



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: 02.06.2025

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 Oct. 2024 to March 2025.

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

ONGC-CBM Asset, Bokaro has obtained Environment Clearance for CBM Block of Jharia vide EC: F. No. J-11011/130/2013-IA II (I), dated 11th April, 2017 (Copy is attached as **Annexure-1**).

The general condition no. 14 of EC mandates the project proponent to submit the six monthly compliance report to the Regional Office of MoEF&CC.

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

Specific Conditions		
Sl. No.	Conditions	Compliance status for period 01.10.2024 to 31.03.2025
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, SO2, NOx, CO, CH4, VOCs, HC, Non-methane HC etc. Efforts shall be made to improve the ambient air quality of the area.	AAQ is monitored as per the said condition. Latest Reports enclosed as Annexure-2
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-2 . No drilling activity has been done in the compliance period.
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-3 . 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 800m3/ well and prior permission shall be obtained from the concerned authority.	Total water requirement is within 800m3/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	CBM Asset produces only Natural Gas. Since, no crude is extracted hence no risk of contamination.

	treated and treated wastewater shall conform to CPCB standards.	
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. No drilling activity has been done in the compliance period.
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. No drilling activity has been done in the compliance period.
10.	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 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 308m3/ 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 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	Drilling operations are in compliance with notification G.S.R.546 (E). No drilling activity has been done in the compliance period.

	generated will also be stored at an onsite HDPE lined pit.	
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 4 .
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 be prepared and submitted to the Ministry's regional office.	CSR activities are implemented in the operational areas of ONGC. Brief details of the activities carried under CSR for the FY 24-25 is enclosed as Annexure 5 .
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 stations is installed in the upwind and downwind direction as well as where	AAQ is monitored as per the said condition. Latest Reports enclosed as Annexure-2

	maximum ground level concentrations are anticipated	
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-2
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 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 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 attached as Annexure-3 .
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 24-25 is enclosed as Annexure-5 .
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 Oct. 2024 - March, 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 2023-2024 has been submitted to regional office of MoEF&CC Ranchi dated 06.09.2024 via mail. Form V is enclosed as Annexure-6 .

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 language of the locality concerned and a copy of the same shall be forwarded to the concerned Regional Office of the Ministry.	EC was advertised both in English and in Hindi in local newspaper respectively of the concerned region.
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.

Submitted for approval Please.

Vijayendra Singh

02/6/25

विजयेंद्र सिंह/VIJAYENDRA SINGH

मुख्य महाप्रबंधक (उत्पादन)/CGM (P)

प्रधान एक्स्पर्ट/Head HSE

ओएनजीसी, सीबीएम परिसम्पत्ति, बोकारो

ONGC, CBM Asset, Bokaro

ONGC, CDM Asset, Bokaro
District, Jharkhand, India
3211 Head Office
ONGC (PVT) Ltd. (ONGC P)
ONGC, CDM Asset, Bokaro



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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

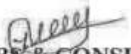
S.No	Parameter	Unit	Result	NAAQ Standard	Method
1.	Particulate Matter – (PM ₁₀)	µg/m ³	58.6	100	IS:5182 (P-23)
2.	Particulate Matter – (PM _{2.5})	µg/m ³	20.3	60	IS:5182 (P-24)
3.	Sulphur Dioxide – SO ₂	µg/m ³	14.3	80	IS:5182 (P-2)
4.	Oxides of Nitrogen - NO _x	µg/m ³	11.7	80	IS:5182(P-6)
5.	Carbon Monoxide – 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: SVELC/ONGC-B/25-02/26

Date: 28-02-2025

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

SAMPLE PARTICULARS : DRILL CUTTING

SOURCE OF COLLECTION : DR 27 at RNAF

SITE NAME : RANIGANJ

SAMPLE CODE : SVELC/25/983

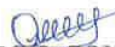
DATE OF COLLECTION : 13-02-2025

TEST REPORT

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


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

Date: 28-02-2025

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

SAMPLE PARTICULARS : NOISE LEVELS

SOURCE OF COLLECTION : GG 125 KVA JH #2

LOCATION : JHARIA

DATE OF COLLECTION : 13-02-2025

TEST REPORT

Period	Hrs	dB (A)	Leq Day dB (A)	Leq Night dB (A)
Day	6.00	66.4	68.4	61.7
	7.00	67.2		
	8.00	66.9		
	9.00	69.3		
	10.00	68.4		
	11.00	69.2		
	12.00	70.4		
	13.00	70.1		
	14.00	69.4		
	15.00	68.3		
	16.00	70.1		
	17.00	69.3		
	18.00	68.2		
	19.00	70.2		
Night	20.00	66.2		
	21.00	66.1		
	22.00	66.8		
	23.00	65.7		
	24.00	60.1		
	1.00	59.3		
	2.00	56.2		
CPCB STANDARDS	3.00	59.4		
	4.00	60.8		
	5.00	61.7		
RESIDENTIAL AREA			55	45
INDUSTRIAL AREA			75	70



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

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

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: SVEL/ONGC-B/24-08/06

Date: 10-09-2024

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 NOISE LEVELS**

DATE OF COLLECTION : **27-08-2024**

TEST REPORT

S.No.	SOURCE OF COLLECTION	Noise levels measured in dB(A)	
		DAY	NIGHT
1.	Near GG 125KVA JH#2	69.8	58.1
2.	Near DG 40 KVA JH#2	67.6	60.4
3.	Near DG 200 KVA-I -JH#2	71.4	62.3
4.	Near DG 200 KVA-II JH#2	72.1	63.4
CPCB STANDARDS		75.0	70.0



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

VALIDITY: 27-12-2027

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

Date: 27-02-2025

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

SAMPLE PARTICULARS : CBM GAS

SOURCE OF COLLECTION : JH #2

SITE NAME : JHARIA

DATE OF COLLECTION : 12-02-2025

DATE OF TESTING : 27-02-2025

TEST REPORT

S.No.	PARAMETER	UNIT	RESULT	METHOD
1.	Hydrogen sulfide as H ₂ S	mg/m ³	BDL(DL=0.69)	USEPA Method 15
2.	Mercury as Hg	mg/m ³	BDL(DL=0.01)	USEPA Method 29

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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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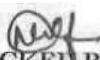
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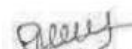
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21.	Lead as Pb	mg/l	<0.01
22.	Mercury as Hg	mg/l	<0.01
23.	Cadmium as Cd	mg/l	<0.001
24.	Total Chromium as Cr	mg/l	<0.01
25.	Hexavalent Chromium	mg/l	<0.1
26.	Copper as Cu	mg/l	<0.01
27.	Zinc as Zn	mg/l	0.07
28.	Nickel as Ni	mg/l	<0.01
29.	Fluorides 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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CSR Projects in Bokaro district for FY 2024-25			
Sl. No	Project Name	AREA	Project Cost
1	Financial Assistance for Providing Smart Computer Lab for the Students of Tenughat Maha Vidyalaya, Tenughat, Gomia, Bokaro District	GOMIA	₹ 14,82,075.00
2	70 Solar Light at Siyari Panchayat ,Gomia ,Bokaro	GOMIA	₹ 14,89,110.00
3	70 Solar Light at Hazari ,Gomia ,Bokaro	GOMIA	₹ 14,89,110.00
4	Renovation of Community pond and Construction of Bath ghat at Bhuiyan Tola , Siyari Panchayat , Bokaro	GOMIA	₹ 13,07,865.00
5	Solar based Deep Bore well at Dhendhe village of Gomia Block , Bokaro	GOMIA	₹ 7,80,428.00
6	Financial Assistance for toilet complex with based deep based deep bore well at middle school Gomadih , Gomia	GOMIA	₹ 16,44,198.00
7	Financial Assistance for construction of community hall for the villagers of Devipur, Hosir West	GOMIA	₹ 9,62,504.00
8	Financial Assistance for solar based deep borewell facility of 5000 L at village Udda , Siyari, Gomia	GOMIA	₹ 8,12,142.00
9	Financial assistance for solar based deep borewell at Devipur village of Gomia, Hosir west	GOMIA	₹ 8,26,247
10	Financial Assistance for solar based deep borewell at Chandubar village of Gomia, Saram East	GOMIA	₹ 8,12,142.00
11	Financial assistance for solar based deep borewell at Pagaria tola, sadam panchayat, gomia, Block	GOMIA	₹ 8,12,142.00
12	Financial assistance for solar based borewell for the villagers of muslim tola, Palani Bandh panchayat, Gomia Block, Bokaro	GOMIA	₹ 14,51,009
13	Financial Assistance for beautification of courtyard of Baba Sahed Dr. Bhima Rao Ambedkar	GOMIA	₹ 7,49,250
14	Financial Assistance for providing 1000 nos of Antiserum Snake Venom to Ardeer Hospital Trust,Gomia	GOMIA	₹ 8,61,000
15	Financial assistance for establishment of Dr Bhimrao Ambedkar's idol in Gaimajurwa, Ganjudihbasti of Hazri panchayat, Gomia,Bokaro	GOMIA	₹ 7,88,085
16	Financial Assistance for providing drinking water facility at Kodwatad Village of Lalpaniya Panchayat of Gomia	GOMIA	₹ 8,52,749
17	Financial Assistance for providing drinking water faciilty at Sarhachiya Panchayat, Tenughat	GOMIA	₹ 8,52,749

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

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



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Ref: SVELC/ONGC-B/25-02/33

Date: 28-02-2025

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

SAMPLE PARTICULARS : **GROUND WATER**

SOURCE OF COLLECTION : **PARBATPUR VILLAGE**

SITE NAME : **JHARIA**

SAMPLE CODE : **SVELC/25/989**

DATE OF COLLECTION : **13-02-2025**

TEST REPORT

S.NO	PARAMETER	UNIT	RESULT
1.	Temperature	°C	27.4
2.	pH	-	7.96
3.	Electrical Conductivity	µmhos	947
4.	Total Dissolved Solids	mg/l	564
5.	Total Alkalinity as CaCO ₃	mg/l	400
6.	Calcium as Ca	mg/l	60.1
7.	Magnesium as Mg	mg/l	36.4
8.	Chlorides as Cl	mg/l	33.7
9.	Carbonates	mg/l	400
10.	Bi-Carbonates	mg/l	NIL
11.	Iron as Fe	mg/l	<0.01
12.	Sodium as Na	mg/l	127
13.	Sulfate as SO ₄	mg/l	34.9
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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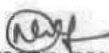
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21.	Lead as Pb	mg/l	<0.01
22.	Mercury as Hg	mg/l	<0.01
23.	Cadmium as Cd	mg/l	<0.001
24.	Total Chromium as Cr	mg/l	<0.01
25.	Hexavalent Chromium	mg/l	<0.1
26.	Copper as Cu	mg/l	<0.01
27.	Zinc as Zn	mg/l	<0.01
28.	Nickel as Ni	mg/l	<0.01
29.	Fluorides as F	mg/l	0.92
30.	Vanadium as V	mg/l	<0.01
31.	Total Arsenic as As	mg/l	<0.01

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Form-V
(SEE RULE 14)

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

Part- A

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

Part-B

Water and Raw Material Consumption

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

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

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

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

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

Part- C

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

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

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

PART-D

HAZARDOUS WASTES

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

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

PART-E

SOLID WASTES

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

PART- F

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

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

PART-G

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

PART-H

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

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

PART I

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

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


(Barnali Das)
GGM(P)-Head HSE

फॉर्म-V
(नियम 14 देखें)

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

भाग- ए

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

भाग- बी

पानी और कच्चे माल की खपत

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

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

2. कच्चे माल की खपत: लागू नहीं

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

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

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

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

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

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

भाग-डी
खतरनाक अपशिष्ट

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

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

भाग-ई
ठोस कचरा

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

भाग-एफ

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

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

भाग-जी

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

भाग-एच

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

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

भाग I

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

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

बर्नाली दास
(बर्नाली दास)

जीजीएम (पी) - हेड एचएसई