

**SIX MONTHLY COMPLIANCE REPORT FOR ENVIRONMENT CLEARANCE
(April 2024 to September 2024)**

1	Name of the project	Onshore Development & Production of Oil & Gas from 53 wells in 7 Blocks in Districts Jorhat and Golaghat (Assam) by M/s Oil and Natural Gas Corporation Ltd - Environmental Clearance
2	Location of project/ address:	Districts Jorhat and Golaghat (Assam)
3	Letter No. & date of Environment Clearance granted by MOEF	F.No. J-11011/86/2019- IA II (I) dated 17 th March, 2021
4	Present Status of project	13 wells have been drilled till March 2023.
5	Date of Commencement of Project	22.05.2021
6	Project Area as Per EC Granted (In Case of Mine Lease)	231.2 sq.km.
7	Actual Project Area (In Case of Mine Lease)	231.2 sq.km.
8	Crude Oil Production during 2023-24	25659.12 MT
9	Natural Gas Production during 2023-24	2.848618 MMSCM

S. No.	Condition Description	Compliances	Remarks
I.	The company shall 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, and risk mitigation measures relating to the project shall be implemented.	All the recommendations made in the EIA/EMP in respect of environmental management, and risk mitigation measures relating to the project are being implemented at all drilling rigs. However, on site visit, HDPE linings were found to be improper in some sites and also, they should have fixed the well name with permanent signage for each of well as per approved EC accorded by Ministry.	In order to comply with the HDPE liner issue, the sites where the liner is improper will be identified and the job of proper fixing of the liners will be taken up on priority.
II.	No pipelines or its part shall be laid in the Forest land/Protected Area without prior permission/approval from the Competent Authority.	Complied	
III.	As proposed by the project proponent, Zero Liquid Discharge shall be ensured and no waste/treated water shall be discharged to any surface water body, sea and/or on land. Mobile ETP along with RO plant shall be installed to treat the waste water	Complied	
IV.	During production, storage and handling, the fugitive emission of methane, if any, shall be monitored using Infra-red camera/ appropriate technology.	Complied.	
V.	The project proponent also to ensure trapping/storing of the CO2 generated, if any, during the process and handling.	Complied.	

VI.	Approach road shall be made pucca to minimize generation of suspended dust.	Complied	
VII.	The project proponent shall make all arrangements for control of noise from the drilling activity. Acoustic enclosure shall be provided for the DG sets along with the adequate stack height as per CPCB guidelines.	Complied	
VIII.	Total fresh water requirement shall not exceed 15 m ³ /day will be met through Tankers. Prior permission shall be obtained from the concerned regulatory authority. Mobile ETP coupled with RO shall be installed to reuse the treated water in drilling system. Size of the waste shall be equal to the hole volume+ volume of drill cutting and volume of discarded mud if any. Two feet free board may be left to accommodate rain water. There shall be separate storm water channel and rain water shall not be allowed to mix with waste water. Alternatively, if possible pit less drilling be practiced instead of above	Prior permission in this regard is being obtained from the concerned regulatory authority. Mobile ETP is associated with each drilling rig working in this project. Waste Pits are made by considering all the safety-measures to prevent any type of spillage. However, project proponent should submit a copy of ground water withdrawal permission and ground monitored report to this office at earliest.	The copy of Central Ground Water Approval is attached at Annexure-A.
IX.	The company shall construct the garland drain 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.	Garland drain is standard practice by ONGC therefore constructed to prevent runoff of any oil containing waste into the nearby water bodies' It was ensured that separate drainage system shall be created for oil contaminated and non-oil contaminated. Project Informed that ETP is in place for effluent treatment. No such observation could be made on garland drain during visiting the drilling location as the wells are not having any active drilling at present.	During the drilling operations, ONGC takes due care of treating the oil contaminated waste with the help of ETP before disposing the same.
X.	Drill cuttings separated from drilling fluid shall be adequately washed and disposed in HDPE lined pit. Waste mud shall be tested for hazardous contaminants and disposed according to HWMH Rules, 2016. No effluent/drilling mud shall be discharged/disposed off into nearby surface water bodies. The company shall comply with the guidelines for disposal of solid waste, drill cutting and drilling fluids for onshore drilling operation notified vide GSR.546(E) dated 30th August, 2005	Drill cuttings are washed thoroughly after separating form drilling fluid and disposed in HDPE lined waste pits. No effluent/drilling mud is discharged/disposed off into nearby surface water bodies. The guidelines for disposal of solid waste drill cutting and drilling fluids for, onshore drilling operation are being followed. However, on site, it was found that the HDPE lining was not proper in some sites. And some places drilled pits were devoid of HDPE lining.	In order to comply with the HDPE liner issue, the sites where the liner is improper will be identified and the job of proper fixing of the liners will be taken up on priority.
XI.	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	Project informed that no oily sludge is being generated during drilling. Burnt lube oil is collected and transported to Drilling Tool Yard for storage and disposed as per regulation. However, on the project site it was observed that oil containing water may runoff into nearby lowland area. Project proponent should properly maintain to prevent oil spillage in the nearby well site.	The runoff of the water into the lowland areas is being ensured by collecting the same in the waste pits after treatment.

XII.	The project proponent shall take necessary measures to prevent fire hazards, containing oil spill and soil remediation as needed. At fixed installations or plants use of ground flare shall be explored. At the place of ground flaring, the overhead flaring stack with knockout drums shall be installed to minimize gaseous emissions during operation	Being Complied	
XIII.	The project proponent 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.	Complied	
XIV.	Blow Out Preventer system shall be installed to prevent well blowouts during drilling operations	Complied	
XV.	On completion of the project, necessary measures shall be taken for safe plugging of wells with secured enclosures to restore the drilling site to the original condition. The same shall be confirmed by the concerned regulatory authority from environment safety angle. In case of hydrocarbon not found economically viable, a full abandonment plan shall be implemented for the drilling site in accordance with the applicable DGH / Indian Petroleum Regulations	In case of abandonment of drill site (if well is dry), well is plugged as per regulations and well mouth get covered with steel plate by welding as per Site Restoration Procedure of ONGC. Restoration of the site is not done in accordance with GSR-546' M/s' Restoration of well plinth has not been initiated. ONGC should take restoration of sites immediately and secured enclosures around the wells for safety. As per submitted restoration plan there is no specific time frame for restoration of the drilled pits area. There is no clear specific calendar plan for declaration of abandoned well after commence in operation. Project proponent should ensure to have restored the drilled pits area within the stipulated time bound manner.	ONGC restores the well site areas once the site is decided to be abandoned. The well sites which are covered under this EC are under production and oil is being produced, therefore regular activities pertaining to production are being held as and when required at these well sites. Also these well sites are obtained on lease and the Site Restoration will be taken up as per the guidelines, once the sites will be surrendered to the owner after the deactivation or abandonment of wells.
XVI.	As per the Ministry's OM dated 30.09.2020 superseding the OM dated 01.05.2018 regarding the Corporate Environmental Responsibility, and as per the action plan proposed by the project proponent to address the socio-economic and environmental issues in the study area, the project proponent, as committed, shall provide education funds in technical training centres/ support in nearby village's schools, support in health care	Following Activities are under planning for the current year:- 1. Safe Drinking water facility in nearby area of ONGC activity at Jorhat. 2. Tree Plantation Activities in ONGC sites as well as in compound of School and public offices of the operation areas. Project proponent should submit a copy of annual calendar in booklet form on environmental protection measures.	ONGC has taken up various activities under the CER for the said project. The details of the same along with the future plan of activity wise CER expenditure is attached at Annexure-B.

	facilities, drinking water supply and funds for miscellaneous activities like solar street lights, battery, solar panel etc., in the nearby villages. The action plan shall be completed within time as proposed		
XVII.	No lead acid batteries shall be utilized in the project/site.	Complied	
XVIII.	Occupational health surveillance of the workers shall be carried out as per the prevailing Acts and Rules. All workers & employees shall be provided with required safety kits/mask for personal protection.	Complied.	
XIX.	Oil content in the drill cuttings shall be monitored and report & shall sent to the Ministry's Regional Office	Complied	
XX.	The project proponent shall prepare operating manual in respect of all activities, which would cover all safety & environment related issues and measures to be taken for protection. One set of environmental manual shall be made available at the drilling site/ project site. Awareness shall be created at each level of the management. All the schedules and results of environmental monitoring shall be available at the project site office. Remote monitoring of site should be done.	Complied.	
B	General Conditions		
I.	No further expansion or modifications in the plant, other than mentioned in the EIA Notification, 2006 and its amendments, shall be carried out without prior approval of the Ministry of Environment, Forest and Climate Change/SEIAA, as applicable. 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/SEIAA, as applicable, to assess the adequacy of conditions imposed and to add additional environmental protection measures required, if any.	Ministry accorded EC for "Onshore Development and production of oil & gas from 53 wells in 7 ML blocks by M/s. Oil and Natural Gas corporation Limited located in Jorhat and Golaghat districts, Assam. "13 nos. of wells already drilled and remaining 40 wells are yet to be drilled, which are as follows; Project Proponent should submit the date of drilling and production remaining details of the mentioned 40 wells and newly proposed 22 wells as find when initiated.	As and when the further drilling activities will be taken up, the same will be communicated to your kind office accordingly.
II.	The energy source for lighting purpose shall be preferably LED based, or advanced having preference in energy conservation and environment betterment	Complied	
III.	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	Complied.	

	ambient noise levels shall conform to the standards prescribed under the Environment (Protection) Act, 1986 Rules, 1989 viz.75 dBA (day time) and 70 dBA (night time).		
IV.	The company shall undertake all relevant measures for improving the socio - economic conditions of the surrounding area. CER activities shall be undertaken by involving local villages and administration and shall be implemented. The company shall undertake eco- developmental measures including community welfare measures in the project area for the overall improvement of the environment	Following Activities are under planning for the current year:- 1. Safe Drinking water facility in nearby area of ONGC activity at Jorhat 2. Tree Plantation Activities in ONGC sites as well as in compound of School and public offices of the operation areas. However, corporate Environment Responsibility (CER) plant is yet to be prepared' Project proponent should have submitted the approved signed copy of annual action plan in booklet form / micro action plan and their implementation status on CREP to this sub office.	ONGC has taken up various activities under the CER for the said project. The details of the same along with the future plan of activity wise CER expenditure is attached at Annexure-B.
V	The company shall earmark sufficient funds towards capital cost and recurring cost per annum to implement the conditions stipulated by the Ministry of Environment, Forest and Climate Change 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 are earmarked towards capital cost and recurring cost per annum to implement the conditions stipulated by the Ministry of Environment, Forest and Climate Change as well as the State Government along with the implementation schedule for all the conditions stipulated herein. It is ensured that funds so earmarked for environment management/ pollution control measures shall not be diverted for any other purpose. The year wise and activity wise expenditure incurred for environmental protection measures have not been recorded and furnished to this, office particularly for this project. Project proponent should have submitted the approved signed copy of year wise action plan / micro action plan and their implementation status on to this Ministry office, Guwahati.	Under this project, 13 development wells have been drilled till date and the details of expenditure incurred for environmental protection measures during this period is attached at Annexure-C. Further the activity wise action plan is attached at Annexure-D.
VI	A copy of the clearance letter shall be sent by the project Parishad/Municipal Corporation, Urban local Body and the local NGO, if any, from whom suggestions/ representations, if any, were received while processing the proposal	Complied.	
VII	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 email) to the respective Regional Office of MoEF&CC, the respective Zonal Office of CPCB and SPCB. A copy of Environmental Clearance and six monthly compliance status report shall be posted on the website of the company	Complied.	

VIII	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	Complied.	
IX	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 and at https://parivesh.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	Complied.	
X	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.	Complied.	
XI	This Environmental clearance is granted subject to final outcome of Hon'ble Supreme Court of India, Hon'ble High Court, Hon'ble NGT and any other Court of Law, if any, as may be applicable to this project.	Complied.	



(भूजल निकासी हेतु अनापत्ति प्रमाण पत्र)
NO OBJECTION CERTIFICATE (NOC) FOR GROUND WATER ABSTRACTION

Project Name:	Oil And Natural Gas Corporation (ongc)		
Project Address:	Borholla Ggs, Mauza: Amguri Khatkatia, P.o: Borholla		
Village:	Sildubi	Block:	Titabor
District:	Jorhat	State:	Assam
Pin Code:			
Communication Address:	Nambar-iii Building, Ongc Cinnamara, Jorhat, Assam, Jorhat, Jorhat, Assam - 785704		
Address of CGWB Regional Office :	Central Ground Water Board North Eastern Region, Betkuchi, Opposite Isbt,, Nh-37, Guwahati,, Kamrup Metro, Assam - 781005		

1. NOC No.:	CGWA/NOC/IND/ORIG/2023/17794		2. Date of Issuance	20/02/2023								
3. Application No.:	21-4/2447/AS/IND/2022		4. Category: (GWRE 2020)	Safe								
5. Project Status:	Existing Project		6. NOC Type:	New								
7. Valid from:	20/12/2022		8. Valid up to:	19/12/2025								
9. Ground Water Abstraction Permitted:												
	Fresh Water		Saline Water		Dewatering		Total					
	m ³ /day	m ³ /year	m ³ /day	m ³ /year	m ³ /day	m ³ /year	m ³ /day	m ³ /year				
	22.00	8030.00										
10. Details of ground water abstraction /Dewatering structures												
	Total Existing No.:4						Total Proposed No.:0					
	DW	DCB	BW	TW	MP	MPu	DW	DCB	BW	TW	MP	MPu
Abstraction Structure*	0	0	4	0	0	0	0	0	0	0	0	0
*DW- Dug Well; DCB-Dug-cum-Bore Well; BW-Bore Well; TW-Tube Well; MP-Mine Pit;MPu-Mine Pumps												
11. Ground Water Abstraction/Restoration Charges paid (Rs.):							8038.00					
12. Number of Piezometers(Observation wells) to be constructed/ monitored & Monitoring mechanism.	No. of Piezometers						Monitoring Mechanism					
							Manual	DWLR**	DWLR With Telemetry			
**DWLR - Digital Water Level Recorder	1						1	0	0			

(Compliance Conditions given overleaf)

This is an auto generated document & need not to be signed.

Validity of this NOC shall be subject to compliance of the following conditions:

Mandatory conditions:

- 1) Installation of tamper proof digital water flow meter with telemetry on all the abstraction structure(s) shall be mandatory for all users seeking No Objection Certificate and intimation regarding their installation shall be communicated to the CGWA within 30 days of grant of No Objection Certificate.
- 2) Proponents shall mandatorily get water flow meter calibrated from an authorized agency once in a year.
- 3) Construction of purpose-built observation wells (piezometers) for ground water level monitoring shall be mandatory as per Section 14 of Guidelines. Water level data shall be made available to CGWA through web portal. Detailed guidelines for construction of piezometers are given in Annexure-II of the guidelines.
- 4) Proponents shall monitor quality of ground water from the abstraction structure(s) once in a year. Water samples from bore wells/ tube wells / dug wells shall be collected during April/May every year and analysed in NABL accredited laboratories for basic parameters (cations and anions), heavy metals, pesticides/ organic compounds etc. Water quality data shall be made available to CGWA through the web portal.
- 5) In case of mining projects, additional key wells shall be established in consultation with the Regional Director, CGWB for ground water level monitoring four (4) times a year (January, May, August and November) in core as well as buffer zones of the mine.
- 6) In case of mining project the firm shall submit water quality report of mine discharge/ seepage from Govt. approved/ NABL accredited lab.
- 7) The firm shall report compliance of the NOC conditions online in the website (www.cgwa-noc.gov.in) within one year from the date of issue of this NOC.
- 8) Industries abstracting ground water in excess of 100 m³/d shall undertake annual water audit through certified auditors and submit audit reports within three months of completion of the same to CGWA. All such industries shall be required to reduce their ground water use by at least 20% over the next three years through appropriate means.
- 9) Application for renewal can be submitted online from 90 days before the expiry of NOC. Ground water withdrawal, if any, after expiry of NOC shall be illegal & liable for legal action as per provisions of Environment (Protection) Act, 1986.
- 10) This NOC is subject to prevailing Central/State Government rules/laws/norms or Court orders related to construction of tube well/ground water abstraction structure / recharge or conservation structure/discharge of effluents or any such matter as applicable.

General conditions:

- 11) No additional ground water abstraction and/or de-watering structures shall be constructed for this purpose without prior approval of the Central Ground Water Authority (CGWA).
- 12) The proponent shall seek prior permission from CGWA for any increase in quantum of groundwater abstraction (more than that permitted in NOC for specific period).
- 13) Proponents shall install roof top rain water harvesting in the premise as per the existing building bye laws in the premise.
- 14) The project proponent shall take all necessary measures to prevent contamination of ground water in the premises failing which the firm shall be responsible for any consequences arising thereupon.
- 15) In case of industries that are likely to contaminate the ground water, no recharge measures shall be taken up by the firm inside the plant premises. The runoff generated from the rooftop shall be stored and put to beneficial use by the firm.
- 16) Wherever feasible, requirement of water for greenbelt (horticulture) shall be met from recycled / treated waste water.
- 17) Wherever the NOC is for abstraction of saline water and the existing wells (s) is /are yielding fresh water, the same shall be sealed and new tubewell(s) tapping saline water zone shall be constructed within 3 months of the issuance of NOC. The firm shall also ensure safe disposal of saline residue, if any.
- 18) Unexpected variations in inflow of ground water into the mine pit, if any, shall be reported to the concerned Regional Director, Central Ground Water Board.
- 19) In case of violation of any NOC conditions, the applicant shall be liable to pay the penalties as per Section 16 of Guidelines.
- 20) This NOC does not absolve the proponents of their obligation / requirement to obtain other statutory and administrative clearances from appropriate authorities.
- 21) The issue of this NOC does not imply that other statutory / administrative clearances shall be granted to the project by the concerned authorities. Such authorities would consider the project on merits and take decisions independently of the NOC.
- 22) In case of change of ownership, new owner of the industry will have to apply for incorporation of necessary changes in the No Objection Certificate with documentary proof within 60 days of taking over possession of the premises.
- 23) This NOC is being issued without any prejudice to the directions of the Hon'ble NGT/court orders in cases related to ground water or any other related matters.
- 24) Proponents, who have installed/constructed artificial recharge structures in compliance of the NOC granted to them previously and have availed rebate of upto 50% (fifty percent) in the ground water abstraction charges/ground water restoration charges, shall continue to regularly maintain artificial recharge structures.
- 25) Industries which are likely to cause ground water pollution e.g. Tanning, Slaughter Houses, Dye, Chemical/ Petrochemical, Coal washeries, pharmaceutical, other hazardous units etc. (as per CPCB list) need to undertake necessary well head protection measures to ensure prevention of ground water pollution as per Annexure III of the guidelines.
- 26) In case of new infrastructure projects having ground water abstraction of more than 20 m³/day, the firm/entity shall ensure implementation of dual water supply system in the projects.
- 27) In case of infrastructure projects, paved/parking area must be covered with interlocking/perforated tiles or other suitable measures to ensure groundwater infiltration/harvesting.
- 28) In case of coal and other base metal mining projects, the project proponent shall use the advance dewatering technology (by construction of series of dewatering abstraction structures) to avoid contamination of surface water.
- 29) The NOC issued is conditional subject to the conditions mentioned in the Public notice dated 27.01.2021 failing which penalty/EC/cancellation of NOC shall be imposed as the case may be.
- 30) This NOC is issued subject to the clearance of Expert Appraisal Committee (EAC) (if applicable).

(Non-compliance of the conditions mentioned above is likely to result in the cancellation of NOC and legal action against the proponent.)

Annual Calendar for CER Activities

Year	CER Activity	CER Expenditure in Lacs
2021-22	Solar Light	5 lacs
2022-23	Solar Light	60 lacs
	Drinking Water	14 lacs
2023-24	Plantation	5 lacs
	Solar Light	30 lacs
2024-25	Plantation	50 lacs
	Drinking Water	25 lacs
	Education	10 lacs
	Health Camps	10 lacs

Sr. No.	Mitigation/Management Measures	Total Expenditure for 13 Wells
1.	Wastewater and Effluent Management ETP Water Quality Monitoring	18,00,000
2.	Fuel, Lubricant and Chemical Management	4,00,000
3.	Noise and Vibration Mitigation Acoustic Enclosure and Personal Protective Equipment Noise Monitoring Maintenance cost of Equipment	1,75,000
4.	Solid Waste Management	2,50,000
5.	Air emission mitigation Maintenance of D.G.sets Air monitoring	90,000
6.	General Awareness in Local Public	1,50,000
7.	Total	28,65,000-/-

Activity	Management/Mitigation Measure	Action Taken	Remarks
Land Procurement	<ul style="list-style-type: none"> If the identified lands are of private landowners then land lease mode would be applied and in case of govt. land, land allotment from Govt. would be applied. The livelihood of local community, if affected by the proposed land take, would be identified and compensated through adequate compensation and other livelihood restoration activities directly or indirectly through CSR activities 	ONGC – Project Team	The land acquisition and compensation process is being followed throughout the Project.
Site clearance and Grading	<ul style="list-style-type: none"> The final site selection would be done for site with minimum trees, and involving minimum cutting; Top soil would be properly stored for future use. Water sprinkling would be carried out while working in proximity of agricultural fields or settlements/habitations; 	ONGC – Project team	The procedure is being followed throughout the Project.
Construction of drill site	<ul style="list-style-type: none"> Temporary storage sheds would be provided for construction material such as cement; Excavated soil would be used during site preparation; Provision and usage of adequate PPEs to workers as applicable and identified for the respective activity. . 	ONGC – Project team & Civil Contractor	The procedure is being followed throughout the Project.
Construction of camp of site	<ul style="list-style-type: none"> Surface conditions would be examined prior to movement of crane; Provision and usage of adequate PPEs to workers as applicable and identified for the respective activity. 	ONGC – Project team & Civil Contractor	The procedure is being followed throughout the Project.
Transportation of drilling components and rig	<ul style="list-style-type: none"> Only trained drivers with expertise in defensive driving would be involved in the movement of rigs. All movement of major equipment would be scheduled in the lee hours in consideration of the traffic movement in the connecting major arterial road. Local administration and village administration as applicable would be informed during movement of rigs through village roads; 	ONGC – Project team & Contractor - HSE	The procedure is being followed throughout the Project.
Drilling & Well testing	<ul style="list-style-type: none"> Water would be sourced from the locally approved source or ground water would be withdrawn prior approval of CGWA Two separate Drill cutting disposal pits would be provided 	ONGC – Project team & Contractor - HSE	The procedure is being followed throughout the Project.
	<ul style="list-style-type: none"> Drill waste pits would be provided with HDPE lining on bottom and side surfaces; Used hazardous chemical barrels, used oil and other hazardous waste would be sent to ASPCB authorized recyclers; 	ONGC – Project team & Contractor - HSE	The procedure is being followed throughout the Project.

	<p>Equipment upkeep and regular maintenance to minimise noise generation from all rotary equipment; PPE's such as ear plugs, muffs would be provided to workers at site;</p> <ul style="list-style-type: none"> • Periodic maintenance of vehicles and machinery would be undertaken; • DG sets would be provided with acoustic enclosures as per requirements under CPCB guideline. 		
	<ul style="list-style-type: none"> • Adequate stack heights would be providing for generators, adhering to the CPCB standards for diesel generators; 	ONGC – Project team & Contractor - HSE	The procedure is being followed throughout the Project.
	Migrant labour would be sensitized towards customs and traditions of the local population;	ONGC – Project team & Contractor - HSE	The procedure is being followed throughout the Project.
	<p>Blowout preventers would be provided;</p> <ul style="list-style-type: none"> • Firefighting measures would be provided near all welding operations; 	ONGC – Project team & Contractor - HSE	The procedure is being followed throughout the Project.
Operation of Campsites	<p>Safe drinking water to be provided at campsites;</p> <ul style="list-style-type: none"> • All waste would be collected in bins located near each set of porta cabins. Segregation of waste at the source of generation would be put in practice. 	ONGC – Project team & Contractor - HSE	The procedure is being followed throughout the Project.
Decommissioning and Abandonment	<p>site restoration approved plan shall be prepared with the detailed checklist;</p> <ul style="list-style-type: none"> • All drill cuttings, spent mud, waste oil and other waste would be completely removed from the site and sent to designated disposal place prior to commencement of demolition work; • All concrete or steel installations would be removed to at least 1 m below ground level, so as to ensure that there would be no protruding surface Structures. The casing wellhead and the top joint of the casings would be cut below the ground level and capped with a cement plug. • Prior to commencement of any demolition, a planned programme of site clearance would be formulated. All pits, cellars and holes would be removed and filled to ground level, any oil or otherwise contaminated soil would be removed and disposed to suitably. 		Decommissioning and Abandonment Procedure is not applicable at this stage of project as all the wells are producing. However it is being ensured that after the rig operations the well site is clear.



ऑयल एण्ड नेचुरल गैस कॉर्पोरेशन लिमिटेड
कार्पोरेट भूतल प्रबंधक, नाबबर, जोरहाट परिसर, जोरहाट - 785704-असम
Oil and Natural Gas Corporation Limited
Office of Surface Manager, Nambar-III, Jorhat Asset,
Jorhat - 785704, Assam, Mobile: 9427504236,
Tel: 0376-2707314, e-mail: s_subash@ongc.co.in

No. JRT / Jorhat Asset / ST/ ENV Statement/ 2023-24

Dated : 05.07.2024

From : Surface Area Manager, Jorhat Asset

To: Head HSE, Jorhat Asset

Please find enclosed herewith environmental statement for April 2023- March 2024 attached Form-V against Environment Clearance order issued vide no. F. No. IA-J-11011/86/2019-IA-II(1) dated 17th March 2021 for "Onshore Development and production of Oil & Gas from 53 wells in 7 ML Blocks by M/s Oil and Natural Gas corporation Limited located in Jorhat and Golaghat districts, Assam" pertaining to activities of Production Activities of Jorhat Asset. This is for your information and necessary action please.

S Subash, CGM(P)

Surface Manager

Isolated Production Oil Mine, Jorhat

S. SUBASH

Chief General Manager (Production)
Surface Manager, Jorhat Asset

FORM - V

(SEE RULE 14)

ENVIRONMENTAL STATEMENT FOR THE FINANCIAL YEAR ENDING THE 31ST MARCH 2024

(PERIOD 1ST APRIL 2023 TO 31ST MARCH 2024)

PART-A

(I) NAME AND ADDRESS OF THE OWNER/OCCUPIER OF THE INDUSTRY OPERATION OR PROCESS- SHRI AMIT KUMAR, ASSET MANAGER, JORHAT ASSET- M/S OIL & NATURAL GAS CORPORATION LIMITED, JORHAT ASSET, DISTT. JORHAT (ASSAM)

(II) INDUSTRY CATEGORY PRIMARY - (STC CODE) SECONDARY - STC CODE)

(III) PRODUCTION CAPACITY- 25659.12 MT OF CRUDE OIL AND 2.848618 MMSCM OF NATURAL GAS.

(IV) YEAR OF ESTABLISHMENT:

(V) DATE OF THE LAST ENVIRONMENTAL STATEMENT SUBMITTED: NA

PART-B

WATER AND RAW MATERIAL CONSUMPTION

(I) WATER CONSUMPTION (M³)

PROCESS & COOLING: NIL M³

DOMESTIC: NIL M³

INJECTION: NIL M³

NAME OF PRODUCTS
PRODUCT

PROCESS WATER CONSUMPTION PER UNIT OF

OUTPUT

MARCH

DURING THE PREVIOUS
YEAR ENDING 31ST MARCH

DURING THE CURRENT
YEAR ENDING 31ST

(1)

(2)

(3)

CRUDE OIL+ OIL EQUIVALENT OF
NATURAL GAS

— MT

— MT

(II) RAW MATERIAL CONSUMPTION

*NAME OF RAW MATERIAL PER UNIT	NAME OF PRODUCTS	CONSUMPTION OF RAW MATERIAL	
		DURING THE PREVIOUS YEAR ENDING 31 ST MARCH	DURING THE YEAR ENDING 31 ST MARCH
NIL	CRUDE OIL & NATURAL GAS	NA	NA

INDUSTRIAL MAY USE CODES IF DISCLOSING DETAILS OF RAW MATERIAL WOULD VIOLATE CONTRACTUAL OBLIGATIONS, OTHER ALL INDUSTRIALS HAVE TO NAME THE RAW MATERIAL USED.

PART - C

POLLUTION DISCHARGED TO ENVIRONMENT/UNIT OF OUTPUT
(PARAMETER AS SPECIFIED IF THE CONSENT ISSUED)

POLLUTION PERCENTAGE OF	QUANTITY OF POLLUTANTS CONCENTRATION OF POLLUTIONS		PRESCRIBED STANDARDS WITH REASONS
	DISCHARGED (MASS/DAY) VARIATION FORM	IN DISCHARGED (MASS/VOLUME)	

(A) WATER: IN CASE OF DRILLING ACTIVITIES, APPROX ——— M³ OF DRILL MUD, DRILL CUTTINGS AND EFFLUENT WATER - PER METER OF DRILL LENGTH IS PROCEED. EFFLUENT WATER IS TREATED USING MOBILE ETP, RECYCLED AND REUSED IN DRILLING OPERATIONS. IN PRODUCTION ACTIVITIES, EFFLUENT GENERATED IS USED FOR INTERNAL CONSUMPTION.

(B) AIR: AMBIENT AIR QUALITY MONITORING OF VARIOUS INSTALLATIONS/RIGS (**PROVIDE DETAIL**)

(C) NOISE: NOISE LEVEL MONITORING AT PRODUCTION INSTALLATIONS DONE BY POLLUTION CONTROL BOARD AUTHORIZED AGENCIES (SAMPLE REPORT ENCLOSED AT ANNEX-III)

**PART-D
HAZARDOUS WASTES**

(AS SPECIFIED UNDER HAZARDOUS WASTES (MANAGEMENT AND HANDLING) RULES, 1989)

HAZARDOUS WASTES	TOTAL QUANTITY (KG)	
	DURING THE PREVIOUS YEAR ENDING 31 ST MARCH	DURING THE CURRENT YEAR ENDING 31 ST
MARCH		
(A) FORM PROCESS	— MT	— MT
(B) FORM POLLUTION CONTROL FACILITIES	— MT	— MT

**PART - E
SOLID WASTES**

HAZARDOUS WASTES	TOTAL QUANTITY	
	DURING THE PREVIOUS YEAR ENDING 31 ST MARCH	DURING THE CURRENT YEAR ENDING 31 ST
MARCH		
(A) FORM PROCESS	—	—
(B) FORM POLLUTION CONTROL FACILITIES	—	—
(C)		
(1) QUANTITY RECYCLED OR RE-UTILIZED WITHIN THE UNIT		
(2) SOLID- NIL		NIL
(3) DISPOSED- K.G. — BARRELS — GALLONS — MT, — BARRELS, —		
FILTERS		

PART F

PLEASE SPECIFY THE CHARACTERIZATION (IN TERMS OF COMPOSITION 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 CARRIED OUT FROM OILY SLUDGE BY(IF ANY- PROVIDE DETAIL). -NIL
- II. BIOREMEDIATION JOB FOR ENVIRONMENT FRIENDLY TREATMENT OF OILY SLUDGE - NIL
- III. BURNED OIL SENT FOR DISPOSAL/ RECOVERY THROUGH AUTHORIZED VENDERS - NIL
- IV. SOLID WASTE LIKE BARRELS, DRUMS DISPOSAL DETAIL- STORED AT SITE
- V. OLD BATTERIES (PROVIDE DISPOSAL DETAIL)- BUY BACK CONTRACT WITH SUPPLIERS

PART G

IMPACT OF THE POLLUTION ABATEMENT MEASURES TAKEN ON CONSERVATION OF NATURAL RESOURCES AND ON THE COST OF PRODUCTION: N/A

PART H

ADDITIONAL MEASURES: INVESTMENT PROPOSAL FOR ENVIRONMENTAL PROTECTION ABATEMENT OF POLLUTION, PREVENTION OF POLLUTION.

- I. ENVIRONMENTAL MONITORING (AIR, WATER, SOIL AND NOISE) DETAIL: Enclosed
- II. BIOREMEDIATION JOB (PROVIDED DETAILS): ——MT SLUDGE WHICH IS TREATED THROUGH BIOREMEDIATION BY OTBL
- III. ACOUSTIC ENCLOSURES - ALL THE GENSETS ARE ACOUSTICALLY ENCLOSED

PART I

ANY OTHER PARTICULARS FOR IMPROVING THE QUALITY OF THE ENVIRONMENT.

- I. TREE PLANTATION DURING 2022-2023
250 SAPLING WERE PLANTED NEAR THE WELL SITES.



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TC-13009

TEST REPORT

TEST REPORT NO.: ETS/2762/04/2024 ULR NO.TC130092400002762F DATE OF REPORT: 30.04.2024

AMBIENT AIR MONITORING AND ANALYSIS REPORT

Name And Address of Customer : M/s, OIL AND NATURAL GAS CORPORATION LTD.
ASSAM & ASSAM,
WELL HEAD LOCATION (MRDA)

Date of Monitoring : 22.04.2024

Analysis Start Date : 27.04.2024

Analysis End Date : 30.04.2024

Duration Of Monitoring : 22.04.2024 To 23.04.2024

Time Of Monitoring : 10.55 AM To 10.55 AM (CO & O₃ for 1.0 Hrs.)

Sample ID No : 2762

Sampling Done By : ETS STAFF

Sampling Location : NEAR MAIN GATE (MRDA)

Sampling Method : ETS/STP/AIR-01

Sampling Machine Placed At Height : 1.5 METER FROM GROUND LEVEL

Weather Condition : CLEAR Ambient Temperature: 35.0 °C

Wind Direction : E To W

Equipment Used : Respirable Dust Sampler (PM₁₀) + Fine Particulate Sampler (PM_{2.5})

S. No.	Test Parameter	Unit	Result	Specification/Limit (As per CPCB)	Test Method
1	Particulate Matters.(PM ₁₀)	µg/m ³	81.9	For 24 Hrs.=100	IS 5182 (Part-23)
2	Particulate Matters.(PM _{2.5})	µg/m ³	36.2	For 24 Hrs.=60	IS 5182 (Part-24)
3	Sulphur Dioxide, (SO ₂)	µg/m ³	19.0	For 24 Hrs.=80	IS: 5182 (Part-2)
4	Nitrogen Dioxide,(NO ₂)	µg/m ³	26.0	For 24 Hrs.=80	IS: 5182 (Part-6)
5	Ammonia,(NH ₃)	µg/m ³	<20.0	For 24 Hrs.=400	IS 5182 (Part-25)
6	Ozone,(O ₃)	µg/m ³	15.0	For 1 Hrs.=180	IS: 5182 (Part-9)
7	Lead,(Pb)	µg/m ³	<0.05	For 24 Hrs.=1	IS 5182 (Part-22)



SHRADHA GUPTA

For ENVIRO-TECH SERVICES

AUTHORIZED SIGNATORY
Quality Manager

Format No ETS/LAB/TR-01, Issue No. 05, Date 01.04.2019, Amd. No. 04 Date 01.04.2019

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TEST REPORT

TEST REPORT NO.: ETS/2762/04/2024

DATE OF REPORT: 30.04.2024

AMBIENT AIR MONITORING AND ANALYSIS REPORT

S. No.	Test Parameter	Unit	Result	Specification/Limit (As per CPCB)	Test Method
8	Benzene, (C ₆ H ₆)	µg/m ³	<1.0	For Annual=5	IS 5182 (Part-11)
9	Arsenic, (As)	ng/m ³	<1.0	For Annual=06	CPCB, Vol -1, Pg.-48
10	Nickel, (Ni)	ng/m ³	<1.0	For Annual=20	IS 5182 (Part-26)
11	Carbon Monoxide, (CO)	mg/m ³	0.61	For 1 Hrs.=4	IS 5182 : Part 10
12	Benzo (a) Pyrene (BaP)	ng/m ³	<0.05	For Annual=01	IS: 5182 (Part-12)
13	Volatile Organic Compound, (VOC)	mg/m ³	<0.01	Not Specified	ETS/STP/WZ-15

*****End of Test Report*****



For ENVIRO-TECH SERVICES

AUTHORIZED SIGNATORY
Quality Manager

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TC-13009

TEST REPORT

TEST REPORT NO.: ETS/2763/04/2024 ULR NO.TC130092400002763F DATE OF REPORT: 30.04.2024

AMBIENT NOISE MONITORING REPORT

Name And Address of Customer : M/s. OIL AND NATURAL GAS CORPORATION LTD.
ASSAM & ASSAM,
WELL HEAD LOCATION (MRDA)

Date of Monitoring : 22.04.2024

Monitoring Start Date : 22.04.2024

Monitoring End Date : 23.04.2024

Duration Of Monitoring : 24 HOURS

Sample ID No : 2763

Monitoring Done By : ETS STAFF

Sampling Location : NEAR BOUNDRY WALL (MRDA)

Sampling Method : ETS/STP/NOISE-01

Category Of Area : INDUSTRIAL AREA

S. No.	Test Parameter	Unit	Result	Specification/Limit (As per CPCB)	Test Method
1	Day Time Noise Level	Leq :dB (A)	66.9	75	IS: 9989
2	Night Time Noise Level	Leq :dB (A)	58.2	70	IS: 9989

Remark: Day time is reckoned in between 06.00 A.M. and 10.00 P.M.
Night time is reckoned in between 10.00 P.M. and 06.00 A.M.

*****End of Test Report*****



For ENVIRO-TECH SERVICES

MD HUMRAJ
AUTHORIZED SIGNATORY



- Note- Format No ETS/LAB/TR-02, Issue No. 05, Date 01.04.2019, Amd. No. 04 Date 01.04.2019
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TC-13009

TEST REPORT

TEST REPORT NO.: ETS/2764/04/2024

ULR NO.TC130092400002764F

DATE OF REPORT: 30.04.2024

STACK EMISSION MONITORING AND ANALYSIS REPORT

Name And Address of Customer : M/s, OIL AND NATURAL GAS CORPORATION LTD.
ASSAM & ASSAM,
WELL HEAD LOCATION (MRDA)

Date Of Sampling : 22.04.2024

Analysis Start Date : 27.04.2024

Analysis End Date : 30.04.2024

Duration Of Sampling : 30.0 MIN

Sample ID No. : 2764

Sampling Done By : ETS STAFF

Sampling Method : ETS/STP/STACK-01

Stack Attached To : DG SET (MRDA)

Capacity Of Stack : 125.0 KVA

Quantity Of Fuel Used : 5-7 LPH

Type Of Fuel Used : H.S.D

Stack Height Above Ground : 2.0 MTR.

Stack Dia At The Top : 100.0 MM

Material Of Construction : M.S.

Attached APCS : ACOUSTIC ENCLOSURE

D.G. Set Comm. Date : AFTER 01/04/2014 (> 75 KW TO < 800 KW)

Normal Operating Schedule : AS PER REQUIRMENTS

Ambient Temperature : 35.0°C

Flue Gas Temperature : 120.0°C

Velocity Of Flue Gases : 12.9 MTR./SEC.

Quantity Of Emission Discharged : 364.55 m³/hr

S. No.	Test Parameter	Unit	Result	Specification/Limit (As per CPCB)	Test Method
1	Particulate Matters.(PM)	g/kw-hr	0.11	0.2	IS-11255 (Part-1)
2	Carbon Monoxide.(CO)	g/kw-hr	0.38	3.5	IS: 13270
3	Sulphur Dioxide,(SO ₂)	mg/Nm ²	23.6	Not Specified	IS-11255 (Part-2)



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Quality Manager

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TEST REPORT

TEST REPORT NO.: ETS/2764/04/2024

DATE OF REPORT: 30.04.2024

STACK EMISSION MONITORING AND ANALYSIS REPORT

S. No.	Test Parameter	Unit	Result	Specification/Limit (As per CPCB)	Test Method
4	Non Methane Hydrocarbon, (NMHC)	mg/Nm ³	31.0	Not Specified	ETS/STP/STACK-07
5	Oxide of Nitrogen (NO _x) + Hydro Carbon (HC)	g/kw-hr	1.29	4	IS-11255 (Part-7)

*****End of Test Report*****



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TEST REPORT

TEST REPORT NO.: ETS/2765/04/2024 ULR NO.TC130092400002765F DATE OF REPORT: 30.04.2024

WATER SAMPLE ANALYSIS REPORT

Name And Address of Customer : M/s. OIL AND NATURAL GAS CORPORATION LTD.
ASSAM & ASSAM.
WELL HEAD LOCATION (MRDA)

Date of Sample Received : 22.04.2024
Analysis Start Date : 27.04.2024
Analysis End Date : 30.04.2024
Sample ID No : 2765
Sampling Done By : ETS STAFF
Sampling Description : GROUND WATER
Sampling Location : FROM BOREWELL WATER (MRDA)
Sampling Method : IS 3025 (Part-1)
Sample Quantity : 2.0+0.5 Ltr
Packing Condition : SEALED
Packed In : P.V.C. AND GLASS BOTTLE

S. No.	Test Parameter	Unit	Result	Specification/Limit (As per IS:10500: 2012)		Test Method
				Acceptable	Permissible	
PHYSICAL & CHEMICAL PARAMETERS:						
1	Temperature	°C	26.5	Not Specified	Not Specified	APHA 2550-B
2	pH	...	7.80	6.5 - 8.5	Not Specified	APHA 4500-H+
3	Total Dissolved Solids,(TDS)	mg/L	682.0	500	2000	APHA 2540-C
4	Fluoride,(F)	mg/L	0.12	1	1.5	APHA 4500.(F-)D
5	Alkalinity, to (P)	mg/L	NIL	200	600	APHA 2320-B
6	Alkalinity, to (M)	mg/L	244.0	200	600	APHA 2320-B
7	Total Hardness,(CaCO ₃)	mg/L	160.0	200	600	APHA 2340-C
8	Calcium,(Ca)	mg/L	34.0	75	200	APHA 3500.(Ca)-B
9	Chloride,(Cl)	mg/L	44.8	250	1000	APHA 4500.(Cl-)B
10	Magnesium,(Mg)	mg/L	18.0	30	100	APHA 3500.(Mg)-B
11	Nitrate,(NO ₃)	mg/L	0.60	45	Not Specified	APHA 4500.(NO ₃)-B
12	Sulphate,(SO ₄)	mg/L	12.0	200	400	APHA 4500.(SO ₄)-B
13	Conductivity	µs/cm	1002.0	Not Specified	Not Specified	APHA 2510-B



For ENVIRO-TECH SERVICES

AUTHORIZED SIGNATORY RAJ

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TEST REPORT

TEST REPORT NO.: ETS/2765/04/2024

DATE OF REPORT: 30.04.2024

WATER SAMPLE ANALYSIS REPORT

14	Phenolic Compound, (C ₆ H ₅ OH)	mg/L	<0.001	0.001	0.002	APHA 5530-C
15	Phosphate (P)	mg/L	<0.01	Not Specified	Not Specified	APHA 4500:(P)-D
16	Oil & Grease, (O & G)	mg/L	1.9	Not Specified	Not Specified	APHA 5520-D
17	Chemical Oxygen Demand, (COD)	mg/L	<5.0	Not Specified	Not Specified	APHA 5220-B

HEAVY METALS:-

18	Total Chromium, (Cr)	mg/L	<0.01	0.05	Not Specified	APHA-3120B
19	Arsenic, (As)	mg/L	<0.01	0.01	Not Specified	APHA 3120B
20	Cadmium, (Cd)	mg/L	<0.001	0.003	Not Specified	APHA 3120B
21	Copper, (Cu)	mg/L	<0.01	0.05	1.5	APHA 3120B
22	Iron, (Fe)	mg/L	0.78	1.0	Not Specified	APHA-3120B
23	Lead, (Pb)	mg/L	<0.01	0.01	Not Specified	APHA-3120B
24	Mercury, (Hg)	mg/L	<0.001	0.001	Not Specified	US EPA Method 200.7 1994
25	Nickel, (Ni)	mg/L	<0.01	0.02	Not Specified	APHA-3120B
26	Zinc, (Zn)	mg/L	<0.01	5	15	APHA-3120B

*****End of Test Report*****



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TEST REPORT

TEST REPORT NO.: ETS/2766/04/2024 ULR NO.TC130092400002766F DATE OF REPORT: 30.04.2024

WATER SAMPLE ANALYSIS REPORT

Name And Address of Customer : M/s, OIL AND NATURAL GAS CORPORATION LTD.
ASSAM & ASSAM,
WELL HEAD LOCATION (MRDA)

Date of Sample Received : 22.04.2024
Analysis Start Date : 27.04.2024
Analysis End Date : 30.04.2024
Sample ID No : 2766
Sampling Done By : ETS STAFF
Sampling Description : DRINKING WATER
Sampling Location : FROM POTABLE WATER (MRDA)
Sampling Method : IS 3025 (Part-1)
Sample Quantity : 2.0+0.5 Ltr
Packing Condition : SEALED
Packed In : P.V.C. AND GLASS BOTTLE

S. No.	Test Parameter	Unit	Result	Specification/Limit (As per IS:10500: 2012)		Test Method
				Acceptable	Permissible	
PHYSICAL & CHEMICAL PARAMETERS;						
1	Temperature	°C	26.5	Not Specified	Not Specified	APHA 2550-B
2	pH	---	7.28	6.5 - 8.5	Not Specified	APHA 4500-H+
3	Total Dissolved Solids,(TDS)	mg/L	160.0	500	2000	APHA 2540-C
4	Fluoride,(F)	mg/L	<0.01	1	1.5	APHA 4500:(F-) -D
5	Alkalinity, to (P)	mg/L	NIL	200	600	APHA 2320-B
6	Alkalinity, to (M)	mg/L	35.0	200	600	APHA 2320-B
7	Total Hardness,(CaCO ₃)	mg/L	65.0	200	600	APHA 2340-C
8	Calcium,(Ca)	mg/L	11.0	75	200	APHA 3500:(Ca)-B
9	Chloride,(Cl)	mg/L	15.0	250	1000	APHA 4500:(Cl-) -B
10	Magnesium,(Mg)	mg/L	9.0	30	100	APHA 3500:(Mg)-B
11	Nitrate,(NO ₃)	mg/L	<0.1	45	Not Specified	APHA 4500:(NO ₃)-B
12	Sulphate,(SO ₄)	mg/L	7.0	200	400	APHA 4500:(SO ₄)-E
13	Conductivity	µs/cm	235.0	Not Specified	Not Specified	APHA 2510-B



For ENVIRO-TECH SERVICES

AUTHORIZED SIGNATORY
Quality Manager

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ETS-LAB

TEST REPORT

TEST REPORT NO.: ETS/2766/04/2024

DATE OF REPORT: 30.04.2024

WATER SAMPLE ANALYSIS REPORT

14	Phenolic Compound, (C ₆ H ₅ OH)	mg/L	<0.001	0.001	0.002	APHA 5530-C
15	Phosphate (P)	mg/L	<0.01	Not Specified	Not Specified	APHA 4500:(P)-D
16	Oil & Grease, (O & G)	mg/L	NIL	Not Specified	Not Specified	APHA 5520-D
17	Chemical Oxygen Demand, (COD)	mg/L	NIL	Not Specified	Not Specified	APHA 5220-B

HEAVY METALS:-

18	Total Chromium, (Cr)	mg/L	<0.01	0.05	Not Specified	APHA-3120B
19	Arsenic, (As)	mg/L	<0.01	0.01	Not Specified	APHA 3120B
20	Cadmium, (Cd)	mg/L	<0.001	0.003	Not Specified	APHA 3120B
21	Copper, (Cu)	mg/L	<0.01	0.05	1.5	APHA 3120B
22	Iron, (Fe)	mg/L	<0.05	1.0	Not Specified	APHA-3120B
23	Lead, (Pb)	mg/L	<0.01	0.01	Not Specified	APHA-3120B
24	Mercury, (Hg)	mg/L	<0.001	0.001	Not Specified	US EPA Method 200.7 1994
25	Nickel, (Ni)	mg/L	<0.01	0.02	Not Specified	APHA-3120B
26	Zinc, (Zn)	mg/L	<0.01	5	15	APHA-3120B

*****End of Test Report*****



For ENVIRO-TECH SERVICES

AUTHORIZED SIGNATORY
Quality Manager

Format No ETS/LAB/TR-09, Issue No. 05, Date 01.04.2019, Amd. No. 04 Date 01.04.2019

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ENVIRO-TECH SERVICES

An Analytical Laboratory

(A GOVERNMENT APPROVED LAB)

Plot No. 1/32, S.S. of G.T. Road Industrial Area, Ghaziabad (U.P.) - 201001

email : etslab2012@gmail.com | Website : www.etslab.in | Ph.: 9911516076, 9811736063



TC-13009

TEST REPORT

TEST REPORT NO.: ETS/2767/04/2024 ULR NO.TC130092400002767F DATE OF REPORT: 30.04.2024

AMBIENT NOISE MONITORING REPORT

Name And Address of Customer : M/s, OIL AND NATURAL GAS CORPORATION LTD.
ASSAM & ASSAM,
WELL HEAD LOCATION (MRDA)

Date of Monitoring : 22.04.2024
Monitoring Start Date : 22.04.2024
Monitoring End Date : 23.04.2024
Duration Of Monitoring : 24 HOURS
Sample ID No : 2767
Monitoring Done By : ETS STAFF
Sampling Location : NEAR DG SET AREA (MRDA)
Sampling Method : ETS/STP/NOISE-01
Category Of Area : INDUSTRIAL AREA

S. No.	Test Parameter	Unit	Result	Specification/Limit (As per CPCB)	Test Method
1	Day Time Noise Level	Leq :dB (A)	71.7	75	IS: 9989
2	Night Time Noise Level	Leq :dB (A)	54.9	70	IS: 9989

Remark: Day time is reckoned in between 06.00 A.M. and 10.00 P.M.
Night time is reckoned in between 10.00 P.M. and 06.00 A.M.

*****End of Test Report*****



For ENVIRO-TECH SERVICES

AUTHORIZED SIGNATORY
Quality Manager

Format No ETS/LAB/TR-02, Issue No: 05, Date 01.04.2019, Amd. No. 04 Date 01.04.2019

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TC-13009

TEST REPORT

TEST REPORT NO.: ETS/2767/04/2024 ULR NO.TC130092400002767F DATE OF REPORT: 30.04.2024

AMBIENT NOISE MONITORING REPORT

Name And Address of Customer : M/s. OIL AND NATURAL GAS CORPORATION LTD.
ASSAM & ASSAM,
WELL HEAD LOCATION (MRDA)

Date of Monitoring : 22.04.2024

Monitoring Start Date : 22.04.2024

Monitoring End Date : 23.04.2024

Duration Of Monitoring : 24 HOURS

Sample ID No : 2767

Monitoring Done By : ETS STAFF

Sampling Location : NEAR DISPATCH PUMP HOUSE (MRDA)

Sampling Method : ETS/STP/NOISE-01

Category Of Area : INDUSTRIAL AREA

S. No.	Test Parameter	Unit	Result	Specification/Limit (As per CPCB)	Test Method
1	Day Time Noise Level	Leq :dB (A)	65.7	75	IS: 9989
2	Night Time Noise Level	Leq :dB (A)	52.3	70	IS: 9989

Remark: Day time is reckoned in between 06.00 A.M. and 10.00 P.M.
Night time is reckoned in between 10.00 P.M. and 06.00 A.M.

*****End of Test Report*****



For ENVIRO-TECH SERVICES

AUTHORIZED SIGNATORY

Quality Manager

Formal No ETS/LAB/TR-02, Issue No. 05, Date 01.04.2019, Amd. No. 04 Date 01.04.2019

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TC-13009

TEST REPORT

TEST REPORT NO.: ETS/2768/04/2024 ULR NO.TC130092400002768F DATE OF REPORT: 30.04.2024

AMBIENT NOISE MONITORING REPORT

Name And Address of Customer : M/s. OIL AND NATURAL GAS CORPORATION LTD.
ASSAM & ASSAM,
WELL HEAD LOCATION (MRDA)

Date of Monitoring : 22.04.2024
Monitoring Start Date : 22.04.2024
Monitoring End Date : 23.04.2024
Duration Of Monitoring : 24 HOURS
Sample ID No : 2768
Monitoring Done By : ETS STAFF
Sampling Location : NEAR OFFICE BUILDING (MRDA)
Sampling Method : ETS/STP/NOISE-01
Category Of Area : INDUSTRIAL AREA

S. No.	Test Parameter	Unit	Result	Specification/Limit (As per CPCB)	Test Method
1	Day Time Noise Level	Leq :dB (A)	66.9	75	IS: 9989
2	Night Time Noise Level	Leq :dB (A)	51.6	70	IS: 9989

Remark: Day time is reckoned in between 06.00 A.M. and 10.00 P.M.
Night time is reckoned in between 10.00 P.M. and 06.00 A.M.

*****End of Test Report*****



For ENVIRO-TECH SERVICES

MD NUMRAJ
AUTHORIZED SIGNATORY

Format No ETS/LAB/TR-02, Issue No. 05, Date 01.04.2019, Amd. No. 04 Date 01.04.2019.

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ETS-LAB

ENVIRO-TECH SERVICES*An Analytical Laboratory***(A GOVERNMENT APPROVED LAB)**

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TC-13009

TEST REPORT

TEST REPORT NO.: ETS/2769/04/2024

ULR NO.TC130092400002769F

DATE OF REPORT: 30.04.2024

WATER SAMPLE ANALYSIS REPORT

Name And Address of Customer : M/s. OIL AND NATURAL GAS CORPORATION LTD.
ASSAM & ASSAM,
WELL HEAD LOCATION (MRDA)

Date of Sample Received : 22.04.2024
Analysis Start Date : 27.04.2024
Analysis End Date : 30.04.2024
Sample ID No : 2769
Sampling Done By : ETS STAFF
Sampling Description : SURFACE WATER (MRDA)
Sampling Location : NEAR INSTALLATION AREA
Sampling Method : IS 3025 (Part-1)
Sample Quantity : 2.0+0.5 Ltr
Packing Condition : SEALED
Packed In : P.V.C. AND GLASS BOTTLE

S. No.	Test Parameter	Unit	Result	Specification/Limit (As per IS:10500: 2012)		Test Method
				Acceptable	Permissible	
PHYSICAL & CHEMICAL PARAMETERS;						
1	Temperature	°C	26.5	Not Specified	Not Specified	APHA 2550-B
2	pH	...	7.33	6.5 - 8.5	Not Specified	APHA 4500-H+
3	Total Dissolved Solids.(TDS)	mg/L	210.0	500	2000	APHA 2540-C
4	Fluoride.(F)	mg/L	<0.01	1	1.5	APHA 4500(F-) -D
5	Alkalinity, to (P)	mg/L	NIL	200	600	APHA 2320-B
6	Alkalinity, to (M)	mg/L	30.0	200	600	APHA 2320-B
7	Total Hardness,(CaCO ₃)	mg/L	82.0	200	600	APHA 2340-C
8	Calcium,(Ca)	mg/L	12.0	75	200	APHA 3500:(Ca)-B
9	Chloride,(Cl)	mg/L	18.0	250	1000	APHA 4500:(Cl-) -B
10	Magnesium,(Mg)	mg/L	12.4	30	100	APHA 3500:(Mg)-B
11	Nitrate,(NO ₃)	mg/L	<0.1	45	Not Specified	APHA 4500:(NO ₃ -)-B
12	Sulphate,(SO ₄)	mg/L	11.0	200	400	APHA 4500:(SO ₄ -)-E
13	Conductivity	µs/cm	308.0	Not Specified	Not Specified	APHA 2510-B



For ENVIRO-TECH SERVICES

AUTHORIZED SIGNATORY
AID HUMRA
Quality Manager

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ISO 45001

ETS-LAB

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TEST REPORT

TEST REPORT NO.: ETS/2769/04/2024

DATE OF REPORT: 30.04.2024

WATER SAMPLE ANALYSIS REPORT

14	Phenolic Compound, (C ₆ H ₅ OH)	mg/L	<0.001	0.001	0.002	APHA 5530-C
15	Phosphate (P)	mg/L	<0.01	Not Specified	Not Specified	APHA 4500 (P)-D
16	Oil & Grease, (O & G)	mg/L	NIL	Not Specified	Not Specified	APHA 5520-D
17	Chemical Oxygen Demand, (COD)	mg/L	NIL	Not Specified	Not Specified	APHA 5220-B

HEAVY METALS:-

18	Total Chromium, (Cr)	mg/L	<0.01	0.05	Not Specified	APHA-3120B
19	Arsenic, (As)	mg/L	<0.01	0.01	Not Specified	APHA 3120B
20	Cadmium, (Cd)	mg/L	<0.001	0.003	Not Specified	APHA 3120B
21	Copper, (Cu)	mg/L	<0.01	0.05	1.5	APHA 3120B
22	Iron, (Fe)	mg/L	<0.05	1.0	Not Specified	APHA-3120B
23	Lead, (Pb)	mg/L	<0.01	0.01	Not Specified	APHA-3120B
24	Mercury, (Hg)	mg/L	<0.001	0.001	Not Specified	US EPA Method 200.7 1994
25	Nickel, (Ni)	mg/L	<0.01	0.02	Not Specified	APHA-3120B
26	Zinc, (Zn)	mg/L	<0.01	5	15	APHA-3120B

*****End of Test Report*****



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