17.00	70.6		
	18.00	71.4		
	19.00	62.5		
Night	20.00	69.3		
	21.00	63.5		
	22.00	66.8		
	23.00	64.5		
	24.00	60.5		
	1.00	58.6		
	2.00	59.2		
	3.00	60.4		
	4.00	61.3		
	5.00	56.3		
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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Ref: SV/ONGC-B/25-09/87

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 125 KVA -JH#14

LOCATION : JHARIA

DATE OF COLLECTION : 10-09-2025

TEST REPORT

Period	Hrs	dB (A)	Leq Day	Leq Night
Day	6.00	70.5	69.6	58.4
	7.00	68.3		
	8.00	66.2		
	9.00	72.8		
	10.00	59.4		
	11.00	71.1		
	12.00	70.8		
	13.00	69.5		
	14.00	70.2		
	15.00	71.3		
	16.00	70.9		
	17.00	69.6		
	18.00	68.6		
	19.00	65.9		
Night	20.00	60.4		
	21.00	66.3		
	22.00	62.8		
	23.00	64.5		
	24.00	54.9		
	1.00	52.8		
	2.00	57.2		
	3.00	53.6		
	4.00	54.2		
	5.00	57.5		
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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Ref: SV/ONGC-B/25-09/88

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 : DG 200 KVA -JH#2

LOCATION : JHARIA

DATE OF COLLECTION : 10-09-2025

TEST REPORT

Period	Hrs	dB (A)	Leq Day	Leq Night
Day	6.00	65.7	69.7	60.9
	7.00	68.4		
	8.00	73.6		
	9.00	71.5		
	10.00	60.6		
	11.00	62.4		
	12.00	61.3		
	13.00	70.5		
	14.00	66.3		
	15.00	72.4		
	16.00	73.6		
	17.00	72.4		
	18.00	61.3		
	19.00	68.4		
Night	20.00	65.2		
	21.00	62.6		
	22.00	65.4		
	23.00	62.3		
	24.00	60.5		
	1.00	61.2		
	2.00	57.9		
	3.00	60.6		
	4.00	63.1		
	5.00	58.7		
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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Ref: SV/ONGC-B/25-09/80

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 125 KVA -JH#2

LOCATION : JHARIA

DATE OF COLLECTION : 10-09-2025

TEST REPORT

Period	Hrs	dB (A)	Leq Day	Leq Night
Day	6.00	64.6	70.2	66.4
	7.00	71.1		
	8.00	68.8		
	9.00	65.6		
	10.00	66.2		
	11.00	68.9		
	12.00	70.6		
	13.00	71.3		
	14.00	68.7		
	15.00	72.4		
	16.00	73.6		
	17.00	72.8		
	18.00	65.2		
	19.00	69.2		
	20.00	64.6		
Night	21.00	65.3		
	22.00	70.7		
	23.00	67.4		
	24.00	64.1		
	1.00	64.8		
	2.00	65.2		
	3.00	69.2		
	4.00	64.6		
	5.00	67.1		
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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CIN: U74909AP2025PTC119098





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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

CHECKED BY



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