

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

1	Name of the project	Onshore Development and Production of oil and gas from 28 wells and establishment of kasomarigaon EPS and GGS at SUAB drill site in forest area in 6 PML Blocks, Golaghat district, Assam.
2	Location of project/ address:	Districts Golaghat (Assam)
3	Letter No. & date of Environment Clearance granted by MOEF	F.No. IA-J-11011/149/2023-IA-II(I) dated 31.07.2023
4	Present Status of project	04 wells have been drilled.
5	Date of Commencement of Project	03.06.2023
6	Project Area as Per EC Granted (In Case of Mine Lease)	245.62 sq.km.
7	Actual Project Area (In Case of Mine Lease)	245.62 sq.km.
8	Crude Oil Production during 2023-24	1477.67 MT
9	Natural Gas Production during 2023-24	0.014867 MMSCM

SL. No.	Condition Description	Compliance
1.	As proposed by the Project Proponent, out of 28 wells, the proposal for drilling of 12 wells from EC application (where forest clearance is pending) in 6 PML Blocks Golaghat District, Assam has been dropped. Now, PP has to apply separately for the consideration of environmental clearance for the remaining 12 wells located in the forest area in case they want to drill the Said wells. Therefore, environmental clearance has been granted for Onshore Development and Production of oil and gas from 16 wells and establishment of Kasomargaon EPS and GGS at SUAB drill site in forest area in 6 PML Blocks.	No Drilling have been Carried out in wells dropped due to lack of Forest clearance by EAC Committee.
2.	Implementation of Action Plan on the issues raised during the Public Hearing shall be ensured. The Project Proponent shall undertake all the tasks as per the Action Plan submitted with budgetary provisions during the Public Hearing.	Action plan and action on issue raised during Public Hearing in phase wise manner is being Implemented.
3.	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 as per proposed in Annexure-II.	All statutory compliance and environmental protection measures is being regularly complied. All Recommendation made in EIA / EMP is Being implemented as proposed in Annexure-II.
4.	No pipelines or its part shall be laid in the Forest land/Protected Area without prior permission/approval from the Competent Authority.	No pipeline has been laid in the Forest Land/protected area.
5.	Total fresh water requirement shall not exceed 25 CMD and will be met from surface water. Prior permission shall be obtained from the concerned regulatory authority.	Total fresh water requirement is less than 25 CMD.
6.	The project proponent will treat and reuse the treated water within the drilling site and no waste or treated water shall be discharged outside the premises. Mobile ETP coupled with RO shall be installed to reuse the treated water in drilling system. Mobile STP shall also be installed. The size of the waste pit 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 rainwater. There shall be separate storm water channel and rainwater shall not be allowed to mix with wastewater. Level of the Drilling site shall be constructed in such a way that outside rainwater shall not enter into the drilling site. Alternatively, if possible, pit less drilling be practiced instead of above.	At drilling site mobile ETP is being used for treatment of waste water generated during the drilling operations. Treated water is used for in-house requirements and remaining treated water is stored in open impervious pits for evaporation. Mobile ETP is installed to treat the waste water
7.	PP shall ensure the compliance of standards stipulated for flaring in the Environmental (Protection) Rules, 1986. In case of elevated flaring, the minimum stack height shall be 30 m. Height of stack shall be such that maximum GLC never exceeds the prescribed	Minimum stack height 30 m is maintained in the Operational areas.

	ambient air quality limit.	
8.	The company shall construct the garland drain to prevent runoff of any oil containing waste entering into the nearby water bodies. Separate drainage system shall be created for oil contaminated and non-oil contaminated wastes.	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
9.	As proposed, produced formation water is stored in formation water tanks shall be disposed to the abandoned wells of ONGC after necessary treatment. Separated water from phase separation system will be treated in an ETP and will be reused. Treated effluent shall meet the water quality standards for reinjection well as per the CPCB/SPCB guidelines. PP shall monitor water quality of treated effluent regularly and maintain records.	ETP treated water quality is being monitored continuously
10.	During production, storage and handling, the fugitive emission of methane, if any, shall be monitored using Infra-red camera/ appropriate technology.	The fugitive emissions are being monitored
11.	The project proponent also to ensure trapping/storing of the CO2 generated, if any, during the process and handling.	There are no CO2 emissions.
12.	Approach road shall be made pucca to minimize generation of suspended dust.	Roads are being constructed as per site/operation requirement and periodic repair & maintenance done to contain suspended dust.
13.	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.	All the DG sets are fitted with acoustic enclosure and stack height is maintained as per CPCB guidelines
14.	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 HW (M&TM) Rules, 2016. No effluent/drilling mud shall be discharged/disposed of 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 of into nearby surface water bodies. The guidelines for disposal of solid waste, drill cutting and drilling fluids for onshore drilling operation are being followed
15.	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	No oily sludge is being generated during drilling. Burnt Lube oil is collected and transported to Drilling Tool Yard

	technology. The recyclable waste (oily sludge) and spent oil shall be disposed of to the authorized recyclers.	for storage and disposed as per regulation.
16.	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.	All necessary measures are being taken to prevent fire, oil spill and to keep gaseous emissions to minimum. Bioremediation is done as and when required
17.	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.	This is not a H2S prone area. Also SCBA (self-contained Breathing Apparatus) available at Rig.
18.	Blow Out Preventer system shall be installed to prevent well blowouts during drilling operations.	BOP is installed to prevent well blowouts and maintained as per OMR, OISD guidelines. Hydrostatic head is maintained in well bore as per GTO.
19.	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. After completion of drilling of any well, the owner or operator shall restore the well site, remove or fill all pits used to contain produced fluids or industrial waste and remove all drilling supplies and equipment not needed for production.	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.
20.	PP proposed to allocate Rs. 1.40 Crores towards Extended EMP (CER) which shall be spent as submitted in CER plan (Annexure III). Further, all the proposed activities under CER shall be completed within 2 years of commencement of project activities in consultation with District Administration.	Plantation project for 3500 sampling is under process.
21.	End of life lead acid batteries shall be disposed in compliance with the rules specified in Battery Waste Management Rules.	ONGC have buy back contract with supplier along with this Lead acid batteries are being replaced in phased manner.
22.	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.	Occupational Health surveillance is in practice as per existing corporate policy. All workers and employees are provided with required safety kits/masks for personal protection.
23.	Oil content in the drill cuttings shall be monitored and report & shall sent to the Ministry's	Agreed & Noted for compliance.

	Regional Office.	
24.	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.	Copy of Environmental Management Plan is made available at site. SOP/Operation manual is available at Rigs. Data regarding environment monitoring is kept at site office.
25.	PP should establish in house (at project site) environment laboratory for measurement of environment parameter with respect to air quality and water (surface and ground. A dedicated team to oversee environment management shall be setup at site which should comprise of Environment Engineers, Laboratory chemist and staff for monitoring of air, water quality parameters on routine basis instead of engaging environment monitoring laboratories/consultants. Any non- compliance or infringement should be reported to the concerned authority.	Each processing unit has a dedicated Environmental Monitoring unit wherein dedicated chemists are posted. All the relevant environmental parameters of air and water are being regularly monitored.
26.	The Project Proponent shall undertake Occupational Health survey for initial and Periodical medical examination of the workers engaged in the Project and maintain records accordingly as per the provisions of the Mines Rules, 1955 and DGMS Circulars. Besides carrying out regular periodic health check-up of their workers, 20% of the workers engaged in active drilling operations shall be subjected to health check-up for occupational diseases and hearing impairment, if any.	Implemented as directed
27.	Greenbelt will be developed for GGS and EPS in total area of 1.1979 hectares i.e., 33% of total project area with tree density @ 2500 trees per hectares, mainly along the plant periphery. Indigenous species shall only be developed as part of greenbelt and non-indigenous / alien species shall be replaced with native species. No invasive or alien or non-native tree species shall be selected for plantation. PP shall develop at least 20 variety of species as a part of greenbelt. Saplings 4-6 feet high shall be planted. Selection of plant species shall be as per the CPCB guidelines in consultation with the State Forest Department and native species shall be developed. Records of tree canopy shall be monitored through remote sensing map. Greenbelt development shall be completed before commissioning of the plant.	Green belt development is under process.
28.	PP shall sensitize and create awareness among the people working within the project area as well as its surrounding area on the ban of Single Use Plastic in order to ensure	Noted

	the compliance of Notification published by MOEFCC on 12th August, 2021. A report along with photographs on the measures taken shall also be included in the six-monthly compliance report being submitted to concerned authority	
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B. General Condition:

SL. No.	Condition Description	Compliance
1	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.	Noted.
2	The energy source for lighting purpose shall be preferably LED based, or advanced having preference in energy conservation and environment betterment.	Most of the lighting have been replaced with LED and remaining are being replaced with LED lights.
3	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 the Environment (Protection) Act, 1986 Rules, 1989 viz. 75 dBA (day time) and 70 dBA (night time).	All DG sets are fitted with Acoustic Enclosures. Noise levels are kept within prescribed standards as per EPA -1986. Ear muffs and ear plugs are used by the workmen's.
4	The company shall undertake all relevant measures for improving the socioeconomic 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.	Noted

5	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.
6	A copy of the clearance letter shall be sent by the project proponent to concerned Panchayat, Zilla 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. The copy of letter sent to Zilla Parishad is attached at Annexure –A
7	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 SPCB. A copy of Environmental Clearance and six monthly compliance status report shall be posted on the website of the company.	Agreed and noted for compliance.
8	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 email.	Environmental statement in Form-V has been submitted to state pollution control board for the year 2023-2024. Annexure –B Compliance of environmental clearance conditions will be uploaded at https://www.ongcindia.com and detail will be provided in the next six monthly compliance report.
9	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. Published in two local newspaper. 1.Assam Tribune dated 15.09.2023 2.Pratidin Times, dated 15.09.2023 Annexure – C

10	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.	Financial closure of the project – 03.06.2023
11	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.	Not Applicable



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

To,

The General Manager
OIL AND NATURAL GAS CORPORATION LIMITED
Deendayal Urja Bhavan, 5, Nelson Mandela Marg, Vasant
Kunj,,Ramanathapuram,Tamil Nadu-110070

Subject: Grant of Environmental Clearance (EC) to the proposed Project Activity under the provision of EIA Notification 2006-regarding

Sir/Madam,

This is in reference to your application for Environmental Clearance (EC) in respect of project submitted to the Ministry vide proposal number IA/AS/IND2/423980/2023 dated 14 Jun 2023. The particulars of the environmental clearance granted to the project are as below.

1. EC Identification No.	EC23A002AS160394
2. File No.	IA-J-11011/149/2023-IA-II(I)
3. Project Type	New
4. Category	A
5. Project/Activity including Schedule No.	1(b) Offshore and onshore oil and gas exploration, development & production
6. Name of Project	Onshore Development and Production of oil and gas from 28 wells and establishment of kasomarigaon EPS and GGS at SUAB drill site in forest area in 6 PML Blocks, Golaghat district, Assam
7. Name of Company/Organization	OIL AND NATURAL GAS CORPORATION LIMITED
8. Location of Project	Assam
9. TOR Date	N/A

The project details along with terms and conditions are appended herewith from page no 2 onwards.

Date: 31/07/2023

(e-signed)
A N Singh
Scientist E
IA - (Industrial Projects - 2 sector)

Note: A valid environmental clearance shall be one that has EC identification number & E-Sign generated from PARIVESH. Please quote identification number in all future correspondence.

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PARIVESH

(Pro-Active and Responsive Facilitation by Interactive,
and Virtuous Environment Single-Window Hub)



This has reference to your online proposal no. IA/AS/IND2/423980/2023 dated 14th June, 2023 for environmental clearance to the above-mentioned project.

2. The Ministry of Environment, Forest and Climate Change has examined the proposal seeking environmental clearance for Onshore Development and Production of oil and gas from 16 wells and establishment of Kasomarigaon EPS and GGS at SUAB drill site in forest area in 6 PML Blocks located at Village Kasmari Gaon, Tehsil Sarupathar, District Golaghat, State Assam by M/s. Oil and Natural Gas Corporation Limited.

3. The proposed project is included under activity 1(b) "Offshore and onshore oil and gas exploration, development & production" are listed at S.N. 3 of Schedule of Environment Impact Assessment (EIA) Notification under category 'A' and are appraised at Central Level by Expert Appraisal Committee (EAC).

4. The details of products and capacity as under:

S. No	Product Details	Existing Quantity	Proposed Quantity	Total quantity (Estimated)
1	Development & production well	None	The estimated production of crude oil is 330 m ³ /day and natural gas of 1.115 LSCMD. The proposed EPS would be established with a capacity of 800 m ³ /day and 1 Lakh SCMD of natural gas. The GGS at SUAB would be established with a capacity of 400 m ³ /day and 25,000 SCMD of natural gas.	The estimated production of crude oil is 330 m ³ /day and natural gas of 1.115 LSCMD. The proposed EPS would be established with a capacity of 800 m ³ /day and 1 Lakh SCMD of natural gas. The GGS at SUAB would be established with a capacity of 400 m ³ /day and 25,000 SCMD of natural gas.

5. PP informed that TOR was obtained for drilling in 28 locations in six PML Blocks i.e Golaghat District PML (52.12 Sq. Km.), Kasomarigaon PML additional area (56 Sq. Km), Kasomarigaon PML (20 Sq. Km), East Lakhbari PML (8.5 Sq. Km), Khoraghat Extn – I PML (83 Sq. Km) and Nambor PML (26 Sq. Km). All the PMLs are located in the forest area of Nambor and Dayang Reserve Forest. ONGC has also proposed to set up a Group Gathering station (GGS) at Kasomarigaon PML

(Additional area), and an Early Production system (EPS) at Kasomarigaon PML. Further, PP informed that out of the proposed 28 wells, forest clearance has been accorded to 16 wells, Kasomarigaon EPS and GGS at SUAB. The forest clearance for the rest of the 12 well locations are pending and therefore ONGC has dropped the proposal for drilling of remaining 12 wells from EC application) in forest Area in 6 PML Blocks Golaghat District, Assam. Development and production in these locations would augment the production of hydrocarbons in the present scenario of growing demand of oil and gas in the country.

Drilling will be carried out up to the desired depth of 2200-3300. Drilling is a temporary activity which will continue for about 30-60 days for each well in the block. If the well is found to be a successful hydrocarbon bearing structure, it will be sealed off for future development and would be connected to GGS. Water based mud (WBM) will be used to the possible extent.

Oil produced during development phases will be transferred to the nearby GGS /EPS by Oil tankers/Pipeline network. A Group Gathering Station (GGS) has been proposed for this project in kasamarigaon PML (Additional area). The set up is meant for Oil/Gas/Water separation from the development drilling site, along with oil treatment and stabilisation gas treatment and compression.

6. Ministry has issued Environmental Clearance for exploration activity vide certificate number J-11011/620/2007-IA-II(I) dated 22.10.2007. Certified Compliance report of existing EC has been obtained from Integrated Regional Office, MoEFCC, Guwahati vide File no- RO-NE/EIA/AS/MI/9/3910-12 dated 04.05.2023. Action Taken Report has been submitted to IRO, MOEFCC, ONGC/Jorhat Asset/HSE/CCR/KSAB dated 26.05.2023. EAC was satisfied with the response.

7. Standard Terms of Reference have been obtained vide F. No IA-J-11011/99/2019-IA-II(I) dated 20th April 2019. It was informed that no litigation is pending against the project.

Public Hearing for the proposed project had been conducted by the Assam Pollution Control Board on 30th September 2020 at Borbali ME School field, Sarupathar of Golaghat districts chaired by Additional District Magistrate. The main issues raised during the public hearing (Golaghat District) and their action plan to address the said issues raised is placed at Annexure-I.

8. Total land area required is 29.126 hectares. Greenbelt will be developed in 1.1979 hectares of land of GGS and EPS. The estimated project cost is Rs. 625 Crores. Capital cost of EMP would be Rs. 0.2825 Crores and recurring cost for EMP would be Rs. 0.1756 Crores per annum. Industry proposes to allocate Rs. 1.4 Crores towards Extended EMP (Corporate Environment Responsibility). Total Employment will be 310 persons as direct & indirect.

9. PP informed that there are no national parks, wildlife sanctuaries, Biosphere Reserves, Tiger/Elephant Reserves, Wildlife Corridors etc. within 10 km distance. Two reserve forests, Dayang Reserve Forest, and Nambor Reserve Forest, are present within 10 km boundary of the PML blocks. Forest clearance is already obtained for 16 wells and Kasomarigaon EPS and SUAB GGS located within reserve forest. Forest clearance for rest of 12 wells is pending and would be dropped from EC application. Nambor wildlife sanctuary is present towards northwest direction of the block. The nearest PMLs are Kasomarigaon PML (additional area III) and East Lakhbari PML, which are 11.86 km and 10.55 km in Northwest from the ESZ boundary of the Nambor WLS respectively. The Nambor wildlife Sanctuary is located at a distance of 13 Km in Northwest direction from the nearest well (ELDD). ESZ notification for same is still not published. No activity is planned within the default ESZ of 10 km of Number wildlife sanctuary. Dhansiri river flows in the western side of all the PMLs, from south to north direction. The nearest PML is Golaghat District PML (Cluster 1), which is almost 4 km from the Dhansiri river. Dayang River and Rengma River, a tributary of Dayang River through are the main rivers flowing through PML area, while two other minor rivers, Ghiladhari and Sesapani runs within the PML area.

10. Ambient air quality monitoring was carried out at 8 locations during October 2019 to January 2020 and the baseline data indicates the ranges of concentrations as: PM₁₀ (69.72 - 71.41 µg/m³), PM_{2.5} (29.17 - 32.77 µg/m³), SO₂ (8.40 - 9.0 µg/m³) and NO₂ (13.77 - 15.21 µg/m³). AAQ modelling study for point source emissions indicates that the maximum incremental GLCs after the proposed project would be 0.18 µg/m³, 0.63 µg/m³, and 4.5 µg/m³ with respect to PM₁₀, SO₂ and NO_x. The resultant concentrations are within the National Ambient Air Quality Standards (NAAQS).

As the previous monitoring period is already three years old, additional set of monitoring was carried out from October 2022 to December 2022. The baseline data indicates the ranges of concentrations as: PM₁₀ (46.2 - 66.5 µg/m³), PM_{2.5} (22.8 - 35.4 µg/m³), SO₂ (5.2-6.8 µg/m³) and NO₂ (23.2 - 26.1 µg/m³).

11. Total fresh water requirement will be 25 CMD which will be met from tanker during drilling period. Out of which, 15 m³ /day would be used for mud preparation and 10 m³/d for domestic purposes (including drinking). Tankers would be deployed from nearby source through contractors. Effluent of 20 CMD quantity will be treated through Effluent Treatment Plant of capacity 25 KLPD. Mud used during the operation will flush out formation cuttings from the well hole. These cuttings will be separated from the drilling mud by thoroughly washing and stored in the HDPE lined pits and after completion of the drilling activities, cuttings will be tested for hazardous nature and based on nature of the drill cuttings, final disposal pathway will be done. The total amount of cuttings produced during the entire drilling period

is projected to be about 225 m³ per well. Once the cuttings have been separated, the drilling fluid will be reused or processed after further treatment in a system designed to remove suspended solids that are too fine for mechanical separation in solids control package producing inlet particles called 'flocs'. The flocs will be removed in the decanting centrifuges and the resultant sludge disposed off in High Density Polyethylene (HDPE) lined pits. The cleaned wastewater will also be stored in HDPE lined pits and disposed off, after testing and any necessary treatment, to meet the regulatory requirements. The estimated amount of drilling fluid and drilling wastewater generated from the whole process would be 700 m³ and 15 - 20 m³ /day for each well. STP of capacity 25 KLPD will be installed to treat sewage generated from factory premises. The plant will be based on Zero Liquid discharge system and no effluent/treated water will be discharged outside factory premises.

12. The power requirement during the site preparation and construction phase would be met by 4 Nos. of DG Sets. The power requirement for drilling will be met by using the four Diesel Generator Sets of 750 kVA, 3 working and 1 standby. Stack of 7.7 m will be provided as per CPCB norms to the proposed DG sets.

13. Details of Process emissions generation and its management:

The emission would be generated from activities such as flaring, functioning of DG sets, etc. The management of emission is given in the following points

- All vehicles used for transportation of raw material and personnel would have valid Pollution under Control Certificate (PUC). Vehicular exhaust would be complying with the CPCB specified emission norms for vehicular Emission.
- Adequate stack height would be provided to DG sets in accordance with CPCB standards.
- Exhausts of diesel/Gas generators would be positioned at a sufficient height to ensure dispersal of exhaust emissions; engines would not be left running.
- Preventive maintenance of GEG/DG sets would be undertaken;
- Flaring would be undertaken in accordance with the CPCB Guidelines for Gaseous Emissions for Oil & Gas.

14. Details of solid waste/Hazardous waste generation and its management:

Waste type	Quantity	Characteristics	Disposal
Kitchen waste	10- 15 kg/day	Organic waste (Non HW)	The waste would be segregated at source (organic/inorganic) and

Waste type	Quantity	Characteristics	Disposal
			disposed as per Solid Waste Management Rules, 2016.
Drill cuttings	225 m ³ /well	Mainly Inert material Consisting of shales, sands and clay; about 1% of drilling mud. (Non HW)	Drill cuttings will be disposed off in a well-designed pit lined with impervious liner located on site as per S No. 72 C.1.a Schedule I Standards for Emission or Discharge of Environmental Pollutants from Oil Drilling and Gas Extraction Industry of CPCB as modified in 2005.
Waste Drilling Mud (Fluid)	700 m ³	Barite, Bentonite and Traces of Heavy metals	The mud will be tested for hazardous contaminants and will be disposed as per S No. 72 C.1.a Schedule I Standards for Emission or Discharge of Environmental Pollutants from Oil Drilling and Gas Extraction Industry of CPCB as modified in 2005.
Waste oil/ Used oil	-	Used and waste oil	Hazardous waste (waste and used oil) would be managed in accordance with Hazardous Waste (Management, & Transboundary Movement) Rules, 2016.
Recyclables viz. plastic packaging, paper waste etc.	-	Depending on usage	Proper segregation and storage of recyclable waste in designated bins onsite. Recyclables will be periodically sold to local waste recyclers.

15. Total land of 29.126 Hectares of forest land is under possession of the company.

Detail of Forest clearance is presented below:

S.N.	Well	FC Status
1	DPDD	In-Principle Approval obtained.

2	DPDJ	
3	DPDI	
4	DPDL	
5	DPDH	
6	DPDK	
7	DPDM	
8	DPDN	
9	DPDO	
10	DPDP	
11	DPDQ	
12	DPDR	
13	KSDC	The approval for forest land diversion is granted.
14	KSDD	
15	ELDA	The approval for forest land diversion is granted.
16	NRDJ	The approval for forest land diversion is granted.
A	Kasomarigaon EPS	In-Principle Approval obtained.
B	GGs Suphayam-1 drill site	The approval for forest land diversion is granted.

List of Wells where Forest Clearance are Pending and would be dropped:

S.N.	Well	FC Status
1	DPDA	Forest land diversion process is in advanced stage. These well locations will be dropped from the EC application
2	DPDB	
3	DPDC	
4	DPDE	
5	DPDF	
6	DPDG	
7	KHDE	Forest land diversion process is in advanced stage. These well locations will be dropped from the EC application
8	NRDK	These well locations will be dropped from the EC application
9	NRDE	
10	NRDG	
11	NRDH	
12	NRDL	

Co-ordinates of proposed wells for 1(b) projects:

Sl. No.	Oil Field	Wells to be Drilled/EPS/GGS	Well Coordinate
1	Nambor	NRDJ	NRDJ- 93° 53' 35.170" E 26° 3' 1.540" N,

Sl. No.	Oil Field	Wells to be Drilled/EPS/GGS	Well Coordinate
2	Kasomarigaon	KSDC, KSDD	KSDC- 94° 2' 48.430" E 26° 17' 38.790" N, KSDD- 94° 3' 26.196" E 26° 17' 58.452" N
3	East Lakhibari	ELDA	ELDA- 94° 2' 58.190" E 26° 22' 4.730" N
4	Kasomarigaon	EPS under GAGD project	A 94° 02' 51.73" E 26° 17' 37.33" N, B 94° 02' 57.25" E 26° 17' 38.85" N C 94° 02' 55.32" E 26° 17' 44.53" N, D 94° 02' 45.29" E 26° 17' 41.77" N E 94° 02' 45.27" E 26° 17' 40.08" N, F 94° 02' 50.36" E 26° 17' 41.34" N
5	Dayalpur (Kasomarigaon PML additional area, cluster 3)	DPDM, DMDN, DPDO, DPDP, DPDQ DPDR	DPDM- 94° 0' 30.421" E 26° 14' 16.320" N, DPDN- 94° 0' 30.220" E 26° 14' 16.330" N DPDO- 94° 0' 30.020" E 26° 14' 16.330" N, DPDP- 94° 0' 30.411" E 26° 14' 16.030" N DPDQ- 94° 0' 30.210" E 26° 14' 16.040" N, DPDR- 94° 0' 30.010" E 26° 14' 16.040" N
6	Dayalpur (Kasomarigaon PML additional area, cluster 2)	DPDD, DPDH, DPDI, DPDJ, DPDK and DPDL	DPDD- 94° 0' 4.261" E 26° 13' 36.320" N, DPDJ- 94° 0' 4.060" E 26° 13' 36.330" N DPDI- 94° 0' 4.250" E 26° 13' 36.140" N, DPDL-94° 0' 4.050" E 26° 13' 36.150" N

Sl. No.	Oil Field	Wells to be Drilled/EPS/GGS	Well Coordinate
			DPDK- 94° 0' 3.850" E 26° 13' 36.150" N, DPDH- 94° 0' 3.860" E 26° 13' 36.330" N
7	Suphyam	GGs at Suphyam - 1	A 94° 0' 41.199" E 26° 13' 16.444" N, B 94° 0' 38.309" E 26° 13' 19.501" N C 94° 0' 35.179" E 26° 13' 16.537" N, D 94° 0' 38.296" E 26° 13' 13.490" N

16. During deliberations, EAC discussed following issues:

- PP informed that TOR was obtained for drilling in 28 locations in six PML Blocks i.e Golaghat District PML (52.12 Sq. Km.), Kasomarigaon PML additional area (56 Sq. Km), Kasomarigaon PML (20 Sq. Km), East Lakhbari PML (8.5 Sq. Km), Khoraghat Extn – I PML (83 Sq. Km) and Nambor PML (26 Sq. Km). All the PMLs are located in the forest area of Nambor and Dayang Reserve Forest. ONGC has also proposed to set up a Group Gathering station (GGs) at Kasomarigaon PML (Additional area), and an Early Production system (EPS) at Kasomarigaon PML. Further, PP informed that out of the proposed 28 wells, forest clearance has been accorded to 16 wells, Kasomarigaon EPS and GGS at SUAB. The forest clearance for the rest of the 12 well locations are pending and therefore ONGC has dropped the proposal for drilling of remaining 12 wells from EC application) in forest Area in 6 PML Blocks Golaghat District, Assam. PP has also submitted revised form 1 for the project.
- The Committee deliberated on 12 observations of IRO on CCR. PP has submitted Reply/action plan on observations raised. Regarding condition no ii, there are 2 existing pits at KSAB site, which will be used for upcoming drilling activities. Regarding Condition No V, -PP informed that ONGC has rate contract with OTBL for bio-remediation of oily sludge. For restoration of drill site, ONGC has SOP in place. Regarding condition no vi, the form IV is being submitted to APCB on annual basis wherein year wise details of oily sludge and spent oil are provided. Regarding condition No xii, at present there is no flaring at KSAB site and gas is flared at KSAG. Also the present facility at KSAG is temporary and the provision of flaring as per OSD Norms would be taken up. Regarding condition No. Xvi, PP informed that ONGC has an approved SOP of site restoration. Condition no xvi, PP informed that

exploratory location KSAB was drilled and put on extended production testing. After wards the development EC has been obtained vide no J 11011-563-2011 IA II (I) dated 8th December, 2020 and KSAB well was converted into development wells. Further two development wells KSDB and KSDC are planned to be drilled from KSAB for which EC has been applied. The Committee suggested the PP to train their Officers for compliance management as well as to provide all project related details alongwith documents to the IRO while they visit the project site for inspection. PP also informed action taken report related to General Conditions. PP also submitted the information in writing.

- PP has submitted the information desired by EAC such as Correlation of 2 seasons baseline data; SOP for restoration of drill site; Revised Action Plan for Public Hearing; Input data used for Air quality modelling; Revised EIA report with new baseline report as addendum; Soft copy of wild life conservation plan (10 years); Clarity on incremental value of NO_x, SO_x; Revised ATR action plan with timeline; Clarification on transportation plan of hydrocarbons; Proof of maintaining separate head/account for Environmental management plan implementation; Clarification regarding status of road preparation.
- The Committee suggested to develop Greenbelt in GGS and EPS in total area of 1.1979 hectares i.e., 33% of total project area with tree density @ 2500 trees per hectares, mainly along the plant periphery. Indigenous species shall only be planted as part of greenbelt and non-indigenous / alien species shall be replaced with native species. No invasive or alien or non-native tree species shall be selected for plantation. PP shall plant at least 20 variety of species as a part of greenbelt. Saplings 4-6 feet high shall be planted.

The committee was satisfied with the response provided by PP on above information

17. The proposal was considered by the EAC (Meeting ID: IA/IND2/13523/26/06/2023) held on 26th June, 2023 in the Ministry, wherein the project proponent and the accredited Consultant namely M/s. AECOM Indian Private Limited (NABET certificate no. NABET/EIA/2124/RA 0247 and validity 19th November, 2024), presented the case. The Committee **recommended** the project for grant of environmental clearance.

18. The EAC, constituted under the provision of the EIA Notification, 2006 and comprising of Experts Members/domain experts in various fields, have examined the proposal submitted by the Project Proponent in desired form along with the EIA/EMP report prepared and submitted by the Consultant accredited by the QCI/NABET on behalf of the Project Proponent. The EAC noted that the Project Proponent has given undertaking that the data and information given in the application and enclosures are true to the best of his knowledge and belief and no information has been suppressed in the report. If any part of data/information submitted is found to be false/ misleading at any stage, the project will be rejected and Environmental

Clearance given, if any, will be revoked at the risk and cost of the project proponent.

19. The Committee noted that the EIA/EMP report is in compliance of the ToR issued for the project, reflecting the present environmental concerns and the projected scenario for all the environmental components. The Committee has found the baseline data is within NAAQ standards. The Committee has deliberated the action plan proposed by the project proponent to arrest the incremental GLC due to the project. The Committee has also deliberated on the CER plan and found to be addressing the issues in the study area. The EAC has deliberated the proposal and has made due diligence in the process as notified under the provisions of the EIA Notification, 2006, as amended from time to time and accordingly made the recommendations to the proposal. The Experts Members of the EAC have found the proposal in order and have **recommended** for grant of Environmental Clearance.

20. The environmental clearance granted to the project/activity is strictly under the provisions of the EIA Notification 2006 and its amendments. It does not tantamount/construe to approvals/consent/ permissions etc. required to be obtained or standards/conditions to be followed under any other Acts/ Rules/ Subordinate legislations, etc., as may be applicable to the project. The project proponent shall obtain necessary permission as mandated under the Water (Prevention and Control of Pollution) Act, 1974 and the Air (Prevention and Control of Pollution) Act, 1981, as applicable from time to time, from the State Pollution Control Board, prior to construction & operation of the project.

21. Based on the proposal submitted by the project proponent and recommendations of the EAC (Industry-2), Ministry of Environment, Forest and Climate Change hereby accords environmental clearance for Onshore Development and Production of oil and gas from 28 wells and establishment of Kasomarigaon EPS and GGS at SUAB drill site in forest area in 6 PML Blocks, Golaghat district, Assam located at Village Kasmari Gaon, Tehsil Sarupathar, District Golaghat, State Assam by M/s. Oil and Natural Gas Corporation Limited, under the provisions of the EIA Notification, 2006, and the amendments therein, subject to compliance of the terms and conditions as under:-

A. Specific Condition:

- (i). As proposed by the Project Proponent, out of 28 wells, the proposal for drilling of 12 wells from EC application (where forest clearance is pending) in 6 PML Blocks Golaghat District, Assam has been dropped. Now, PP has to apply separately for the consideration of environmental clearance for the remaining 12 wells located in the forest area in case they want to drill the said wells. Therefore, environmental clearance has been granted for Onshore Development and Production of oil and gas from 16 wells and establishment of Kasomarigaon EPS and GGS at SUAB drill site in forest area in 6 PML

Blocks.

- (ii). Implementation of Action Plan on the issues raised during the Public Hearing shall be ensured. The Project Proponent shall undertake all the tasks as per the Action Plan submitted with budgetary provisions during the Public Hearing.
- (iii). 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 as per proposed in Annexure-II.
- (iv). No pipelines or its part shall be laid in the Forest land/Protected Area without prior permission/approval from the Competent Authority.
- (v). Total fresh water requirement shall not exceed 25 CMD and will be met from surface water. Prior permission shall be obtained from the concerned regulatory authority.
- (vi). The project proponent will treat and reuse the treated water within the drilling site and no waste or treated water shall be discharged outside the premises. Mobile ETP coupled with RO shall be installed to reuse the treated water in drilling system. Mobile STP shall also be installed. The size of the waste pit 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 rainwater. There shall be separate storm water channel and rainwater shall not be allowed to mix with wastewater. Level of the Drilling site shall be constructed in such a way that outside rainwater shall not enter into the drilling site. Alternatively, if possible, pit less drilling be practiced instead of above.
- (vii). PP shall ensure the compliance of standards stipulated for flaring in the Environmental (Protection) Rules, 1986. In case of elevated flaring, the minimum stack height shall be 30 m. Height of stack shall be such that maximum GLC never exceeds the prescribed ambient air quality limit.
- (viii). The company shall construct the garland drain to prevent runoff of any oil containing waste entering into the nearby water bodies. Separate drainage system shall be created for oil contaminated and non-oil contaminated wastes.
- (ix). As proposed, produced formation water is stored in formation water tanks shall be disposed to the abandoned wells of ONGC after necessary treatment.

Separated water from phase separation system will be treated in an ETP and will be reused. Treated effluent shall meet the water quality standards for re-injection well as per the CPCB/SPCB guidelines. PP shall monitor water quality of treated effluent regularly and maintain records.

- (x). During production, storage and handling, the fugitive emission of methane, if any, shall be monitored using Infra-red camera/ appropriate technology.
- (xi). The project proponent also to ensure trapping/storing of the CO₂ generated, if any, during the process and handling.
- (xii). Approach road shall be made pucca to minimize generation of suspended dust.
- (xiii). 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.
- (xiv). 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 HOW(M&TM) 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.
- (xv). 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.
- (xvi). 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.
- (xvii). 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.
- (xviii). Blow Out Preventer system shall be installed to prevent well blowouts during drilling operations.
- (xix). 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. After completion of drilling of any well, the owner or operator shall restore the well site, remove or fill all pits used to contain produced fluids or industrial waste and remove all drilling supplies and equipment not needed for production.

- (xx). PP proposed to allocate Rs. 1.40 Crores towards Extended EMP (CER) which shall be spent as submitted in CER plan (Annexure-III). Further, all the proposed activities under CER shall be completed within 2 years of commencement of project activities in consultation with District Administration.
- (xxi). End of life lead acid batteries shall be disposed in compliance with the rules specified in Battery Waste Management Rules.
- (xxii). 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.
- (xxiii). Oil content in the drill cuttings shall be monitored and report & shall sent to the Ministry's Regional Office.
- (xxiv). 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.
- (xxv). PP should establish in house (at project site) environment laboratory for measurement of environment parameter with respect to air quality and water (surface and ground. A dedicated team to oversee environment management shall be setup at site which should comprise of Environment Engineers, Laboratory chemist and staff for monitoring of air, water quality parameters on routine basis instead of engaging environment monitoring laboratories/consultants. Any non- compliance or infringement should be reported to the concerned authority.
- (xxvi). The Project Proponent shall undertake Occupational Health survey for initial

and Periodical medical examination of the workers engaged in the Project and maintain records accordingly as per the provisions of the Mines Rules, 1955 and DGMS Circulars. Besides carrying out regular periodic health check-up of their workers, 20% of the workers engaged in active drilling operations shall be subjected to health check-up for occupational diseases and hearing impairment, if any.

- (xxvii). Greenbelt will be developed for GGS and EPS in total area of 1.1979 hectares i.e., 33% of total project area with tree density @ 2500 trees per hectares, mainly along the plant periphery. Indigenous species shall only be developed as part of greenbelt and non-indigenous / alien species shall be replaced with native species. No invasive or alien or non-native tree species shall be selected for plantation. PP shall develop at least 20 variety of species as a part of greenbelt. Saplings 4-6 feet high shall be planted. Selection of plant species shall be as per the CPCB guidelines in consultation with the State Forest Department and native species shall be developed. Records of tree canopy shall be monitored through remote sensing map. Greenbelt development shall be completed before commissioning of the plant.
- (xxviii). PP shall sensitize and create awareness among the people working within the project area as well as its surrounding area on the ban of Single Use Plastic in order to ensure the compliance of Notification published by MOEFCC on 12th August, 2021. A report along with photographs on the measures taken shall also be included in the six-monthly compliance report being submitted to concerned authority.

B. General Condition:

- (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.
- (ii) The energy source for lighting purpose shall be preferably LED based, or advanced having preference in energy conservation and environment betterment.
- (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 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.
- (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.
- (vi) A copy of the clearance letter shall be sent by the project proponent to concerned Panchayat, Zilla Parishad/Municipal Corporation, Urban local Body and the local NGO, if any, from whom suggestions/ representations, if any, were received while processing the proposal.
- (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 e-mail) 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.
- (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 clearance conditions and shall also be sent to the respective Regional Offices of MoEF&CC by e-mail.
- (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.

- (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.
- (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.

22. The Ministry reserves the right to stipulate additional conditions, if found necessary at subsequent stages and the project proponent shall implement all the said conditions in a time bound manner. The Ministry may revoke or suspend the environmental clearance, if implementation of any of the above conditions is not found satisfactory.

23. Concealing factual data or submission of false/fabricated data and failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract action under the provisions of Environment (Protection) Act, 1986.

24. Any appeal against this environmental clearance shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.

25. The above conditions will be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, the Hazardous Waste (Management, Handling and Transboundary Movement) Rules, 2016 and the Public Liability Insurance Act, 1991 read with subsequent amendments therein.

26. This issues with the approval of the competent authority.

(A. N. Singh)
Scientist-'E'

Copy to: -

1. The Secretary, Environment & Forest, H-Block, 2ndFloor, Janata Bhawan, Disupr, Guwahati - 781006 (Assam)
2. The Regional Officer, Ministry of Env., Forest and Climate Change, Integrated Regional Office, Guwahati, 4th Floor, HOUSEFED Building, G.S. Road

- Rukminigaon, Guwahati - 781022
3. The Member Secretary, Central Pollution Control Board, Parivesh Bhawan, East Arjun Nagar, Delhi - 32
 4. The Member Secretary, Pollution Control Board Assam, Bamunimaidam, Guwahati - 21 (Assam)
 5. Monitoring Cell, Ministry of Environment, Forest and Climate Change, Indira Paryavaran Bhawan, Jor Bagh Road, New Delhi - 3
 6. District Collector, Golaghat, Assam
 7. Guard File/Monitoring File/ Parivesh Portal /Record File

(A. N. Singh)
Scientist-'E'

E-mail: aditya.narayan@nic.in
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Annexure –I

The main issues raised during the public hearing and their action plan:

S I. N o	Name of the attende e	Concerns raised during Public Hearing	Response to the concerns/iss ues raised in public hearing	Activity	Estimated Expenditure (INR)	Time line
1	Dipak Ch. Bora from Upper Lengtha Gaon	He raised some concern, and those were: Ground water has been affected by the bombing activity by ONGC from 1971 onwards, and at the present scenario the water has become oily and full of iron. He also suggested that ONGCL should hang a hoarding, mentioning their activities, where they have done their CSR activities. He also stated that land acquisition process of ONGC is a one-sided	To the answer of the first concern regarding water quality, ONGC replied, iron content is naturally high in the area. He also stated that, during drilling ground water is only used for domestic purpose, otherwise recycled water is used in the drilling process. ONGC also	To ensure Safe drinking water supply through installation of Borewell and Iron Filter (Capacity 2000 lit/ day) for the local villagers.	Rs. 40 lakhs.	It would be completed within two years from the commencement of the project.

S I. N o	Name of the attende e	Concerns raised during Public Hearing	Response to the concerns/iss ues raised in public hearing	Activity	Estimated Expenditure (INR)	Time line
		decision. He himself gave his land, but till now he didn't get the agreement of the land and he called himself a sufferer for this.	stated that two ETP have been installed in Khoraghat and Nambar area, and mobile ETPs are also being used in many sites. He also assured that the reinjection of water is done with the suggestion of ASPCB, and it is much below the ground water level. For the second suggestion from the person, ONGC welcomed his suggestion. Regarding the land acquisition ONGC stated that as per the Government rule and with consultation with the District administration ONGC initiate the land acquisition process. In this regard ADC, Golaghat made him clear that now			

S I. N o	Name of the attende e	Concerns raised during Public Hearing	Response to the concerns/iss ues raised in public hearing	Activity	Estimated Expenditure (INR)	Time line
			a days an ACT has been enacted, land acquisition is done according to the act only. In reply, Dipak Ch. Bora state that his land was taken on lease, and the amount offered was not sufficient. Year wise consolidated list of all the CSR activities to be displayed in the area of concern by 30.04.2021			
2	Prasadi Bora, from Baroghoria Gaon	He stated that his paddy field is near to one of the ONGC's drill site and due to gas flaring production has been less in the recent years, for which he has also lodged a complaint to ONGC, but till date he has not received any compensation for his loss.	ADC Golaghat requested ONGC representative to look into the matter immediately and to take necessary steps.	A technical committee has been formed to assess the claim made by the complainant and due compensation would be paid by ONGC	-	-
3	Shri Binod Gogoi,	He alleged that due to ONGC's activities his agrifarm production is	In this regard ONGC stated that usually they don't		-	

S I. N o	Name of the attende e	Concerns raised during Public Hearing	Response to the concerns/iss ues raised in public hearing	Activity	Estimated Expenditure (INR)	Time line
	Barghori a Gaon	getting low. He has requested ONGC to give compensation for the damage, they have caused in agri-farm production. He also welcomed the new project prospect in the area, by ONGC. But also requested ONGC to keep an eye on the welfare of the local people. He requested ONGC to hire local people in unskilled labour category, so that job generation get boosted in the area. He said that in Bebejia Goan production of crude oil has started, and it is the duty of the local people to safeguard the resources. He also stated that one pipeline has passed in front of this house, and he wanted to know from ONGC, that is there any kind of rules or protocol that local youth could be appointed as guard to keep an eye on the pipeline.	allow laying of pipelines near to any house, paddy field or any other sensitive area. Moreover, personnel are already appointed to inspect the pipeline if there is any leakage. Village defence personnel are there, to report to ONGC, if any kind of unusual occurred in the pipeline. ONGC made it clear again that they reuse the water after treatment but does not allow discharge of untreated water. ETP and mobile ETPs are present in the site, for the treatment of water. But in case if any loss happens due to the			

S I. N o	Name of the attende e	Concerns raised during Public Hearing	Response to the concerns/iss ues raised in public hearing	Activity	Estimated Expenditure (INR)	Time line
			untreated water from ONGC site, they are ready to provide the compensation.			
4	Shri Mahim Bora, from Bobali Gaon	He stated his quarries as, during the survey period or drilling period ONGC dug hole, but after they left the site, in case of unavailability of oil, they did not restore the place, as it was previously. For this reason, sometimes their cattle fell into that hole.	ONGC clarified the matter by saying that in seismic survey the wells are dug to a small depth, which is shot hole. In this process with the help of blasting artificial earthquakes are being made, so as a result the hole get filled automatically. If not, ONGC is ready to fill up this hole.	Compliance for filling the small-bore hole drilled for seismic survey will be ensured by ONGC.	-	-
5	Shri Arindam Nag, Bebejia Gaon	He spoke that as a result of ONGC activity heavy vehicles ply on the road and damage it. He wanted to know whether ONGC will take the responsibility to repair the roads.	ONGC representative clarify the matter by saying that the maintenance work of the road are usually done by the ONGC, and in future they will continue to do so.	ONGC has approved the fund of Rs. 76 lakhs for Road repair in the working area and is expected to complete the work by 31.12.2020.	30 lakhs	(Already Completed)

S I. N o	Name of the attende e	Concerns raised during Public Hearing	Response to the concerns/iss ues raised in public hearing	Activity	Estimated Expenditure (INR)	Time line
6	Shri Karlos Marua, Borbali Gaon	He stated that he is happy as ADC Golaghat, EE PCBA and ONGC officials are present and all the grievances are placed Infront of them. ONGC previously made some promises for the welfare of the village under CSR programme, but till date it has not been fulfilled. He also stated that guard wall near the drill site should be constructed. He also stated that installation of solar light in the village road are done by the ONGC.	ONGC stated that many people submit their grievances, but those demands should be comes from the concerned area SDO, hence they will definitely look into the matter and fulfil it. The ADC, Golaghat made it clear that the grievances should be submit at SDO office, Circle office and OC of the concerned area and the district administration will go through the matter. He gave stress on ecological development of the country. He also stated that, after proper justification of the grievances the matter would be put up at the	1.ONGC have approved fund forSolar Street lights. 2.Additionally, ONGC have approved fund for Plantation activity in villages through Panchayat 3.Organizing Health and Eye Check-up Camp for village people.	1. Rs. 50 lakhs 2. Rs.10 Lakhs 3.Rs.10 lakhs	1. It would be complete d within two years from the commenc ement of the project. 2. It would be complete d within two years from the commenc ement of the project.

S I. N o	Name of the attende e	Concerns raised during Public Hearing	Response to the concerns/iss ues raised in public hearing	Activity	Estimated Expenditure (INR)	Time line
			concerned level or authority.			
				Total	1.4 Cr	

Annexure - II

Capital cost and recurring cost of EMP are given below:

Sr. No.	Mitigation/Management measures	Total Capital Cost (in INR)	Recurring Cost (in INR)
1	Wastewater and effluent Management Modular STP Water Quality Monitoring	10,00,000	40,000 40,000
2	Fuel, Lubricant and Chemical Management	15,00,000	65,000
3	Noise and Vibration Mitigation Acoustic Enclosure and Personal Protective Equipment Noise Monitoring Maintenance cost of equipment	1,75,000	35,000 58,000
4	Solid Waste Management	1,50,000	50,000
5	Air emission mitigation Maintenance of D.G. sets Air monitoring	-----	10,00,000 1,25,000
6	Soil Quality	-----	43,000
7	Training to Staff	-----	1,25,000
8	General Awareness in Local Public	-----	1,75,000
Total		28,25, 000	17,56,000

Annexure - III

Details of extended EMP (CER) with proposed activities and budgetary allocation:

S. no.	District	Particulars	Activity	Timeline	Total in INR	
1	Golaghat	Community infrastructure	Solar Street lights	Within 2 years from the commencement of the project	0.40 Crores	
			Safe drinking water supply through installation of Borewell and Iron Filter (Capacity 2000 lit/ day) for the local villagers.		0.50 Crores	
2			Environment		Plantation Activity in villages through Panchayat	0.10 Crores
3			Health		Health and Eye Check-up Camp	0.10 Crores
4		Infrastructure	Road Preparation		0.30 Crores	
Total funds under CER					Rs. 1.4 Crores	

Signature Not Verified
 Digitally signed by A N Singh
 Scientist E
 Date: 7/31/2023 12:29:25 PM



ONGC Office of Head HSE, Jorhat
Nambar-I, Cinnamara Jorhat-785704.
Ph: 0376-2707314/ 2707734

To,

~~Chairman Zilla Parishad~~ Chief executive Officer Zilla Parishad
Jorhat

Sub: Submission of Copy of Environmental Clearance granted to ONGC, Jorhat

Sir,

Please find enclosed herewith Copy of Environmental Clearance " **Onshore Development and Production of oil and gas from 28 wells and establishment of kasomari gaon EPS and GGS at SUAB drill site in forest area in 6 PML Blocks, Golaghat district, Assam**".

This is for your kind information

Thanking You,

Yours faithfully

 6/11/24
Pinky Rai CGM (Electrical)

Head HSE - Jorhat Asset
Pinky Rai
CGM, Head HSE
Jorhat Asset, ONGC





ओइल एण्ड नेचुरल गैस कॉर्पोरेशन लिमिटेड
कार्पोरेट भूतल प्रबंधक, मामतार, 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-11011/149/2023-IA-II(I) dated 31st July 2021 for "Onshore Development and Production of oil and gas from 28 wells and establishment of Kasomarigaon EPS and GGS at SUAB drill site in forest area in 6 PML Blocks, Golaghat district, 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- 1477.67 MT OF CRUDE OIL AND 0.014867 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

DURING THE PREVIOUS
YEAR ENDING 31ST MARCH

DURING THE CURRENT
YEAR ENDING 31ST

MARCH

(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 MATERIALS	
		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**

	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 RECYCLEED OR RE-UTILIZED WITHIN THE UNIT		
(2) SOLID- NIL		NIL
(3) DISPOSED- — KG, — 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. BURNT 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 2023-2024
400 SAPLING WERE PLANTED NEAR THE WELL SITES.

US-based publication names Assamese techie as a top-100 global influencer

STAFF REPORTER

GUWAHATI, Sept 14: Bhaskar Deka, a Silicon Valley-based Assamese technology executive of Assamese origin, has been honoured by the US-based leading publication 'Human Resources Executive' as one of the top 100 global technology executives this year.

The annual list includes top technology executives from global companies such as Google, Oracle, Disney, Facebook, SAP and others. Deka is one of the six persons of Indian origin to be included in the list and the first Assamese to be bestowed with that honour.

"The people named to the list enjoy a

reputation that makes an impact within the industry across various fields and this year's influencers are shaping the delivery of HR technology," the website of Human Resources Executive says about the list. The award ceremony will take place in the second week of October in Las Vegas.

Deka is currently a Global Vice President (GVP) & General Manager and a member of the Senior Leadership Team for Cornerstone On Demand, a global software leader in talent management with billions of dollars in annual revenue and with offices around the world, including India.

Since immigrating to the United States



Bhaskar Deka

in 1995, Deka has held senior leadership positions in engineering and product management with top Silicon Valley stalwarts such as Oracle Corporation.

Originally from Guwahati, Deka had a stellar academic record right from his formative years. The eldest son of Mrinalini Deka and late Rajendra Nath Deka, he grew up in the Pub Sarania/Rajgarh area and did his schooling from Cotton Collegiate High School. He secured 3rd position in the High School Leaving Certificate (HSLC) examination and also won the Assam Science Society award for getting the combined highest marks in Mathematics, Science and Assamese literature, before joining Cotton College

for his higher secondary education.

He graduated with a First Class bachelor's degree (BE) with distinction in Computer Science and Engineering from Birla Institute of Technology. He then received a Masters in Science (MS) degree in Computer Science with focus on Artificial Intelligence and Expert Systems from Boston University, USA. Deka later obtained an MBA from Kellogg School of Management, USA – one of the top five management institutes in the world.

As Chief Product and Artificial Intelligence (AI) Officer, Deka has been credited with leading product development in three startups with successful exits in the past nine years with a total exit

value of over 1 billion dollars.

These startups have been funded by some of the best venture capital firms with assets worth hundreds of billions of dollars under management – including marquee names such as SoftBank, Insight Partners, CrossLink capital and Bessemer Venture Partners. Deka has also been an advisor to multiple startups in the Artificial Intelligence/Machine Learning space and venture capital firms focused on investment in Artificial Intelligence technologies.

Deka lives in Palo Alto, California, in the heart of Silicon Valley with his wife Monmi Dutta, who is a lead software engineer with Wells Fargo, and two kids.

Corrigendum notice regarding NIT bearing No. GMB/14th FC/2019-20/05 Dated 28.08.2023 cancelled due to technical reasons.

Press Notice Inviting Re-Tender for Superintending Engineer PWD (Roads), Kamrup Road Circle, Guwahati-01.



Members of the All Assam COVID-19 Safai Karmachari Santha staging a protest in support of various demands, in Guwahati on Thursday. - UB Photos

Swachh Jal Mission notice regarding relocation of the office of the Mission Director.

Dr. B. Borooah Cancer Institute notice inviting registration of vendors for hiring of cars on rental basis.

CSIR-Central Mechanical Engineering Research Institute advertisement for Project-SRF/JRF/Project Associate/Diploma positions.

ECHO bootcamp orientation programme organized

A two-day ECHO bootcamp orientation programme organized by WWF India, Assam State office in collaboration with Zoology Department of Cotton University at the Sudmersen Hall, Cotton University concluded recently.

Kamatapuri dictionary released

GUWAHATI, Sept 14: Kamatapuri Rajbongshi Abhidhan, a trilingual dictionary compiled by Bakul Roy was released at an event at Amal Prabha auditorium, Beldola here recently.

Assam Industrial Development Corporation Limited advertisement for construction of boundary wall at Industrial Growth Centre.

Oil and Natural Gas Corporation Ltd. Environmental Clearance notice regarding Onshore Development and Production of oil and gas.

Gauhati University notice inviting tender for Aquaculture & Bio-diversity Centre.

North Eastern Coalfields Coal India Limited advertisement for tendering for goods, works and services.

LIC agents' State convention organized

GUWAHATI, Sept 14: The Assam State Convention of the LIC Agents' Organisation of India (LICAOI) was held at the Institution of Engineers auditorium here on September 12.

LIC agents' State convention organized

only for the benefit of the agent community but also for the benefit of the entire labour class. All the leaders expressed their concern about the burning problems of the common people and criticised the anti-people, anti-agents agenda of the present government.

Notice regarding advertisement no VET/APART/CM-SLB/2022-23/4257 Dated: 27th March 2023 for Veterinary Officer, Laboratory Assistant and Office Attendant.

Pollution Control Board: Assam public hearing notice regarding River Bed Mining for Barak Sand Minor Mineral Unit No. 3 on Barak River bed.



ENVIRO-TECH SERVICES

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TC-13009

TEST REPORT

TEST REPORT NO.: ETS/2850/04/2024 URL NO.TC130092400002850F 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.
SATELLITE FIELD, JORHAT (KSAB)

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 : 10.50 AM To 10.50 AM (CO & O₃ for 1.0 Hrs.)
 Sample ID No : 2850
 Sampling Done By : ETS STAFF
 Sampling Location : NEAR MAIN GATE (KSAB)
 Sampling Method : ETS/STP/AIR-01
 Sampling Machine Placed At Height : 1.5 METER FROM GROUND LEVEL
 Weather Condition : CLEAR Ambient Temperature: 34.0 °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	80.8	For 24 Hrs.=100	IS 5182 (Part-23)
2	Particulate Matters,(PM _{2.5})	µg/m ³	38.5	For 24 Hrs.=60	IS 5182 (Part-24)
3	Sulphur Dioxide, (SO ₂)	µg/m ³	13.0	For 24 Hrs.=80	IS: 5182 (Part-2)
4	Nitrogen Dioxide,(NO ₂)	µg/m ³	29.0	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	18.0	For 1 Hrs.=180	IS: 5182 (Part-9)
7	Lead,(Pb)	µg/m ³	<0.05	For 24 Hrs.=1	IS 5182 (Part-22)



For ENVIRO-TECH SERVICES
AUTHORIZED SIGNATORY
SHRADDHA GUPTA
Quality Manager

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

Note:-

1. Test reports without ETS LAB HOLOGRAM are not issued by our laboratory.
2. The results indicated only refer to the tested samples and listed applicable parameters.
3. No complaint will be entertained if received after 7 days of issue of test report.
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ISO 45001



ETS-LAB

TEST REPORT

TEST REPORT NO.: ETS/2850/04/2024

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=05	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	0.63	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*****



CHECKED BY
SHRADDHA 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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TC-13009

TEST REPORT

TEST REPORT NO.: ETS/2851/04/2024

URL NO.TC130092400002851F

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.
SATELLITE FIELD, JORHAT (KSAB)

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. : 2851
 Sampling Done By : ETS STAFF
 Sampling Method : ETS/STP/STACK-01
 Stack Attached To : DG SET (KSAB)
 Capacity Of Stack : 15.0 KVA
 Quantity Of Fuel Used : 2-4 LPH
 Type Of Fuel Used : H.S.D
 Stack Height Above Ground : 3.0 MTR.
 Stack Dia At The Top : 25.0 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 : 34.0°C
 Flue Gas Temperature : 112.0°C
 Velocity Of Flue Gases : 17.7 MTR./SEC.
 Quantity Of Emission Discharged : 31.26 m³/hr

S. No.	Test Parameter	Unit	Result	Specification/Limit (As per CPCB)	Test Method
1	Particulate Matters.(PM)	g/kw-hr	0.09	0.3	IS-11255 (Part-1)
2	Carbon Monoxide.(CO)	g/kw-hr	0.51	3.5	IS: 13270
3	Sulphur Dioxide.(SO ₂)	mg/Nm ³	19.5	Not Specified	IS-11255 (Part-2)



For ENVIRO-TECH SERVICES
 AUTHORIZED SIGNATORY
 MD HUMRAJ
 Quality Manager

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

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TEST REPORT

TEST REPORT NO.: ETS/2851/04/2024

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	13.5	Not Specified	ETS/STP/STACK-07
5	Oxide of Nitrogen (NO _x) + Hydro Carbon (HC)	g/kw-hr	1.40	7.5	IS-11255 (Part-7)

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



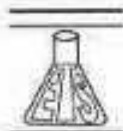
For ENVIRO-TECH SERVICES

AUTHORIZED SIGNATORY
Quality Manager

Format No ETS/LAB/TR-05, 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/2852/04/2024 URL NO.TC130092400002852F DATE OF REPORT: 30.04.2024

AMBIENT NOISE MONITORING REPORT

Name And Address of Customer : M/s, OIL AND NATURAL GAS CORPORATION LTD.
SATELLITE FIELD, JORHAT (KSAB)

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 : 2852
Monitoring Done By : ETS STAFF
Sampling Location : NEAR BOUNDRY WALL (KSAB)
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)	66.5	75	IS: 9989
2	Night Time Noise Level	Leq :dB (A)	53.7	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*****



CHECKED BY
SHRADDHA GUPTA

For ENVIRO-TECH SERVICES

AUTHORIZED SIGNATORY

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

Note:-

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TC-13009



TEST REPORT

TEST REPORT NO.: ETS/2853/04/2024 URL NO.TC130092400002853F DATE OF REPORT: 30.04.2024

AMBIENT NOISE MONITORING REPORT

Name And Address of Customer : M/s. OIL AND NATURAL GAS CORPORATION LTD.
SATELLITE FIELD, JORHAT (KSAB)

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 : 2853
Monitoring Done By : ETS STAFF
Sampling Location : NEAR DG.SET AREA (KSAB)
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)	67.2	75	IS: 9989
2	Night Time Noise Level	Leq :dB (A)	55.8	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

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

Note:-

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



TC-13009

TEST REPORT

TEST REPORT NO.: ETS/2854/04/2024 URL NO.TC130092400002854F DATE OF REPORT: 30.04.2024

AMBIENT NOISE MONITORING REPORT

Name And Address of Customer : M/s. OIL AND NATURAL GAS CORPORATION LTD.
SATELLITE FIELD, JORHAT (KSAB)

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 : 2854
Monitoring Done By : ETS STAFF
Sampling Location : NEAR DISPATCH PUMP HOUSE (KSAB)
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)	69.2	75	IS: 9989
2	Night Time Noise Level	Leq :dB (A)	57.5	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*****



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

For ENVIRO-TECH SERVICES

AUTHORIZED SIGNATORY
SHRADDHA GUPTA
Quality Manager

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TC-13009

TEST REPORT

TEST REPORT NO.: ETS/2855/04/2024 URL NO.TC130092400002855F DATE OF REPORT: 30.04.2024

AMBIENT NOISE MONITORING REPORT

Name And Address of Customer : M/s. OIL AND NATURAL GAS CORPORATION LTD.
SATELLITE FIELD, JORHAT (KSAB)

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 : 2855
Monitoring Done By : ETS STAFF
Sampling Location : NEAR OFFICE BUILDING (KSAB)
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)	63.7	75	IS: 9989
2	Night Time Noise Level	Leq :dB (A)	54.3	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

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/2856/04/2024

URL NO.TC:130092400002856F

DATE OF REPORT: 30.04.2024

WATER SAMPLE ANALYSIS REPORT

Name And Address of Customer : M/s, OIL AND NATURAL GAS CORPORATION LTD.
SATELLITE FIELD, JORHAT (KSAB)

Date of Sample Received : 22.04.2024
Analysis Start Date : 27.04.2024
Analysis End Date : 30.04.2024
Sample ID No : 2856
Sampling Done By : ETS STAFF
Sampling Description : SURFACE WATER (KSAB)
Sampling Location : NEAR INSTALLATION AREA
Sampling Method : IS 17614 (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	26.9	Not Specified	Not Specified	APHA 2550-B
2	pH		7.30	6.5 - 8.5	Not Specified	APHA 4500-H+
3	Total Dissolved Solids,(TDS)	mg/L	218.0	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	70.0	200	600	APHA 2320-B
7	Total Hardness,(CaCO ₃)	mg/L	84.0	200	600	APHA 2340-C
8	Calcium,(Ca)	mg/L	16.0	75	200	APHA 3500:(Ca)-B
9	Chloride,(Cl)	mg/L	19.0	250	1000	APHA 4500:(Cl-) -B
10	Magnesium,(Mg)	mg/L	10.5	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	9.0	200	400	APHA 4500:(SO ₄)-E
13	Conductivity	µs/cm	320.0	Not Specified	Not Specified	APHA 2510-B

CHECKED BY
SHRADDHA GUPTA

For ENVIRO-TECH SERVICES

AUTHORIZED SIGNATORY
RAJ
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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TEST REPORT

TEST REPORT NO.: ETS/2856/04/2024

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	<0.05	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*****



CHECKED BY
SHRADDHA GUPTA

For ENVIRO-TECH SERVICES

AUTHORIZED SIGNATORY
Quality Manager

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TEST REPORT

TEST REPORT NO.: ETS/2867/04/2024 ULR NO.TC130092400002867F 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.
SATELLITE FIELD, JORHAT (KSAG)

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 : 11.18 AM To 11.18 AM (CO & O₃ for 1.0 Hrs.)
Sample ID No : 2867
Sampling Done By : ETS STAFF
Sampling Location : NEAR MAIN GATE (KSAG)
Sampling Method : ETS/STP/AIR-01
Sampling Machine Placed At Height : 1.5 METER FROM GROUND LEVEL
Weather Condition : CLEAR Ambient Temperature: 34.0 °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	84.7	For 24 Hrs.=100	IS 5182 (Part-23)
2	Particulate Matters,(PM _{2.5})	µg/m ³	41.9	For 24 Hrs.=60	IS 5182 (Part-24)
3	Sulphur Dioxide, (SO ₂)	µg/m ³	18.0	For 24 Hrs.=80	IS: 5182 (Part-2)
4	Nitrogen Dioxide,(NO ₂)	µg/m ³	34.0	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	16.0	For 1 Hrs.=180	IS: 5182 (Part.-9)
7	Lead,(Pb)	µg/m ³	<0.05	For 24 Hrs.=1	IS 5182 (Part-22)



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

For ENVIRO-TECH SERVICES
AUTHORIZED SIGNATORY
Quality Manager

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TEST REPORT

TEST REPORT NO.: ETS/2867/04/2024

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	0.65	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/2868/04/2024

ULR NO.TC130092400002868F

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.
SATELLITE FIELD, JORHAT (KSAG)

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. : 2868
 Sampling Done By : ETS STAFF
 Sampling Method : ETS/STP/STACK-01
 Stack Attached To : DG SET (KSAG)
 Capacity Of Stack : 125.0 KVA
 Quantity Of Fuel Used : 10-12 LPH
 Type Of Fuel Used : H.S.D
 Stack Height Above Ground : 3.0 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 REQUIREMENTS
 Ambient Temperature : 34.0°C
 Flue Gas Temperature : 140.0°C
 Velocity Of Flue Gases : 13.1 MTR./SEC.
 Quantity Of Emission Discharged : 370.20 m³/hr

S. No.	Test Parameter	Unit	Result	Specification/Limit (As per CPCB)	Test Method
1	Particulate Matters,(PM)	g/kw-hr	0.10	0.2	IS-11255 (Part-1)
2	Carbon Monoxide,(CO)	g/kw-hr	0.51	3.5	IS: 13270
3	Sulphur Dioxide,(SO ₂)	mg/Nm ³	29.7	Not Specified	IS-11255 (Part-2)



For ENVIRO-TECH SERVICES

AUTHORIZED SIGNATORY
Quality Manager

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TEST REPORT

TEST REPORT NO.: ETS/2868/04/2024

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	26.0	Not Specified	ETS/STP/STACK-07
5	Oxide of Nitrogen (NO _x) + Hydro Carbon (HC)	g/kw-hr	1.28	4	IS-11255 (Part-7)

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



For ENVIRO-TECH SERVICES

AUTHORIZED SIGNATORY
MO NUMRAJ
Quality Manager

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TC-13009



TEST REPORT

TEST REPORT NO.: ETS/2869/04/2024

ULR NO.TC130092400002869F

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.
SATELLITE FIELD, JORHAT (KSAG)

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. : 2869
 Sampling Done By : ETS STAFF
 Sampling Method : ETS/STP/STACK-01
 Stack Attached To : DG SET (KSAG)
 Capacity Of Stack : 15.0 KVA
 Quantity Of Fuel Used : 2-4 LPH
 Type Of Fuel Used : H.S.D
 Stack Height Above Ground : 3.0 MTR.
 Stack Dia At The Top : 25.0 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 : 34.0°C
 Flue Gas Temperature : 148.0°C
 Velocity Of Flue Gases : 17.6 MTR./SEC.
 Quantity Of Emission Discharged : 31.0 m³/hr

S. No.	Test Parameter	Unit	Result	Specification/Limit (As per CPCB)	Test Method
1	Particulate Matters.(PM)	g/kw-hr	0.09	0.3	IS-11255 (Part-1)
2	Carbon Monoxide,(CO)	g/kw-hr	0.36	3.5	IS: 13270
3	Sulphur Dioxide,(SO ₂)	mg/Nm ³	21.7	Not Specified	IS-11255 (Part-2)



For ENVIRO-TECH SERVICES

AUTHORIZED SIGNATORY
SHRADDHA GUPTA
Quality Manager

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TEST REPORT

TEST REPORT NO.: ETS/2869/04/2024

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	24.0	Not Specified	ETS/STP/STACK-07
5	Oxide of Nitrogen (NO _x) + Hydro Carbon (HC)	g/kw-hr	1.40	7.5	IS-11255 (Part-7)

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



For ENVIRO-TECH SERVICES

AUTHORIZED SIGNATORY
M.D. HUMRA
Quality Manager

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TC-13009

TEST REPORT

TEST REPORT NO.: ETS/2870/04/2024 ULR NO.TC130092400002870F 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.
SATELLITE FIELD, JORHAT (KSAG)

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. : 2870
 Sampling Done By : ETS STAFF
 Sampling Method : ETS/STP/STACK-01
 Stack Attached To : FLARE STACK (KSAG)
 Capacity Of Stack : --
 Quantity Of Fuel Used : --
 Type Of Fuel Used : NATURAL GAS
 Stack Height Above Ground : 4.0 MTR.
 Stack Dia At The Top : 100.0 MM
 Material Of Construction : M.S.
 Attached APCS : --
 Normal Operating Schedule : NORMAL
 Ambient Temperature : 34.0°C
 Flue Gas Temperature : 140.0°C
 Velocity Of Flue Gases : 13.5 MTR./SEC.
 Quantity Of Emission Discharged : 381.51 m³/hr

S. No.	Test Parameter	Unit	Result	Specification/Limit (As per CPCB)	Test Method
1	Particulate Matters,(PM)	mg/Nm ³	58.7	150	IS-11255 (Part-1)
2	Sulphur Dioxide,(SO ₂)	mg/Nm ³	6.9	600	IS-11255 (Part-2)
3	Oxide of Nitrogen,(NOX as NO ₂)	mg/Nm ³	7.5	600	IS-11255 (Part-7)
4	Carbon Monoxide,(CO)	%v/v	0.18	1	IS: 13270: 2008



For ENVIRO-TECH SERVICES
 AUTHORIZED SIGNATORY
 MD HUMRAJ
 Quality Manager

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TEST REPORT

TEST REPORT NO.: ETS/2870/04/2024

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
5	Hydrocarbon,(HC)	mg/Nm ³	17.0	Not Specified	ETS/STP/STACK-07
6	Non Methane Hydrocarbon, (NMHC)	mg/Nm ³	20.0	Not Specified	ETS/STP/STACK-07

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



For ENVIRO-TECH SERVICES

AUTHORIZED SIGNATORY
Quality Manager

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

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



TC-13009

TEST REPORT

TEST REPORT NO.: ETS/2871/04/2024

ULR NO.TC130092400002871F

DATE OF REPORT: 30.04.2024

WATER SAMPLE ANALYSIS REPORT

Name And Address of Customer : M/s, OIL AND NATURAL GAS CORPORATION LTD.
SATELLITE FIELD, JORHAT (KSAG)

Date of Sample Received : 22.04.2024
 Analysis Start Date : 27.04.2024
 Analysis End Date : 30.04.2024
 Sample ID No : 2871
 Sampling Done By : ETS STAFF
 Sampling Description : GROUND WATER
 Sampling Location : FROM BOREWELL WATER (KSAG)
 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	26.9	Not Specified	Not Specified	APHA 2550-B
2	pH	...	7.44	6.5 - 8.5	Not Specified	APHA 4500-H+
3	Total Dissolved Solids,(TDS)	mg/L	590.0	500	2000	APHA 2540-C
4	Fluoride,(F)	mg/L	0.13	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	240.0	200	600	APHA 2320-B
7	Total Hardness,(CaCO ₃)	mg/L	196.0	200	600	APHA 2340-C
8	Calcium,(Ca)	mg/L	50.4	75	200	APHA 3500:(Ca)-B
9	Chloride,(Cl)	mg/L	80.0	250	1000	APHA 4500:(Cl-) -B
10	Magnesium,(Mg)	mg/L	16.8	30	100	APHA 3500:(Mg)-B
11	Nitrate,(NO ₃)	mg/L	0.45	45	Not Specified	APHA 4500:(NO ₃ -) -B
12	Sulphate,(SO ₄)	mg/L	28.0	200	400	APHA 4500:(SO ₄ -) -E
13	Conductivity	µs/cm	867.0	Not Specified	Not Specified	APHA 2510-B



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ETS-LAB

TEST REPORT

TEST REPORT NO.: ETS/2871/04/2024

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	<1.0	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	0.67	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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TC-13009

TEST REPORT

TEST REPORT NO.: ETS/2872/04/2024

ULR NO.TC130092400002872F

DATE OF REPORT: 30.04.2024

WATER SAMPLE ANALYSIS REPORT

Name And Address of Customer : M/s. OIL AND NATURAL GAS CORPORATION LTD.
SATELLITE FIELD, JORHAT (KSAG)

Date of Sample Received : 22.04.2024
 Analysis Start Date : 27.04.2024
 Analysis End Date : 30.04.2024
 Sample ID No : 2872
 Sampling Done By : ETS STAFF
 Sampling Description : SURFACE WATER (KSAG))
 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	26.9	Not Specified	Not Specified	APHA 2550-B
2	pH	...	7.51	6.5 - 8.5	Not Specified	APHA 4500-H+
3	Total Dissolved Solids,(TDS)	mg/L	230.0	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	64.5	200	600	APHA 2320-B
7	Total Hardness,(CaCO ₃)	mg/L	90.0	200	600	APHA 2340-C
8	Calcium,(Ca)	mg/L	15.0	75	200	APHA 3500:(Ca)-B
9	Chloride,(Cl)	mg/L	28.0	250	1000	APHA 4500:(Cl-) -B
10	Magnesium,(Mg)	mg/L	12.6	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	8.0	200	400	APHA 4500:(SO ₄) -E
13	Conductivity	µs/cm	338.0	Not Specified	Not Specified	APHA 2510-B



For ENVIRO-TECH SERVICES

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TEST REPORT

TEST REPORT NO.: ETS/2872/04/2024

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*****

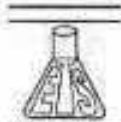


For ENVIRO-TECH SERVICES
AUTHORIZED SIGNATORY
MD HUMRAJ
Quality Manager

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TC-13009

TEST REPORT

TEST REPORT NO.: ETS/2873/04/2024 ULR NO.TC130092400002873F DATE OF REPORT: 30.04.2024

AMBIENT NOISE MONITORING REPORT

Name And Address of Customer : M/s, OIL AND NATURAL GAS CORPORATION LTD.
SATELLITE FIELD, JORHAT (KSAG)

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 : 2873
Monitoring Done By : ETS STAFF
Sampling Location : NEAR DG.SET AREA (KSAG)
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)	64.2	75	IS: 9989
2	Night Time Noise Level	Leq :dB (A)	57.3	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

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

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TEST REPORT

TEST REPORT NO.: ETS/2874/04/2024 ULR NO. TC130092400002874F DATE OF REPORT: 30.04.2024

AMBIENT NOISE MONITORING REPORT

Name And Address of Customer : M/s, OIL AND NATURAL GAS CORPORATION LTD.
SATELLITE FIELD, JORHAT (KSAG)

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 : 2874
Monitoring Done By : ETS STAFF
Sampling Location : NEAR DISPATCH PUMP HOUSE (KSAG)
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)	52.5	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*****



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TC-13009



TEST REPORT

TEST REPORT NO.: ETS/2875/04/2024 ULR NO.TC130092400002875F DATE OF REPORT: 30.04.2024

AMBIENT NOISE MONITORING REPORT

Name And Address of Customer : M/s, OIL AND NATURAL GAS CORPORATION LTD.
SATELLITE FIELD, JORHAT (KSAG)

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 : 2875
Monitoring Done By : ETS STAFF
Sampling Location : NEAR OFFICE BUILDING (KSAG)
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)	59.4	75	IS: 9989
2	Night Time Noise Level	Leq :dB (A)	57.6	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

AUTHORIZED SIGNATORY
MO NUMRAJ
Quality Manager

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TC-13009

TEST REPORT

TEST REPORT NO.: ETS/2876/04/2024 ULR NO.TC130092400002876F DATE OF REPORT: 30.04.2024

AMBIENT NOISE MONITORING REPORT

Name And Address of Customer : M/s, OIL AND NATURAL GAS CORPORATION LTD.
SATELLITE FIELD, JORHAT (KSAG)

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 : 2876
Monitoring Done By : ETS STAFF
Sampling Location : NEAR BOUNDRY WALL (KSAG)
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)	66.2	75	IS: 9989
2	Night Time Noise Level	Leq :dB (A)	60.7	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

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