

#### **HSE Department**

Oil India Limited

Duliajan, Dibrugarh, 786602, Assam Phone: 0374-2800542

Email: safety@oilindia.in

दिनांक/Date: 30.11.2024

संदर्भ सं./Ref. No.: S&E/E/43C-1/1243

| From                                                                                                                                                              | : | Executive Director (HSE & ESG) - Officiating                                                                                                                             |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Deputy Director General of Forests (Central), Sub Office, Guwahati (under Regional Office, Shillong), 4th Floor, Housefed Building, Rukminigaon, Guwahati-781022. |   | Sub Office, Guwahati (under Regional Office, Shillong),<br>4th Floor, Housefed Building, Rukminigaon,                                                                    |
| Subject                                                                                                                                                           | : | Submission of Half-yearly (April 2024 to September 2024) compliance reports of the conditions stipulated in the Environment Clearance (EC) granted to Oil India Limited. |

Sir,

Reference to above subject, please find enclosed herewith the Half-yearly (April 2024 to September 2024) compliance reports of the conditions stipulated in the Environment Clearance (EC) granted to Oil India Limited. List of the EC are tabulated below:

| S.No | EC Identification No/File No.                       | Name of the EC proposal                                                                                                                                                      |
|------|-----------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1.   | F. No. J-11011/413/2008-IA II (I) dated 24.01.2011  | OCS Bhogpara.                                                                                                                                                                |
| 2.   | F. No. J-11011/1251/2007-IA II (I) dated 01.11.2011 | Exploratory Drilling of 01 (One) well at Doomdooma-Pengry Area, District Tinsukia, Assam.                                                                                    |
| 3.   | F. No. J-11011/682/2008-IA II (I) dated 17.06.2013  | Expansion of Gas field Development in Tengakhat-Naharkatia-Jorajan area and Doomdooma Pengry area, Assam by M/s Oil India Ltd.                                               |
| 4.   | F. No. J-11011/116/2018-IA II (I) dated 07.01.2020  | Onshore Oil & Gas Exploration & Development Drilling and Production in Ningru Oil & Gas Field in Districts Changlang and Namsai for Ningru PML Block (Arunachal Pradesh)     |
| 5.   | F. No. J-11011/1260/2007-IA II (I) dated 09.04.2020 | Onshore Oil & Gas Development Drilling and Production in Mechaki Area covering Mechaki, Mechaki Extension, Baghjan and Tinsukia Extension PMLs on District Tinsukia (Assam). |
| 6.   | F. No. J-11011/150/2016- IA II (I) dated 11.05.2020 | Extension Drilling & Testing of Hydrocarbons at 7 (seven) Locations under Dibru-Saikhowa National Park Area, North-West of Baghjan PML, District Tinsukia, Assam.            |
| 7.   | F. No. J-11011/1253/2007-IA II (I) dated 28.12.2020 | Onshore Oil & Gas development drilling and production by M/S Oil India Ltd in Dibrugarh district under Dibrugarh, Chabua, Higrijan and Tinsukia PMLs. (Dibrugarh- Bhogpara)  |
| 8.   | F. No. J-11011/375/2016-IA II (I) dated 28.12.2020  | Onshore Oil & Gas Development Drilling and Production (179 wells and 9 Production Installations) in North Hapjan – Tinsukia –                                                |



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|      |                                    | Dhola area under Tinsukia district, Assam.                                          |
|------|------------------------------------|-------------------------------------------------------------------------------------|
| 9.   | F. No. J-11011/35/2018-IA II (I)   | Onshore Oil & Gas development drilling and                                          |
|      | dated 26.02.2021                   | production by M/S Oil India Ltd. Located in                                         |
|      |                                    | Khagorijan Oil & Gas Field in Dibrugarh &                                           |
|      | · ·                                | Tinsukia District under Tinsukia PML,                                               |
|      |                                    | Tinsukia Extension PML and Chabua PML                                               |
| 10   | D N 111011/106/2016 IA II (I)      | District: Dibrugarh, Assam                                                          |
| 10.  | F. No. J-11011/186/2016-IA II (I)  | Onshore Oil & Gas development drilling and                                          |
|      | dated 03.03.2021                   | production in Borhat-Titlagarh area,<br>Dibrugarh, Sibsagar and Charaideo Districts |
|      |                                    | under Sapkaints, Borhat, Moran Extension                                            |
|      |                                    | and Doomdooma PMLs.                                                                 |
| 11.  | EC22A002AS110311                   | Oil & Gas development drilling and                                                  |
| 7.78 | F. No. J-11011/156/2017-IA II (I)  | production (16 exploratory, 73 developmental                                        |
|      | dated 28.11.2022                   | drilling wells and 9 Production Installations)                                      |
|      |                                    | in Moran Area under Dibrugarh, Sibsagar and                                         |
|      |                                    | Charaideo districts, Assam.                                                         |
| 12.  | EC23A002AS125690                   | Oil & Gas development drilling and                                                  |
|      | F. No. J-11011/1254/2007-IA II (I) | production (68 developmental drilling wells                                         |
|      | dated 13.01.2023                   | and 9 Production Installations) in Khowang                                          |
|      |                                    | Shalmari Area under Dibrugarh, Sibsagar                                             |
| 13.  | EC23A002AS188131                   | districts, Assam.  Onshore Oil & Gas development drilling and                       |
| 13.  | F.No J-11011/1257/2007- IA II (I)  | production (167 wells and 7 production                                              |
|      | dated 17.04.2023                   | Installations) in Tengakhat-Kathaloni-Dikom                                         |
| Ana  | dated 17.04.2025                   | (TKD) under Dibrugarh district, Assam.                                              |
| 14.  | EC23A002AS198872                   | Onshore Oil & Gas development drilling (67                                          |
|      | F. No. J-11011/388/2016-IA II (I)  | wells) in Jorajan Area under Dibrugarh,                                             |
|      | dated 31.07.2023                   | Charaideo and Tinsukia districts, Assam.                                            |
| 15.  | EC23A002AS146942                   | Onshore Oil & Gas development drilling and                                          |
|      | F.No. J-11011/546/2017-IA(I)       | production (294 wells and 2 Production                                              |
|      | dated 20.09.2023                   | Installations) in Naharkatiya-Deohal-                                               |
|      |                                    | Bogapani-Nagajan (NDBN) area under                                                  |
|      |                                    | Dibrugarh & Tinsukia districts, Assam.                                              |

This is for your kind information please.

Thanking you.

Yours faithfully, For Oil India Limited

(Raj Kishore Singh) (PED (HSE & ESG) - Officiating

Nodal Officer (EC, FC, NBWL)

For Resident Chief Executive



HSE Department
Oil India Limited

Duliajan, Dibrugarh, 786602, Assam Phone: 0374-2800542

Email: safety@oilindia.in

Encl: As above

#### Copy:

- 1. Director, Monitoring Cell, MoEF, Paryavaran Bhawan, CGO Complex, Lodhi Road, New Delhi-110003.
- 2. Zonal Office, Central Pollution Control Board, "TUM-SIR", Lower Motinagar, Near Fire Brigade Headquarter, Shillong-793014.
- 3. Chairman, Assam Pollution Control Board, Bamunimaidan, Guwahati-781021, Assam.
- 4. Chairman, Arunachal Pradesh State Pollution Control Board, Office of the Principal Chief and Secretary (E&F) Conservator of Forests, Govt. of Arunachal Pradesh, Itanagar-791111, Arunachal Pradesh.

## STATUS OF COMPLIANCE OF EC CONDITIONS

**Installation: OCS-BHOGPARA** 

Period: 01/04/2024-31/09/2024

### EC No: No J-11011/413/2008-I A II(I) DATED 24.01.2011

|           | Specific Condition                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                     |  |  |
|-----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--|--|
| SI<br>No. | EC Condition                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Compliance status/Remark                                                            |  |  |
| i.        | Environmental clearance is subject to obtaining prior clearance from wildlife angle including clearance from the Standing Committee of the National Board for Wildlife regarding impact of the proposed projectson the Padumani Wildlife Sanctuary (8.2 km from new BUS at Mahum), Borjhan Wildlife Sanctuary (5 km from STF) and 3 recently declared Wildlife sanctuaries (declared on 20th October, 1999) besides Dibru-Saikhowa National Park (9 km from BUS) located within 10 km. area as applicable.                                        | Not Applicable                                                                      |  |  |
| ii.       | Grant of environmental clearance does not necessarily imply that wildlife clearance shall be granted to the project. The proposal for wildlife clearance shall be considered by the respective authorities on their meritsand decision taken. The investment made in the project, if any, based on environmental clearance so granted, in anticipation of the clearance from wildlife angle shall be at the cost and risk of the project proponent and Ministry of Environmental & Forests shall not be responsible in this regard in any manner. | Point noted                                                                         |  |  |
| iii.      | Ambient air quality shall be monitored for PM10, SO2, NOx, and non-methane hydrocarbon (NMHC) asper the National Ambient Air Quality Emission Standards issued by the Ministry vide G.S.R No. 826(E) dated 16 <sup>th</sup> November 2009.                                                                                                                                                                                                                                                                                                        | Complied. Display of AAQM parametersis being done at site. Copy of report enclosed. |  |  |
| iv.       | The stacks of adequate height shall be provided to control emissions from all the sources including DG sets, steam generators etc. as per the regulatory requirements and emissions from stacks shall meet the MOEF/CPCB guidelines.                                                                                                                                                                                                                                                                                                              | Complied.                                                                           |  |  |

| Sl.<br>No. | EC Condition                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Compliance status/Remark                                                                     |
|------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|
| V.         | The company shall make the arrangement for control of noise from the DG sets and meet DG setnorms notified by the MoEF.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                              |
| vi.        | Total ground water requirement for OCS, STF, ITF and BUS shall not exceed 128 m3/day/well and prior permission shall be obtained from the Central Ground Water authority/state Ground Water Board (CGWA/SGWB). A copy of the permission shall be submitted to the Ministry's Regional Office at Shillong. Effluent Treatment Plant (ETP) shall be installed to control oil content and other parameters as per Assam Pollution Control board (APCB) and/or Environment (Protection) Act whichever is more stringent. Treated wastewater shall be passed through multi-media filters to remove solids and clarified water shall be collected into storage tubes before pumping to disposal wells. Oily waste water shall be treated in oil separator to remove oil content in the effluent. Domestic effluent shall be treated effluent shall be monitored regularly. | Complied.  Formation water of Bhogpara OCS is treated in ETP Tengakhat to desired standards. |
| vii.       | Tank bottom sludge from crude oil tanks of OCS shall be stored in secured covered impermeable concrete sludge pit located outside the proposed installation before safe disposal through approved/registered recyclers. Waste oil and used batteries shall be sold to authorized recyclers/re- processors. Secured land fill shall be as per the design approved by the CPCB and obtain authorization from the Assam SPCB. Copy of authorization shall be submitted to Ministry's Regional Office at Shillong.                                                                                                                                                                                                                                                                                                                                                       | Point noted. Shall be done when tank cleaning will be carried out.                           |
| viii.      | Total storage capacity of the tanks shall not exceed 40,000 KL after expansion. Capacity of the each of the storage tank shall not exceed 5,000 KL. Instead of fixed roof tanks, floating roof tanks shall be provided.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Complied.                                                                                    |
| ix.        | A comprehensive Oil Spill Contingency plan (OSCP) shall be prepared to handle all major, moderate and miner spill.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Complied during all the operation & maintenance activities.                                  |
| х.         | All the OCS shall have facilities for knocking outwater from the formation fluid. The Formation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Complied                                                                                     |

| Sl.<br>No. | EC Condition                                                                                                                                                                                                                                                                                                                                                            | Compliance status/Remark                                                                                                                          |
|------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|
|            | water from Electrostatic, Emulsion Treater (EET) shall be disposed to the disposal wells only after ensuring all the parameters within permissible limit of Assam PCB and / or prescribed under E(P) Act whichever is more stringent.                                                                                                                                   |                                                                                                                                                   |
| xi.        | Use of browser for the transportation of oil shall be stopped as soon as pipeline is installed.                                                                                                                                                                                                                                                                         | Complied                                                                                                                                          |
| xii.       | M/s OIL shall prepare a remediation plan (both bioremediation) where solid is contaminated due to spillage of oil in existing units and submit to MOEF.                                                                                                                                                                                                                 | In Situ & Ex-Situ Bioremediation plan is in place for any soil contamination.                                                                     |
| xiii.      | An immediate action shall be ensured to control and treat oil spill or oil sludge using suitable method. Remaining oil shall be remediated through bioremediation / Phyto-remediation etc. Therecyclable waste (oily sludge) and spent oil shall be disposed of to the authorized recyclers.                                                                            | Emergency Response Plan to mitigate oil spillage and its control is in place and bioremediation is carried out for remaining oil. Hence complied. |
| xiv.       | All the solid/hazardous waste including bottom sludge shall be handled as per the rules and guidelines under Manufacture, Storage and Import of Hazardous chemicals Rules, 1989 as amended in October, 1994 and January, 2000. All the oily sludge from ITF, STF, and BUS OCS shall be stored in secured land fill (SLF) as per CPCB guidelines.                        | Complied as per the Rules. Secured, covered, impermeable sludge storage facility is available.                                                    |
| xv.        | Handling and disposal of hazardous wastes shall be in accordance with the Hazardous Wastes (Management, Handling and Transboundary Movement) Rules, 2008. Authorization from the Assam SPCB shall be obtained for collections/treatment/storage/disposal of hazardous wastes.                                                                                           | Complied.                                                                                                                                         |
| xvi.       | The project authorities shall patrol and inspect the pipeline regularly for detection of faults as per OISD guidelines and continuous monitoring of pipeline operations by adopting non- destructive method (S) of testing. Pearson survey and continuous potentialsurvey shall be carried out a regular interval to ensure the adequacy of cathodic protection system. | Complied                                                                                                                                          |
| xvii.      | The project authorities shall install SCADA system for safe operation of pipeline and leak Detection Systems (LDS). Additional sectionalizing valves in the residential area and                                                                                                                                                                                        | SCADA system has been installed at the installation to monitor the leak for safe operation of pipeline. Hence complied.                           |

| Sl.<br>No. | EC Condition                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Compliance status/Remark                                                                                                  |
|------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------|
|            | sensitive installations shall be provided to prevent the spillage of the oil in the event of pipeline failure.  Intelligent pigging facility shall be provided for the entire pipeline system for internalcorrosion monitoring.                                                                                                                                                                                                                                                                                                                                       |                                                                                                                           |
| xviii.     | M/S OIL shall ensure smokeless flaring in case of ground flaring. The company shall take necessary measures to prevent fire hazards, containing oil spill and soil remediation as needed. At the place of ground flaring, the overhead flaring stack with knockout drums shall be installed to minimize gaseousemissions during operation. To prevent fire andexplosion at Oil and Gas facility, potential ignition sources shall be kept to a minimum and adequate separation distance between potential ignition sources and flammable materials shall be in place. | Complied. Complete combustion is ensured by adequate supply of air.                                                       |
| xix.       | The flare system shall be designed as per good oil field practices and oil industry Safety Directorate (OISD) guidelines.                                                                                                                                                                                                                                                                                                                                                                                                                                             | Complied.                                                                                                                 |
| XX.        | The firefighting facilities shall be designed as per OISD-117 guidelines. For fighting prolonged fires, the company shall firm up a plan for assured water supply from nearby ground water/surface water sources.                                                                                                                                                                                                                                                                                                                                                     | Complied.                                                                                                                 |
| xxi.       | Comprehensive Risk assessment and Consequence Analysis for all the activities regarding impact of the proposed project on the Secondary Tank Farm (STF), Oil Collecting Station (OCS), Intermediate Tank Farm (ITF), Browser Unloading station (BUS) and pipeline shall be carried out. Action plan to implement the recommendations shall be submitted to the ministry and proper implementation shall be ensured.                                                                                                                                                   | Risk analysis for the installation has been carried out internally and risk register is being maintained. Hence complied. |
| xxii.      | Occupational health surveillance of the workers shall be carried out as per the prevailing Acts and Rules.                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Hence complied.                                                                                                           |
| xxiii.     | The project proponent shall also comply with the environmental protection measures and safeguards recommended in the EIA/EMP report.                                                                                                                                                                                                                                                                                                                                                                                                                                  | -                                                                                                                         |
| xxiv.      | The surface facilities shall be installed as per applicable codes and standards, international practices and applicable local regulations.                                                                                                                                                                                                                                                                                                                                                                                                                            | Complied. All the surface facilities are installed as per applicable codes and standards, international practices and     |

| Sl.<br>No. | EC Condition                                                                                                                                                                                                                                                                                                                                           | Compliance status/Remark                                                   |
|------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------|
| NO.        |                                                                                                                                                                                                                                                                                                                                                        | applicable local regulations such as API ASTM, OISD, OMR, APCB & CPCB etc. |
| XXV.       | The design, material of construction, assembly, inspection, testing and safety aspects of operation and maintenance of pipeline and transporting the natural gas/oil shall be governed by ASME/ANSI B 31.8/B31.4 and OISD standard 141.                                                                                                                | 1                                                                          |
| xxvi.      | Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, crèche etc.  The housing may be in the form of temporary structures to be removed after the completion of the project. | Not Applicable                                                             |
| Genera     | l Condition                                                                                                                                                                                                                                                                                                                                            |                                                                            |
| SI<br>No.  | EC Condition                                                                                                                                                                                                                                                                                                                                           | Compliance status/Remark                                                   |
| i.         | The project authorities must strictly adhere to the stipulations made by the Assam State Pollution Control Board (ASPCB), State Government and any other statutory authority.                                                                                                                                                                          | Complied                                                                   |
| ii.        | No further expansion or modifications in the project shall be carried out without prior approval of the Ministry of environment & Forests. In case of deviations or alterations in the project proposal from                                                                                                                                           | Complied                                                                   |

Complied.

The project authorities must strictly comply with the

rules and regulations under Manufacture, Storage and Import of Hazardous chemicals Rules, 2000 as amended subsequently. Prior approvals from Chief Inspectorate of Factories, Chief Controller of Explosives, Fire safety Inspectorate etc. must be

obtained, wherever applicable.

iii.

| Sl.<br>No. | EC Condition                                                                                                                                                                                                                                                                                                                                                      | Compliance status/Remark         |
|------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|
| iv.        | The project authorities must strictly comply with the rules and regulation with regarding to handling and disposal of Hazardous Wastes (Management, Handling and Transboundary Movement) Rules, 2008 wherever applicable. Authorization from the State Pollution Control Board must be obtained for collections/treatment/storage/disposal of hazardous wastes.   | Complied                         |
| V.         | The overall noise levels in and around the plant area shall be kept well within the standards by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generations. The ambient noise levels shall conform to the standards prescribed under EPA Rules, 1989 viz. 75 dBA (daytime) and 70dBA (nighttime). | Complied.                        |
| vi.        | A separate Environment Management Cell equipped with full-fledged laboratory facilities must be set up to carry out the environmental management and monitoring functions.                                                                                                                                                                                        | Already exists centrally at S&E. |
| vii.       | The project authorities shall provide adequate funds both recurring and non- recurring to implement the conditions stipulated by the Ministry of Environment and Forests as well as the State Government along with the implementation schedule for all the conditions stipulated herein. The funds so provided shall not be diverted for any other purpose.      | Complied.                        |
| viii.      | The Regional Office of this Ministry/CentralPollution Control Board/ Assam State PollutionControl Board shall monitor the stipulated conditions. A six-monthly compliance report and the monitored data along with statistical interpretation shall be submitted to them regularly.                                                                               | Being complied.                  |
| ix.        | A copy of clearance letter shall be sent by the proponent to concern Panchayat, Zila Parishad / Municipal Corporation, Urban Local Body and local NGO, if any, from whom suggestions / representations, if any, were received while processing the proposal. The clearance letter shall also be put on the web site of the company by the proponent.              |                                  |

| Sl.<br>No. | EC Condition                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Compliance status/Remark                                                                                                                                                              |
|------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| x.         | The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the Regional Office of the MOEF, the respective Zonal Office of CPCB and the Assam SPCB. The Criteria pollutant levels namely; SPM, RSPM, SO2, NOx, HC (Methane & Nonmethane), VOCs (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the projects shall be monitored and displayed at a convenient location near the main gate of the company in the public domain. | Complied Compliance status including monitored data is regularly uploaded in company's website and sent to concerned government authorities. Monitored data isalso enclosed herewith. |
| xi.        | The Project proponent shall also submit six monthly reports on the status of the compliance of the stipulated environment conditions including results of monitored data (both in hard copies as well as by e-mail) to the Regional of MOEF, the respective Zonal Office of CPCB and the Assam SPCB. The Regional Office of this Ministry/ CPCB/ Assam SPCB shall monitor the stipulated conditions.                                                                                                                                                                                                                                                          | Complied Monitored data enclosed.                                                                                                                                                     |
| xii.       | The environment statement for each financial year ending 31st march in Form-V as is mandated to be submitted by the project proponent 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 conditions and shall also be sent to the respective Regional Offices of the MOEF by e-mail.                                                                                                                                                                                  | Complied                                                                                                                                                                              |
| xiii.      | 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 Assam SPCB and may also be seen at Website of the Ministry of Environment and Forest at http://envfor.nic.in. This shall be advertised within seven days from the date of issue of the clearance letter, at least in two local newspaper that are widely circulated in the region of which one shall be forwarded to the Regional Office.                                                                                                                                  | Complied Copy of newspaper advertisement forwarded with our Compliance Status Report submitted.                                                                                       |

| Sl.  | EC Condition                                                                                                                                                                                                                     | Compliance status/Remark                                                                        |
|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|
| No.  |                                                                                                                                                                                                                                  |                                                                                                 |
| xiv. | 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 commencing the land development work. | Complied Copy of newspaper advertisement forwarded with our Compliance Status Report submitted. |



## **Ambient Air Quality Monitoring Report**

| Name & Address of the Customer: |                                                 |                                     | Report No. :MSK/2024-25/01410       |                           |                     |               |              |
|---------------------------------|-------------------------------------------------|-------------------------------------|-------------------------------------|---------------------------|---------------------|---------------|--------------|
|                                 |                                                 |                                     |                                     | Report Date : 01.10.2024  |                     |               |              |
| "M/s OIL INDIA LIMITED",        |                                                 | Sample Description                  | : Ambient Air                       |                           |                     |               |              |
|                                 |                                                 |                                     | Sample Number : N                   | ASKGL/ED/202              | 4-25/09/01398       |               |              |
| Dullajan,                       | Duliajan, Dibrugarh, Assam-786602               |                                     |                                     | Sampling Location         | :OCS BHOGP          | ARA           |              |
|                                 |                                                 |                                     |                                     | Instrument ID : RD:       | S 202-DTF-2016/     | FPS 94-DTL-20 | 21           |
| Ref. No.:                       | :W.O. NO 8129283 of                             | Contract No. 6119                   | 277                                 | GPS Reading: N2           | 27°51′38″, E 95°42  | 2'53"         |              |
| Da                              | ate of Sampling                                 | Sample Re                           | ceived Date                         | Analysis St               | art Date            | Analysis C    | omplete Date |
|                                 | 13.09.2024                                      | 16.09                               | 9.2024                              | 16.09.2                   | 024                 | 23.0          | 9.2024       |
| Environ                         | nental Conditions Dur                           | ring Sampling &                     | Transport Conditi                   | ion:Temperature:3         | 36°C, Rain fall : 1 | NO            |              |
|                                 |                                                 |                                     | Analys                              | sis Result                |                     |               |              |
| SI. No.                         | Test Par                                        | ameter                              | M                                   | lethod                    | Unit                | Results       | CPCB Limit   |
| 1.                              | Particulate Matter ( F                          | PM <sub>10</sub> )                  | IS: 5182 (Part-2                    | 3)-2006                   | (μg/m3)             | 68.5          | 100          |
| 2.                              | Particulate Matter (                            | PM <sub>2.5</sub> )                 | IS: 5182 (Part-2                    | 4)                        | (µg/m3)             | 42.6          | 60           |
| 3                               | Sulphur Dioxide (SC                             | 02)                                 | IS: 5182 (Part-2                    | )-2001                    | (µg/m3)             | 7.3           | 80           |
| 4.                              | Nitrogen Dioxide (                              | Nitrogen Dioxide (NO <sub>2</sub> ) |                                     | IS: 5182 (Part-6)-2006    |                     | 21.5          | 80           |
| 5                               | Carbon Monoxide (                               | CO)                                 | IS 5182 : (Part-10) :1999           |                           | (mg/m3)             | 0.62          | 2            |
| 6,,                             | Ozone (O <sub>3</sub> )                         |                                     | IS:5182 (Part-IX<br>Reaffirmed-2019 | ,                         | (μg/m3)             | <20.0         | 180          |
| 7,:                             | Ammonia (NH <sub>3</sub> )                      |                                     | IS 5182 (Part 25)                   | ): 2018                   | (μg/m3)             | <10.0         | 400          |
| 8.                              | Lead (Pb)                                       |                                     | USEPA IO-3.4                        |                           | (µg/m3)             | <0.01         | 1            |
| 9.                              | Nickel (Ni)                                     |                                     | USEPA IO-3.4                        |                           | (ng/m3)             | <5.0          | 20           |
| 10.                             | Arsenic (As)                                    |                                     | USEPA IO-3.4                        |                           | (ng/m3)             | <1.0          | 6            |
| 11,                             | Benzene (C <sub>6</sub> H <sub>6</sub> )        |                                     | IS 5182 : (Part 1                   | 1) :2006                  | (µg/m3)             | <4.2          | 5            |
| 12.                             | Benzo(a)Pyrene ( Ba                             | P)                                  | IS 5182 : (Part 1:                  | IS 5182 : (Part 12) :2004 |                     | <0.5          | 1            |
| 13,                             | Mercury ( Hg )                                  |                                     | USEPA IO-5.0                        |                           | (µg/m3)             | <0.002        | i i i        |
| 14.                             | Methane (Hydrocarbon) IS 5182 :                 |                                     | IS 5182 : (Part 1                   | 7)                        | ppm                 | 1.96          |              |
| 15.                             | Non-methane (Hydrocarbon)                       |                                     | IS 5182 : (Part 17)                 |                           | ppm                 | <0.5          | 247          |
| 16.                             | Total Hydrocarbon IS 5182 : (Part 17            |                                     | 7)                                  | ppm                       | 1.96                | ***           |              |
|                                 | Volatile Organic Compounds (VOC) IS 5182 : (PAR |                                     |                                     |                           |                     |               |              |

**Analyzed By:** 

Pette

**Prepared By:** 

Authorized Signatory
ForMitra S.K. Private Limited

Signature

Designation.

Name

: Mr.Bhaskarjyoti Dutta

Signature Name Designation.

: HiramoniRajbongshi : Office Assistant Signature

Name Mr. Ravi Sankar Designation : Branch Manager

The results relate only to the item(s) tested.

: Chemist

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Our Lab is Approved by NABL & MOEF, Lab Address: P-48 Udayan Industrial Estate, 3 Pagladanga Road Kol-700015

Head Office: Shrachi Centre (5th floor), 74B, A.J.C. Bose Road, Kolkata - 700 016. West Bengal, India. Tel.: 91 33 40143000 / 22650006 / 22650007 Fax: 91 33 22650008
Email: info@mitrask.com. Website: www.mitrask.com

Approved by Uttam Prodhan



| Name & Address of the                                      | Customer                  | Report No.          | : MSK/2024-25/00869         |
|------------------------------------------------------------|---------------------------|---------------------|-----------------------------|
| "M/s OIL INDIA LIMITED"  Duliajan, Dibrugarh, Assam-786602 |                           | Report Date         | : 15.07.2024                |
|                                                            |                           | Nature of Sample    | : Stack Emission            |
|                                                            |                           | Sample Mark         | : OCS BHOGPARA              |
|                                                            |                           | Sample Number       | : MSKGL/ED/2024-25/07/01682 |
|                                                            |                           | Instrument ID       | : 135-H-19                  |
| Ref. No.:W.O. NO 8129283                                   | 3 of Contract No. 6119277 |                     |                             |
| Date of Sampling                                           | Sample Received Date      | Analysis Start Date | Analysis Complete Date      |
| 19.06.2024                                                 | 22.06.2024                | 22.06.2024          | 29.06.2024                  |

| ۹.          | General information about stack :                          | : CODP-1     |                      |                                                 |  |  |
|-------------|------------------------------------------------------------|--------------|----------------------|-------------------------------------------------|--|--|
| 1,,,        | Stack connected to                                         | : CRUDE TANK |                      |                                                 |  |  |
| 2.          | Emission due to                                            | ; NG         |                      |                                                 |  |  |
| 3.          | Material of construction of Stack                          | : MS         |                      |                                                 |  |  |
| ١.          | Shape of Stack                                             | Circular     |                      |                                                 |  |  |
| 5.          | Whether stack is provided with permanent platform & ladder | : Yes        |                      |                                                 |  |  |
| 3.          | DG capacity                                                | : 157 HP     |                      |                                                 |  |  |
| 3.          | Physical characteristics of stack :                        |              |                      |                                                 |  |  |
| <b>3</b> 45 | Height of the stack from ground level                      | : 2.4384 m   |                      |                                                 |  |  |
| ≥.          | Diameter of the stack at sampling point                    | : 0.1016 m   |                      |                                                 |  |  |
| 3.          | Area of Stack                                              | : 0.00810 m2 |                      |                                                 |  |  |
| C.          | Analysis/Characteristic of stack: 1. Fuel used: NG         |              | .,                   | X<br>P                                          |  |  |
| D.          | Result of sampling & analysis of gaseous emission          | Result       | Limit as<br>per CPCB | Method                                          |  |  |
| 1,:         | Temperature of emission (°C)                               | 153          |                      | USEPA Part 2, 25.09.1996                        |  |  |
| 2.          | Barometric Pressure (mm of Hg)                             | 762.0        | 8461                 | USEPA Part 2, 25.09.1996                        |  |  |
| 3.          | Velocity of gas (m/sec.)                                   | 19.77        | ***                  | USEPA Part 2, 25.09.1996                        |  |  |
| 4.          | Quantity of Gas Flow (Nm3/hr)                              | 401          | ****                 | USEPA Part 2, 25.09.1996                        |  |  |
| 5,          | Concentration of Oxygen (%v/v)                             | 13.8         | ***                  | IS:13270 :1992 Reaff, 2014                      |  |  |
| 6.          | Concentration of Carbon Monoxide (g/kW-hr)                 | 0.149        | ≤ 3.5                | IS:13270:1992 Reaff, 2014                       |  |  |
| 7.          | Concentration of Carbon Dioxide (%v/v)                     | 5.8          | ***                  | IS:13270:1992 Reaff, 2014                       |  |  |
| 8.          | Concentration of Sulphur Dioxide (mg/Nm3)                  | 22.1         | 699                  | USEPA-29, 25/06/1996                            |  |  |
| 9.          | Concentration of Nitrogen Oxide & Hydrocarbons (g/kW-hr)   | 0.235        | ≤ 4.7                | USEPA Part-7, 12/03/1996 & USEPA 18 -25.09.1996 |  |  |
| 10.         | Concentration of Lead (mg/Nm3)                             | < 0.005      |                      | USEPA-29, 25/06/1996                            |  |  |
|             | Concentration of Particulate matter (g/kW-hr)              | 0.094        | ≤ 0.3                | USEPA Part-17, 16/08/1996                       |  |  |

**Analyzed By:** 

Prepared By:

Authorized Signatory ForMitra S.K. Private Limited

Signature Name

Designation.

: Executive Chemist

: Mr. Dipankar Mazumdar

Signature Name Designation.

: Hiramoni Rajbongshi Office Assistant

Signature

Name

: Mr. Rajib Roy Designation : Branch Manager

The results relate only to the item(s) tested.

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Our Lab is Approved by NABL & MOEF, Lab Address : P-48 Udayan Industrial Estate, 3 Pagladanga Road Kol-700015

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Email: info@mitrask.com. Website: www.mitrask.com

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| Name & Address of the Customer                             |                           | Report No.          | : MSK/2024-25/00870         |
|------------------------------------------------------------|---------------------------|---------------------|-----------------------------|
| "M/s OIL INDIA LIMITED"  Duliajan, Dibrugarh, Assam-786602 |                           | Report Date         | : 15.07.2024                |
|                                                            |                           | Nature of Sample    | : Stack Emission            |
|                                                            |                           | Sample Mark         | : OCS BHOGPARA              |
|                                                            |                           | Sample Number       | : MSKGL/ED/2024-25/07/01683 |
|                                                            |                           | Instrument ID       | : 135-H-19                  |
| Ref. No.:W.O. NO 812928                                    | 3 of Contract No. 6119277 | ·                   |                             |
| Date of Sampling                                           | Sample Received Date      | Analysis Start Date | Analysis Complete Date      |
| 19.06.2024                                                 | 22.06.2024                | 22.06.2024          | 29.06.2024                  |

| Α.  | General information about stack :                          | : CODP-2     |                      |                                                 |  |
|-----|------------------------------------------------------------|--------------|----------------------|-------------------------------------------------|--|
| 1,, | Stack connected to                                         | : CRUDE TANK |                      |                                                 |  |
| 2.  | Emission due to                                            | : NG         |                      |                                                 |  |
| 3.  | Material of construction of Stack                          | : MS         |                      |                                                 |  |
| 4.  | Shape of Stack                                             | : Circular   |                      |                                                 |  |
| 5.  | Whether stack is provided with permanent platform & ladder | : Yes        |                      |                                                 |  |
| 6.  | DG capacity                                                | : 157 HP     |                      |                                                 |  |
| В.  | Physical characteristics of stack :                        |              |                      |                                                 |  |
| 1   | Height of the stack from ground level                      | : 2.4384 m   |                      |                                                 |  |
| 2.  | Diameter of the stack at sampling point                    | : 0.1016 m   |                      |                                                 |  |
| 3.  | Area of Stack                                              | : 0.00810 m2 |                      |                                                 |  |
| C.  | Analysis/Characteristic of stack: 1. Fuel used: NG         | ·            |                      | <u> </u>                                        |  |
| D.  | Result of sampling & analysis of gaseous emission          | Result       | Limit as<br>per CPCB | Method                                          |  |
| 1.0 | Temperature of emission (°C)                               | 144          |                      | USEPA Part 2, 25.09.1996                        |  |
| 2.  | Barometric Pressure (mm of Hg)                             | 762.0        |                      | USEPA Part 2, 25.09.1996                        |  |
| 3.  | Velocity of gas (m/sec.)                                   | 19.14        | ***                  | USEPA Part 2, 25.09.1996                        |  |
| 4,  | Quantity of Gas Flow (Nm3/hr)                              | 397          | 222U                 | USEPA Part 2, 25.09.1996                        |  |
| 5.  | Concentration of Oxygen (%v/v)                             | 13.8         |                      | IS:13270:1992 Reaff, 2014                       |  |
| 6.  | Concentration of Carbon Monoxide (g/kW-hr)                 | 0.151        | ≤ 3.5                | IS:13270:1992 Reaff, 2014                       |  |
| 7   | Concentration of Carbon Dioxide (%v/v)                     | 5.2          |                      | IS:13270:1992 Reaff, 2014                       |  |
| 8.  | Concentration of Sulphur Dioxide (mg/Nm3)                  | 22.4         | 8945                 | USEPA-29, 25/06/1996                            |  |
| 9.  | Concentration of Nitrogen Oxide & Hydrocarbons (g/kW-hr)   | 0.242        | ≤ 4.7                | USEPA Part-7, 12/03/1996 & USEPA 18 -25.09.1996 |  |
|     | Concentration of Lead (mg/Nm3)                             | < 0.005      | ###):                | USEPA-29, 25/06/1996                            |  |
| 10. | Concentration of Bead (mg/14m3)                            |              |                      |                                                 |  |

**Prepared By:** 

Designation.

**Authorized Signatory** ForMitra S.K. Private Limited

Signature

Designation.

**Analyzed By:** 

Name Mr. Dipankar Mazumdar

: Executive Chemist

Signature Name

: Hiramoni Rajbongshi : Office Assistant

Signature

Name : Mr Rajib Roy Designation: Branch Manager

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Approved by Uttam Prodhan



| Name & Address of the Customer |                                              | : MSK/2024-25/00871                                                                                                                    |
|--------------------------------|----------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------|
| "M/s OIL INDIA LIMITED"        |                                              | : 15.07.2024                                                                                                                           |
|                                |                                              | : Stack Emission                                                                                                                       |
| 186602                         | Sample Mark                                  | : OCS BHOGPARA                                                                                                                         |
| 00002                          | Sample Number                                | : MSKGL/ED/2024-25/07/01684                                                                                                            |
|                                | Instrument ID                                | : 135-H-19                                                                                                                             |
| of Contract No. 6119277        |                                              |                                                                                                                                        |
| Sample Received Date           | Analysis Start Date                          | Analysis Complete Date                                                                                                                 |
| 22.06.2024                     | 22.06.2024                                   | 29.06.2024                                                                                                                             |
| 7                              | of Contract No. 6119277 Sample Received Date | Report Date Nature of Sample Sample Mark Sample Number Instrument ID  of Contract No. 6119277 Sample Received Date Analysis Start Date |

| General information about stack :                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |
|----------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| Stack connected to                                       | : CODP-3<br>: CRUDE TANK                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |
| Emission due to                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |
|                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |
|                                                          | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |
|                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |
|                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |
|                                                          | : 157 HP                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |
|                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |
|                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |
|                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |
|                                                          | : 0.00810 m2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |
| Analysis/Characteristic of stack:  1. Fuel used : NG     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |
| Result of sampling & analysis of gaseous emission        | Result                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Limit as<br>per CPCB                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Method                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  |
| Temperature of emission (°C)                             | 158                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | USEPA Part 2, 25.09.1996                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |  |
|                                                          | 762.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | ·                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | USEPA Part 2, 25.09.1996                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |  |
|                                                          | 19.90                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | USEPA Part 2, 25.09.1996                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |  |
|                                                          | 399                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | USEPA Part 2, 25.09.1996                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |  |
| Concentration of Oxygen (%v/v)                           | 13.6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | IS:13270:1992 Reaff, 2014                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |
| Concentration of Carbon Monoxide (g/kW-hr)               | 0.153                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | ≤ 3.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | IS:13270:1992 Reaff, 2014                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |
| Concentration of Carbon Dioxide (%v/v)                   | 5.4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | IS:13270:1992 Reaff, 2014                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |
| Concentration of Sulphur Dioxide (mg/Nm3)                | 22.6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | ****                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | USEPA-29, 25/06/1996                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |
| Concentration of Nitrogen Oxide & Hydrocarbons (g/kW-hr) | 0.247                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | ≤ 4.7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | USEPA Part-7, 12/03/1996 & USEPA 18 -25.09.1996                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |
| Concentration of Lead (mg/Nm3)                           | < 0.005                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | ***                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | USEPA-29, 25/06/1996                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |
| Concentration of Particulate matter (g/kW-hr)            | 0.092                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | ≤ 0.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | USEPA Part-17, 16/08/1996                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |
|                                                          | Material of construction of Stack Shape of Stack Whether stack is provided with permanent platform & ladder DG capacity Physical characteristics of stack: Height of the stack from ground level Diameter of the stack at sampling point Area of Stack Analysis/Characteristic of stack:  1. Fuel used: NG Result of sampling & analysis of gaseous emission  Temperature of emission (°C) Barometric Pressure (mm of Hg) Velocity of gas (m/sec.) Quantity of Gas Flow (Nm3/hr) Concentration of Carbon Monoxide (g/kW-hr) Concentration of Sulphur Dioxide (mg/Nm3) Concentration of Nitrogen Oxide & Hydrocarbons g/kW-hr) Concentration of Lead (mg/Nm3) | Material of construction of Stack  Shape of Stack  Whether stack is provided with permanent platform & ladder  DG capacity  Physical characteristics of stack:  Height of the stack from ground level  Diameter of the stack at sampling point  Area of Stack  I. Fuel used: NG  Result of sampling & analysis of gaseous emission  Result  Temperature of emission (°C)  Barometric Pressure (mm of Hg)  Velocity of gas (m/sec.)  Quantity of Gas Flow (Nm3/hr)  Concentration of Oxygen (%v/v)  Concentration of Carbon Monoxide (g/kW-hr)  Concentration of Sulphur Dioxide (mg/Nm3)  Concentration of Nitrogen Oxide & Hydrocarbons g/kW-hr)  Concentration of Lead (mg/Nm3)  Concentration of Lead (mg/Nm3) Concentration of Lead (mg/Nm3) Concentration of Lead (mg/Nm3) Concentration of Lead (mg/Nm3) | Material of construction of Stack  Shape of Stack  Whether stack is provided with permanent platform & ladder  DG capacity  Physical characteristics of stack:  Height of the stack from ground level  Diameter of the stack at sampling point  Area of Stack  Analysis/Characteristic of stack:  1. Fuel used: NG  Result of sampling & analysis of gaseous emission  Result of sampling & analysis of gaseous emission  Result of sampling & analysis of gaseous emission  Quantity of Gas Flow (Nm3/hr)  Concentration of Oxygen (%v/v)  Concentration of Carbon Monoxide (g/kW-hr)  Concentration of Sulphur Dioxide (mg/Nm3)  Concentration of Nitrogen Oxide & Hydrocarbons g/kW-hr)  Concentration of Lead (mg/Nm3)  Concentration of Lead (mg/Nm3) |  |

**Analyzed By:** 

Prepared By:

Signature

Name Designation.

: Mr. Dipankar Mazumdar : Executive Chemist

Signature Name

Designation.

: Hiramoni Rajbongshi Office Assistant

**Authorized Signatory** ForMitra S.K. Private Limited

Signature

Name : Mr. Rajib Roy Designation : Branch Manager

The results relate only to the item(s) tested.

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> Approved by Uttam Prodhan



| Name & Address of the Customer                             |                           | Report No.          | : MSK/2024-25/00872         |
|------------------------------------------------------------|---------------------------|---------------------|-----------------------------|
| "M/s OIL INDIA LIMITED"  Duliajan, Dibrugarh, Assam-786602 |                           | Report Date         | : 15.07.2024                |
|                                                            |                           | Nature of Sample    | : Stack Emission            |
|                                                            |                           | Sample Mark         | : OCS BHOGPARA              |
|                                                            |                           | Sample Number       | : MSKGL/ED/2024-25/07/01685 |
|                                                            |                           | Instrument ID       | : 135-H-19                  |
| Ref. No.:W.O. NO 812928                                    | 3 of Contract No. 6119277 |                     |                             |
| Date of Sampling                                           | Sample Received Date      | Analysis Start Date | Analysis Complete Date      |
| 19.06.2024                                                 | 22.06.2024                | 22.06.2024          | 29.06.2024                  |

|     | ANALYSIS                                                                               | RESULT       |                      |                                                 |  |
|-----|----------------------------------------------------------------------------------------|--------------|----------------------|-------------------------------------------------|--|
| A.  | General information about stack :                                                      | : DRENCHI    | NG PUMP-1            |                                                 |  |
| 1.: | Stack connected to                                                                     | : WATER PU   | JMP                  |                                                 |  |
| 2.  | Emission due to                                                                        | : HSD        |                      |                                                 |  |
| 3.  | Material of construction of Stack                                                      | : MS         |                      |                                                 |  |
| 4.  | Shape of Stack                                                                         | : Circular   |                      |                                                 |  |
| 5.  | Whether stack is provided with permanent platform & ladder                             | : Yes        |                      |                                                 |  |
| 6.  | DG capacity                                                                            | : 310 HP     |                      |                                                 |  |
| В.  | Physical characteristics of stack :                                                    |              |                      |                                                 |  |
| 1   | Height of the stack from ground level                                                  | : 2.4384 m   |                      |                                                 |  |
| 2.  | Diameter of the stack at sampling point                                                | : 0.1016 m   |                      |                                                 |  |
| 3., | Area of Stack                                                                          | : 0.00810 m2 |                      |                                                 |  |
| C.  | Analysis/Characteristic of stack:  1. Fuel used: HSD                                   |              |                      |                                                 |  |
| D.  | Result of sampling & analysis of gaseous emission                                      | Result       | Limit as<br>per CPCB | Method                                          |  |
| 1.  | Temperature of emission (°C)                                                           | 135          |                      | USEPA Part 2, 25.09.1996                        |  |
| 2.  | Barometric Pressure (mm of Hg)                                                         | 762.0        | ***                  | USEPA Part 2, 25.09.1996                        |  |
| 3., | Velocity of gas (m/sec.)                                                               | 18.47        |                      | USEPA Part 2, 25.09.1996                        |  |
| 4.  | Quantity of Gas Flow (Nm3/hr)                                                          | 391          | ***                  | USEPA Part 2, 25.09.1996                        |  |
| 5.  | Concentration of Oxygen (%v/v)                                                         | 13.2         | (659                 | IS:13270 :1992 Reaff, 2014                      |  |
| 6.  | Concentration of Carbon Monoxide (g/kW-hr)                                             | 0.292        | ≤ 3.5                | IS:13270:1992 Reaff, 2014                       |  |
| 7   | Concentration of Carbon Dioxide (%v/v)                                                 | 5.6          |                      | IS:13270:1992 Reaff, 2014                       |  |
| 8.  | Concentration of Sulphur Dioxide (mg/Nm3)                                              | 23.2         | 2***                 | USEPA-29, 25/06/1996                            |  |
| 9.  | Concentration of Nitrogen Oxide & Hydrocarbons (g/kW-hr)                               | 0.296        | ≤ 4.7                | USEPA Part-7, 12/03/1996 & USEPA 18 -25.09.1996 |  |
| 10. | Concentration of Lead (mg/Nm3)                                                         | < 0.005      |                      | USEPA-29, 25/06/1996                            |  |
| 11. | Concentration of Particulate matter (g/kW-hr)                                          | 0.104        | ≤ 0.3                | USEPA Part-17, 16/08/1996                       |  |
| E.  | Pollution control device: Details of pollution control devices attached with the stack | : Nil        | <u>]</u>             | Remarks: Nil                                    |  |

**Analyzed By:** 

Prepared By:

Authorized Signatory
ForMitra S.K. Private Limited

Signature

Designation.

Name

: Mr. Dipankar Mazumdar

: Executive Chemist

Signature

Name Designation. : Hiramoni Rajbongshi

: Office Assistant

Signature

Name

Designation: Branch Manager

The results relate only to the item(s) tested.

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Head Office: Shrachi Centre (5th floor), 74B, A.J.C. Bose Road, Kolkata - 700 016. West Bengal, India. Tel.: 91 33 40143000 / 22650006 / 22650007 Fax: 91 33 22650008

Email: info@mitrask.com. Website: www.mitrask.com

Approved by Uttam Prodhan



| Name & Address of the Customer                             |                           | Report No.          | : MSK/2024-25/00873         |  |
|------------------------------------------------------------|---------------------------|---------------------|-----------------------------|--|
| "M/s OIL INDIA LIMITED"  Duliajan, Dibrugarh, Assam-786602 |                           | Report Date         | : 15.07.2024                |  |
|                                                            |                           | Nature of Sample    | : Stack Emission            |  |
|                                                            |                           | Sample Mark         | : OCS BHOGPARA              |  |
|                                                            |                           | Sample Number       | : MSKGL/ED/2024-25/07/01686 |  |
|                                                            |                           | Instrument ID       | : 135-H-19                  |  |
| Ref. No.: W.O. NO 8129283                                  | 3 of Contract No. 6119277 |                     | 1                           |  |
| Date of Sampling                                           | Sample Received Date      | Analysis Start Date | Analysis Complete Date      |  |
| 19.06.2024                                                 | 22.06.2024                | 22.06.2024          | 29.06.2024                  |  |

| A.                                     | General information about stack :                                                                                                                                                                                                                                                                      | : DRENCHI                                                    | NG PUMP-2         |                                                                                                                                                                                                                                                                                       |  |
|----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------|-------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| 1                                      | Stack connected to                                                                                                                                                                                                                                                                                     | : WATER PU                                                   | JMP               |                                                                                                                                                                                                                                                                                       |  |
| 2.                                     | Emission due to                                                                                                                                                                                                                                                                                        | : HSD                                                        |                   |                                                                                                                                                                                                                                                                                       |  |
| 3.                                     | Material of construction of Stack                                                                                                                                                                                                                                                                      | : MS                                                         |                   |                                                                                                                                                                                                                                                                                       |  |
| 1.                                     | Shape of Stack                                                                                                                                                                                                                                                                                         | : Circular                                                   |                   |                                                                                                                                                                                                                                                                                       |  |
| 5.                                     | Whether stack is provided with permanent platform & ladder                                                                                                                                                                                                                                             | : Yes                                                        |                   |                                                                                                                                                                                                                                                                                       |  |
| ŝ,                                     | DG capacity                                                                                                                                                                                                                                                                                            | : 310 HP                                                     |                   |                                                                                                                                                                                                                                                                                       |  |
| В.                                     | Physical characteristics of stack :                                                                                                                                                                                                                                                                    |                                                              |                   |                                                                                                                                                                                                                                                                                       |  |
| 1 <sub>×</sub>                         | Height of the stack from ground level                                                                                                                                                                                                                                                                  | : 2.4384 m                                                   |                   |                                                                                                                                                                                                                                                                                       |  |
| 2.                                     | Diameter of the stack at sampling point                                                                                                                                                                                                                                                                | 0.1016 m                                                     |                   |                                                                                                                                                                                                                                                                                       |  |
| 3.                                     | Area of Stack                                                                                                                                                                                                                                                                                          | : 0.00810 m2                                                 |                   |                                                                                                                                                                                                                                                                                       |  |
| C.                                     | Analysis/Characteristic of stack: 1. Fuel used: HSD                                                                                                                                                                                                                                                    |                                                              |                   | 10                                                                                                                                                                                                                                                                                    |  |
| D.                                     | Result of sampling & analysis of gaseous emission                                                                                                                                                                                                                                                      | Doguit                                                       | Limit as          | N.O 41 4                                                                                                                                                                                                                                                                              |  |
|                                        |                                                                                                                                                                                                                                                                                                        | Result                                                       | per CPCB          | Method                                                                                                                                                                                                                                                                                |  |
| 1,,                                    | Temperature of emission (°C)                                                                                                                                                                                                                                                                           | 128                                                          | per CPCB          | <b>Method</b> USEPA Part 2, 25.09.1996                                                                                                                                                                                                                                                |  |
| 1,                                     | Barometric Pressure (mm of Hg)                                                                                                                                                                                                                                                                         |                                                              | -                 |                                                                                                                                                                                                                                                                                       |  |
| 1,,                                    | Barometric Pressure (mm of Hg) Velocity of gas (m/sec.)                                                                                                                                                                                                                                                | 128                                                          | 344               | USEPA Part 2, 25.09.1996                                                                                                                                                                                                                                                              |  |
| 1,                                     | Barometric Pressure (mm of Hg) Velocity of gas (m/sec.) Quantity of Gas Flow (Nm3/hr)                                                                                                                                                                                                                  | 128<br>762.0                                                 | ***               | USEPA Part 2, 25.09.1996<br>USEPA Part 2, 25.09.1996                                                                                                                                                                                                                                  |  |
| 1.<br>2.<br>3.                         | Barometric Pressure (mm of Hg) Velocity of gas (m/sec.)                                                                                                                                                                                                                                                | 128<br>762.0<br>17.91                                        |                   | USEPA Part 2, 25.09.1996<br>USEPA Part 2, 25.09.1996<br>USEPA Part 2, 25.09.1996                                                                                                                                                                                                      |  |
| 1.<br>2.<br>3.<br>4.                   | Barometric Pressure (mm of Hg) Velocity of gas (m/sec.) Quantity of Gas Flow (Nm3/hr)                                                                                                                                                                                                                  | 128<br>762.0<br>17.91<br>386                                 | ***               | USEPA Part 2, 25.09.1996<br>USEPA Part 2, 25.09.1996<br>USEPA Part 2, 25.09.1996<br>USEPA Part 2, 25.09.1996                                                                                                                                                                          |  |
| 1,<br>2,<br>3,<br>4,                   | Barometric Pressure (mm of Hg)  Velocity of gas (m/sec.)  Quantity of Gas Flow (Nm3/hr)  Concentration of Oxygen (%v/v)                                                                                                                                                                                | 128<br>762.0<br>17.91<br>386<br>13.4                         |                   | USEPA Part 2, 25.09.1996<br>USEPA Part 2, 25.09.1996<br>USEPA Part 2, 25.09.1996<br>USEPA Part 2, 25.09.1996<br>USEPA Part 2, 25.09.1996<br>IS:13270:1992 Reaff, 2014                                                                                                                 |  |
| 1.<br>2.<br>3.<br>4.<br>5.             | Barometric Pressure (mm of Hg)  Velocity of gas (m/sec.)  Quantity of Gas Flow (Nm3/hr)  Concentration of Oxygen (%v/v)  Concentration of Carbon Monoxide (g/kW-hr)                                                                                                                                    | 128<br>762.0<br>17.91<br>386<br>13.4<br>0.287                | <br><br><br>≤ 3.5 | USEPA Part 2, 25.09.1996<br>USEPA Part 2, 25.09.1996<br>USEPA Part 2, 25.09.1996<br>USEPA Part 2, 25.09.1996<br>USEPA Part 2, 25.09.1996<br>IS:13270:1992 Reaff, 2014<br>IS:13270:1992 Reaff, 2014                                                                                    |  |
| 1.<br>2.<br>3.<br>4.<br>5.<br>6.       | Barometric Pressure (mm of Hg)  Velocity of gas (m/sec.)  Quantity of Gas Flow (Nm3/hr)  Concentration of Oxygen (%v/v)  Concentration of Carbon Monoxide (g/kW-hr)  Concentration of Carbon Dioxide (%v/v)                                                                                            | 128<br>762.0<br>17.91<br>386<br>13.4<br>0.287<br>5.2         | <br><br><br>≤ 3.5 | USEPA Part 2, 25.09.1996<br>USEPA Part 2, 25.09.1996<br>USEPA Part 2, 25.09.1996<br>USEPA Part 2, 25.09.1996<br>USEPA Part 2, 25.09.1996<br>IS:13270:1992 Reaff, 2014<br>IS:13270:1992 Reaff, 2014<br>IS:13270:1992 Reaff, 2014                                                       |  |
| 1,<br>2,<br>3,<br>4,<br>5,<br>6,<br>7, | Barometric Pressure (mm of Hg)  Velocity of gas (m/sec.)  Quantity of Gas Flow (Nm3/hr)  Concentration of Oxygen (%v/v)  Concentration of Carbon Monoxide (g/kW-hr)  Concentration of Carbon Dioxide (%v/v)  Concentration of Sulphur Dioxide (mg/Nm3)  Concentration of Nitrogen Oxide & Hydrocarbons | 128<br>762.0<br>17.91<br>386<br>13.4<br>0.287<br>5.2<br>23.5 | <br><br><br>≤ 3.5 | USEPA Part 2, 25.09.1996<br>USEPA Part 2, 25.09.1996<br>USEPA Part 2, 25.09.1996<br>USEPA Part 2, 25.09.1996<br>USEPA Part 2, 25.09.1996<br>IS:13270:1992 Reaff, 2014<br>IS:13270:1992 Reaff, 2014<br>IS:13270:1992 Reaff, 2014<br>USEPA-29, 25/06/1996<br>USEPA Part-7, 12/03/1996 & |  |

**Analyzed By:** 

Signature

Name Designation. : Mr. Dipankar Mazumdar

: Executive Chemist

Prepared By:

Signature

Name Designation. : Hiramoni Rajbongshi : Office Assistant

Authorized Signatory ForMitra S.K. Private Limited

Signature

Name

Designation: Branch Manager

The results relate only to the item(s) tested.

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> Approved by Uttam Prodhan



| Name & Address of the Customer                             |                           | Report No.          | : MSK/2024-25/00874         |
|------------------------------------------------------------|---------------------------|---------------------|-----------------------------|
| "M/s OIL INDIA LIMITED"  Duliajan, Dibrugarh, Assam-786602 |                           | Report Date         | : 15.07.2024                |
|                                                            |                           | Nature of Sample    | : Stack Emission            |
|                                                            |                           | Sample Mark         | : OCS BHOGPARA              |
|                                                            |                           | Sample Number       | : MSKGL/ED/2024-25/07/01687 |
|                                                            |                           | Instrument ID       | : 135-H-19                  |
| Ref. No.:W.O. NO 812928                                    | 3 of Contract No. 6119277 |                     | 71                          |
| Date of Sampling                                           | Sample Received Date      | Analysis Start Date | Analysis Complete Date      |
| 19.06.2024 22.06.2024                                      |                           | 22.06.2024          | 29.06.2024                  |

|     | ANALYSIS                                                   | RESULT       |                      |                                                 |
|-----|------------------------------------------------------------|--------------|----------------------|-------------------------------------------------|
| Α.  | General information about stack :                          | : GENSET-1   |                      |                                                 |
| 1,  | Stack connected to                                         | :            |                      |                                                 |
| 2.  | Emission due to                                            | : NG         |                      |                                                 |
| 3.  | Material of construction of Stack                          | : MS         |                      |                                                 |
| 4.  | Shape of Stack                                             | : Circular   |                      |                                                 |
| 5.  | Whether stack is provided with permanent platform & ladder | : Yes        |                      |                                                 |
| 6.  | DG capacity                                                | : 250 KVA    |                      |                                                 |
| B.  | Physical characteristics of stack :                        |              |                      |                                                 |
| 1:  | Height of the stack from ground level                      | : 2.4384 m   |                      |                                                 |
| 2.  | Diameter of the stack at sampling point                    | : 0.1016 m   |                      |                                                 |
| 3.  | Area of Stack                                              | : 0.00810 m2 |                      |                                                 |
| C.  | Analysis/Characteristic of stack:  1. Fuel used: NG        |              |                      |                                                 |
| D.  | Result of sampling & analysis of gaseous emission          | Result       | Limit as<br>per CPCB | Method                                          |
| 1   | Temperature of emission (°C)                               | 124          |                      | USEPA Part 2, 25.09.1996                        |
| 2.  | Barometric Pressure (mm of Hg)                             | 762.0        |                      | USEPA Part 2, 25.09,1996                        |
| 3.  | Velocity of gas (m/sec.)                                   | 17.37        |                      | USEPA Part 2, 25.09.1996                        |
| 4.  | Quantity of Gas Flow (Nm3/hr)                              | 378          |                      | USEPA Part 2, 25.09.1996                        |
| 5.  | Concentration of Oxygen (%v/v)                             | 13.6         |                      | IS:13270:1992 Reaff, 2014                       |
|     | Concentration of Carbon Monoxide (g/kW-hr)                 | 0.248        | ≤ 3.5                | IS:13270:1992 Reaff, 2014                       |
| 7   | Concentration of Carbon Dioxide (%v/v)                     | 5.6          |                      | IS:13270:1992 Reaff, 2014                       |
| 8.  | Concentration of Sulphur Dioxide (mg/Nm3)                  | 22.8         |                      | USEPA-29, 25/06/1996                            |
| 9.  | Concentration of Nitrogen Oxide & Hydrocarbons (g/kW-hr)   | 0.253        | ≤ 4.7                | USEPA Part-7, 12/03/1996 & USEPA 18 -25.09.1996 |
|     | Concentration of Lead (mg/Nm3)                             | < 0.005      |                      | USEPA-29, 25/06/1996                            |
| 11. | Concentration of Particulate matter (g/kW-hr)              | 0.097        | ≤ 0.3                | USEPA Part-17, 16/08/1996                       |

Analyzed By:

Prepared By:

Signature

Name Designation. : Mr. Dipankar Mazumdar

: Executive Chemist

Signature

Name

: Hiramoni Rajbongshi

Designation.

Office Assistant

**Authorized Signatory** 

ForMitra S.K. Private Limited

Signature

Name

Mr. Ralib Roy Designation: Branch Manager

The results relate only to the item(s) tested.

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Email: info@mitrask.com. Website: www.mitrask.com

Approved by Uttam Prodhan



| Name & Address of the                                      | Customer                | Report No.          | : MSK/2024-25/00875         |  |  |
|------------------------------------------------------------|-------------------------|---------------------|-----------------------------|--|--|
| "M/s OIL INDIA LIMITED"  Duliajan, Dibrugarh, Assam-786602 |                         | Report Date         | : 15.07.2024                |  |  |
|                                                            |                         | Nature of Sample    | : Stack Emission            |  |  |
|                                                            |                         | Sample Mark         | : OCS BHOGPARA              |  |  |
|                                                            |                         | Sample Number       | : MSKGL/ED/2024-25/07/01688 |  |  |
|                                                            |                         | Instrument ID       | : 135-H-19                  |  |  |
| Ref. No.: W.O. NO 8129283                                  | of Contract No. 6119277 |                     |                             |  |  |
| Date of Sampling Sample Received Date                      |                         | Analysis Start Date | Analysis Complete Date      |  |  |
| 19.06.2024 22.06.2024                                      |                         | 22.06.2024          | 29.06.2024                  |  |  |

| General information about stack: Stack connected to Emission due to Material of construction of Stack Shape of Stack Whether stack is provided with permanent platform & ladder DG capacity Physical characteristics of stack: | : GENSET-2 : NG : MS : Circular : Yes : 250 KVA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                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----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|
| Emission due to Material of construction of Stack Shape of Stack Whether stack is provided with permanent platform & ladder DG capacity                                                                                        | : MS<br>: Circular<br>: Yes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    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                                                                                                                                                                                                                                                                                                                                                                                                                                               |  |  |
| Material of construction of Stack Shape of Stack Whether stack is provided with permanent platform & ladder DG capacity                                                                                                        | : MS<br>: Circular<br>: Yes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           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| Shape of Stack Whether stack is provided with permanent platform & ladder DG capacity                                                                                                                                          | : Circular<br>: Yes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   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                                                                                                                                                                                                                                                                                                                                                                                                                                               |  |  |
| Whether stack is provided with permanent platform & ladder DG capacity                                                                                                                                                         | : Yes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 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| DG capacity                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       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| DG capacity                                                                                                                                                                                                                    | : 250 KVA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             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                                                                                                                                                                                                                                                                                                                                                                                                                                               |  |  |
| Physical characteristics of stack :                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       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                                                                                                                                                                                                                                                                                                                                                                                                                                               |  |  |
| Height of the stack from ground level                                                                                                                                                                                          | : 2.4384 m                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     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                                                                                                                                                                                                                                                                                                                                                                                                                                               |  |  |
| Diameter of the stack at sampling point                                                                                                                                                                                        | : 0.1016 m                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     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                                                                                                                                                                                                                                                                                                                                                                                                                                               |  |  |
| Area of Stack                                                                                                                                                                                                                  | : 0.00810 m2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          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                                                                                                                                                                                                                                                                                                                                                                                                                                               |  |  |
| Analysis/Characteristic of stack:  1. Fuel used : NG                                                                                                                                                                           | 11                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            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                                                                                                                                                                                                                                                                                                                                                                                                       |  |  |
| Result of sampling & analysis of gaseous emission                                                                                                                                                                              | Result                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Limit as                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Method                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |  |
| Cemperature of emission (°C)                                                                                                                                                                                                   | 127                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            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                                                                                                                                                                                                                                                                                                                               | USEPA Part 2, 25.09.1996                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  |  |
| Barometric Pressure (mm of Hg)                                                                                                                                                                                                 | 762.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 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                                                                                                                                                                                                                                                                                                                               | USEPA Part 2, 25.09.1996                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  |  |
| /elocity of gas (m/sec.)                                                                                                                                                                                                       | 17.85                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          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                                                                                                                                                                                                                                                                                                                               | USEPA Part 2, 25.09.1996                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  |  |
| Quantity of Gas Flow (Nm3/hr)                                                                                                                                                                                                  | 386                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            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                                                                                                                                                                                                                                                                                                                                                                                                                                               |  |  |
| Concentration of Oxygen (%v/v)                                                                                                                                                                                                 | 13.4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           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                                                                                                                                                                                                                                                                                                                               | IS:13270:1992 Reaff, 2014                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  |  |
| Concentration of Carbon Monoxide (g/kW-hr)                                                                                                                                                                                     | 0.239                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | ≤ 3.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | IS:13270:1992 Reaff, 2014                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  |  |
| Concentration of Carbon Dioxide (%v/v)                                                                                                                                                                                         | 5.6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            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                                                                                                                                                                                                                                                                                                                               | IS:13270:1992 Reaff, 2014                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  |  |
| Concentration of Sulphur Dioxide (mg/Nm3)                                                                                                                                                                                      | 22.7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           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                                                                                                                                                                                                                                                                                                                               | USEPA-29, 25/06/1996                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |  |  |
| Concentration of Nitrogen Oxide & Hydrocarbons g/kW-hr)                                                                                                                                                                        | 0.257                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | ≤ 4.7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | USEPA Part-7, 12/03/1996 & USEPA 18 -25.09.1996                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |  |
| Concentration of Lead (mg/Nm3)                                                                                                                                                                                                 | < 0.005                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        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                                                                                                                                                                                                                                                                                                                               | USEPA-29, 25/06/1996                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |  |  |
| Concentration of Particulate matter (g/kW-hr)                                                                                                                                                                                  | 0.099                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | ≤ 0.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | USEPA Part-17, 16/08/1996                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  |  |
| 3                                                                                                                                                                                                                              | Area of Stack  Analysis/Characteristic of stack:  1. Fuel used: NG  Result of sampling & analysis of gaseous emission  Cemperature of emission (°C)  For arometric Pressure (mm of Hg)  Celocity of gas (m/sec.)  For analysis of gaseous emission  Cemperature of emission (°C)  For arometric Pressure (mm of Hg)  Celocity of gas (m/sec.)  For analysis of gaseous emission  Cemperature of emission (°C)  For analysis of gaseous emission  Cemperature of emission (°C)  For analysis of gaseous emission  Cemperature of emission (°C)  For analysis of gaseous emission  Cemperature of emission (°C)  For analysis of gaseous emission  Cemperature of emission (°C)  For analysis of gaseous emission  Cemperature of emission (°C)  For analysis of gaseous emission  Cemperature of emission (°C)  For analysis of gaseous emission  Cemperature of emission  Cemp | Area of Stack  Analysis/Characteristic of stack:  1. Fuel used: NG  Result of sampling & analysis of gaseous emission  Result  Temperature of emission (°C)  Tarometric Pressure (mm of Hg)  Telocity of gas (m/sec.)  Telocity of Gas Flow (Nm3/hr)  Temperature of Carbon Monoxide (g/kW-hr)  Temperature of emission (°C)  Total Concentration of Oxygen (%v/v)  Total Concentration of Oxygen (%v/v)  Total Concentration of Carbon Dioxide (mg/Nm3)  Temperature of emission (°C)  Temperature of emission (°C)  Temperature of emission (°C)  Total Concentration of Gas Flow (Nm3/hr)  Total Concentration of Oxygen (%v/v)  Total Carbon Dioxide (mg/Nm3)  Temperature of emission (°C)  Temperature of emission  Temperature of emission | Area of Stack  Analysis/Characteristic of stack:  1. Fuel used : NG  Result of sampling & analysis of gaseous emission  Femperature of emission (°C)  Farometric Pressure (mm of Hg)  Felocity of gas (m/sec.)  Foncentration of Oxygen (%v/v)  Foncentration of Carbon Monoxide (g/kW-hr)  Foncentration of Sulphur Dioxide (mg/Nm3)  Foncentration of Nitrogen Oxide & Hydrocarbons  Foncentration of Lead (mg/Nm3)  Foncentration of Particulate matter (g/kW-hr)  Foncentration of Particulate matter (g/kW-hr) |  |  |

Analyzed By:

Prepared By:

Signature Name

Designation.

Executive Chemist

: Mr. Dipankar Mazumdar

Signature Name

Designation.

Hiramoni Rajbongshi : Office Assistant

**Authorized Signatory** ForMitra S.K. Private Limited

Signature

Name Designation: Branch Manager

The results relate only to the item(s) tested.

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Our Lab is Approved by NABL & MOEF, Lab Address : P-48 Udayan Industrial Estate, 3 Pagladanga Road Kol-700015

Head Office: Shrachi Centre (5th floor), 74B, A.J.C. Bose Road, Kolkata - 700 016. West Bengal, India. Tel.: 91 33 40143000 / 22650006 / 22650007 Fax: 91 33 22650008 Email: info@mitrask.com. Website: www.mitrask.com

> Approved by Uttam Prodhan



# ऑयल इंडिया लिमिटेड Oil India Limited

**Chemical Laboratory** 

(An ISO 9001:2015 Certified Laboratory)

Duliajan, Dibrugarh, 786602, Assam Email-chemical@oilindia.in

## For internal use only

Ref. no.: Chem/Ana/MTW/978/DJN/24

Date: 13.06.2024

Asset Manager-Central Asset

Attn.: A J Bhuyan, Senior Engineer (P-C)

# Sub: MONITORING TUBE WELL WATER ANALYSIS REPORT

Your memo reference is CA/MTW/11/06, dated:- 11.06.2024 Reference above, please find the test results of Monitoring Tube Well water samples forwarded to us from your end for laboratory testing.

| Chamatair                          |      | Acceptable limit<br>as per Bureau of<br>Indian Standards | MTV              | V Nearer    | to WDW      | Test and 1/ |                 |                                             |
|------------------------------------|------|----------------------------------------------------------|------------------|-------------|-------------|-------------|-----------------|---------------------------------------------|
| Characteristics                    | Unit | for drinking water<br>(IS:10500:2012)<br>Second revision | WDW#<br>118 &119 | WDW#<br>146 | WDW#<br>147 | WDW#<br>148 | WDW#<br>151 &15 | Test method/ Instrument used                |
| Appearance                         | -    | -                                                        | Clear            | Clear       | Clear       | Turbid      | Turbid          | Visual                                      |
| рН                                 | -    | 6.5 to 8.5                                               | 6.6              | 6.5         | 6.5         | 6.6         | 6.6             | BIS 3025-11 / Metrohm pH<br>meter           |
| Chloride (as CI)                   | mg/l | 250.0 (max.)                                             | 6                | 11          | 12          | 73          | 12              | BIS 3025-32 / Titration with silver nitrate |
| Alkalinity (as CaCO <sub>3</sub> ) | mg/l | 200 (max.)                                               | 50               | 65          | 50          | 160         | 100             | BIS 3025-23 / Titration with HCl            |
| Total dissolved solids             | mg/l | 500 (max.)                                               | 46               | 61          | 65          | 269         | 103             | BIS 3025-16 / Hach water checker            |
| Mineral Oil                        | mg/l | 0.5(max.)                                                | Nil              | Nil         | Nil         | Nil         | Nil             | BIS 3025-39 / Horiba oil content analyser   |

Sample details:

The monitoring tube well water samples were collected from the tube wells nearer to the above mentioned WDW wells of Bhogpara OCS on 11.06.2024 and received at Analytical & Environmental laboratory on 11.06.2024.

Tested by: SB/BD

Surajit Bora

Chief Chemist (Lab)

For GM-Chemical (HoD)

Copy: Analytical & Environmental sec. file.

ChemLab/Ana/Report/Water/02A





## ऑपल इंडिया सिमिटेड Oil India Limited Chemical Laboratory

(An ISO 9601, 2015 Carr yled Laboratory)

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Dullajan, Dibrugarli, 786602, Assam

Email- chemical@oilindia.in

### For internal use only

Ref. no.: Chem/Ana/MTW/799/DJN/24

Date: 18.05,2024

Asset Manager-Central Asset

Attn.: Harkhani Utsav Nileshbhai, Senior Engineer (P-C)

## Sub: MONITORING TUBE WELL WATER ANALYSIS REPORT

Your memo reference is BPR/Chem Lab/ΓW/2024/05, dated:- 16.05.2024

Reference above, please find the test results of Monitoring Tube Well water samples forwarded to us from your end for laboratory testing.

|                                    | The second secon | Acceptable limit as per Bureau of Indian Standards | MTW Nearer to WDW (Bhogpara OCS)                         |             |                   |                  |             | Test method/                                |                 |
|------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------|----------------------------------------------------------|-------------|-------------------|------------------|-------------|---------------------------------------------|-----------------|
| Characteristics                    | Unit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Unit                                               | for drinking water<br>(IS:10500:2012)<br>Second revision | WDW#<br>[48 | WDV/#<br>1 51 &15 | WDW#<br>118 &119 | WDW#<br>146 | WD <b>W</b> # 147                           | Instrument used |
| Appearance                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | ***************************************            | Turbid                                                   | Clear       | Turbid            | Turbid           | Clear       | Visual                                      |                 |
| рН                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 6.5 to 8.5                                         | 6.7                                                      | 6.5         | 6.5               | 6.5              | 6.9         | BIS 3025-11 / Merch n pH                    |                 |
| Chloride (as Cl')                  | mg/l                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 250.0 (max.)                                       | 85                                                       | 11          | 4                 | 12               | 5           | BIS 3025-32 / Titration with silver nitrate |                 |
| Alkalinity (as CaCO <sub>3</sub> ) | mg/l                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 200 (max.)                                         | 150                                                      | 60          | 40                | 70               | 60          | BIS 3025-23 / Titration with<br>HCl         |                 |
| Total dissolved solids             | mg/l                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 500 (max.)                                         | 281                                                      | 64          | 43                | 73               | 59          | BE 302: -16 / Hach water checker            |                 |
| Mineral Oil                        | mg/l                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 0.5(max.)                                          | Nil                                                      | Nil         | Nil               | Nil              | Nil         | BIS 302 -39 / Horiba oil                    |                 |

#### Sample details :-

The monitoring tube well water samples were collected from the tube wells nearer to the above mentioned WDW wells of Bhogpara OCS on 16.05.2024 and received at Analytical & Environmental laboratory on 16.05.2024.

Tested by: SB/BD

Surajit Bora

Chief Chemist (Lab)

For GM-Chemical (HoD)

Copy: Analytical & Environmental sec. file.

ChemLab/Ana/Report/Water/02A



# ऑयल इंडिया लिमिटेड Oil India Limited

Chemical Laboratory...

(An ISO 9001:2015 Certified Laboratory)

Duliajan, Dibrugarh, 786602, Assam Email- chemical@oilindia.in

### For internal use only

Ref.No.: Chem/Ana/FW/1177/DJN/24

Date: 11.07.2024

Asset Manager - Central Asset

Attn.: A J Bhuyan, Senior Engineer (P-C)

# Sub: FORMATION WATER ANALYSIS REPORT OF BHOGPARA OCS

Your memo reference is CA/BGP/ETFW/09/07, dated:- 09.07.2024

Reference above, please find below the test results of the formation water samples from Bhogpara OCS forwarded to us from your end for laboratory testing:

| Cl                              |      | Bhogpa             | ra OCS         |                                             |  |  |
|---------------------------------|------|--------------------|----------------|---------------------------------------------|--|--|
| Characteristics                 | Unit | ET water<br>Outlet | FWDP<br>Outlet | Test method/Instrument used                 |  |  |
| Appearance                      | -    | Turbid             | Turbid         | Visual                                      |  |  |
| рН                              | -    | 7.6                | 7.6            | BIS 3025-11 / Metrohm pH meter              |  |  |
| Salinity as NaCl                | mg/l | 3300               | 3300           | BIS 3025-32 / Titration with silver nitrate |  |  |
| Carbonate as CO <sub>3</sub>    | mg/l | Nil                | Nil            | BIS 3025-23 / Titration with HCl            |  |  |
| Bicarbonate as HCO <sub>3</sub> | mg/l | 427                | 427            | BIS 3025-23 / Titration with HCl            |  |  |
| Total dissolved solid           | mg/l | 3450               | 3460           | BIS 3025-16 / Gravimetric method            |  |  |
| Suspended solid                 | mg/l | 544                | 828            | BIS 3025-17 / Gravimetric method            |  |  |
| Oil and grease                  | mg/l | 2.7                | 2.2            | BIS 3025-39 / Horiba oil content analyser   |  |  |
| Lithium as Li <sup>+</sup>      | mg/l | 0.84               | 0.82           | BIS 3025-45 / Flame Photometer              |  |  |

### Sample details :-

The formation water samples were collected from the above mentioned sources of Bhogpara OCS on 09.07.2024 and received at Analytical & Environmental Laboratory on 09.07.2024.

Tested by: BD

Surajit Bora

Chief Chemist (Lab)

For GM - Chemical (HoD)

Copy: Analytical & Environmental sec. file.

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