

संदर्भ सं./Ref. No.: S&E/E/43C-1/1243

दिनांक/Date: 30.11.2024

|                |   |                                                                                                                                                                                                                                             |
|----------------|---|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>From</b>    | : | Executive Director (HSE & ESG) - Officiating                                                                                                                                                                                                |
| <b>To</b>      | : | Deputy Director General of Forests (Central),<br>Sub Office, Guwahati (under Regional Office, Shillong),<br>4th Floor, Housefed Building, Rukminigaon,<br>Guwahati-781022.<br>(Email : iro.guwahati-mefcc@gov.in, iro.moefcc.ghy@gmail.com) |
| <b>Subject</b> | : | 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:

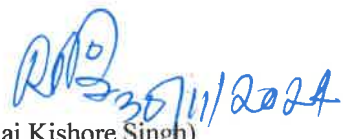
| S.No | EC Identification No/File No.                       | Name of the EC proposal                                                                                                                                                      |
|------|-----------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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, Higrizan 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 –                                                |

|     |                                                                            |                                                                                                                                                                                                                                         |
|-----|----------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|     |                                                                            | Dhola area under Tinsukia district, Assam.                                                                                                                                                                                              |
| 9.  | F. No. J-11011/35/2018-IA II (I)<br>dated 26.02.2021                       | Onshore Oil & Gas development drilling and 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 District: Dibrugarh, Assam |
| 10. | F. No. J-11011/186/2016-IA II (I)<br>dated 03.03.2021                      | Onshore Oil & Gas development drilling and production in Borhat-Titlagarh area, Dibrugarh, Sibsagar and Charaideo Districts under Sapkaint, Borhat, Moran Extension and Doomdooma PMLs.                                                 |
| 11. | EC22A002AS110311<br>F. No. J-11011/156/2017-IA II (I)<br>dated 28.11.2022  | Oil & Gas development drilling and production (16 exploratory, 73 developmental drilling wells and 9 Production Installations) in Moran Area under Dibrugarh, Sibsagar and Charaideo districts, Assam.                                  |
| 12. | EC23A002AS125690<br>F. No. J-11011/1254/2007-IA II (I)<br>dated 13.01.2023 | Oil & Gas development drilling and production (68 developmental drilling wells and 9 Production Installations) in Khowang Shalmari Area under Dibrugarh, Sibsagar districts, Assam.                                                     |
| 13. | EC23A002AS188131<br>F.No J-11011/1257/2007- IA II (I)<br>dated 17.04.2023  | Onshore Oil & Gas development drilling and production (167 wells and 7 production Installations) in Tengakhat-Kathaloni-Dikom (TKD) under Dibrugarh district, Assam.                                                                    |
| 14. | EC23A002AS198872<br>F. No. J-11011/388/2016-IA II (I)<br>dated 31.07.2023  | Onshore Oil & Gas development drilling (67 wells) in Jorajan Area under Dibrugarh, Charaideo and Tinsukia districts, Assam.                                                                                                             |
| 15. | EC23A002AS146942<br>F.No. J-11011/546/2017-IA(I)<br>dated 20.09.2023       | Onshore Oil & Gas development drilling and production (294 wells and 2 Production 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)  
ED (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](mailto: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.

- **Name of the Project:** Onshore Oil & Gas development drilling and production (294 wells and 2 Production Installations) in Naharkatiya-Deohal-Bogapani-Nagajan (NDBN) area under Dibrugarh & Tinsukia districts, Assam.
- **EC Identification No., File No and date:** EC23A002AS146942, F.No. J-11011/546/2017-IA(I) dated 20.09.2023
- **Period of Compliance Report:** April 2024 to September 2024.

**Specific Conditions:**

| S. No. | CONDITION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | COMPLIANCE STATUS                                                                                                                                                                                               |
|--------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| I.     | The company shall comply with all the environmental protection measures and safeguards proposed in the documents submitted to the Ministry. All the recommendations made in the EIA/EMP in respect of environmental management, and risk mitigation measures relating to the project shall be implemented (Annexure – I).                                                                                                                                                                                                                                                                                            | <b>Being Complied</b>                                                                                                                                                                                           |
| II.    | The environmental clearance is subject to obtaining prior clearance from the wildlife angle, including clearance from the Standing Committee of the National Board for Wildlife as per the Ministry's OM dated 8 <sup>th</sup> August, 2019 and 16 <sup>th</sup> July, 2020. Grant of environmental clearance does not necessarily imply that Wildlife Clearance shall be granted to the project and that their proposal for Wildlife Clearance will be considered by the respective authorities on its merit and decision taken. PP shall also strictly follow the conditions mentioned in existing NBWL clearance. | <b>Complied</b><br>No drilling activity is carried out within the deemed ESZ of Protected Area.                                                                                                                 |
| III.   | The project proponent shall prepare a Site-Specific Conservation Plan / Wildlife Management Plan and approved by the Chief Wildlife Warden. The recommendations of the approved Site-Specific Conservation Plan / Wildlife Management Plan shall be implemented in consultation with the State Forest Department. The implementation report shall be furnished along with the six-monthly compliance report. (in case of the presence of schedule-I species in the study area).                                                                                                                                      | <b>Complied</b><br>OIL has submitted Site- Specific wildlife conservation plan and wildlife management plan to Chief WildLife Warden, Assam for approval. Copy of the same is enclosed as <b>Annexure – I</b> . |
| IV.    | PP shall conduct third party audit of compliance of EC condition at an interval one year and its report shall be submitted to IRO, MoEF&CC.                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | <b>Will be complied</b><br>Third party audit of compliance of EC condition will be carried out.                                                                                                                 |
| V.     | Implementation of Action Plan on the issues raised during the Public Hearing shall be ensured. The Project Proponent shall undertake all the tasks as per the Action Plan submitted with budgetary provisions during the Public Hearing.                                                                                                                                                                                                                                                                                                                                                                             | <b>Being Complied.</b>                                                                                                                                                                                          |
| VI.    | As proposed, no pipelines or its part shall be laid and drilling of exploratory/production/development wells to be carried out in the Forest land/Protected Area without prior permission/approval from the Competent Authority.                                                                                                                                                                                                                                                                                                                                                                                     | <b>Complied</b><br>No pipeline is laid in Forest land/ Protected Area                                                                                                                                           |
| VII.   | The project proponent will treat and reuse the treated water within the drilling site and no waste or treated water shall be discharged outside the premises under any condition. Mobile ETP coupled with RO and mobile STP                                                                                                                                                                                                                                                                                                                                                                                          | <b>Complied</b><br>Zero Liquid Discharge is maintained at the drilling location. Mobile ETP                                                                                                                     |

|       |                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                           |
|-------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|       | shall be installed to treat the waste water and sewage waste respectively.                                                                                                                                                                                                                                             | coupled with RO is installed to treat the effluent generated from the drilling location. Quantity of domestic sewage generated from the drilling locations is minimum and is being treated in ETP. Test report of ETP treated effluent at Loc. HAAM, Loc. HAAO, Loc. HAAP, Loc. HAAS is enclosed as <b>Annexure – II.</b> |
| VIII. | During production, storage and handling, the fugitive emission of methane, if any, shall be monitored using appropriate technology.                                                                                                                                                                                    | <b>Complied</b><br>Portable Multi-gas detector & Explosimeter are used to detect fugitive emissions of Methane (if any).                                                                                                                                                                                                  |
| IX.   | The project proponent also to ensure trapping/storing of the CO <sub>2</sub> generated, if any, during the process and handling.                                                                                                                                                                                       | <b>Complied</b><br>No CO <sub>2</sub> generated is generated during drilling.                                                                                                                                                                                                                                             |
| X.    | Approach road to drilling well shall be made pucca to minimize generation of suspended dust.                                                                                                                                                                                                                           | <b>Complied</b><br>Approach road to the drilling location is made pucca to minimize dust generation.                                                                                                                                                                                                                      |
| XI.   | The project proponent shall make all arrangements for control of noise from the drilling activity. Acoustic enclosure shall be provided for the DG sets along with the adequate stack height as per CPCB guidelines.                                                                                                   | <b>Complied</b><br>Regular maintenance of equipment/ machinery is being carried to minimize noise generation. Acoustic enclosures are provided around DG sets and also adequate Stack Height is provided for DG sets as per CPCB guidelines.                                                                              |
| XII.  | Total fresh water requirement shall be 25 KLPD which will be met from ground water. Extraction of ground water shall not be done without obtaining prior permission of CGWA/concerned authority.                                                                                                                       | <b>Complied</b><br>Total freshwater consumption is within the permitted limit. Groundwater abstraction by Oil India Ltd for drilling activities are exempted from obtaining NOC from Central Ground Water Authority (CGWA) as per the Public Note dated 01.08.2023. Copy of the same is enclosed as <b>Annexure – E.</b>  |
| XIII. | The company shall construct the garland drain to prevent runoff of any oil containing waste into the nearby water bodies. Separate drainage system shall be created for oil contaminated and non-oil contaminated.                                                                                                     | <b>Complied</b><br>Garland drains are constructed around the periphery of the drilling location to prevent runoff of any oil containing waste into the nearby water bodies. Separate drainage system is created for oil contaminated and non- oil contaminated.                                                           |
| XIV.  | Drill cuttings separated from drilling fluid shall be adequately washed and disposed in HDPE lined pit. Waste mud shall be tested for hazardous contaminants and disposed according to HWMH Rules, 2016. No effluent/drilling mud shall be discharged/disposed off into nearby surface water bodies. The company shall | <b>Complied</b><br>Drill cuttings separated from drilling fluid are disposed in HDPE lined pit and mud is tested for Hazardous contaminants as per Hazardous and                                                                                                                                                          |

|        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                    |
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|        | comply with the guidelines for disposal of solid waste, drill cutting and drilling fluids for onshore drilling operation notified vide GSR.546(E) dated 30 <sup>th</sup> August, 2005.                                                                                                                                                                                                                                                                                    | Other Wastes (Management & Transboundary) Movement Rules, 2016. Toxicity test of drilling fluid and Report of Hg & Cd in Barite used in the preparation of Drilling Mud is enclosed as <b>Annexure – III</b> . Toxicity test report of waste drilling mud of Loc. HAAM, Loc. HAAP, Loc. HAAS is enclosed as <b>Annexure – IV</b> . |
| XV.    | Oil spillage prevention and mitigation scheme shall be prepared. In case of oil spillage/ contamination, action plan shall be prepared to clean the site by adopting proven technology. The recyclable waste (oily sludge) and spent oil shall be disposed of to the authorized recyclers.                                                                                                                                                                                | <b>Complied</b><br><br>Oil Spill Contingency Plan is in place. In case of Oil spillage/ contamination, action will be taken as per the Oil spill contingency plan prepared by OIL. Recyclable waste (oily sludge) and spent oil is sent to Pollution Control Board, Assam authorized recyclers.                                    |
| XVI.   | The project proponent shall take necessary measures to prevent fire hazards, containing oil spill and soil remediation as needed. At fixed installations or plants use of ground flare shall be explored. At the place of ground flaring, the overhead flaring stack with knockout drums shall be installed to minimize gaseous emissions during operation.                                                                                                               | <b>Complied</b><br><br>Fixed firefighting system is installed at drilling locations and in case of any oil spillage necessary remediation actions will be taken as per the Oil Spill Contingency Plan.                                                                                                                             |
| XVII.  | The project proponent shall develop a contingency plan for H <sub>2</sub> S release including all necessary aspects from evacuation to resumption of normal operations. The workers shall be provided with personal H <sub>2</sub> S detectors in locations of high risk of exposure along with self-containing breathing apparatus.                                                                                                                                      | <b>Complied</b><br><br>Contingency Plan for H <sub>2</sub> S release is in place. OIL never encountered H <sub>2</sub> S and no such evidence exists in our field of operation. However, multi-gas detector and Self Containing Breathing Apparatus (SCBA) are kept available to meet the emergency situation, if any.             |
| XVIII. | Blow Out Preventer system shall be installed to prevent well blowouts during drilling operations.                                                                                                                                                                                                                                                                                                                                                                         | <b>Complied</b><br><br>BOP systems are installed at the drilling locations for prevention of Blowouts.                                                                                                                                                                                                                             |
| XIX.   | On completion of the project, necessary measures shall be taken for safe plugging of wells with secured enclosures to restore the drilling site to the original condition. The same shall be confirmed by the concerned regulatory authority from environment safety angle. In case of hydrocarbon not found economically viable, a full abandonment plan shall be implemented for the drilling site in accordance with the applicable DGH/ Indian Petroleum Regulations. | <b>Will be complied</b><br><br>On completion of the drilling activity, plugging of abandoned wells will be carried out as per the OIL's Well Abandonment, Site Restoration and Reclamation policy.                                                                                                                                 |
| XX.    | As per the action plan submitted by the project proponent all activities proposed in extended EMP (CER) for corpus of Rs. 3.28 crores shall be completed within 2 years (Annexure-II).                                                                                                                                                                                                                                                                                    | <b>Being Complied</b>                                                                                                                                                                                                                                                                                                              |

|        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                               |
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| XXI.   | Occupational health surveillance of the workers shall be carried out as per the prevailing Acts and Rules. All workers & employees shall be provided with required safety kits/mask for personal protection.                                                                                                                                                                                                                                                                                     | <b>Complied</b><br>Occupational Health Surveillance of workers engaged in drilling operation is being carried out on regular basis. All workers & employees engaged in drilling operation are provided with Personal Protective Equipment (PPE). IME/PME record of the personnel engaged in drilling operation at Loc. HAAM, Loc. HAAO, Loc. HAAP is enclosed as <b>Annexure – V.</b>                                         |
| XXII.  | Oil content in the drill cuttings shall be monitored if oil-based mud is used and report & shall sent to the Ministry's Regional Office.                                                                                                                                                                                                                                                                                                                                                         | <b>Complied</b><br>Water-based Mud is used for drilling operations.                                                                                                                                                                                                                                                                                                                                                           |
| XXIII. | The project proponent shall prepare operating manual in respect of all activities, which would cover all safety & environment related issues and measures to be taken for protection. One set of environmental manual shall be made available at the drilling site/ project site. Awareness shall be created at each level of the management. All the schedules and results of environmental monitoring shall be available at the project site office. Remote monitoring of site should be done. | <b>Complied</b><br>SOPs for all the operations covering safety and environment related issues are prepared. OIL has prepared Environmental manual which is made available at the drilling location. Copy of the same is enclosed <b>Annexure – B.</b> Also, all the environmental monitoring reports related to ambient air quality, Stack Gas monitoring, ETP effluent, Noise level are maintained at the drilling location. |

#### **General Conditions:**

| S. No. | CONDITION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | COMPLIANCE STATUS                                                                                                                                                                                                               |
|--------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| I.     | No further expansion or modifications in the plant, other than mentioned in the EIA Notification, 2006 and its amendments, shall be carried out without prior approval of the Ministry of Environment, Forest and Climate Change/SEIAA, as applicable. In case of deviations or alterations in the project proposal from those submitted to this Ministry for clearance, a fresh reference shall be made to the Ministry/SEIAA, as applicable, to assess the adequacy of conditions imposed and to add additional environmental protection measures required, if any. | <b>Complied</b><br>No further expansion or modification other than mentioned in the EIA Notification, 2006 and its amendments, is carried out without prior approval of the Ministry of Environment, Forest and Climate Change. |
| II.    | The energy source for lighting purpose shall be preferably LED based, or advanced having preference in energy conservation and environment betterment.                                                                                                                                                                                                                                                                                                                                                                                                                | <b>Complied</b><br>LED lights are installed for lighting purposes at the drilling locations.                                                                                                                                    |
| III.   | The overall noise levels in and around the plant area shall be kept well within the standards by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation. The                                                                                                                                                                                                                                                                                                                                        | <b>Complied</b><br>Noise level in the drilling sites is kept within the permissible limits by                                                                                                                                   |

|       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|-------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|       | ambient noise levels shall conform to the standards prescribed under the Environment (Protection) Act, 1986 Rules, 1989 viz. 75 dBA (day time) and 70 dBA (night time).                                                                                                                                                                                                                                                                                                       | providing acoustic enclosures around DG sets.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| IV.   | The company shall undertake all relevant measures for improving the socioeconomic conditions of the surrounding area. CER activities shall be undertaken by involving local villages and administration and shall be implemented. The company shall undertake eco-developmental measures including community welfare measures in the project area for the overall improvement of the environment.                                                                             | <b>Being Complied</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| V.    | The company shall earmark sufficient funds towards capital cost and recurring cost per annum to implement the conditions stipulated by the Ministry of Environment, Forest and Climate Change as well as the State Government along with the implementation schedule for all the conditions stipulated herein. The funds so earmarked for environment management/pollution control measures shall not be diverted for any other purpose.                                      | <b>Being Complied</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| VI.   | A copy of the clearance letter shall be sent by the project proponent to concerned Panchayat, Zilla Parishad/Municipal Corporation, Urban local Body and the local NGO, if any, from whom suggestions/representations, if any, were received while processing the proposal.                                                                                                                                                                                                   | <b>Complied</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| VII.  | The project proponent shall also submit six monthly reports on the status of compliance of the stipulated Environmental Clearance conditions including results of monitored data (both in hard copies as well as by e-mail) to the respective Regional Office of MoEF&CC, the respective Zonal Office of CPCB and SPCB. A copy of Environmental Clearance and six monthly compliance status report shall be posted on the website of the company.                             | <b>Complied</b><br><br>EC compliance report for the period October 2023 to March 2024 was submitted to Sub-Office (MoEF&CC), Guwahati, Zonal Office CPCB, Shillong and Chairman - Pollution Control Board Assam vide L.No. S&E/E/43C-1/588 dated 28.05.2024. Also, copy of the EC and Six-monthly compliance report are uploaded to OIL website under the links <a href="https://www.oil-india.com/environmental-compliance-grants">https://www.oil-india.com/environmental-compliance-grants</a> & <a href="https://www.oil-india.com/environmental-compliance-reports">https://www.oil-india.com/environmental-compliance-reports</a> respectively. |
| VIII. | The environmental statement for each financial year ending 31 <sup>st</sup> March in Form-V as is mandated shall be submitted to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of environmental clearance conditions and shall also be sent to the respective Regional Offices of MoEF&CC by e-mail. | <b>Complied.</b><br><br>Environment Statement (Form – V) for the F.Y. 2023-24 was submitted to Pollution Control Board, Assam vide No. S&E/E/21(B)/1013 dated 24.09.2024. Copy of the same is enclosed as <b>Annexure – C</b> .                                                                                                                                                                                                                                                                                                                                                                                                                       |

|     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                            |
|-----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| IX. | The project proponent shall inform the public that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with the SPCB/Committee and may also be seen at Website of the Ministry and at <a href="https://parivesh.nic.in/">https://parivesh.nic.in/</a> . This shall be advertised within seven days from the date of issue of the clearance letter, at least in two local newspapers that are widely circulated in the region of which one shall be in the vernacular language of the locality concerned and a copy of the same shall be forwarded to the concerned Regional Office of the Ministry. | <b>Complied.</b><br>Advertisement regarding the issuance of the Environment Clearance was published in two newspapers i.e., Dainik Janambhumi and The Sentinel dated 27.09.2023. Copies of the same are enclosed as <b>Annexure – VI</b> . |
| X.  | The project authorities shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities and the date of start of the project.                                                                                                                                                                                                                                                                                                                                                                                                                                                   | <b>Will be Complied.</b>                                                                                                                                                                                                                   |
| XI. | This Environmental clearance is granted subject to final outcome of Hon'ble Supreme Court of India, Hon'ble High Court, Hon'ble NGT and any other Court of Law, if any, as may be applicable to this project.                                                                                                                                                                                                                                                                                                                                                                                                                                                          | <b>Agreed.</b>                                                                                                                                                                                                                             |

संदर्भ सं./Ref. No.: S&E/E/43(14)/1151

दिनांक/Date: 02.11.2024

|                |   |                                                                                                                                                                           |
|----------------|---|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>From</b>    | : | ED (HSE & ESG)                                                                                                                                                            |
| <b>To</b>      | : | The Principal Chief Conservator of Forests (Wildlife) & Chief Wildlife Warden<br>Office of the PCCF (Wildlife),<br>Aranya Bhawan, Panjabari,<br>Guwahati, Assam - 781037. |
| <b>Subject</b> | : | Submission of Site-Specific Conservation Plan and Wildlife Management Plan for Schedule - I species against the Environment Clearance proposals of Oil India Limited.     |
| <b>Ref</b>     | : | OIL Letter Ref. No. S&E/E-39/1565 dated 25.11.2021                                                                                                                        |

Sir,

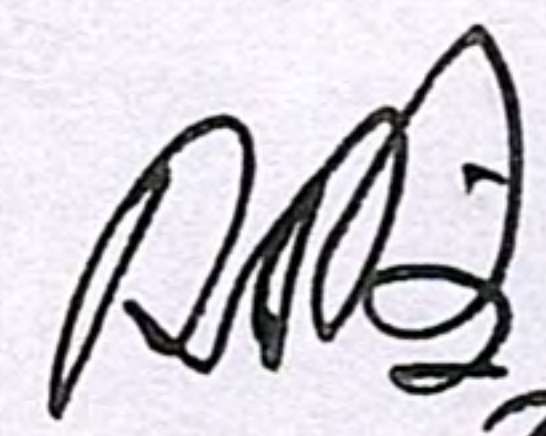
Oil India Limited (OIL) has submitted Environment Clearance proposals No. IA/AS/IND2/246799/2018 (Naharkatiya-Deohal-Bogapani-Nagajan Block) to Ministry of Environment, Forest & Climate Change (MoEF&CC) for carrying Onshore Oil & Gas drilling and production activities in the Nominated Petroleum Mining Lease (PMLs) of Assam.

In compliance with the Environment Clearance granted by MoEF&CC, OIL has prepared Site-specific conservation plan and Wildlife management plan for Schedule - I species and the same was submitted to your good office vide letter dated 25.11.2021 for approval. The approved plan is required for fulfilling the Environment Clearance compliance Condition as stipulated in the EC. (Copies enclosed as **Annexure - I**).

View above, we are request you to kindly approve the Site-specific conservation plan and Wildlife Management Plan for Schedule - I species against the above-mentioned EC proposal.

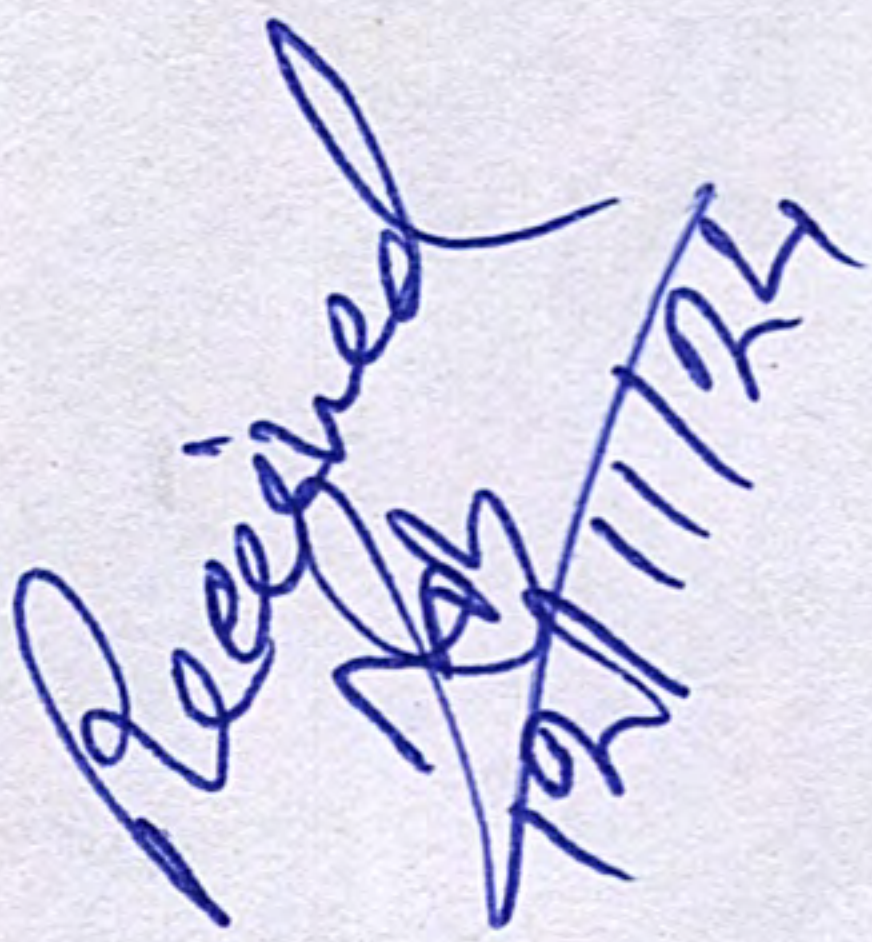
Thanking you.

Yours faithfully,  
Oil India Limited

  
(R K Singh) 2/11/2024

**Executive Director (HSE & ESG) I/C**  
**Nodal Officer (EC, FC & NBWL)**  
**For Resident Chief Executive**

**Encl:** As above.

  
2/11/24



Envirocon Building, I.O.C.L (AOD) New Market  
P.O.: Digboi, Dist.: Tinsukia, Assam – 786 171  
Ph: 03751-264414, 9435008657, 8876028672  
E-mail: envirocon@rediffmail.com

ISO 9001:2015 Certified  
ISO 45001:2018 Certified

Report No.: ENV/ARDS/24-25/S-01/WW-06/02  
Date : 26/06/2024

Order No.: Telecon  
Date :

Report Issued To : **ADITI R & D SERVICES**  
Nilesh Buisness Complex, A. T. Road, Digboi, Assam

TEST RESULTS

Sample Ref. No. : ARDS/2024/S-01/1906/01      Sample Source : Rig S#1/HAAM, Makum      Sample Type : ETP Treated Water (RO)  
Collected On : 19-06-2024      Received On : 19-06-2024      Collected By : ETP Supervisor, ARDS

| Sl. No. | Parameters                                                   | Results    | Limit<br>[G.S.R. 176(E), 02.04.1996] |
|---------|--------------------------------------------------------------|------------|--------------------------------------|
| 1       | Colour                                                       | Colourless | Colourless                           |
| 2       | Odour                                                        | Odourless  | Odourless                            |
| 3       | pH value                                                     | 7.17       | 5.5 – 9.0                            |
| 4       | Temperature, °C                                              | 26.9       | 40 °C                                |
| 5       | TSS, mg/l                                                    | <5.0       | 100                                  |
| 6       | BOD, mg/l                                                    | 2          | 30                                   |
| 7       | COD, mg/l                                                    | 32         | 100                                  |
| 8       | Chlorides (as Cl), mg/l                                      | <5.0       | 600                                  |
| 9       | Sulfates (as SO <sub>4</sub> ), mg/l                         | <1.0       | 1000                                 |
| 10      | TDS, mg/l                                                    | 47         | 2100                                 |
| 11      | Sodium, (%)                                                  | 2.1        | 60                                   |
| 12      | Oil & Grease, mg/l                                           | <4.0       | 10                                   |
| 13      | Phenolic Compounds as C <sub>6</sub> H <sub>5</sub> OH, mg/l | <0.001     | 1.2                                  |
| 14      | Cyanides , mg/l                                              | <0.001     | 0.2                                  |
| 15      | Fluorides (as F), mg/l                                       | <0.01      | 1.5                                  |
| 16      | Sulfide (as S), mg/l                                         | <0.01      | 2.0                                  |
| 17      | Chromium (Cr <sup>+6</sup> ), mg/l                           | <0.001     | 0.1                                  |
| 18      | Chromium (Total) , mg/l                                      | <0.001     | 1.0                                  |
| 19      | Copper, mg/l                                                 | <0.001     | 0.2                                  |
| 20      | Lead, mg/l                                                   | <0.001     | 0.1                                  |
| 21      | Mercury, mg/l                                                | <0.001     | 0.01                                 |
| 22      | Nickel, mg/l                                                 | <0.001     | 3.0                                  |
| 23      | Zinc, mg/l                                                   | <0.01      | 2.0                                  |

Analysis Protocol: IS 3025



Checked By: Mr. Pankaj Baroi, ENVIROCON

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Report No.: ENV/ARDS/24-25/S-01/WW-09/01  
Date : 19-09/2024

Order No.: Telecon  
Date :

Report Issued To : **ADITI R & D SERVICES**  
Nilesh Buisness Complex, A. T. Road, Digboi, Assam

### TEST RESULTS

Sample Ref. No. : ARDS/2024/S-01/1109/01      Sample Source : Rig S#1/HAAO, Naoholia      Sample Type : ETP Treated Water (RO)  
Collected On : 11-09-2024      Received On : 12-09-2024      Collected By : ETP Supervisor, ARDS

| Sl. No. | Parameters                                                   | Results    | Limit<br>[G.S.R. 176(E), 02.04.1996] |
|---------|--------------------------------------------------------------|------------|--------------------------------------|
| 1       | Colour                                                       | Colourless | Colourless                           |
| 2       | Odour                                                        | Odourless  | Odourless                            |
| 3       | pH value                                                     | 7.17       | 5.5 – 9.0                            |
| 4       | Temperature, °C                                              | 26.2       | 40 °C                                |
| 5       | TSS, mg/l                                                    | <5.0       | 100                                  |
| 6       | BOD, mg/l                                                    | <1.0       | 30                                   |
| 7       | COD, mg/l                                                    | 18         | 100                                  |
| 8       | Chlorides (as Cl), mg/l                                      | <5.0       | 600                                  |
| 9       | Sulfates (as SO <sub>4</sub> ), mg/l                         | <1.0       | 1000                                 |
| 10      | TDS, mg/l                                                    | 39         | 2100                                 |
| 11      | Sodium, (%)                                                  | 1.6        | 60                                   |
| 12      | Oil & Grease, mg/l                                           | <4.0       | 10                                   |
| 13      | Phenolic Compounds as C <sub>6</sub> H <sub>5</sub> OH, mg/l | <0.001     | 1.2                                  |
| 14      | Cyanides, mg/l                                               | <0.001     | 0.2                                  |
| 15      | Fluorides (as F), mg/l                                       | <0.01      | 1.5                                  |
| 16      | Sulfide (as S), mg/l                                         | <0.01      | 2.0                                  |
| 17      | Chromium (Cr <sup>+6</sup> ), mg/l                           | <0.001     | 0.1                                  |
| 18      | Chromium (Total), mg/l                                       | <0.001     | 1.0                                  |
| 19      | Copper, mg/l                                                 | <0.001     | 0.2                                  |
| 20      | Lead, mg/l                                                   | <0.001     | 0.1                                  |
| 21      | Mercury, mg/l                                                | <0.001     | 0.01                                 |
| 22      | Nickel, mg/l                                                 | <0.001     | 3.0                                  |
| 23      | Zinc, mg/l                                                   | <0.01      | 2.0                                  |

Analysis Protocol: IS 3025



Checked By: Mr. Pankaj Baroi, **ENVIROCON**

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Report No.: ENV/ARDS/24-25/S-02/WW-05/01

Date : 08/06/2024

Order No.: Telecon

Date :

Report Issued To : **ADITI R & D SERVICES**

Nilesh Buisness Complex, A. T. Road, Digboi, Assam

**TEST RESULTS**

Sample Ref. No. : ARDS/2024/S-02/3105/01

Sample Source : Rig S#2/HAAP, Bhadoi  
Panchali

Sample Type : ETP Treated Water (RO)

Collected On : 31-05-2024

Received On : 31-05-2024

Collected By : ETP Supervisor, ARDS

| Sl. No. | Parameters                                                   | Results    | Limit<br>[G.S.R. 176(E), 02.04.1996] |
|---------|--------------------------------------------------------------|------------|--------------------------------------|
| 1       | Colour                                                       | Colourless | Colourless                           |
| 2       | Odour                                                        | Odourless  | Odourless                            |
| 3       | pH value                                                     | 7.12       | 5.5 – 9.0                            |
| 4       | Temperature, °C                                              | 26.5       | 40 °C                                |
| 5       | TSS, mg/l                                                    | <1.0       | 100                                  |
| 6       | BOD, mg/l                                                    | <1.0       | 30                                   |
| 7       | COD, mg/l                                                    | 16         | 100                                  |
| 8       | Chlorides (as Cl), mg/l                                      | <5.0       | 600                                  |
| 9       | Sulfates (as SO <sub>4</sub> ), mg/l                         | <1.0       | 1000                                 |
| 10      | TDS, mg/l                                                    | 54         | 2100                                 |
| 11      | Sodium, (%)                                                  | 1.8        | 60                                   |
| 12      | Oil & Grease, mg/l                                           | <4.0       | 10                                   |
| 13      | Phenolic Compounds as C <sub>6</sub> H <sub>5</sub> OH, mg/l | <0.001     | 1.2                                  |
| 14      | Cyanides, mg/l                                               | <0.001     | 0.2                                  |
| 15      | Fluorides (as F), mg/l                                       | <0.01      | 1.5                                  |
| 16      | Sulfide (as S), mg/l                                         | <0.01      | 2.0                                  |
| 17      | Chromium (Cr + <sup>6</sup> ), mg/l                          | <0.001     | 0.1                                  |
| 18      | Chromium (Total), mg/l                                       | <0.001     | 1.0                                  |
| 19      | Copper, mg/l                                                 | <0.001     | 0.2                                  |
| 20      | Lead, mg/l                                                   | <0.001     | 0.1                                  |
| 21      | Mercury, mg/l                                                | <0.001     | 0.01                                 |
| 22      | Nickel, mg/l                                                 | <0.001     | 3.0                                  |
| 23      | Zinc, mg/l                                                   | <0.01      | 2.0                                  |

Analysis Protocol: IS 3025

Checked By: Mr. Pankaj Baroi, **ENVIROCON**

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Report No.: ENV/ARDS/24-25/S-06/WW-09/01  
Date : 19/09/2024Order No.: Telecon  
Date :Report Issued To : **ADITI R & D SERVICES**  
Nilesh Buisness Complex, A. T. Road, Digboi, Assam**TEST RESULTS**Sample Ref. No. : ARDS/2024/S-06/1009/01      Sample Source : Rig S#6/HAAS, Makum      Sample Type : ETP Treated Water (RO)  
Collected On : 10-09-2024      Received On : 11-09-2024      Collected By : ETP Supervisor, ARDS

| Sl. No. | Parameters                                                   | Results    | Limit<br>[G.S.R. 176(E), 02.04.1996] |
|---------|--------------------------------------------------------------|------------|--------------------------------------|
| 1       | Colour                                                       | Colourless | Colourless                           |
| 2       | Odour                                                        | Odourless  | Odourless                            |
| 3       | pH value                                                     | 7.18       | 5.5 – 9.0                            |
| 4       | Temperature, °C                                              | 26.2       | 40 °C                                |
| 5       | TSS, mg/l                                                    | <5.0       | 100                                  |
| 6       | BOD, mg/l                                                    | <1.0       | 30                                   |
| 7       | COD, mg/l                                                    | 23         | 100                                  |
| 8       | Chlorides (as Cl), mg/l                                      | <5.0       | 600                                  |
| 9       | Sulfates (as SO <sub>4</sub> ), mg/l                         | <1.0       | 1000                                 |
| 10      | TDS, mg/l                                                    | 45         | 2100                                 |
| 11      | Sodium, (%)                                                  | 2.2        | 60                                   |
| 12      | Oil & Grease, mg/l                                           | <4.0       | 10                                   |
| 13      | Phenolic Compounds as C <sub>6</sub> H <sub>5</sub> OH, mg/l | <0.001     | 1.2                                  |
| 14      | Cyanides , mg/l                                              | <0.001     | 0.2                                  |
| 15      | Fluorides (as F), mg/l                                       | <0.1       | 1.5                                  |
| 16      | Sulfide (as S), mg/l                                         | <0.01      | 2.0                                  |
| 17      | Chromium (Cr <sup>+6</sup> ), mg/l                           | <0.001     | 0.1                                  |
| 18      | Chromium (Total) , mg/l                                      | <0.001     | 1.0                                  |
| 19      | Copper, mg/l                                                 | <0.001     | 0.2                                  |
| 20      | Lead, mg/l                                                   | <0.001     | 0.1                                  |
| 21      | Mercury, mg/l                                                | <0.001     | 0.01                                 |
| 22      | Nickel, mg/l                                                 | <0.001     | 3.0                                  |
| 23      | Zinc, mg/l                                                   | <0.01      | 2.0                                  |

Analysis Protocol: IS 3025

Checked By: Mr. Pankaj Baroi, **ENVIROCON**

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**CSIR-NORTH-EAST INSTITUTE OF SCIENCE & TECHNOLOGY**  
**JORHAT – 785 006, ASSAM**

|                                                            |                                                                |                |
|------------------------------------------------------------|----------------------------------------------------------------|----------------|
| Name of the Division :<br>Analytical Chemistry Group, MSTD | Report No.<br>CSIR-NEIST-Jorhat/QSP/MR/20/AnC/TR- 3588(A)/2023 |                |
| <b>TEST REPORT OF Barite (2 nos.)</b>                      | DATE<br>29/11/2023                                             | PAGE<br>3 of 3 |

## 2. RESULT

| SL. No. | Sample name (barite)<br>(Source/Supplier) | Hg ( $\mu\text{g/gm}$ ) | Cd (mg/gm) |
|---------|-------------------------------------------|-------------------------|------------|
| 1       | M/S Gimpex Pvt. Ltd                       | 0.03                    | BDL        |
| 2       | M/S Ambika Mineral                        | 0.07                    | BDL        |

BDL: Below detection limit, <0.01 mg/gm

| TEST CONDUCTED BY                                        | CHECKED BY                                                                   | APPROVED BY                                                             |
|----------------------------------------------------------|------------------------------------------------------------------------------|-------------------------------------------------------------------------|
| <br>29/11/23<br>Dr. Ankana Phukan<br>(Sr. Tech. Officer) | <br>29/11/2023<br>Dr. P. J. Saikia<br>(GL, Analytical Chemistry Group, MSTD) | <br>30/11/2023<br>Dr. A. M. Das<br>(Chairman, Testing Report Committee) |



# গ্ৰীণটেক এনভাইৰনমেন্টল ইঞ্জিনিয়াৰ এণ্ড কন্সালটেন্টছ GREEN TECH ENVIRONMENTAL ENGINEER & CONSULTANTS

House No-11, Champaknagar, Narayan Path, Bhetapara, Guwahati-781028, www.greentecheeec.in  
Telefax -0361 3501950 Mobile: 9435048677, 9954089052, E-mail: green\_pranjal@hotmail.com, info@greentecheeec.in



TC-5991

## TEST REPORT

GEEC/FM/450A

|                                                                                        |                                                                     |                                                                |                                               |
|----------------------------------------------------------------------------------------|---------------------------------------------------------------------|----------------------------------------------------------------|-----------------------------------------------|
| ULR Number: TC59912400000667F                                                          |                                                                     |                                                                |                                               |
| Report No:GEEC/FL/23/TOX/2024/06/01                                                    |                                                                     | Date:                                                          | 05/07/2024                                    |
| Name of the Industry:                                                                  | OIL INDIA Ltd.                                                      | Lab ID                                                         | GEEC/TT/2024/06/01                            |
| Address:                                                                               | Oil India Ltd.<br>Duliajan<br>District: Dibrugarh,<br>State : Assam | Date of Sampling/Collection:                                   | 06/06/2024                                    |
|                                                                                        |                                                                     | Date of Receipt in Duliajan:                                   | 07/06/2024                                    |
|                                                                                        |                                                                     | Date of Receipt in Lab:                                        | 08/06/2024                                    |
| Rig                                                                                    | S-1                                                                 | Test Start Date:                                               | 08/06/2024                                    |
| Location:                                                                              | HAAM                                                                | Test End Date:                                                 | 12/06/2024                                    |
| DRILL FLUID QUALITY FOR TOXICITY                                                       |                                                                     |                                                                |                                               |
| SAMPLING RESULT                                                                        |                                                                     |                                                                |                                               |
| Depth                                                                                  | 2755 m                                                              | Mud Weight (MW,pcf)                                            | 71                                            |
| Mud Type                                                                               | Polymer-mud                                                         | MFV sec                                                        | 55                                            |
| Dose                                                                                   | Sample Concentration                                                | Mortality (ln%)                                                | Test Method                                   |
| 1                                                                                      | Control sample                                                      | 0                                                              | IS 6582 (Part 2)<br>Bioassay using Zebra Fish |
| 2                                                                                      | 5000 mg/L                                                           | 0                                                              |                                               |
| 3                                                                                      | 10000 mg/L                                                          | 10                                                             |                                               |
| 4                                                                                      | 20000 mg/L                                                          | 30                                                             |                                               |
| 5                                                                                      | 30500 mg/L                                                          | 40                                                             |                                               |
| 6                                                                                      | 40000 mg/L                                                          | 50                                                             |                                               |
| 7                                                                                      | 50000 mg/L                                                          | 60                                                             |                                               |
| Sample Drawn By : Client                                                               |                                                                     |                                                                |                                               |
| Remarks: Limit for Toxicity of Drill Fluid 96 Hrs LC 50 > 30000 mg/l by fish toxicity. |                                                                     |                                                                |                                               |
| Checked by:<br><br>Dr. Belinda Lahon<br>Quality Manager                                |                                                                     | Reviewed by:<br><br>Pranjal Buragohain<br>Authorised Signatory |                                               |

\* The results relate only to the item tested.

\* The test report shall not be produced except in full, without written approval of the laboratory.

\* The test report cannot be used as evidence in the court of law without prior written approval of the laboratory.

\*\*\*\*\* End of report \*\*\*\*\*



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House No-11, Champaknagar, Narayan Path, Bhetapara, Guwahati-781028, www.greentechec.in  
Telefax -0361 3501950 Mobile: 9435046677, 9954089052, E-mail: green\_pranjal@hotmail.com, info@greentechec.in



TC-5991

## TEST REPORT

GEEC/FM/450A

|                                                                              |                              |                    |  |
|------------------------------------------------------------------------------|------------------------------|--------------------|--|
| ULR Number: TC59912400000668F                                                |                              |                    |  |
| Report No:GEEC/FL/23/TOX/2024/06/02                                          | Date:                        | 05/07/2024         |  |
| Name of the Industry: OIL INDIA Ltd.                                         | Lab ID                       | GEEC/TT/2024/06/02 |  |
| Address: Oil India Ltd.<br>Duliajan<br>District: Dibrugarh,<br>State : Assam | Date of Sampling/Collection: | 06/06/2024         |  |
|                                                                              | Date of Receipt in Duliajan: | 07/06/2024         |  |
|                                                                              | Date of Receipt in Lab:      | 08/06/2024         |  |
| Rig S-2                                                                      | Test Start Date:             | 08/06/2024         |  |
| Location: HAAP                                                               | Test End Date:               | 12/06/2024         |  |

### DRILL FLUID QUALITY FOR TOXICITY

#### SAMPLING RESULT

|          |                      |                     |                                               |
|----------|----------------------|---------------------|-----------------------------------------------|
| Depth    | 930 m                | Mud Weight (MW,pcf) | 67                                            |
| Mud Type | BS-mud               | MFV sec             | 63                                            |
| Dose     | Sample Concentration | Mortality (In%)     | Test Method                                   |
| 1        | Control sample       | 0                   | IS 6582 (Part 2)<br>Bioassay using Zebra Fish |
| 2        | 5000 mg/L            | 0                   |                                               |
| 3        | 10000 mg/L           | 10                  |                                               |
| 4        | 20000 mg/L           | 20                  |                                               |
| 5        | 30500 mg/L           | 40                  |                                               |
| 6        | 40000 mg/L           | 50                  |                                               |
| 7        | 50000 mg/L           | 60                  |                                               |

Sample Drawn By : Client

Remarks: Limit for Toxicity of Drill Fluid 96 Hrs LC 50 > 30000 mg/l by fish toxicity.

Checked by:

*Belinda Lahon*

Dr. Belinda Lahon  
Quality Manager



Reviewed by:

*Pranjal Buragohain*

Pranjal Buragohain  
Authorised Signatory

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..... End of report .....



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TC-14361

## TEST REPORT

GEEC/FM/450A

|                                                                                        |                                                                     |                              |                                                                |
|----------------------------------------------------------------------------------------|---------------------------------------------------------------------|------------------------------|----------------------------------------------------------------|
| ULR Number: TC143612400000004F                                                         |                                                                     |                              |                                                                |
| Report No:GEEC/FL/23/TOX/2024/08/04                                                    |                                                                     | Date:                        | 15/09/2024                                                     |
| Name of the Industry:                                                                  | OIL INDIA Ltd.                                                      | Lab ID                       | GEEC/TT/2024/08/04                                             |
| Address:                                                                               | Oil India Ltd.<br>Duliajan<br>District: Dibrugarh,<br>State : Assam | Date of Sampling/Collection: | 12/08/2024                                                     |
|                                                                                        |                                                                     | Date of Receipt in Duliajan: | 14/08/2024                                                     |
|                                                                                        |                                                                     | Date of Receipt in Lab:      | 16/08/2024                                                     |
| Rig                                                                                    | S-6                                                                 | Test Start Date:             | 16/08/2024                                                     |
| Location:                                                                              | HAAS                                                                | Test End Date:               | 20/08/2024                                                     |
| <b>DRILL FLUID QUALITY FOR TOXICITY</b>                                                |                                                                     |                              |                                                                |
| <b>SAMPLING RESULT</b>                                                                 |                                                                     |                              |                                                                |
| Depth                                                                                  | 2653 m                                                              | Mud Weight (MW,pcf)          | 70                                                             |
| Mud Type                                                                               | HPWBM-KMC                                                           | MFV sec                      | 53                                                             |
| Dose                                                                                   | Sample Concentration                                                | Mortality (In%)              | Test Method                                                    |
| 1                                                                                      | Control sample                                                      | 0                            | IS 6582 (Part 2)<br>Bioassay using Zebra Fish                  |
| 2                                                                                      | 5000 mg/L                                                           | 10                           |                                                                |
| 3                                                                                      | 10000 mg/L                                                          | 30                           |                                                                |
| 4                                                                                      | 20000 mg/L                                                          | 40                           |                                                                |
| 5                                                                                      | 30500 mg/L                                                          | 50                           |                                                                |
| 6                                                                                      | 40000 mg/L                                                          | 60                           |                                                                |
| 7                                                                                      | 50000 mg/L                                                          | 70                           |                                                                |
| <b>Sample Drawn By : Client</b>                                                        |                                                                     |                              |                                                                |
| Remarks: Limit for Toxicity of Drill Fluid 96 Hrs LC 50 > 30000 mg/l by fish toxicity. |                                                                     |                              |                                                                |
| Checked by:<br><br>Dr. Belinda Lahon<br>Quality Manager                                |                                                                     |                              | Reviewed by:<br><br>Pranjal Buragohain<br>Authorised Signatory |

\* The results relate only to the item tested.

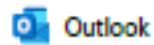
\* The test report shall not be produced except in full, without written approval of the laboratory.

\* The test report cannot be used as evidence in the court of law without prior written approval of the laboratory.

\*\*\*\*\* End of report \*\*\*\*\*

11/19/24, 3:12 PM

Mail - Jyotirmoy Medhi ( জ্যোতির্ময় মেধী ) - Outlook



pme list

From Jyotirmoy Medhi ( জ্যোতির্ময় মেধী ) <Jyotirmoy.Medhi@oilindia.in>  
 Date Wed 10/16/2024 1:46 PM  
 To Ravi Balmiki ( রবি বাল্মীকি ) <ravi\_balmiki@oilindia.in>

Sir,

Please find the below list of personnels with PME dates.

| Nominated Drlg Operation crew for PME in 2024 |                         |        |            |                                                                  |
|-----------------------------------------------|-------------------------|--------|------------|------------------------------------------------------------------|
| Sl No.                                        | Name                    | OIL ID | DATE       | REMARKS                                                          |
| 1                                             | ANUJ CHETIA             | 103920 | 02.02.2024 |                                                                  |
| 2                                             | PRAHLAD CHETIA          | 201799 | 02.02.2024 |                                                                  |
| 3                                             | IMPOL SAIKIA            | 203006 | 02.02.2024 |                                                                  |
| 4                                             | BISWAJEET KONWAR        | 203012 | 02.02.2024 |                                                                  |
| 5                                             | ANUPAM BAKATIAL         | 203850 | 02.02.2024 |                                                                  |
| 6                                             | SIBSANKAR GUALLA        | 101139 | 05.02.2024 | FURTHER MEDICAL EXAMINATION _INTIMATED ON 05.07.24 & 10.09.24    |
| 7                                             | GOHIN BORAH             | 103972 | 05.02.2024 | FURTHER MEDICAL EXAMINATION _INTIMATED ON 05.07.24 & 10.09.24    |
| 8                                             | LAKHINDRA BORAH         | 202014 | 05.02.2024 |                                                                  |
| 9                                             | MONTU DUTTA             | 201796 | 05.02.2024 | FURTHER MEDICAL EXAMINATION _INTIMATED ON 18.04.24               |
| 10                                            | MOHENDRA BORAH          | 203108 | 05.02.2024 |                                                                  |
| 11                                            | ROBIN BARHOI            | 203762 | 05.02.2024 |                                                                  |
| 12                                            | RAJA SINGH              | 203851 | 05.02.2024 |                                                                  |
| 13                                            | MANAB JYOTI SAIKIA      | 204469 | 05.02.2024 | FURTHER MEDICAL EXAMINATION _INTIMATED ON 18.04.24& 10.09.24     |
| 14                                            | DIGANTA SAIKIA          | 103921 | 06.02.2024 |                                                                  |
| 15                                            | BUJOY GOGOI             | 104098 | 06.02.2024 | FURTHER MEDICAL EXAMINATION _INTIMATED ON 18.04.24               |
| 16                                            | GAUTOM DAS              | 201795 | 06.02.2024 |                                                                  |
| 17                                            | ANURAG HATI BORUAH      | 202832 | 06.02.2024 |                                                                  |
| 18                                            | MANAS PROTIM KHANIKOR   | 202873 | 06.02.2024 |                                                                  |
| 19                                            | BINOY KUMAR GOGOI       | 203053 | 06.02.2024 |                                                                  |
| 20                                            | NUMOL MINZ              | 204450 | 06.02.2024 | FURTHER MEDICAL EXAMINATION _INTIMATED ON 18.04.24               |
| 21                                            | JITU SONOWAL            | 204465 | 06.02.2024 |                                                                  |
| 22                                            | PARTHA PRATIM BORAH     | 204806 | 06.02.2024 |                                                                  |
| 23                                            | RATUL KUMAR BORAH       | 104015 | 07.02.2024 |                                                                  |
| 24                                            | RAM CHANDRA TANTI       | 104114 | 07.02.2024 |                                                                  |
| 25                                            | BITUL SONOWAL           | 201890 | 07.02.2024 | FURTHER MEDICAL EXAMINATION _INTIMATED ON 18.04.24               |
| 26                                            | MADHUJYA DUTTA          | 202851 | 07.02.2024 |                                                                  |
| 27                                            | YEM BAHADUR CHETRI      | 202995 | 07.02.2024 |                                                                  |
| 28                                            | PANKAJ PROTIM SAIKIA    | 202997 | 07.02.2024 |                                                                  |
| 29                                            | MUKESH SHAH             | 203916 | 07.02.2024 |                                                                  |
| 30                                            | JADUMONI MECH           | 204380 | 07.02.2024 | FURTHER MEDICAL EXAMINATION _INTIMATED ON 18.04.24               |
| 31                                            | SHANTANU SAIKIA         | 204807 | 07.02.2024 | FURTHER MEDICAL EXAMINATION _INTIMATED ON 18.04.24               |
| 32                                            | ANUJ DIBRUAL            | 103536 | 02.04.2024 |                                                                  |
| 33                                            | PUTUL GOGOI             | 104101 | 02.04.2024 | FURTHER MEDICAL EXAMINATION _INTIMATED ON 30.04.24/ 06.06.24     |
| 34                                            | BIBEKANANDA DAS         | 201707 | 02.04.2024 | FURTHER MEDICAL EXAMINATION _INTIMATED ON 30.04.24/ 06.06.24     |
| 35                                            | RAJIB KALITA            | 201758 | 03.04.2024 |                                                                  |
| 36                                            | JITEN SAIKIA            | 202998 | 03.04.2024 |                                                                  |
| 37                                            | HEMANGA SONOWAL         | 203007 | 03.04.2024 |                                                                  |
| 38                                            | GUNESWAR DAS            | 103667 | 04.04.2024 |                                                                  |
| 39                                            | PRONOB CHANDRA DAS      | 103683 | 04.04.2024 |                                                                  |
| 40                                            | MANASH PRATIM GOGOI     | 201779 | 04.04.2024 |                                                                  |
| 41                                            | SANTOSH KUMAR KUMBHAKAR | 201810 | 05.04.2024 |                                                                  |
| 42                                            | BORISH JYOTI NEOG       | 203010 | 05.04.2024 |                                                                  |
| 43                                            | BHAGYA JYOTI SONOWAL    | 203036 | 05.04.2024 |                                                                  |
| 44                                            | BIMAN SONOWAL           | 203043 | 08.04.2024 | FURTHER MEDICAL EXAMINATION _INTIMATED ON 04.05.24/ 06.06.24     |
| 45                                            | KUNAL GOGOI             | 203764 | 08.04.2024 |                                                                  |
| 46                                            | RISHIRAJ SONOWAL        | 204488 | 08.04.2024 | FURTHER MEDICAL EXAMINATION _INTIMATED ON 04.05.24/ 06.06.24 & 1 |
| 47                                            | MANIK SONOWAL           | 101887 | 09.04.2024 | FURTHER MEDICAL EXAMINATION _INTIMATED ON 04.05.24/ 06.06.24 & 1 |
| 48                                            | RANJIT CHETIA           | 102801 | 09.04.2024 |                                                                  |
| 49                                            | DHARONI MAHATO          | 201830 | 09.04.2024 |                                                                  |
| 50                                            | DIBYA JYOTI GOGOI       | 202875 | 10.04.2024 |                                                                  |

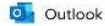
11/19/24, 3:13 PM

Mail - Jyotirmoy Medhi ( ज्योतिर्मय मेधी ) - Outlook

|     |                        |        |                         |                                                                   |
|-----|------------------------|--------|-------------------------|-------------------------------------------------------------------|
| 51  | ANUP CHETIA            | 202877 | 10.04.2024              | FURTHER MEDICAL EXAMINATION _ INTIMATED ON 19.06.24 & 10.09.24    |
| 52  | RITUPARNA DAS          | 203032 | 10.04.2024              |                                                                   |
| 53  | PALASH GOGOI           | 201893 | 16.04.2024              | FURTHER MEDICAL EXAMINATION _ INTIMATED ON 04.05.24/ 06.06.24 & 1 |
| 54  | FORENJIT GOGOI         | 203699 | 16.04.2024              | FURTHER MEDICAL EXAMINATION _ INTIMATED ON 04.05.24               |
| 55  | NIPU CHETIA            | 204378 | 16.04.2024              | FURTHER MEDICAL EXAMINATION _ INTIMATED ON 11.05.24 & 10.09.24    |
| 56  | TULESWAR KHANIKAR      | 201728 | 17.04.2024              | FURTHER MEDICAL EXAMINATION _ INTIMATED ON 05.07.24               |
| 57  | PURNA BAHADUR SONAR    | 201844 | 17.04.2024              | FURTHER MEDICAL EXAMINATION _ INTIMATED ON 04.05.24               |
| 58  | DEBOJIT SONOWAL        | 203016 | 17.04.2024              | FURTHER MEDICAL EXAMINATION _ INTIMATED ON 11.05.24 & 10.09.24    |
| 59  | PHANIDHAR MECH         | 102206 | 20.06.2024              | FURTHER MEDICAL EXAMINATION _ INTIMATED ON 04.07.24 & 10.09.24    |
| 60  | PARTHA PRATIM GOGOI    | 203024 | 20.06.2024              |                                                                   |
| 61  | DIBYAJYOTI HAZARIKA    | 203037 | 20.06.2024              | FURTHER MEDICAL EXAMINATION _ INTIMATED ON 13.07.24 & 10.09.24    |
| 62  | JUGEN SAIKIA           | 103565 | 21.06.2024              |                                                                   |
| 63  | LAKSHYA JYOTI DIHINGIA | 201759 | 21.06.2024              |                                                                   |
| 64  | DIPU BARUAH            | 201772 | 21.06.2024              |                                                                   |
| 65  | BUBUL DOHUTIA          | 202016 | 24.06.2024              |                                                                   |
| 66  | DIPANKAR BORAH         | 203011 | 24.06.2024              | FURTHER MEDICAL EXAMINATION _ INTIMATED ON 12.07.24 & 10.09.24    |
| 67  | CHIRUTJAL GOGOI        | 203013 | 24.06.2024              |                                                                   |
| 68  | RUPAM BORGHAIN         | 203065 | 25.06.2024              | FURTHER MEDICAL EXAMINATION _ INTIMATED ON 04.07.24               |
| 69  | SANJOY GUPTA           | 204274 | 25.06.2024              |                                                                   |
| 70  | LAKHYAJYOTI GOHAIN     | 201928 | 25.06.2024              | FURTHER MEDICAL EXAMINATION _ INTIMATED ON 04.07.24               |
| 71  | KAMALESWAR DHEKIAL     | 201780 | 26.06.2024              |                                                                   |
| 72  | CHANDAN GOGOI          | 203025 | 26.06.2024              |                                                                   |
| 73  | NIRANJAN DAS           | 203027 | 26.06.2024              |                                                                   |
| 74  | NIRANJAN SAIKIA        | 203030 | 27.06.2024              | FURTHER MEDICAL EXAMINATION _ INTIMATED ON 04.07.24               |
| 75  | RANJAN KHANIKAR        | 203051 | 27.06.2024              |                                                                   |
| 76  | UTPAL SARMA            | 203682 | 27.06.2024              |                                                                   |
| 77  | UTTAM CHANDRA DAS      | 103516 | 01.07.2024              | FURTHER MEDICAL EXAMINATION _ INTIMATED ON 06.08.24               |
| 78  | PRANJIT GOGOI          | 104054 | 01.07.2024              | FURTHER MEDICAL EXAMINATION _ INTIMATED ON 06.08.24               |
| 79  | DURLOV NARAYAN DAS     | 203772 | 01.07.2024              |                                                                   |
| 80  | BHASKAR JYOTI CHETIA   | 201811 | 02.07.2024              |                                                                   |
| 81  | SOJIB BORAH            | 203063 | 02.07.2024              |                                                                   |
| 82  | SAHIDUJ ZAMAN          | 202874 | 02.07.2024              | FURTHER MEDICAL EXAMINATION _ INTIMATED ON 12.07.24               |
| 83  | PRADIP GOGOI           | 103535 | 03.07.2024              |                                                                   |
| 84  | ANKUR SAIKIA           | 202994 | 03.07.2024              |                                                                   |
| 85  | BHABESH MECH           | 203102 | 03.07.2024              |                                                                   |
| 86  | ANIBARN BORUAH         | 202817 | 04.07.2024              |                                                                   |
| 87  | RANKU CHANGMAI         | 202872 | 04.07.2024              |                                                                   |
| 88  | SURAJ RAJKHOWA         | 203000 | 04.07.2024              |                                                                   |
| 89  | DIPANKAR CHETIA        | 203058 | 05.07.2024              |                                                                   |
| 90  | MOHENDRA BORAH         | 203108 | 05.07.2024              |                                                                   |
| 91  | UZZAL KHANGIA          | 203070 | 05.07.2024              |                                                                   |
| 92  | PALLAB JYOTI HAZARIKA  | 201757 | 08.07.2024              | FURTHER MEDICAL EXAMINATION _ INTIMATED ON 12.07.24               |
| 93  | UTPAL GOGOI            | 201793 | 08.07.2024              |                                                                   |
| 94  | KULJIT MECH            | 203789 | 08.07.2024              | FURTHER MEDICAL EXAMINATION _ INTIMATED ON 12.07.24               |
| 95  | DIPANKAR DUTTA         | 201879 | 09.07.2024              |                                                                   |
| 96  | DHARENDRA REANG        | 203038 | 09.07.2024              | FURTHER MEDICAL EXAMINATION _ INTIMATED ON 12.07.24               |
| 97  | NITUPON ARANDHARA      | 203047 | 10.07.2024              |                                                                   |
| 98  | MRIDUL KHANIKAR        | 203048 | 10.07.2024              |                                                                   |
| 99  | DEEP JYOTI SONOWAL     | 203033 | 10.07.2024              | FURTHER MEDICAL EXAMINATION _ INTIMATED ON 30.07.24               |
| 100 | DILIP GOGOI            | 102795 | 11.07.2024              | FURTHER MEDICAL EXAMINATION _ INTIMATED ON 12.07.24               |
| 101 | AJOY GOHAIN            | 201800 | 11.07.2024              | Epilepsy                                                          |
| 102 | CHIRAJ UDDIN ALI       | 202876 | 11.07.2024 + 23.09.2024 |                                                                   |
| 103 | SUNIL DAS              | 103689 | 09.07.2024 + 23.09.2024 | ABSENT ON THE SCHEDULED DATE (09.07.2024)                         |
| 104 | PANKAJ SAIKIA          | 201880 | 23.09.2024              |                                                                   |

Regards,

**Jyotirmoy Medhi**  
SE-Drilling (HSE)



pme list

From Jyotirmoy Medhi ( ज्योतिर्मय मेधी ) <Jyotirmoy.Medhi@oilindia.in>  
Date Wed 10/16/2024 1:46 PM  
To Ravi Balmiki ( रवि बाल्मिकि ) <ravi\_balmiki@oilindia.in>

Sir,

Please find the below list of personnels with PME dates.

| Nominated Drig Operation crew for PME in 2024 |                         |        |            |                                                                        |
|-----------------------------------------------|-------------------------|--------|------------|------------------------------------------------------------------------|
| Sl No.                                        | Name                    | OIL ID | DATE       | REMARKS                                                                |
| 1                                             | ANUJ CHETIA             | 103920 | 02.02.2024 |                                                                        |
| 2                                             | PRAHLAD CHETIA          | 201799 | 02.02.2024 |                                                                        |
| 3                                             | IMPOL SAIKIA            | 203006 | 02.02.2024 |                                                                        |
| 4                                             | BISWAJEET KONWAR        | 203012 | 02.02.2024 |                                                                        |
| 5                                             | ANUPAM BAKATIAL         | 203850 | 02.02.2024 |                                                                        |
| 6                                             | SIBSANKAR GUALLA        | 101139 | 05.02.2024 | FURTHER MEDICAL EXAMINATION_INTIMATED ON 05.07.24 & 10.09.24           |
| 7                                             | GOHIN BORAH             | 103972 | 05.02.2024 | FURTHER MEDICAL EXAMINATION_INTIMATED ON 05.07.24 & 10.09.24           |
| 8                                             | LAKHINDRA BORAH         | 202014 | 05.02.2024 |                                                                        |
| 9                                             | MONTU DUTTA             | 201796 | 05.02.2024 | FURTHER MEDICAL EXAMINATION_INTIMATED ON 18.04.24                      |
| 10                                            | MOHENDRA BORAH          | 203108 | 05.02.2024 |                                                                        |
| 11                                            | ROBIN BARHOI            | 203762 | 05.02.2024 |                                                                        |
| 12                                            | RAJA SINGH              | 203851 | 05.02.2024 |                                                                        |
| 13                                            | MANAB JYOTI SAIKIA      | 204469 | 05.02.2024 | FURTHER MEDICAL EXAMINATION_INTIMATED ON 18.04.24& 10.09.24            |
| 14                                            | DIGANTA SAIKIA          | 103921 | 06.02.2024 |                                                                        |
| 15                                            | BIJOY GOGOI             | 104098 | 06.02.2024 | FURTHER MEDICAL EXAMINATION_INTIMATED ON 18.04.24                      |
| 16                                            | GAUTOM DAS              | 201795 | 06.02.2024 |                                                                        |
| 17                                            | ANURAG HATI BORUAH      | 202832 | 06.02.2024 |                                                                        |
| 18                                            | MANAS PROTIM KHANIKOR   | 202873 | 06.02.2024 |                                                                        |
| 19                                            | BINOY KUMAR GOGOI       | 203053 | 06.02.2024 |                                                                        |
| 20                                            | NUMOL MINZ              | 204450 | 06.02.2024 | FURTHER MEDICAL EXAMINATION_INTIMATED ON 18.04.24                      |
| 21                                            | JITU SONOWAL            | 204465 | 06.02.2024 |                                                                        |
| 22                                            | PARTHA PRATIM BORAH     | 204806 | 06.02.2024 |                                                                        |
| 23                                            | RATUL KUMAR BORAH       | 104015 | 07.02.2024 |                                                                        |
| 24                                            | RAM CHANDRA TANTI       | 104114 | 07.02.2024 |                                                                        |
| 25                                            | BITUL SONOWAL           | 201890 | 07.02.2024 | FURTHER MEDICAL EXAMINATION_INTIMATED ON 18.04.24                      |
| 26                                            | MADHUJIYA DUTTA         | 202851 | 07.02.2024 |                                                                        |
| 27                                            | YEM BAHADUR CHETRI      | 202995 | 07.02.2024 |                                                                        |
| 28                                            | PANKAJ PROTIM SAIKIA    | 202997 | 07.02.2024 |                                                                        |
| 29                                            | MUKESH SHAH             | 203916 | 07.02.2024 |                                                                        |
| 30                                            | JADUMONI MECH           | 204380 | 07.02.2024 | FURTHER MEDICAL EXAMINATION_INTIMATED ON 18.04.24                      |
| 31                                            | SHANTANU SAIKIA         | 204807 | 07.02.2024 | FURTHER MEDICAL EXAMINATION_INTIMATED ON 18.04.24                      |
| 32                                            | ANUJ DIBRUAL            | 103536 | 02.04.2024 |                                                                        |
| 33                                            | PUTUL GOGOI             | 104101 | 02.04.2024 | FURTHER MEDICAL EXAMINATION_INTIMATED ON 30.04.24/ 06.06.24            |
| 34                                            | BIBEKANANDA DAS         | 201707 | 02.04.2024 | FURTHER MEDICAL EXAMINATION_INTIMATED ON 30.04.24/ 06.06.24            |
| 35                                            | RAJIB KALITA            | 201758 | 03.04.2024 |                                                                        |
| 36                                            | JITEN SAIKIA            | 202998 | 03.04.2024 |                                                                        |
| 37                                            | HEMANGA SONOWAL         | 203007 | 03.04.2024 |                                                                        |
| 38                                            | GUNESWAR DAS            | 103667 | 04.04.2024 |                                                                        |
| 39                                            | PRONOB CHANDRA DAS      | 103683 | 04.04.2024 |                                                                        |
| 40                                            | MANASH PRATIM GOGOI     | 201779 | 04.04.2024 |                                                                        |
| 41                                            | SANTOSH KUMAR KUMBHAKAR | 201810 | 05.04.2024 |                                                                        |
| 42                                            | BORISH JYOTI NEOG       | 203010 | 05.04.2024 |                                                                        |
| 43                                            | BHAGYAJYOTI SONOWAL     | 203036 | 05.04.2024 |                                                                        |
| 44                                            | BIMAN SONOWAL           | 203043 | 08.04.2024 | FURTHER MEDICAL EXAMINATION_INTIMATED ON 04.05.24/ 06.06.24            |
| 45                                            | KUNAL GOGOI             | 203764 | 08.04.2024 |                                                                        |
| 46                                            | RISHIRAJ SONOWAL        | 204488 | 08.04.2024 | FURTHER MEDICAL EXAMINATION_INTIMATED ON 04.05.24/ 06.06.24 & 10.09.24 |
| 47                                            | MANIK SONOWAL           | 101887 | 09.04.2024 | FURTHER MEDICAL EXAMINATION_INTIMATED ON 04.05.24/ 06.06.24 & 10.09.24 |
| 48                                            | RANJIT CHETIA           | 102801 | 09.04.2024 |                                                                        |
| 49                                            | DHARONI MAHATO          | 201830 | 09.04.2024 |                                                                        |
| 50                                            | DIBYA JYOTI GOGOI       | 202875 | 10.04.2024 |                                                                        |
| 51                                            | ANUP CHETIA             | 202877 | 10.04.2024 | FURTHER MEDICAL EXAMINATION_INTIMATED ON 19.06.24 & 10.09.24           |
| 52                                            | RITUPARNA DAS           | 203032 | 10.04.2024 |                                                                        |
| 53                                            | PALASH GOGOI            | 201893 | 16.04.2024 | FURTHER MEDICAL EXAMINATION_INTIMATED ON 04.05.24/ 06.06.24 & 10.09.24 |

|     |                        |        |                         |                                                              |
|-----|------------------------|--------|-------------------------|--------------------------------------------------------------|
| 54  | FORENJIT GOGOI         | 203699 | 16.04.2024              | FURTHER MEDICAL EXAMINATION_INTIMATED ON 04.05.24            |
| 55  | NIPU CHETIA            | 204378 | 16.04.2024              | FURTHER MEDICAL EXAMINATION_INTIMATED ON 11.05.24 & 10.09.24 |
| 56  | TULESWAR KHANIKAR      | 201728 | 17.04.2024              | FURTHER MEDICAL EXAMINATION_INTIMATED ON 05.07.24            |
| 57  | PURNA BAHADUR SONAR    | 201844 | 17.04.2024              | FURTHER MEDICAL EXAMINATION_INTIMATED ON 04.05.24            |
| 58  | DEBOJIT SONOWAL        | 203016 | 17.04.2024              | FURTHER MEDICAL EXAMINATION_INTIMATED ON 11.05.24 & 10.09.24 |
| 59  | PHANIDHAR MECH         | 102206 | 20.06.2024              | FURTHER MEDICAL EXAMINATION_INTIMATED ON 04.07.24 & 10.09.24 |
| 60  | PARTHA PRATIM GOGOI    | 203024 | 20.06.2024              |                                                              |
| 61  | DIBYAJYOTI HAZARIKA    | 203037 | 20.06.2024              | FURTHER MEDICAL EXAMINATION_INTIMATED ON 13.07.24 & 10.09.24 |
| 62  | JUGEN SAIKIA           | 103565 | 21.06.2024              |                                                              |
| 63  | LAKSHYA JYOTI DIHINGIA | 201759 | 21.06.2024              |                                                              |
| 64  | DIPU BARUAH            | 201772 | 21.06.2024              |                                                              |
| 65  | BUBUL DOHUTIA          | 202016 | 24.06.2024              |                                                              |
| 66  | DIPANKAR BORAH         | 203011 | 24.06.2024              | FURTHER MEDICAL EXAMINATION_INTIMATED ON 12.07.24 & 10.09.24 |
| 67  | CHIRUTAL GOGOI         | 203013 | 24.06.2024              |                                                              |
| 68  | RUPAM BORGHAIN         | 203065 | 25.06.2024              | FURTHER MEDICAL EXAMINATION_INTIMATED ON 04.07.24            |
| 69  | SANJOY GUPTA           | 204274 | 25.06.2024              |                                                              |
| 70  | LAKHYAJYOTI GOHAIN     | 201928 | 25.06.2024              | FURTHER MEDICAL EXAMINATION_INTIMATED ON 04.07.24            |
| 71  | KAMALESWAR DHEKIAL     | 201780 | 26.06.2024              |                                                              |
| 72  | CHANDAN GOGOI          | 203025 | 26.06.2024              |                                                              |
| 73  | NIRANJAN DAS           | 203027 | 26.06.2024              |                                                              |
| 74  | NIRANJAN SAIKIA        | 203030 | 27.06.2024              | FURTHER MEDICAL EXAMINATION_INTIMATED ON 04.07.24            |
| 75  | RANJAN KHANIKAR        | 203051 | 27.06.2024              |                                                              |
| 76  | UTPAL SARMA            | 203682 | 27.06.2024              |                                                              |
| 77  | UTTAM CHANDRA DAS      | 103516 | 01.07.2024              | FURTHER MEDICAL EXAMINATION_INTIMATED ON 06.08.24            |
| 78  | PRANJIT GOGOI          | 104054 | 01.07.2024              | FURTHER MEDICAL EXAMINATION_INTIMATED ON 06.08.24            |
| 79  | DURLOV NARAYAN DAS     | 203772 | 01.07.2024              |                                                              |
| 80  | BHASKAR JYOTI CHETIA   | 201811 | 02.07.2024              |                                                              |
| 81  | SOJIB BORAH            | 203063 | 02.07.2024              |                                                              |
| 82  | SAHIDUJ ZAMAN          | 202874 | 02.07.2024              | FURTHER MEDICAL EXAMINATION_INTIMATED ON 12.07.24            |
| 83  | PRADIP GOGOI           | 103535 | 03.07.2024              |                                                              |
| 84  | ANKUR SAIKIA           | 202994 | 03.07.2024              |                                                              |
| 85  | BHABESH MECH           | 203102 | 03.07.2024              |                                                              |
| 86  | ANIBARN BORUAH         | 202817 | 04.07.2024              |                                                              |
| 87  | RANKU CHANGMAI         | 202872 | 04.07.2024              |                                                              |
| 88  | SURAJ RAJKHOWA         | 203000 | 04.07.2024              |                                                              |
| 89  | DIPANKAR CHETIA        | 203058 | 05.07.2024              |                                                              |
| 90  | MOHENDRA BORAH         | 203108 | 05.07.2024              |                                                              |
| 91  | UZZAL KHANGIA          | 203070 | 05.07.2024              |                                                              |
| 92  | PALLAB JYOTI HAZARIKA  | 201757 | 08.07.2024              | FURTHER MEDICAL EXAMINATION_INTIMATED ON 12.07.24            |
| 93  | UTPAL GOGOI            | 201793 | 08.07.2024              |                                                              |
| 94  | KULJIT MECH            | 203789 | 08.07.2024              | FURTHER MEDICAL EXAMINATION_INTIMATED ON 12.07.24            |
| 95  | DIPANKAR DUTTA         | 201879 | 09.07.2024              |                                                              |
| 96  | DHARENDRA REANG        | 203038 | 09.07.2024              | FURTHER MEDICAL EXAMINATION_INTIMATED ON 12.07.24            |
| 97  | NITUPON ARANDHARA      | 203047 | 10.07.2024              |                                                              |
| 98  | MRIDUL KHANIKAR        | 203048 | 10.07.2024              |                                                              |
| 99  | DEEP JYOTI SONOWAL     | 203033 | 10.07.2024              | FURTHER MEDICAL EXAMINATION_INTIMATED ON 30.07.24            |
| 100 | DILIP GOGOI            | 102795 | 11.07.2024              | FURTHER MEDICAL EXAMINATION_INTIMATED ON 12.07.24            |
| 101 | AJOY GOHAIN            | 201800 | 11.07.2024              | Epilepsy                                                     |
| 102 | CHIRAJ UDDIN ALI       | 202876 | 11.07.2024 + 23.09.2024 |                                                              |
| 103 | SUNIL DAS              | 103689 | 09.07.2024 + 23.09.2024 | ABSENT ON THE SCHEDULED DATE (09.07.2024)                    |
| 104 | PANKAJ SAIKIA          | 201880 | 23.09.2024              |                                                              |

Regards,

**Jyotirmoy Medhi**  
SE-Drilling (HSE)



**FORGING AHEAD WITH HSE TRANSFORMATION**  
**AN HSE & ESG INITIATIVE**



**अस्वीकरण:** इस इलेक्ट्रॉनिक संदेश में निहित जानकारी और इसके साथ कोई भी संलग्नक केवल प्रेषित व्यक्ति (जो) के एकमात्र उपयोग के लिए ही है और इसमें शामिल गोपनीय या विशेषाधिकार प्राप्त जानकारी हो सकती है। यदि आप वांछित प्राप्तकर्ता नहीं हैं, तो आपको इस ई-मेल को प्रसारित, वितरित या कॉपी नहीं करना चाहिए। कृपया इसकी सूचना तुरंत प्रेषक को दें और इस संदेश की सभी प्रतियाँ और सभी संलग्नक नष्ट कर दें। कृपया ध्यान दें कि इस संदेश या किसी

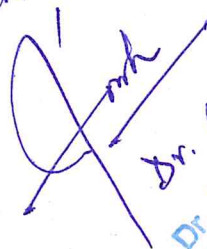
## TO WHOM IT MAY CONCERN

This is to certify that enclosed the IME report (Form-O) of the following employees of Marcantile Associates Drilling section are physically and mentally fit to work effectively.

| SL NO. | NAME                     | DESIGNATION         | BLOOD GROUP |
|--------|--------------------------|---------------------|-------------|
| 1      | KALYANDEEP KHAHLARY      | Rig Manager         | O+          |
| 2      | JATIN KUAMR BARUAH       | Rig Manager         | B+          |
| 3      | MONIRAM SAIKIA           | Tool Pusher         | O+          |
| 4      | DILIP BORGOHAIN          | Tool Pusher         | O+          |
| 5      | BHABEN GOGOI             | Night Tool Pusher   | A+          |
| 6      | HEMONTA SWARGARI         | Night Tool Pusher   | B+          |
| 7      | PUNYA PR. GOGOI          | Driller             | O+          |
| 8      | DEVAKANTA KONWAR         | Driller             | B+          |
| 9      | PRANJAL GOHAIN           | Driller             | O+          |
| 10     | PRANOB JYOTI BORAH       | Driller             | O+          |
| 11     | BIDYUT BIKASH BORAH      | Elect. Engineer     | B+          |
| 12     | BHARAT PHUKAN            | Elect. Engineer     | O+          |
| 13     | PARTHA CHETIA            | Mech. Engineer      | O+          |
| 14     | LALIT GOGOI              | Mech. Engineer      | O+          |
| 15     | DARPON JYOTI GOGOI       | Mud Engineer        | O+          |
| 16     | BULBUL CHAOWDANG         | Mud Engineer        | O+          |
| 17     | LOLIT GOHAIN             | Mud Engineer        | O+          |
| 18     | KRISHNA RAJ BORAH        | Mud Engineer        | A+          |
| 19     | JINTU GOGOI              | HSE Officer         | A+          |
| 20     | PRIYANKU GOGOI           | HSE Officer         | O+          |
| 21     | PLABON PRATIM KONWAR     | Medico              | O+          |
| 22     | NABADIP SONOWAL          | Medico              | B+          |
| 23     | UTTAM GOGOI              | Mechanic ICE        | B+          |
| 24     | PARTHA RANJAN GOGOI      | Mechanic ICE        | O+          |
| 25     | DIPANKAR LAHON           | Mechanic ICE        | O+          |
| 26     | UJJAL SAIKIA             | Mechanic ICE        | O+          |
| 27     | MANDEEP BORUAH           | Asst. Mechanic ICE  | O+          |
| 28     | DIPU BASUMATRI           | Asst. Mechanic ICE  | B+          |
| 29     | SANTANU BORAH            | Asst. Mechanic ICE  | O+          |
| 30     | SHAMOJWAL SINGH          | Asst. Mechanic ICE  | B+          |
| 31     | BIBHUTI RANJAN HAZARIKA  | Mechanic Pump       | B+          |
| 32     | ANANDA CHANGMAI          | Mechanic Pump       | O+          |
| 33     | PANKAJ HAZARIKA          | Mechanic Pump       | B+          |
| 34     | UDOI BHASKAR SADHANIDHAR | Mechanic Pump       | B+          |
| 35     | KALLOL DUTTA             | Asst. Mechanic Pump | B+          |
| 36     | NAYAN JYOTI BORAH        | Asst. Mechanic Pump | B+          |
| 37     | GOBIN PHUKON             | Asst. Mechanic Pump | O+          |

|    |                         |                        |     |
|----|-------------------------|------------------------|-----|
| 38 | BHASKAR JYOTI DEKA      | Asst. Mechanic Pump    | A+  |
| 39 | ABHIJIT SONOWAL         | Rig Electrician        | O+  |
| 40 | BRANJEL SAIKIA          | Rig Electrician        | A+  |
| 41 | MINKU SAIKIA            | Rig Electrician        | A+  |
| 42 | ANKUR HAZARIKA          | Rig Electrician        | A+  |
| 43 | HIROK JYOTI CHANGMAI    | Asst Rig Electrician   | A+  |
| 44 | BIKASH SONOWAL          | Asst Rig Electrician   | O+  |
| 45 | UDIT JYOTI CHUTIA       | Asst Rig Electrician   | O+  |
| 46 | SAMIRON SONOWAL         | Asst Rig Electrician   | B+  |
| 47 | DIPEN CHETIA            | Welder                 | O+  |
| 48 | NUMOL BORAH             | Welder                 | O+  |
| 49 | GYANDEEP GOGOI          | Asst. Driller          | B+  |
| 50 | JIBON JYOTI CHETIA      | Asst. Driller          | B+  |
| 51 | LAJIT MILI              | Asst. Driller          | A+  |
| 52 | NABA PALL BORA          | Asst. Driller          | O+  |
| 53 | PRANJAL PR. BORUAH      | G/ Logger cum S/Washer | A+  |
| 54 | BITUL GOGOI             | G/ Logger cum S/Washer | B+  |
| 55 | HORE KRISHNA PEGU       | G/Logger cum S/Washer  | B+  |
| 56 | ABHIJIT SAIKIA          | G/Logger cum S/Washer  | O+  |
| 57 | BISHU DEBNATH           | Top Man                | B+  |
| 59 | NITUL BORGHAIN          | Top Man                | B+  |
| 59 | KRISHNA K. GOGOI        | Top Man                | O+  |
| 60 | BIPLOB BOSA             | Top Man                | O+  |
| 61 | LAISRAM I. SINGHA       | Top Man                | AB+ |
| 62 | ANANDA DEHINGIA         | Top Man                | B+  |
| 63 | RUPOM GOGOI             | Top Man                | B+  |
| 64 | DWIBEN GOGOI            | Top Man                | O+  |
| 65 | AMIT KUMAR JAI          | Floor Man              | B+  |
| 66 | SANTOSH KUMAR CHOUDHURY | Floor Man              | A+  |
| 67 | ABHIJIT SAIKIA          | Floor Man              | A+  |
| 68 | KAMAKHYA CHOWDANG       | Floor Man              | B+  |
| 69 | DECEMBOR BINJUWAR       | Floor Man              | B+  |
| 70 | PANKAJ KONWAR           | Floor Man              | B+  |
| 71 | LUKEN DEORI             | Floor Man              | B+  |
| 72 | ABHIJIT DEKA            | Floor Man              | A+  |
| 73 | BIKASH KONWAR           | Floor Man              | O+  |
| 74 | DIPJYOTI CHANGMAI       | Floor Man              | O+  |
| 75 | KAILYAN HANDIQUE        | Floor Man              | A+  |
| 76 | ADITYA KUMAR BORUAH     | Floor Man              | A+  |
| 77 | PRANJAL BHUYAN          | Floor Man              | O+  |
| 78 | PROMUD PHUKON           | Floor Man              | O+  |
| 79 | BHASKARJYOTI GOGOI      | Floor Man              | A+  |
| 80 | BIKASH BORAH            | Floor Man              | O+  |
| 81 | TUSHAR DEKA             | Floor Man              | B+  |
| 82 | ABINASH GOGOI           | Floor Man              | AB+ |

|    |                    |             |    |
|----|--------------------|-------------|----|
| 83 | TOPON GOGOI        | Floor Man   | A+ |
| 84 | KUNDON BINJUWAR    | Floor Man   | O+ |
| 85 | HIREN NEOG         | Floor Man   | O+ |
| 86 | NIPON CHETIA       | Floor Man   | O+ |
| 87 | DEEPJYOTI GOGOI    | Floor Man   | O+ |
| 88 | MONUJ GOGOI        | Floor Man   | A+ |
| 89 | ANIRBAN BURAGOHAIN | HSE Trainee | B+ |
| 90 | UTPAL MORAN        | HELPER      | O+ |

  
  
 Dr. A. K. Sharma  
 MBBS, MD (PMR), New Delhi  
 Regd. No. 2658

RECORD OF EMPLOYEES' IME/PME, RIG S-6, E-1400

| SL NO | NAME                  | DESIGNATION | B-FORM NO | DATE OF IME/PME |
|-------|-----------------------|-------------|-----------|-----------------|
| 1     | RABIN BORAH           | RIGMAN      | 132       | 06.07.2022      |
| 2     | RANTU RANJAN KHANIKAR | RIGMAN      | 71        | 07.07.2022      |
| 3     | TILAK CHETIA          | RIGMAN      | 119       | 07.07.2022      |
| 4     | PUSHPA DEORI          | RIGMAN      | 47        | 07.07.2022      |
| 5     | UTPAL KALITA          | RIGMAN      | 93        | 06.07.2022      |
| 6     | BITUL GOGOI           | RIGMAN      | 146       | 06.07.2022      |
| 7     | DIGANTA GOGOI         | RIGMAN      | 106       | 07.07.2022      |
| 8     | SHANKAR SAIKIA        | RIGMAN      | 69        | 06.07.2022      |
| 9     | ARABINDA BORAH        | RIGMAN      | 54        | 07.07.2022      |
| 10    | KUSHAL PATOR          | RIGMAN      | 104       | 08.07.2022      |

Bh  
(B. BHUYAN)  
IM. S-6

Sanifshil  
HSE officer  
S-6

U. S. S.  
(Bisnu Nath Sanyal)  
Rig Supt.  
S-6

# EMPLOYEES' IME/PME CERTIFICATES' RECORD

RIG S-6, E-1400

| SL NO | NAME                   | DESIGNATION  | B-FORM NO | DATE OF IME/PME |
|-------|------------------------|--------------|-----------|-----------------|
| 1     | BISWANATH GOGOI        | RIG SUPDT.   | 65        | 08.07.2022      |
| 2     | NABIN BORAH            | RIG SUPDT.   | 02        | 06.07.2022      |
| 3     | BISHNU PRASAD HAZARIKA | TOOL PUSHER  | 175       | 08.07.2022      |
| 4     | DEBANANDA TAMULY       | TOOL PUSHER  | 153       | 08.07.2022      |
| 5     | NAVARANJAN SONOWAL     | NTP          | 04        | 07.07.2022      |
| 6     | CHINTU GOGOI           | NTP          | 154       | 07.07.2022      |
| 7     | SUNIL SHIL             | HSEO         | 131       | 07.07.2022      |
| 8     | LAKSHYAJIT DUTTA       | HSEO         | 228       | 08.07.2022      |
| 9     | PRATAP BARUAH          | MECH.ENGR.   | 266       | 25.10.2022      |
| 10    | RPANKAJ HAZARIKA       | MECH. ENGR.  | 279       | 06.07.2022      |
| 11    | ANUJ KUMAR BORKAKOTY   | ELECT.ENGR.  | 61        | 06.07.2022      |
| 12    | BIBHUTI CH SAIKIA      | ELECT. ENGR. | 14        | 08.07.2022      |
| 13    | PRANAB KUMAR BARUAH    | MEDICO       | 08        | 06.07.2022      |
| 14    | SANJIV BARUAH          | MEDICO       | 99        | 07.07.2022      |
| 15    | GAKUL PATRA            | DRILLER      | 156       | 08.07.2022      |
| 16    | ACHYUT GOGOI           | DRILLER      | 273       | 24.05.2022      |
| 17    | SURAJIT SINGHA         | DRILLER      | 243       | 25.10.2022      |
| 18    | PRABIN BORAH           | DRILLER      | 05        | 06.07.2022      |
| 19    | ANKUR GOGOI            | MUD ENGR.    | 144       | 06.07.2022      |
| 20    | ANKUR DAS              | MUD ENGR.    | 231       | 25.10.2022      |
| 21    | ANUPAM GOGOI           | MUD ENGR.    | 105       | 07.07.2022      |
| 22    | MANASH BORKOTOKY       | MUD ENGR.    | 238       | 25.10.2022      |
| 23    | ASHOK KALITA           | ASST.DRILLER | 10        | 08.07.2022      |
| 24    | LAXMI NANDAN BARUAH    | ASST.DRILLER | 100       | 07.07.2022      |
| 25    | SUBHAN SAIKIA          | ASST.DRILLER | 19        | 07.07.2022      |
| 26    | BIRAJ GOGOI            | ASST.DRILLER | 20        | 07.07.2022      |
| 27    | PAPU GOGOI             | TOPMAN       | 09        | 06.07.2022      |
| 28    | PUTUL DAS              | TOPMAN       | 07        | 07.07.2022      |
| 29    | DHARANI HAZARIKA       | TOPMAN       | 03        | 07.07.2022      |
| 30    | RANJIT PHUKAN          | TOPMAN       | 81        | 07.07.2022      |
| 31    | RUPOM GOGOI            | TOPMAN       | 23        | 06.07.2022      |
| 32    | RITESWAR PHUKAN        | TOPMAN       | 53        | 06.07.2022      |
| 33    | BIPUL SAIKIA           | TOPMAN       | 25        | 07.07.2022      |
| 34    | TULAN KHANIKAR         | TOPMAN       | 21        | 07.07.2022      |

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(B. BHUYAN) IM. S-6

# RECORD OF EMPLOYEES' IME/PME, RIG S-6, E-1400

| SL NO. | NAME                  | DESIGNATION | B-FORM NO | DATE OF IME/PME |
|--------|-----------------------|-------------|-----------|-----------------|
| 1.     | JATIN PHUKAN          | RIGMAN      | 237       | 25.10.2022      |
| 2.     | JIBANTA GOGOI         | RIGMAN      | 26        | 06.07.2022      |
| 3.     | RAKESH DUTTA          | RIGMAN      | 12        | 06.07.2022      |
| 4.     | BIPLAB TAIRAI         | RIGMAN      | 275       | 21.08.2024      |
| 5.     | NIREN TANTI           | RIGMAN      | 48        | 06.07.2022      |
| 6.     | BHUSHAN GOGOI         | RIGMAN      | 240       | 07.07.2022      |
| 7.     | HIRAK JYOTI MORAN     | RIGMAN      | 115       | 07.07.2022      |
| 8.     | BIPUL KHANIKAR        | RIGMAN      | 114       | 07.07.2022      |
| 9.     | ANURUP KAKATY         | RIGMAN      | 110       | 07.07.2022      |
| 10.    | PRANJAL HAZARIKA      | RIGMAN      | 118       | 04.02.2021      |
| 11.    | ACHYUT BARUAH         | RIGMAN      | 165       | 06.07.2022      |
| 12.    | HEMANTA KONWER        | RIGMAN      | 94        | 06.07.2022      |
| 13.    | PURBAJYOTI KONWER     | RIGMAN      | 41        | 06.07.2022      |
| 14.    | DIPTARANJAN S BORUAH  | ELECTRICIAN | 50        | 07.07.2022      |
| 15.    | SUSHANTA BHUYAN       | ELECTRICIAN | 140       | 06.07.2022      |
| 16.    | JOY KUMAR SAIKIA      | ELECTRICIAN | 37        | 06.07.2022      |
| 17.    | INDRAJIT GOGOI        | ELECTRICIAN | 265       | 25.10.2022      |
| 18.    | NITUMONI DUTTA        | ASST.ELECT  | 218       | 06.07.2022      |
| 19.    | HIRAKJYOTI CHETIA     | ASST.ELECT  | 185       | 06.07.2022      |
| 20.    | UMESH MOHAN           | ICE MECH.   | 30        | 06.07.2022      |
| 21.    | JAYANTA DAS           | ICE MECH.   | 32        | 06.07.2022      |
| 22.    | TAPAN GOGOI           | ICE MECH.   | 141       | 07.07.2022      |
| 23.    | BISWAJIT BORAH        | ASST. ICE   | 57        | 06.07.2022      |
| 24.    | UTTAM GOGOI           | ASST. ICE   | 216       | 06.07.2022      |
| 25.    | MANASH JYOTI BORDOLOI | ASST. ICE   | 236       | 25.10.2022      |
| 26.    | NILKAMAL BORAH        | ASST. ICE   | 213       | 25.10.2022      |
| 27.    | PABITRA GOGOI         | PUMP MECH.  | 113       | 06.07.2022      |
| 28.    | PRANJAL DUTTA         | PUMP MECH.  | 82        | 07.07.2022      |
| 29.    | DIMPAL SAIKIA         | PUMP MECH.  | 108       | 06.07.2022      |
| 30.    | ABHIJIT BORAH         | ASST. PUMP  | 272       | 06.07.2022      |
| 31.    | RITUL DUTTA           | ASST. PUMP  | 235       | 25.10.2022      |
| 32.    | KALPAJYOTI GOGOI      | GAS LOGGER  | 278       | 06.07.2022      |
| 33.    | PRIYABRAT KASHYAP     | GAS LOGGER  | 264       | 25.10.2022      |
| 34.    | PABITRA KHANIKAR      | GAS LOGGER  | 107       | 07.07.2022      |
| 35.    | DEEPIYOTI BARUAH      | GAS LOGGER  | 136       | 07.07.2022      |
| 36.    | RUPOK MAL             | WELDER      | 72        | 06.07.2022      |
| 37.    | PRADEEP BORAH         | WELDER      | 43        | 07.07.2022      |
| 38.    | JATIN KONWER          | HELPER      | 232       | 25.10.2022      |
| 39.    | SIMANTA SAIKIA        | HELPER      | 219       | 25.10.2022      |
| 40.    | BHOBESH CHUTIA        | HELPER      | 149       | 25.10.2022      |
| 41.    | MANABJYOTI PHUKAN     | HELPER      | 212       | 25.10.2022      |
| 42.    | BIJAY CHABUKDHARA     | CRANE OPT.  | 13        | 06.07.2022      |
| 43.    | BINOD CHABUKDHARA     | CRANE OPT.  | 60        | 06.07.2022      |

BR  
(BEDABRATA BHUYAN)  
IM. S-6

Sampal  
HSE  
S-6

THE SENTINEL WEDNESDAY 27 SEPTEMBER 2023 DIBRUGARH



**ऑयल इंडिया लिमिटेड**  
(भारत सरकार का उद्यम)  
**Oil India Limited**  
(A Government of India Enterprise)



**P.O. Dullajan - 786602, Assam, India. CIN: L11101AS1959GOI001148**

The Ministry of Environment, Forest and Climate Change (MoEF&CC) has accorded Environmental Clearance for Onshore Oil & Gas development drilling and production against the proposal No. IA/AS/IND2/246799/2018 under the provisions of EIA Notification, 2006.

The copy of Environmental Clearance, F.No.J-11011/546/2017-IA(I) dated 20.09.2023 is available for reference with Pollution Control Board, Assam (PCBA) and may also be seen at the website of MoEF&CC at <https://parivesh.nic.in/>.

**Nodal Officer EC/FC/NBWL, Oil India Limited**

**Tinsukia, Wednesday, September 27, 2023**

**দৈনিক জনমভূমি :**

তিনিচুকীয়া, বুধবাৰ, ৯ আহিন, ১৯৪৫ শক



**ऑयल इंडिया लिमिटेड**  
(भारत सरकार का उद्यम)  
**Oil India Limited**  
(A Government of India Enterprise)



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**Nodal Officer EC/FC/NBWL, Oil India Limited**

**ANNEXURE - A****ENVIRONMENT MANAGEMENT CELL OF OIL INDIA LIMITED – FHQ, DULIAJAN**

| <b>S.No</b> | <b>NAME</b>                   | <b>DESIGNATION</b>                    | <b>QUALIFICATION</b>                                                                      |
|-------------|-------------------------------|---------------------------------------|-------------------------------------------------------------------------------------------|
| 1.          | Sri. Rupam Jyoti Sutradhar    | Deputy General Manager (HSE)          | B.Sc (Chemistry), M.Sc (Chemistry)                                                        |
| 2.          | Sri. Swapnanil Kakaty         | Deputy Chief Engineer (HSE)           | B.E (Electrical Engineering)                                                              |
| 3.          | Sri. Sachin Kumar Verma       | Superintending Engineer (HSE)         | B.Tech (Environmental Engineering)                                                        |
| 4.          | Sri. Akash Neel Das           | Superintending Engineer (HSE)         | B.E (Mechanical Engineering), PG Diploma (Fire & Safety Management), PGDM                 |
| 5.          | Sri. Bantupalli Sai Venkatesh | Superintending Engineer (Environment) | B.E (Civil Engineering), M.Tech (Environmental Engineering)                               |
| 6.          | Sri. Jiban Jytoti Das         | Superintending Engineer (Environment) | B.Tech (Computer Science and Engineering), M.Tech (Environment Engineering and Managment) |
| 7.          | Sri. Vinay Yadav              | Senior Officer (HSE)                  | B.E (Civil Engineering), M.Tech (Environmental Engineering)                               |
| 8.          | Sri. Mohit Yadav              | Senior Officer (HSE)                  | B.Tech (Civil Engineering), M.Tech (Environmental Engineering)                            |



**Common Environment Management Plan for Onshore Oil & Gas**  
**Drilling Activity**



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| 6.0  | <b>Summary and Conclusion</b>                             |

## **1.0 INTRODUCTION:**

OIL INDIA LIMITED (OIL), a Government of India Maharatna Enterprise, is currently engaged in carrying out hydrocarbon exploration and production activities mostly in its operational areas in Upper Assam, Arunachal Pradesh and Mizoram in the North Eastern part of India. OIL is also undertaking hydrocarbon exploration activities in few Indian states and few overseas countries. Oil India Limited was incorporated on 18<sup>th</sup> February 1959 to expand and develop the newly discovered oil fields of Naharkatia and Moran in the Indian North East. In 1961, it became a joint venture company between the Indian Government and Burmah Oil Company Limited, UK. In 1981, OIL became a wholly owned Government of India enterprise. Today, OIL is a premier Indian National Oil Company engaged in the business of exploration, development and production of crude oil and natural gas, transportation of crude oil and production of LPG.

Govt. of India and Assam has awarded Petroleum Mining Leases (PML) to OIL for exploration and development of oil & gas at Dibrugarh, Chabua, Tinsukia, Hugrujan, Naharkatiya Extn, Dholiya and Dumduma areas including the adjoining areas in Dibrugarh, Tinsukia and Sibsagar Districts.

## **2.0 Environmental Management Plan**

This Environmental Management Plan and Monitoring Framework is a site-specific document for the drilling activities that have been developed to ensure that OIL can implement the project in an environmentally conscious manner and where all contractors, understand the potential environmental risks arising out of the proposed project and take appropriate actions to properly manage such risk.

This EMP will be an overview document that will guide environmental management of all aspects of OIL's activities i.e. construction and operation of drilling wells. This EMP will be backed up by more specific Environmental Action Plans, Procedures and Bridging Documents.

The EMP describes the actions to be adopted in terms of:

- National Policies and Regulations;
- Best Practices and guides; and
- Local Environmental and Social Sensitivities.

**The Environment Policy of OIL is presented below.**



### 3.0 IMPACT ASSESSMENT

The potential impacts arising due to the construction and operation of the drilling activities are given below:

**3.1 Air Quality:** The operation of DG/GG sets, movement of vehicles and machineries during construction and drilling at drill sites will result in the generation of air pollutants viz. PM, NO<sub>x</sub> and SO<sub>x</sub> that may affect the ambient air quality temporarily. Air pollutants like particulate matter, hydrocarbons and NO<sub>x</sub> will also be generated during drilling operations.

**3.2 Noise Quality:** Operation of heavy machinery/equipments and vehicular movement during site preparatory and road strengthening/construction activities may result in the generation of increased noise levels. Operational phase noise impacts are anticipated from the running of drilling rig and ancillary equipment viz. shale shakers, mud pumps and diesel generators, gas generators.

**3.3 Soil Quality:** Stripping of top soil will affect the soil fertility of the well sites temporarily. Potential adverse impacts on soil quality may also result from improper storage and handling of fuel, lubricants, drilling mud and drill cuttings.

**3.4 Water Quality and Hydrogeology:** All wastewater discharged from the drilling operations will be treated in the ETP and discharges will conform to CPCB standards. As the volume of water to be discharged is small, it is anticipated to cause minor increase in pollution load for specific parameters in receiving water bodies. Uncontrolled surface runoff from the drill sites may compose of waste fluids or storm water mixed with oil and grease and may pollute the surface water quality. However, the surface runoff will be treated with sedimentation tank and oil water separator at site.

#### **3.5 Biological Environment:**

The existing vegetation at the proposed drill sites, approach roads and RoU of the pipeline will be felled for site development. Noise generated from drilling operations and vehicular movement within the drill sites and approach roads may affect the reptiles, birds and mammals adversely and may result in their moving away from the project area for a temporary period. OIL will obtain Forest Clearance from MoEF&CC for drilling within the forestlands; all the conditions mentioned in the forest clearance would be complied. Surface runoff from the drill sites contaminated with sediment, may reach surface water channels and increase the suspended solids load of the channel water. Increase of suspended solid will increase the turbidity of river water that ultimately will adversely affect the DO level in the water. The turbid water and lower DO may affect the primary productivity of the impacted areas of the rivers. The process effluent will be adequately treated in the ETP to meet the industrial effluent discharge standards. The discharge of treated effluent is not expected to cause perceptible changes in the water quality of the receiving stream.

**3.6 Socio-Economic Environment:** Approximately 3 ha. land would be required for each well. Land will be purchased from local communities however; no physical displacement during land procurement is anticipated. Additionally, land will also be procured for construction of 100-200 m approach road to the drill site from existing roads. Anticipated number of families directly impacted would be limited to 2-5 nos. for each of the drill sites. The dependency of the landowner in case of generation of livelihood is limited as the land is classified as monocropped agricultural land.

OIL/its contractors would endeavour to provide maximum employment to the local people; however, certain percentage of semi-skilled and highly skilled migrant labour would be used by contractors for manning technical activities. It is anticipated that occasional conflicts would arise with the local community over the recruitment of migrant workers. Discomfort due to dust and noise to adjoining communities, influx of people are likely to occur.

The construction phase of the project is likely to generate both direct and indirect opportunities for employment. The estimated direct employment would be approximately 50 un-skilled workers during the peak construction phase that will primarily sourced from nearby areas. Indirect employment would be primarily in the supply chain as vendors, which are anticipated to be set up to support the construction.

**3.7 Impact on Community Health & Safety:**Community health and safety of inhabitants residing close to the proposed well sites stand to get affected from frequent heavy vehicular movements along village access roads and due to noise from drilling rig operations, movement of heavy vehicles during construction etc.

## **4.0 DETAIL ENVIRONMENTAL MANAGEMENT PLAN**

### **4.1 Air Quality Management Plan**

- Vehicles delivering raw materials like fine aggregates will be covered to prevent fugitive emissions.
- Sprinkling of water on earthworks, material haulage and transportation routes on a regular basis during construction and decommissioning phase of the wells.
- Flare stacks of adequate height would be provided.
- DG/GG set stacks would have adequate height, as per statutory requirements, to be able to adequately disperse exhaust gases
- Periodic monitoring of DG/GG set stack emission will be carried out in accordance with the Environmental Monitoring Plan to assess compliance with CPCB DG set exhaust standards.

### **4.2 Noise Management Plan**

- Selection and use of low noise generating equipment with in-built engineering controls viz. mufflers, silencers, etc.
- All DG/GG sets would be provided with acoustic enclosures.
- Appropriate PPEs (e.g. ear plugs) will be used for by workers while working near high noise generating equipment.
- All vehicles utilized in transportation of raw materials and personnel will have valid Pollution under Control Certificates (PUC).
- All high noise generating equipment will be identified and subjected to periodic preventive maintenance.
- No night time operation of vehicles and construction activities will be undertaken.

### **4.3 Soil Quality Management Plan**

- Drip trays to be used during vehicular/equipment maintenance and during re-fuelling operations.
- Spill kits will be made available at all fuel and lubricant storage areas. All spills/leaks contained, reported and cleaned up immediately.
- Dedicated paved storage area will be identified for the drilling chemicals, fuel, lubricants and oils within the drill sites.
- 1.5 mm HDPE lined pits will be considered for the disposal of unusable drilling mud cuttings and drilling wastewater etc.

### **4.4 Surface Water Quality Management Plan**

- Levelling and grading operations will be undertaken with minimal disturbance to the existing site contours thereby maintaining the general slope and topographical profile of the site.
- During site preparation and construction, surface water run-off will be channelized through appropriately designed drainage system.
- Sediment filters and oil-water separators will be installed to intercept run-off and remove sediment before it enters water courses.
- Domestic wastewater generated from drill sites will be treated through septic tank and soak pit system and then discharged.
- Process wastewater would be treated in Effluent Treatment Plant (ETP) at drill sites.

### **4.5 Ground Water Quality Management Plan**

- Water based mud would be used as a drilling fluid for the proposed project.
- Eco-friendly synthetic based mud if required for deeper sections, will be used after providing intimation to the Pollution Control Board;
- The drill cutting along with spent mud will be stored in HDPE lined pit.

### **4.6 Waste Management Plan**

- Use of low toxicity chemicals for the preparation of drilling fluid.
- Management of drill cuttings, waste drilling mud, waste oil and domestic waste, wastewater in accordance with Standards for Emission or Discharge of Environmental Pollutants from Oil Drilling and Gas Extraction Industry of CPCB as modified in 2005.
- The hazardous waste (waste and used oil) will be managed in accordance with Hazardous Waste (Management, Handling & Transboundary Movement) Rules, 2016.
- The kitchen waste will be disposed in nearest municipal/village dumping site on a daily basis through approved waste handling contractors.
- The sewage generated will be treated through septic tank and soak pit system.
- Used batteries will be recycled through the vendors supplying lead acid batteries as required under the Batteries (Management & Handling) Rules, 2001.
- The drilling cuttings pit will be bunded and kept covered using tarpaulin sheets during monsoon.

#### **4.7 Wildlife Management Plan**

- Movement of heavy vehicles will be restricted at night time, especially if access roads pass through forest areas, as most of the mammals movement occurs during night;
- Noise levels at the drill sites will be controlled through selection of low noise generating equipment and installation of sufficient engineering controls viz. mufflers, silencers etc.
- No temporary electric supply connection line from the grid will be laid for the proposed project activity. All electric requirements will be supplied from the internal DG sets.
- OIL will have to take Forest Clearance from MoEFCC for development of drill sites, access roads and laying of pipeline within forest areas.

#### **4.8 Road Safety & Traffic Management Plan**

- The condition of roads and bridges identified for movement of vehicles and drilling rig will be assessed and if required strengthened by OIL to ensure their safe movement.
- Precautions will be taken by the contractor to avoid damage to the public access routes including highways during vehicular movement.
- Traffic flows will be scheduled wherever practicable during period of increased commuter movement.

#### **4.9 Occupation Health & Safety Management Plan**

- All machines to be used in the construction will conform to the relevant Indian Standards (IS) codes, will be kept in good working order, will be regularly inspected and properly maintained as per IS provisions and to the satisfaction of the site Engineer.
- Hazardous and risky areas, installations, materials, safety measures, emergency exits, etc. shall be appropriately marked.

#### **4.10 Management of Social issues and concerns**

- People from adjoining areas especially given job preference through local contractors according to the skill sets possessed.
- Prior to the commencement of the proposed activity, a consultation program will be conducted by OIL with the target groups and local authorities. The primary objective of such consultation will be to share with the concerned villagers/stakeholders the objective of the proposed project associated impacts and their mitigation.
- OIL will give more emphasis and priority on periphery development, development of health facilities and provision for drinking water facility as per Corporate Social Responsibility (CSR) Plan.
- The drill sites would be fenced and gates would be constructed so that the children are refrained from straying into the site.

#### **4.11 Emergency Response Plan**

- Drilling rig and related equipment to be used for drilling will be conformed to international standards specified for such equipment.
- Blow-out preventers and related well control equipment shall be installed, operated, maintained and tested generally in accordance with internationally recognized standards.
- Appropriate gas and leak detection system will be made available at each of the drill sites.
- Adequate fire-fighting equipment shall be provided at each drilling site.

The environmental mitigation measures and plans are presented in form of a matrix according to the sequential flow of activities in the project life cycle. The matrix focuses on strategies to be adopted for safe guard of the environment from possible impacts resulting out of the project activities. The strategies have further been detailed out as management procedures and programmes in subsequent sections.

The EMP helps establish the linkage between the activities environmental impacts and mitigation measures and presents the monitoring framework i.e. the Environmental Performance Indicator (EPI) No. as well as the Environmental Quality Indicator (EQI).

## 5.0 Environment Management Matrix

| S No | Activity                                                  | Ref | Aspect                                                                             | Impact                                                                           | Mitigation Measures                                                                                                                                                                                         | Monitoring                                     | Timing/ Frequency      | Responsible Party | Related Plans                                                   |
|------|-----------------------------------------------------------|-----|------------------------------------------------------------------------------------|----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------|------------------------|-------------------|-----------------------------------------------------------------|
| 1.   | Physical Presence of drill site, rig and other machinery. | 1.1 | Change in visual characteristics of the area due to installation of drilling setup | Temporary change in landscape                                                    | On completion of works (in phases) all temporary structures, surplus materials and wastes will be completely removed. Only structure required for safety purposes would be retained on the bare drill site. | Site Inspection                                | Construction &Drilling | OIL/Contractor    | Waste Management Plan                                           |
|      |                                                           | 1.2 | Increase of illumination at night time due to installation of drilling setup       | Temporary disturbance of the nearby villagers                                    | Appropriate shading of lights to prevent scattering                                                                                                                                                         | Grievance records/ Consultation with Villagers | Construction &Drilling | OIL/Contractor    | Management of social issues & concerns                          |
|      |                                                           | 1.3 | Influx of man power & immigrant labour force to nearby villages                    | Possibility Cultural and behavioural conflict                                    | Preference used of local labour forces to the extent possible                                                                                                                                               | Grievance records                              | Construction &Drilling | OIL/Contractor    | Management of social issues & concerns                          |
| 2.   | Storage & Handling of Materials & Spoils                  | 2.1 | Emission of fugitive dust from loading & unloading operation                       | Temporary impact on air quality especially SPM                                   | All loading and unloading activities to be carried out as close as possible to the storage facilities.                                                                                                      | Site Inspection                                | Construction &Drilling | OIL/Contractor    | Air Quality Management                                          |
|      |                                                           | 2.2 | Accidental spillage of oil & chemicals                                             | Potential contamination surface water body resulting impact on aquatic ecosystem | All spills to be reported and contained to prevent entry of spilled chemicals/fuels to any surface water body or drainage channel                                                                           | Records of spills/Community Grievances         | Construction &Drilling | OIL/Contractor    | Surface water quality management plan, Wildlife Management Plan |
|      |                                                           |     |                                                                                    | Potential impact on soil quality                                                 | All spills to be reported and remedial measures to be taken for clean-up of the spill.                                                                                                                      | Records of Spills/Site Inspection              | Construction &Drilling | OIL/Contractor    | Spill management plan                                           |

| S No | Activity                                                 | Ref | Aspect                                                                                               | Impact                                                                                              | Mitigation Measures                                                                                                                                                                                                                                                                                                                                                                 | Monitoring                         | Timing/ Frequency       | Responsible Party | Related Plans                     |
|------|----------------------------------------------------------|-----|------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------|-------------------------|-------------------|-----------------------------------|
| 3.   | Transport of Materials, Spoils and Machinery             | 3.1 | Emission of gaseous pollutants from vehicle during transportation of materials, spoils and machinery | Temporary deterioration on air quality along transport route                                        | <p>All diesel-powered equipment will be regularly maintained and idling time reduced to minimise emissions;</p> <p>Vehicle / equipment air emissions will be controlled by good practice procedures (such as turning off equipment when not in use);</p> <p>Vehicle / equipment exhausts observed emitting significant black smoke in their exhausts will be serviced/ replaced</p> | Records and Site Inspection        | Construction & Drilling | OIL/Contractor    | Air Quality Management plan       |
|      |                                                          | 3.2 | Noise emission during transport of materials, spoils and machinery                                   | Temporary deterioration in ambient noise along the transportation route                             | <p>Undertake preventive maintenance of vehicles and machinery to reduce noise levels.</p> <p>Restriction on unnecessary use of horns by trucks and vehicle in settlement area</p>                                                                                                                                                                                                   | Site Inspection/Records of repairs | Construction & Drilling | OIL/Contractor    | Noise Quality Management Plan     |
| 4.   | Operation & maintenance of rig and associated machinery. | 4.1 | Emission of air pollutant from DG/GG sets                                                            | Temporary impact on air quality due to increase in concentration of gaseous pollutants e.g. NOx, HC | Preventive maintenance of DG sets to be undertaken as per manufacturers schedule                                                                                                                                                                                                                                                                                                    | Site Inspection/Records of repairs | Drilling                | OIL/Contractor    | Air Quality Management plan       |
|      |                                                          | 4.2 | Emission of Noise from DG/GG sets                                                                    | Temporary increase of ambient as well as                                                            | All workers working near high noise generating equipment to be provided                                                                                                                                                                                                                                                                                                             | Recording of Noise                 | Drilling                | OIL/Contractor    | Noise Quality Management Plan and |

| S No | Activity | Ref | Aspect                                                 | Impact                                                         | Mitigation Measures                                                                                                                                                                                                          | Monitoring                  | Timing/ Frequency       | Responsible Party | Related Plans                                                                  |
|------|----------|-----|--------------------------------------------------------|----------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|-------------------------|-------------------|--------------------------------------------------------------------------------|
|      |          |     |                                                        | work place noise level                                         | <p>with Personal Protective equipment</p> <p>Preventive maintenance of machinery to be undertaken as per manufacturers schedule</p> <p>Install sufficient engineering control (mufflers) to reduce noise level at source</p> |                             |                         |                   | Occupational Health & Safety Management Plan                                   |
|      |          | 4.3 | Emission of noise from operation of the rig            | Temporary increase of ambient as well a work place noise level | <p>All workers working near high noise generating equipment to be provided with Personal Protective equipment</p> <p>Preventive maintenance of machinery to be undertaken as per manufacturers schedule</p>                  | Site Inspection             | Drilling of Wells       | OIL/Contractor    | Noise Quality Management Plan and Occupational Health & Safety Management Plan |
|      |          | 4.4 | Abstraction of ground water for project usage          | Depletion of ground water resources                            | Optimize use of water during drilling operations                                                                                                                                                                             | Record Keeping and Auditing | Construction & Drilling | OIL/Contractor    | None                                                                           |
|      |          | 4.5 | Noise from mud pump during preparation of drilling mud | Temporary increase of ambient & work place noise level         | Preventive maintenance of machinery to be undertaken as per manufacturers schedule                                                                                                                                           | Recording of Noise          | Drilling of Wells       | OIL/Contractor    | Noise Quality Management Plan and Occupational Health & Safety Management      |

| S No | Activity                            | Ref | Aspect                                                        | Impact                                                                 | Mitigation Measures                                                                                        | Monitoring                         | Timing/ Frequency      | Responsible Party | Related Plans                         |
|------|-------------------------------------|-----|---------------------------------------------------------------|------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|------------------------------------|------------------------|-------------------|---------------------------------------|
|      |                                     |     |                                                               |                                                                        | All workers working near high noise generating equipment to be provided with Personal Protective equipment |                                    |                        |                   | Plan                                  |
|      |                                     | 4.6 | Accidental spillage of chemicals during preparation drill mud | Contamination of soil resulting loss of soil living organism           | Manage spills of contaminants on soil                                                                      | Records of spills                  | Drilling of Wells      | OIL/Contractor    | Spill Management plan                 |
|      |                                     | 4.7 | Accidental spillage of chemicals during preparation drill mud | Potential impact on surface water quality and aquatic ecosystem        | All spill to be contained so that it does not reach any surface water body or drainage channels            | Records of spills                  | Drilling of Wells      | OIL/Contractor    | Surface water quality management plan |
| 5.   | Operation & maintenance of Vehicles | 5.1 | Emission of Noise from vehicles                               | Temporary increase of noise level in areas abutting transport route    | Preventive maintenance of vehicles to be undertaken as and when required                                   | Maintenance Records                | Construction &Drilling | OIL/Contractor    | Noise quality management plan         |
|      |                                     | 5.2 | Emission of gaseous air pollutant from vehicles               | Temporary deterioration air quality in areas abutting transport routes | Preventive maintenance of vehicles to be undertaken as and when required                                   | Site Inspection/Records of repairs | Construction &Drilling | OIL/Contractor    | Air quality management plan           |
|      |                                     | 5.3 | Spillage of fuels & lubricants from vehicles                  | Contamination of soil resulting loss of soil living organism           | Adopt best practices e.g. use pumps and dispensing nozzle for transfer of fuel, use of drip trays. Etc.    | Site Inspections/Audits            | Construction &Drilling | OIL/Contractor    | Spill Management plan                 |
|      |                                     |     |                                                               | Impact on surface water quality and                                    | The drainage system on site to be provided with Sedimentation tank and Oil-                                | Site Inspection/Audits             | Drilling               | OIL/Contractor    | Surface water quality management      |

| S No | Activity                                                | Ref | Aspect                                                                                                                 | Impact                                                | Mitigation Measures                                                                                                                                                                                                                                    | Monitoring                          | Timing/ Frequency                   | Responsible Party | Related Plans                                                   |
|------|---------------------------------------------------------|-----|------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|-------------------------------------|-------------------|-----------------------------------------------------------------|
|      |                                                         |     |                                                                                                                        | aquatic ecosystem                                     | water Separator to prevent contamination especially oil and grease from being carried off by runoff.                                                                                                                                                   |                                     |                                     |                   | plan and Spill Management plan                                  |
| 6.   | Casing & cementing of well                              | 6.1 | Noise from machinery during preparation of cement slurry                                                               | Temporary increase of ambient noise level             | Install sufficient engineering control on equipment and machineries (like mufflers in DG sets) to reduce noise and vibration emission levels at source, carry out proper maintenance and subject them to rigid noise and vibration control procedures. | Site Inspection                     | Drilling of Wells                   | OIL/Contractor    | Noise quality management plan                                   |
|      |                                                         | 6.2 | Loss of drilling mud and cement slurry during casing of well                                                           | Potential contamination of ground water aquifer       | Proper engineering controls during cementing operation to prevent migration of drilling mud and cement slurry into ground water aquifer                                                                                                                | Site Inspection                     | Drilling of Wells                   | OIL/Contractor    | Ground water quality management plan                            |
| 7.   | Temporary storage, handling & disposal of process waste | 7.1 | Accidental spillage of process waste (unused cement slurry, return mud & drill cuttings) at the temporary storage site | Potential for contamination of soil and ground water  | Proper engineering controls for the drilling and cementing operations;                                                                                                                                                                                 | Drilling and Decommissioning Phases | Drilling and Decommissioning Phases | OIL/Contractor    | Ground water quality management plan                            |
|      |                                                         | 7.2 | Surface runoff from temporary storage site of drill cuttings & unused mud into surface water bodies                    | Impact on surface water quality and aquatic ecosystem | All Temporary waste storage area will have proper bunds to prevent any escape of contaminated runoff<br><br>Ensure that any runoff from such temporary storage area                                                                                    | Site Inspection and Record keeping  | Drilling and Decommissioning Phases | OIL/Contractor    | Surface water quality management plan and Spill Management plan |

| S No | Activity | Ref | Aspect                                                                              | Impact                                                                                                                                                          | Mitigation Measures                                                                                                                                                                                                                                                                                                                                                         | Monitoring      | Timing/ Frequency      | Responsible Party | Related Plans                                   |
|------|----------|-----|-------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|------------------------|-------------------|-------------------------------------------------|
|      |          |     |                                                                                     |                                                                                                                                                                 | are channelized into ETP                                                                                                                                                                                                                                                                                                                                                    |                 |                        |                   |                                                 |
|      |          | 7.3 | Accidental leakage/spillage of oils and lubricants and fuel from temporary storages | Contamination of soil resulting in loss of soil living organism                                                                                                 | Dispose process waste and domestic waste as per regulation/ best practices<br><br>Dispose debris and waste in designated areas and as per plan to prevent degradation of land                                                                                                                                                                                               | Site Inspection | Construction &Drilling | OIL/Contractor    | Waste Management Plan and Spill Management plan |
|      |          | 7.4 | Accidental leakage/spillage of oils and lubricants from temporary storages          | Contamination of surface water resulting in deterioration of surface water quality and adverse impact on aquatic ecosystem                                      | All chemical and fuel storage areas will have proper bunds so that contaminated run-off cannot escape into the storm-water drainage system.<br><br>The waste pits (waste water and drill cuttings) will be bounded and covered by tarpaulin sheet to prevent mixing of runoff water with waste water and leachate from waste pit and also reduce the volume of waste water. | Site Inspection | Construction &Drilling | OIL/Contractor    | Waste Management Plan and Spill Management plan |
|      |          | 7.5 | Disposal/spillage of spent oils & lubricants into environmental media               | Contamination of soil resulting loss of soil living organism<br><br>Contamination of surface water resulting deterioration of surface water quality and aquatic | Ensure recycling of spent oil & lubricant through authorized dealer                                                                                                                                                                                                                                                                                                         | Site Inspection | Construction &Drilling | OIL/Contractor    | Waste Management Plan and Spill Management plan |

| S No | Activity                                          | Ref | Aspect                                                          | Impact                                                                   | Mitigation Measures                                                                                                                                                 | Monitoring                            | Timing/ Frequency       | Responsible Party              | Related Plans                                   |
|------|---------------------------------------------------|-----|-----------------------------------------------------------------|--------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|-------------------------|--------------------------------|-------------------------------------------------|
|      |                                                   |     |                                                                 | ecosystem                                                                |                                                                                                                                                                     |                                       |                         |                                |                                                 |
|      |                                                   | 7.6 | Disposal of used battery & spent filters in environmental media | Potential for contamination of soil, ground water and surface water body | Ensure recycling of waste through authorized waste recycler                                                                                                         | Site Inspection and Record Keeping    | Construction &Drilling  | OIL/Contractor                 | Waste Management Plan and Spill Management plan |
|      |                                                   | 7.7 | Offsite disposal of metallic, packing, scrap                    | Localized visual impacts                                                 |                                                                                                                                                                     | Site Inspection and Record Keeping    | Construction &Drilling  | OIL/Contractor                 | Waste Management Plan                           |
| 8.   | Testing & Flaring of natural gas                  | 8.1 | Emission of air pollutants from flare stack at drill site .     | Temporary localized deterioration air quality (NOx, HC)                  | Proper engineering controls to ensure complete combustion of gas<br><br>Location of Flare stack to be chosen considering the sensitive receptors adjoining the site | Engineering Designs /Site inspections | Construction & Drilling | OIL S& E Teamand Drilling team | Waste Management Plan                           |
| 9.   | Storage of materials (equipment, chemicals, fuel) | 9.1 | Accidental spillage during storage and handling of materials    | Potential for contamination of soil & ground water                       | Impervious storage area, especially for fuel & lubricant, chemical, hazardous waste, etc.                                                                           | Site Inspection                       | Construction &Drilling  | OIL/Contractor                 | Spill Management plan                           |
|      |                                                   |     |                                                                 | Safety concerns for workers involved in handling of hazardous materials  | Personal protective equipment to be provided to workers involving in handling of hazardous materials                                                                | Site Inspection                       | Construction &Drilling  | OIL/Contractor                 | Health and Safety Plan                          |

| S No | Activity                                    | Ref  | Aspect                                                                                          | Impact                                                                   | Mitigation Measures                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Monitoring      | Timing/ Frequency          | Responsible Party | Related Plans                 |
|------|---------------------------------------------|------|-------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|----------------------------|-------------------|-------------------------------|
| 10.  | Technical Emergencies                       | 10.1 | Probability of accidental leakage of gas/ liquid hydro-carbons due to failure of safety devices | Potential adverse impact on personnel, environment & assets              | <p>Proper engineering controls to prevent leakage of sour gases</p> <p>Obtain an early warning of emergency conditions so as to prevent a negative impact on personnel, the environment, and assets</p> <p>Safeguard personnel to prevent injuries or loss of life by either protecting personnel from the hazard and/or evacuating them from the facilities</p> <p>Minimize the impact of such an event on the environment and the facilities by mitigating the potential for escalation and, where possible, containing the release</p> <p>Develop evacuation procedures to handle emergency situations.</p> | Site Inspection | Drilling                   | OIL/Contractor    | Emergency Response Plan       |
| 11.  | Dismantling of rig & associated machineries | 11.1 | Emission of noise during dismantling of rig                                                     | Temporary deterioration of ambient noise quality resulting in discomfort | All noise generating activities will be restricted during day time                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Site Inspection | Well Decommissioning Phase | OIL/Contractor    | Noise quality management plan |
|      |                                             | 11.2 | Generation of waste during dismantling of rig                                                   | Temporary visual impacts                                                 | Storage of waste in designated areas only recyclable waste should be recycled through authorized                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Site Inspection | Well Decommissioning Phase | OIL/Contractor    | Waste Management Plan         |

| S No | Activity                              | Ref  | Aspect                                                                                   | Impact                                                                                                                                                                    | Mitigation Measures                                                                                                                                                                                                                                              | Monitoring                         | Timing/ Frequency          | Responsible Party | Related Plans                 |
|------|---------------------------------------|------|------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------|----------------------------|-------------------|-------------------------------|
|      |                                       |      |                                                                                          |                                                                                                                                                                           | water recycler                                                                                                                                                                                                                                                   |                                    |                            |                   |                               |
|      |                                       | 11.3 | Disposal/spillage of spent oils & lubricants into environmental media                    | Contamination of soil resulting loss of soil living organism<br><br>Contamination of surface water resulting deterioration of surface water quality and aquatic ecosystem | Manage spills of contaminants on soil                                                                                                                                                                                                                            | Site Inspection and Record keeping | Well Decommissioning Phase | OIL/Contractor    | Waste Management Plan         |
| 12.  | Transportation of drilling facilities | 12.1 | Emission of gaseous air pollutant during transportation of drilling facilities           | Temporary localized deterioration of air quality due to emission gaseous pollutants                                                                                       | Vehicle / equipment air emissions will be controlled by good practice procedures (such as turning off equipment when not in use); and<br><br>Vehicle / equipment exhausts observed emitting significant black smoke in their exhausts will be serviced/ replaced | Site Inspection and Record keeping | Well Decommissioning Phase | OIL/Contractor    | Air quality management plan   |
|      |                                       | 12.2 | Fugitive emissions due to re-entrainment of dust during transport of drilling facilities | Temporary localized deterioration of air quality due to increase in SPM levels                                                                                            | Approach road to be sprinkled daily with water                                                                                                                                                                                                                   | Site Inspection                    | Well Decommissioning Phase | OIL/Contractor    | Air quality management plan   |
|      |                                       | 12.3 | Emission of noise during transport of drilling facilities                                | Temporary deterioration of noise quality                                                                                                                                  | Restrict all noise generating operations, except drilling, to daytime                                                                                                                                                                                            | Site Inspection                    | Well Decommissioning Phase | OIL/Contractor    | Noise quality management plan |

| S No | Activity | Ref | Aspect | Impact | Mitigation Measures                                                              | Monitoring | Timing/ Frequency | Responsible Party | Related Plans |
|------|----------|-----|--------|--------|----------------------------------------------------------------------------------|------------|-------------------|-------------------|---------------|
|      |          |     |        |        | Restriction on unnecessary use of horns by trucks and vehicle in settlement area |            |                   |                   |               |

## 6.0 Summary and Conclusion

The EMP has been made to assess the potential significant adverse environmental effects due to the proposed construction and drilling activities.

Mitigation measures have been proposed as part of EMP to minimize adverse environmental impacts, if any. Risk assessment includes Jet Fire and Vapour Cloud Explosion for blowout of wells. The existing Emergency Management Plan of OIL will be extended to this project, strengthened as necessary and implemented in the event of any emergency arising due to above mentioned risks.

The present impact assessment study indicates that the overall impact from the proposed project will be short to medium term, reversible, localised and are not expected to contribute significantly to the surrounding environment. Also, with the implementation of the pollution control and strengthen the existing environment management measures, these anticipated impacts due to proposed site preparation and drilling operation and decommissioning activities of the proposed project will be mitigated. Summary of impact significance without mitigation measures and with mitigation measures is presented at the table below.

### Summary of Impact Significance without and with Mitigation Measures

| Impact                         | Impact significance without mitigation measures | Impact significance with mitigation measures |
|--------------------------------|-------------------------------------------------|----------------------------------------------|
| Aesthetic & visual             | Moderate                                        | Minor                                        |
| Land Use                       | Negligible                                      | -                                            |
| Soil Quality                   | Moderate                                        | Minor                                        |
| Air Quality                    | Moderate                                        | Minor                                        |
| Noise Quality                  | Major                                           | Moderate                                     |
| Road & Traffic                 | Moderate                                        | Minor                                        |
| Surface Water Quality          | Moderate                                        | Moderate                                     |
| Ground water resource          | Minor                                           | Minor                                        |
| Ground Water Quality           | Moderate                                        | Minor                                        |
| Terrestrial Ecology            | Negligible                                      | -                                            |
|                                | Minor                                           | Minor                                        |
|                                | Major                                           | Moderate                                     |
| Aquatic Ecology                | Moderate                                        | Moderate                                     |
| Livelihood & Income generation | Moderate                                        | Moderate                                     |
| Conflict with local people     | Moderate                                        | Moderate                                     |
| Benefit to Local Enterprises   | Positive                                        | -                                            |
| Employment Generation          | Positive                                        | -                                            |
| Occupational health & safety   | Moderate                                        | Minor                                        |
| Community health & safety      | Moderate                                        | Minor                                        |

OIL will also ensure that the environmental performances of all the activities are monitored throughout execution of the project during site preparation, drilling and decommissioning phases. Monitoring will be carried out for ambient air quality, stack emission, noise quality, quality of treated effluents, surface and groundwater qualities, waste generated and disposed etc. and verified that they meet the prescribed standards. OIL will continue to report environmental performance and submit monitoring reports regularly to statutory authorities.

The effective management system coupled with monitoring of environmental components and efforts for continual improvements will result in satisfactory environmental performance of the proposed oil and gas drilling and development project.

**THANKS YOU**

संदर्भ सं./Ref. No.: S&E/E/21(B)/1013

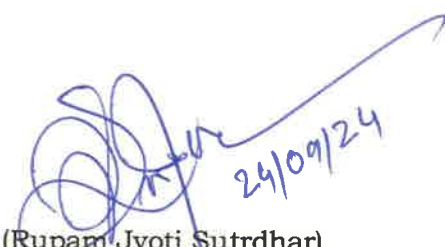
दिनांक/Date: 24.09.2024

|                |   |                                                                                               |
|----------------|---|-----------------------------------------------------------------------------------------------|
| <b>From</b>    | : | ED (HSE & ESG) I/C                                                                            |
| <b>To</b>      | : | The Member Secretary,<br>Pollution Control Board, Assam,<br>Bamunimaidam, Guwahati- 781021.   |
| <b>Subject</b> | : | Submission of Environmental Statement (Form-V) under<br>Environment (Protection) Rules, 1986. |

Sir,

With reference to the above subject, we are submitting herewith the Environmental Statement (Form-V) for the financial year ending 31<sup>st</sup> March, 2024 pertaining to the operations of Oil India Limited in the districts of Dibrugarh, Tinsukia, Sivsagar and Charaideo in Assam.

Thanking you.

  
(Rupam Jyoti Sutrdhar)  
**ED (HSE & ESG) I/C**  
**For Resident Chief Executive**

**Encl:** As above.

- Copy:**
1. Regional Executive Engineer,  
Pollution Control Board Assam,  
Back Side of ASTC Bus Station,  
Chowkidinghee, Dibrugarh,  
PIN: 786001.
  2. Executive Engineer,  
Regional Laboratory cum Office,  
Pollution Control Board Assam,  
Melachakar, Sibsagar,  
PIN: 785640.

**FORM – V**  
**(See Rule 14)**  
**ENVIRONMENTAL STATEMENT FOR THE FINANCIAL YEAR ENDING THE**  
**31<sup>st</sup> MARCH, 2024**

**PART – A**

(i) **Name and address of the owner/occupier of the industry operation or process.**

OIL INDIA LIMITED  
P.O. DULIAJAN  
DIST. DIBRUGARH  
ASSAM -786602.

**Note:** Environmental Statement (Form – V) is pertaining to the operations of Oil India Limited in the districts of Dibrugarh, Tinsukia, Sivasagar and Charaideo in Assam.

(ii) **Industry category:** Red - Oil and gas extraction (on-shore extraction through drilling wells)

(iii) **Production capacity – Units**

OIL's production target is fixed as per the Memorandum of Understanding (MoU) with Ministry of Petroleum and Natural Gas, Govt. of India, which varies from year to year.

Production details during F.Y. 2023-24:

- **Crude Oil:** 3.2864 MMT.
- **Natural Gas:** 2885.016 MMSCM
- **LPG:** 31,550 MT.

(iv) **Year of establishment:**

OIL INDIA LTD. was formed in 1961 as a joint venture with M/S. Burma Oil Company, UK and on 14<sup>th</sup> Oct. 1981, OIL became a fully owned Govt. of India Enterprise.

(v) **Date of last Environmental Statement submitted:** 20.09.2023.

**PART – B**  
**WATER AND RAW MATERIAL CONSUMPTION**

(I) Water consumption m<sup>3</sup>/d:

| S.No         | Purpose           | Water Consumption<br>(m <sup>3</sup> / day) |
|--------------|-------------------|---------------------------------------------|
| 1.           | Process & Cooling | 14495.34                                    |
| 2.           | Domestic          | 15956.26                                    |
| <b>TOTAL</b> |                   | <b>30451.60</b>                             |

| Name of Products                          | Process water consumption per unit of product output |                                      |
|-------------------------------------------|------------------------------------------------------|--------------------------------------|
|                                           | During<br>F.Y. 2022-23                               | During<br>F.Y. 2023-24               |
| (1)                                       | (2)                                                  | (3)                                  |
| Hydrocarbon (Crude Oil, Natural Gas, LPG) | 1 m <sup>3</sup> /MT<br>(Approx.)                    | 0.96 m <sup>3</sup> /MT<br>(Approx.) |

(II) Raw material consumption

| *Name of raw materials                                                                                                                                                                                                                             | Name of products | Consumption of raw material per unit |                     |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|--------------------------------------|---------------------|
|                                                                                                                                                                                                                                                    |                  | During F.Y. 2022-23                  | During F.Y. 2023-24 |
| No raw materials are used as Oil India Limited is engaged in Exploratory and Development drilling activities & production of Crude Oil and Natural Gas. However, chemicals such as Bentonite are used for preparation of Water based drilling mud. |                  |                                      |                     |

**PART - C**

**POLLUTION DISCHARGED TO ENVIRONMENT/UNIT OF OUTPUT**

(Parameter as specified in the consent issued)

| Pollutants | Quantity of Pollutants Discharged (mass/day)                                                                                                                                                                                                                                                                                                                               | Concentrations of pollutants in discharges (mass/volume)                                                                                                                                                                                                                                  | Percentage of variation from prescribed standards with reasons                                                             |
|------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|
| (a) Water  | <b>NIL.</b><br>There is no discharge of pollutants from drilling locations and Production Installations. <ul style="list-style-type: none"> <li>Wastewater generated from drilling locations is treated in Effluent Treatment Plant (ETP) and reused back in the drilling operation.</li> <li>The formation water generated after separation from crude oil and</li> </ul> | <ul style="list-style-type: none"> <li>Quality of ETP treated water from the drilling locations is analyzed frequently. (Test report is enclosed as <b>Annexure - I</b>).</li> <li>Quality of Formation water is analyzed frequently (Test report enclosed as <b>Annexure-</b></li> </ul> | No variation is observed.<br><br>All parameters of treated effluent and Formation water are within the permissible limits. |

|         |                                                                                                                                                                                                                                       |                                                                                                                                                                                |                                                                                                                           |
|---------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------|
|         | treatment is pumped back to the underground formation (depth greater than 1600 m) through formation water disposal wells.                                                                                                             | <b>II)</b>                                                                                                                                                                     |                                                                                                                           |
| (b) Air | No major air pollutants are emitted from Oil & Gas exploratory and development drilling and production activities except Stack Gas emissions at drilling locations and Production Installations & Flaring at Oil Collecting Stations. | Stack Gas and Ambient Air Quality (AAQ) monitoring is carried out frequently at drilling locations and Production Installations (Test report enclosed as <b>Annexure- III)</b> | No variation is observed.<br><br>All parameters of Stack Gas emissions and Ambient Air are within the permissible limits. |

**PART – D**  
**HAZARDOUS WASTES**

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

| <b>Hazardous Wastes</b>              | <b>Category of Hazardous Waste as per Schedule - I of HW Rules, 2016</b>                | <b>Total Quantity generated</b> |                            |
|--------------------------------------|-----------------------------------------------------------------------------------------|---------------------------------|----------------------------|
|                                      |                                                                                         | <b>During F.Y. 2022-23</b>      | <b>During F.Y. 2023-24</b> |
| a) From process                      | S.No. 2.2 Sludge containing Oil                                                         | 4671.52 MT                      | 3541.99 MT                 |
|                                      | S.No. 5.1 Used or Spent Oil                                                             | 208 KL                          | 55 KL                      |
|                                      | S.No. 33.1 Empty barrels/containers/liners contaminated with hazardous chemicals/wastes | 26616 Nos.                      | 11150 Nos.                 |
|                                      | S.No. 33.2 Contaminated cotton rags or other cleaning materials                         | 6.19 MT                         | 5.58 MT                    |
| b) From pollution control facilities | S.No. 33.5 Chemical sludge from waste water treatment                                   | 120.84 KL                       | 98.44 KL                   |

**PART - E**  
**SOLID WASTES**

| Solid Wastes                                                 | Total Quantity                     |                                    |
|--------------------------------------------------------------|------------------------------------|------------------------------------|
|                                                              | During<br>F.Y. 2022-23             | During<br>F.Y. 2023-24             |
| (a) From process<br>Drill Cuttings                           | 27,000 m <sup>3</sup><br>(Approx.) | 15,200 m <sup>3</sup><br>(Approx.) |
| (b) From pollution control facilities                        | NIL                                |                                    |
| (c)<br>(1) Quantity recycled or re-utilized within the unit. | N/A                                |                                    |
| (2) Sold                                                     | N/A                                |                                    |
| (3) Disposed                                                 | N/A                                |                                    |

**PART - F**

**PLEASE SPECIFY THE CHARACTERIZATION (IN TERMS OF COMPOSITION AND QUANTUM) OF HAZARDOUS AS WELL AS SOLID WASTES AND INDICATE DISPOSAL PRACTICE ADOPTED FOR BOTH THESE CATEGORIES OF WASTES.**

**(I) Hazardous Wastes:**

| Name of the Hazardous Waste                                                     | Quantity generated during<br>F.Y. 2023-24 | Disposal Practices                                                                    |
|---------------------------------------------------------------------------------|-------------------------------------------|---------------------------------------------------------------------------------------|
| a) Sludge containing Oil                                                        | 3541.99 MT                                | Sent to Sludge Processing Plant for oil recovery followed by Bioremediation           |
| b) Used or Spent Oil                                                            | 55 KL                                     | Stored in barrels under covered shed and sold to authorized recyclers through auction |
| c) Empty barrels/containers/liners contaminated with hazardous chemicals/wastes | 11150 Nos.                                | Sold to authorized recyclers through auction                                          |
| d) Contaminated cotton rags or other cleaning materials                         | 5.58 MT                                   | Bioremediation                                                                        |
| e) Chemical sludge from waste water treatment                                   | 98.44 KL                                  | Disposed in HDPE lined pits                                                           |

**(I) Solid Wastes:**

| <b>Name of the Solid Waste</b> | <b>Quantity generated during F.Y. 2023-24</b> | <b>Disposal Practices</b>   |
|--------------------------------|-----------------------------------------------|-----------------------------|
| a) Drill Cuttings              | 15,200 m <sup>3</sup><br>(Approx.)            | Disposed in HDPE lined pits |

**PART – G****IMPACT OF THE POLLUTION ABATEMENT MEASURES TAKEN ON CONSERVATION OF NATURAL RESOURCES AND ON THE COST OF PRODUCTION**

- Acoustic enclosures have been provided around all gensets to reduce noise levels.
- Recovery of drilling mud from drill cuttings by using a combination of Vertical Cutting Dryer (VCD) and a high-performance centrifuge.
- Wastewater generated from drilling locations is collected in HDPE lined pits, treated in Effluent Treatment Plant (ETP) with Reverse Osmosis unit and the treated effluent is reused back in the drilling operation.
- Formation water generated from Production Installations is treated in Effluent Treatment Plant (ETP) before disposal in the abandoned/ water disposal wells.
- Processing of oily sludge for recovery of Crude oil and further treatment of sludge through Bioremediation.
- Construction of central concrete pit for disposal of waste mud.
- Treatment of Biomedical waste through incinerator.
- Plantation of 50,000 saplings was carried out at 8 nos. of abandoned OIL well sites.

**PART – H****Additional measures/investment proposal for environmental protection, abatement of pollution, prevention of pollution.**

- MoU with District Administration, Tinsukia for treating the legacy waste of Tinsukia Municipality through the process of Biomining.
- Proposal for construction of Community Sewage Treatment Plant (STP) at Duliajan.
- MoU with Digboi Forest division, Assam for carrying out afforestation in 100 Ha of degraded forest area.
- MoU with IIT Guwahati to study the feasibility of using treated drill cutting as a building material.

**PART – I****ANY OTHER PARTICULARS FOR IMPROVING THE QUALITY OF THE ENVIRONMENT.**

\*\*\*\*\*

For internal use only

Ref.no.: Chem/Ana/Misc./306/DJN/24

Date: 26.02.2024

Asset Manager Eastern Asset

Attn.: Vishal Singh Jadon, SE (P-E), Eastern Asset

**Sub: ETP WATER SAMPLE ANALYSIS REPORT**

Ref. no :- Your ref. no. Nil,

Dated: 23.02.2024

Reference above, please find below the test results of the ETP samples forwarded to us from your end for laboratory testing.

| Characteristics                              | Units | Test Results |        | Test method/Instrument used               |
|----------------------------------------------|-------|--------------|--------|-------------------------------------------|
|                                              |       | Inlet        | Outlet |                                           |
| Total Dissolved Solids                       | mg/l  | 1509         | 128    | BIS 3025-16 / Gravimetric method          |
| Oil & Grease                                 | mg/l  | Nil          | Nil    | BIS 3025-39 / Horiba oil content analyser |
| pH                                           | -     | 6.1          | 7.0    | BIS 3025-11 / Metrohm pH meter            |
| Total Suspended Solid                        | mg/l  | 1451         | 88     | BIS 3025-17 / Gravimetric method          |
| Carbonate as CO <sub>3</sub> <sup>2-</sup>   | mg/l  | Nil          | Nil    | BIS 3025-23 / Titration with HCl          |
| Bicarbonate as HCO <sub>3</sub> <sup>-</sup> | mg/l  | 1098         | 183    | BIS 3025-23 / Titration with HCl          |
| Dissolved Oxygen                             | mg/l  | 4.21         | 4.32   | BIS 3025-38 / Hach Dissolved Oxygen meter |
| Turbidity                                    | NTU   | 90.6         | 4.8    | BIS 3025-10 / Turbidity meter             |

**Sample details:-**

The above ETP water samples were collected by Eastern Asset, Digboi from Hebeda GCS on 22.02.2024 and received at Analytical & Environmental Lab. on 23.02.2024.

*Note: Parameters were tested as per requirement of the customer mentioned in the memo.*

Tested by: SB/BD

Dipjyoti Hazarika

Dy. Chief Chemist (Lab.)

For GM - Chemical (HoD)

Copy : Analytical & Environmental Sec.file.

ChemLab/Ana/Report/Water/04

For internal use only

Ref. No.: Chem/Ana/STF/234/DJN/24

Date: 12.02.2024

CGM - PSS

*12.02.2024*

Attn.: Prajesh Das, Dy.CE(PSS) & IM -STF

**Sub: WATER SAMPLE ANALYSIS REPORT OF STF MADHUBAN**

Ref.: PSS/STF-35/2023-24/765,

Dated:- 10.02.2024

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

| Characteristics  | Unit | Clarified<br>T -14, ETP | ORF Outlet<br>ETP | TPI Inlet<br>ETP | Test Method/<br>Instrument used           |
|------------------|------|-------------------------|-------------------|------------------|-------------------------------------------|
| pH               | -    | 8.2                     | 8.2               | 8.2              | BIS 3025-11 / Metrohm pH meter            |
| TDS              | mg/l | 3930                    | 3465              | 3600             | BIS 3025-16 / Gravimetric method          |
| TSS              | mg/l | 36                      | 18                | 932              | BIS 3025-17 / Gravimetric method          |
| Turbidity        | NTU  | 2.60                    | 1.71              | NM               | BIS 3025-10 / Turbidity meter             |
| Dissolved Oxygen | mg/l | 5.6                     | 5.4               | NM               | BIS 3025-38 / HACH DO Meter               |
| Oil & Grease     | mg/l | Nil                     | 0.9               | 45.0             | BIS 3025-39 / Horiba Oil Content Analyser |

**Sample details :**

The water samples were collected by PSS Department from the above mentioned sources of STF Madhuban on 09.02.2024 & received at Analytical & Environmental laboratory on 10.02.2024 for necessary testing.

**Note: Parameters were tested as per requirement of the customer mentioned in the memo.**

**NM : Not measured. Turbidity and Dissolved oxygen are not measured due to oily sample.**

Tested by :- SB/BD

*KBaruah*  
*(Kashmiri Baruah)*

*13/02/24*

For

Dipjyoti Hazarika

Dy. Chief Chemist (Lab)

For GM-Chemical (HoD)

Copy : Analytical & Environmental sec. file

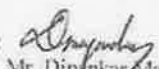
ChemLab/Ana/Report/Water/04C

**Ambient Air Quality Monitoring Report**

| Name & Address of the Customer                                                                      |                                           | Report No. : MSK/2023-24/1917             |                        |         |            |
|-----------------------------------------------------------------------------------------------------|-------------------------------------------|-------------------------------------------|------------------------|---------|------------|
| "M/s OIL INDIA LIMITED",<br>Duliajan, Dibrugarh, Assam-786602                                       |                                           | Report Date : 30.11.2023                  |                        |         |            |
|                                                                                                     |                                           | Sample Description : Ambient Air          |                        |         |            |
|                                                                                                     |                                           | Sample Number : MSKGL/ED/2023-24/11/00555 |                        |         |            |
| Ref. No : W O NO- 8125981 of Contract No 6116895                                                    |                                           | Sampling Location : GCS TENGAKHAT         |                        |         |            |
| GPS Reading : N 27°51'38", E 95°42'53"                                                              |                                           |                                           |                        |         |            |
| Date of Sampling                                                                                    | Sample Received Date                      | Analysis Start Date                       | Analysis Complete Date |         |            |
| 16.10.2023                                                                                          | 19.10.2023                                | 19.10.2023                                | 26.10.2023             |         |            |
| Environmental Conditions During Sampling & Transport Condition : Temperature : 31°C, Rain fall : NO |                                           |                                           |                        |         |            |
| <b>Analysis Result</b>                                                                              |                                           |                                           |                        |         |            |
| Sl. No.                                                                                             | Test Parameter                            | Method                                    | Unit                   | Results | CPCB Limit |
| 1                                                                                                   | Particulate Matter ( PM <sub>10</sub> )   | IS : 5182 (Part-23)-2006                  | (µg/m <sup>3</sup> )   | 60.5    | 100        |
| 2                                                                                                   | Particulate Matter ( PM <sub>2.5</sub> )  | IS : 5182 (Part-24)                       | (µg/m <sup>3</sup> )   | 35.6    | 60         |
| 3                                                                                                   | Sulphur Dioxide ( SO <sub>2</sub> )       | IS : 5182 (Part-2)-2001                   | (µg/m <sup>3</sup> )   | 6.5     | 80         |
| 4                                                                                                   | Nitrogen Dioxide ( NO <sub>2</sub> )      | IS : 5182 (Part-6)-2006                   | (µg/m <sup>3</sup> )   | 20.8    | 80         |
| 5                                                                                                   | Carbon Monoxide ( CO )                    | IS 5182 (Part-10):1999                    | (mg/m <sup>3</sup> )   | 0.62    | 2          |
| 6                                                                                                   | Ozone ( O <sub>3</sub> )                  | IS:5182 (Part-IX)-1974<br>Reaffirmed-2019 | (µg/m <sup>3</sup> )   | <20.0   | 180        |
| 7                                                                                                   | Ammonia ( NH <sub>3</sub> )               | IS 5182 (Part 25) 2018                    | (µg/m <sup>3</sup> )   | <10.0   | 400        |
| 8                                                                                                   | Lead ( Pb )                               | USEPA IO-3.4                              | (µg/m <sup>3</sup> )   | <0.01   | 1          |
| 9                                                                                                   | Nickel ( Ni )                             | USEPA IO-3.4                              | (ng/m <sup>3</sup> )   | <5.0    | 20         |
| 10                                                                                                  | Arsenic ( As )                            | USEPA IO-3.4                              | (ng/m <sup>3</sup> )   | <1.0    | 6          |
| 11                                                                                                  | Benzene ( C <sub>6</sub> H <sub>6</sub> ) | IS 5182 : (Part 11):2006                  | (µg/m <sup>3</sup> )   | <4.2    | 5          |
| 12                                                                                                  | Benzo(a)Pyrene ( BaP )                    | IS 5182 : (Part 12):2004                  | (ng/m <sup>3</sup> )   | <0.5    | 1          |
| 13                                                                                                  | Mercury ( Hg )                            | USEPA IO-5.0                              | (µg/m <sup>3</sup> )   | <0.002  |            |
| 14                                                                                                  | Methane (Hydrocarbon)                     | IS 5182 (Part 17)                         | ppm                    | 1.80    |            |
| 15                                                                                                  | Non-methane (Hydrocarbon)                 | IS 5182 : (Part 17)                       | ppm                    | <0.5    |            |
| 16                                                                                                  | Total Hydrocarbon                         | IS 5182 (Part 17)                         | ppm                    | 1.80    |            |
| 17                                                                                                  | Volatile Organic Compounds (VOC)          | IS 5182 (PART-11):2006                    | (µg/m <sup>3</sup> )   | <4.2    |            |

Limit as per CPCB notification, New Delhi, 18th Nov. 2009 for Ambient air quality

**Analyzed By:**

Signature :   
 Name : Mr. Dipankar Mazumdar  
 Designation : Executive Chemist

**Prepared By:**

Signature :   
 Name : Miss Neeha Sarmah  
 Designation : Office Assistant

**Authorized Signatory**

For Mitra S.K. Private Limited

Signature :   
 Name : Mr. Rajib Roy  
 Designation : Branch Manager

- The results relate only to the item(s) tested.
- This Test Report shall not be reproduced except in full, without the permission of Mitra S.K. Private Limited.
- Our Lab is Approved by NABL & MOEF, Lab Address : P-48 Udayan Industrial Estate, 3 Pagladanga Road Kol-700015

Head Office: Shraichi 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

Suptg. Research Scientist, R&D Dept.,  
 Oil India Ltd., Duliajan, Assam

**STACK GAS MONITORING REPORT**

|                                                    |                      |                     |                             |
|----------------------------------------------------|----------------------|---------------------|-----------------------------|
| Name & Address of the Customer                     |                      | Report No.          | : MSK/2023-24/2598          |
| "M/s OIL INDIA LIMITED"                            |                      | Report Date         | : 28.02.2024                |
| Duliajan, Dibrugarh, Assam-786602                  |                      | Nature of Sample    | : Stack Emission            |
| Ref. No. W.O. NO.- 8125981 of Contract No. 6116895 |                      | Sample Mark         | : GCS TENGAKHAT             |
|                                                    |                      | Sample Number       | : MSKGL/ED/2023-24/01/00642 |
| Date of Sampling                                   | Sample Received Date | Analysis Start Date | Analysis Complete Date      |
| 20.01.2024                                         | 23.01.2024           | 23.01.2024          | 30.01.2024                  |

**ANALYSIS RESULT**

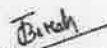
| <b>A. General information about stack :</b>                        |                                                            |                         |                            |
|--------------------------------------------------------------------|------------------------------------------------------------|-------------------------|----------------------------|
| 1.                                                                 | Stack connected to                                         | : GB-1                  |                            |
| 2.                                                                 | Emission due to                                            | : GAS COMPRESSOR        |                            |
| 3.                                                                 | Material of construction of Stack                          | : NG                    |                            |
| 4.                                                                 | Shape of Stack                                             | : MS                    |                            |
| 5.                                                                 | Whether stack is provided with permanent platform & ladder | : Circular              |                            |
| 6.                                                                 | DG capacity                                                | : Yes                   |                            |
| <b>B. Physical characteristics of stack :</b>                      |                                                            |                         |                            |
| 1.                                                                 | Height of the stack from ground level                      | : 4.572 m               |                            |
| 2.                                                                 | Diameter of the stack at sampling point                    | : 3.658 m               |                            |
| 3.                                                                 | Area of Stack                                              | : 0.03241m <sup>2</sup> |                            |
| <b>C. Analysis/Characteristic of stack:</b>                        |                                                            |                         |                            |
| 1. Fuel used : NG                                                  |                                                            |                         |                            |
| <b>D. Result of sampling &amp; analysis of gaseous emission</b>    |                                                            |                         |                            |
|                                                                    | Result                                                     | Limit as per CPCB       | Method                     |
| 1.                                                                 | Temperature of emission (°C)                               | 213                     | 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.)                                   | 24.88                   | USEPA Part 2, 25.09.1996   |
| 4.                                                                 | Quantity of Gas Flow (Nm <sup>3</sup> /hr)                 | 1771                    | USEPA Part 2, 25.09.1996   |
| 5.                                                                 | Concentration of Oxygen (%v/v)                             | 13.8                    | IS:13270 :1992 Reaff. 2014 |
| 6.                                                                 | Concentration of Carbon Monoxide (mg/Nm <sup>3</sup> )     | 19.3                    | IS:13270 :1992 Reaff. 2014 |
| 7.                                                                 | Concentration of Carbon Dioxide (%v/v)                     | 6.2                     | IS:13270 :1992 Reaff. 2014 |
| 8.                                                                 | Concentration of Sulphur Dioxide (mg/Nm <sup>3</sup> )     | 21.5                    | USEPA-29, 25/06/1996       |
| 9.                                                                 | Concentration of Nitrogen Oxide (ppmv)                     | 72.8                    | USEPA Part-6, 25/09/1996   |
| 10.                                                                | Concentration of Lead (mg/Nm <sup>3</sup> )                | <0.005                  | USEPA-29, 25/06/1996       |
| 11.                                                                | Concentration of Particulate matter (mg/Nm <sup>3</sup> )  | 32.8                    | USEPA Part-17, 16/08/1996  |
| 12.                                                                | Concentration of Hydrocarbons (ppm)                        | <0.0003                 | USEPA 18 -25.09.1996       |
| <b>E. Pollution control device :</b>                               |                                                            |                         |                            |
| Details of pollution control devices attached with the stack : Nil |                                                            |                         |                            |
|                                                                    |                                                            |                         | <b>Remarks:</b> Nil        |

Analyzed By:



Signature : Mr. Dipankar Mazumdar  
 Name :  
 Designation : Executive Chemist

Prepared By:



Signature : Miss Jyosmita Borah  
 Name :  
 Designation : Office Assistant

Authorized Signatory

For Mitra 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-18 Udayan Industrial Estate, 3 Pagladanga Road Kol-700015

Head Office: Shraachi 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



**Pollution Control Board:: Assam**  
**Bamunimaidam; Guwahati-21**  
 (Department of Environment & Forests:: Government of Assam)  
 Phone: 0361-2652774 & 3150318; Fax: 0361-3150319  
 Website: [www.pcbassam.org](http://www.pcbassam.org)



No. WB/T-311/21-22/329

Dated Guwahati the, 13<sup>th</sup> October, 2022

**FORM – 2**  
**[See Rule 6(2)]**

**[Grant of Authorization under the Provision of the Hazardous and Other Wastes (Management & Transboundary Movement) Rules, 2016]**

1. Number of Authorisation and date of issue : No. WB/T-311/21-22/ dtd. .10.2022
2. Reference of application (No. and date) : 1292415
3. **M/s OIL INDIA LIMITED, Percy Evans Road, Duliajan, Dibrugarh, Assam-786602** is hereby granted an authorisation based on the signed inspection report for Generation, storage and transportation of Hazardous or Other wastes or both.

**DETAILS OF AUTHORISATION**

| Sl. No. | Category of Hazardous Waste as per the Schedules-I, II & III of these rules                           | Authorised mode of disposal or recycling or utilisation or co-processing, etc. | Quantity (ton/annum) | Mode of Management                                                                                                                                    |
|---------|-------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------|----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1.      | Schedule-I, Sl.No. 2.2 Sludge containing oil                                                          | Generation, Storage & Transportation                                           | 4000 T/Annum         | Transportation to authorized actual user/ Disposal agencies/ Captive treatment through Bio-remediation as per prescribed norms after recovery of oil. |
| 2       | Schedule-I, Sl.No. 33.2 Contaminated cotton rags or other cleaning materials                          | Generation, Storage & Transportation                                           | 300 T/Annum          | Transportation to authorized Disposal agencies for incineration/ Co-Processing in cement plant.                                                       |
| 3       | Schedule-I, Sl.No. 33.1 Empty barrels/containers/liners contaminated with hazardous chemicals /wastes | Generation, Storage & Transportation                                           | 15000 Nos./Annum     | Transportation to authorized actual user/Recyclers                                                                                                    |
| 4.      | Schedule-I, Sl.No. 5.1 Used or spent oil                                                              | Generation, Storage & Transportation                                           | 500 KI /Annum        | Transportation to authorized actual user/Recyclers                                                                                                    |
| 5.      | Schedule-I, Sl.No. 35.3 Chemical sludge from waste water treatment                                    | Generation, Storage & Transportation                                           | 7000 T/Annum         | Transportation to authorized actual user/Disposal agencies/ Co-processing in cement plant.                                                            |

4. This authorisation shall be in force in force for the period of five years up to 31.03.2027 unless otherwise revoked or withdrawn within this period.

5. The authorisation is subject to the following general and specific conditions:

**A. GENERAL CONDITIONS OF AUTHORISATION:**

1. The authorised person shall comply with the provisions of the Environment (Protection) Act, 1986, and the rules made there under.
2. The authorisation or its renewal shall be produced for inspection at the request of an officer authorised by the State Pollution Control Board.
3. The person authorised shall not rent, lend, sell, transfer or otherwise transport the hazardous and other wastes except what is permitted through this authorization.
4. The agencies should ensure that the barrels are decontaminated before collection in the premises of the occupier / generator equipped with adequate effluent treatment plant.
5. Any unauthorised change in personnel, equipment or working conditions as mentioned in the application by the person authorised shall constitute a breach of his authorization
6. The person authorised shall implement Emergency Response Procedure (ERP) for which this authorisation is being granted considering all site specific possible scenarios such as spillages, leakages, fire etc. and their possible impacts and also carry out mock drill in this regard at regular interval of time

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7. The person authorised shall implement Emergency Response Procedure (ERP) for which this authorisation is being granted considering all site specific possible scenarios such as spillages, leakages, fire etc. and their possible impacts and also carry out mock drill in this regard at regular interval of time
8. The person authorised shall comply with the provisions outlined in the Central Pollution Control Board guidelines on "Implementing Liabilities for Environmental Damages due to Handling and Disposal of Hazardous Waste and Penalty"
9. It is the duty of the authorised person to take prior permission of the State Pollution Control Board to close down the facility.
10. The imported hazardous and other wastes shall be fully insured for transit as well as for any accidental occurrence and its clean-up operation.
11. The record of consumption and fate of the imported hazardous and other wastes shall be maintained.
12. The hazardous and other waste which gets generated during recycling or reuse or recovery or pre-processing or utilisation of imported hazardous or other wastes shall be treated and disposed of as per specific conditions of authorization.
13. The importer or exporter shall bear the cost of import or export and mitigation of damages if any.
14. An application for the renewal of an authorisation shall be made as laid down under these Rules.
15. Any other conditions for compliance as per the Guidelines issued by the Ministry of Environment, Forest and Climate Change or Central Pollution Control Board from time to time.
16. Annual return shall be filed by June 30<sup>th</sup> for the period ensuring 31<sup>st</sup> March of the year.

**B. SPECIFIC CONDITIONS:**

1. The unit shall maintain the records of Hazardous & Other Wastes in Form-3 under provision of Rules 6(5), 13(7), 14(6), 16(5) & 20(1)
2. The Unit Shall Provide The Transporter With The Relevant Information In Form-9 Regarding The Hazardous Nature Of The Wastes And Measures To Be Taken In Case Of An Emergency
3. The unit shall submit Annual Returns in Form-4 to State Pollution Control Board by 30<sup>th</sup> June of every year for the preceding period April to March.
4. The unit shall prepare 6 (six) copies of the manifest in Form-10 as per Rules-19(1) for every transit of consignment of hazardous Waste under this authorization.
5. Any other conditions for compliance as per the guidelines issued by the Ministry of Environment, Forests & Climate Change, GOI, New-Delhi & Central Pollution Control Board, Delhi shall be complied.
6. The unit shall submit an Environmental Statement for the financial year ending on 31<sup>st</sup> March, in Form-V of the Environment (Protection) Rules, 1986 before 30<sup>th</sup> September every year.
7. Any occupier handling hazardous or other wastes and operator of the treatment, storage and disposal facility shall ensure that the hazardous and other wastes are packaged in a manner suitable for safe handling, storage and transport as per the guidelines issued by the Central Pollution Control Board from time to time. The labelling shall be done as per Form 8.
8. The unit shall submit the report on any accident occurs at their facility immediately to the state Pollution Control Board, in Form-11 of the Hazardous and Other Wastes (Management & Transboundary Movement) Rules, 2016.
9. The transport of the hazardous and other waste shall be in accordance with the provisions of Rule 18 of Hazardous & Other waste (Management & Transboundary Movement) Rules, 2016.
10. The unit shall install a display board in the prescribed format in accordance with PCBA notification vide. WB/T-237/ 19-20/95 dated 17.08.2020 and regularly update the same.

(Shantanu Kr. Dutta)  
Member Secretary

Dated Guwahati the, 13<sup>th</sup> Oct, 2022

Memo No. WB/T-311/21-22/329-A  
Copy to:

- ✓ 1. M/s OIL INDIA LIMITED, Percy Evans Road, Duliajan, Dibrugarh, Assam-786602 for information & compliance of conditions

1138 43  
(Shantanu Kr. Dutta)  
Member Secretary

Government of India  
Ministry of Jal Shakti  
Department of Water Resources, River Development & Ganga Rejuvenation  
Central Ground Water Authority

**PUBLIC NOTICE No. 11/2023**

New Delhi, Dated 1<sup>st</sup> August, 2023

(In supersession of the Public Notice no. 06/2023 dated 11.05.2023 regarding  
“Exemption to obtain NOC for ground water well drilling used for scientific study by  
Government Organisation/Institute”)

**Sub: Exemption to obtain NOC for ground water well drilling used for scientific study by Government Organisation/Institute – reg.**

Whereas the Central Government constituted the Central Ground Water Authority (hereinafter referred to as the Authority) vide notification Number S.O. 38(E), dated 14th January, 1997, followed by notification number S.O. 1124(E) dated 6th November, 2000 and S.O. 1121 (E) dated 13th May, 2010 of the Government of India in the Ministry of Environment & Forests, for the purposes of regulation and control of ground water development and management in the whole of India and to issue necessary regulatory directions.

And whereas, the Ministry of Jal Shakti has issued ‘Guidelines to control and regulate ground water extraction in India’ vide notification number S.O. 3289(E) dated 24th September, 2020, notified by Department of Water Resources, River Development and Ganga Rejuvenation, Ministry of Jal Shakti.

And whereas an Amendment Notification dated 29.03.2023 has been further issued by Ministry of Jal Shakti, published in the Gazette of India, Extraordinary, Part II, section 3, sub-section (ii), vide Notification number S.O. 1509 (E).

**This is to bring to the notice that:-**

- Government organizations/Institutes dealing in ground water well drilling, such as drilling of Exploratory well, Piezometer, Observation Well, Pilot well etc. for scientific studies and exploration activities, **and such PSUs like ONGC, Oil India Ltd. etc. involved in research and exploration activities requiring site-specific temporary borewells**, shall remain exempted from seeking of No Objection Certificate for Ground Water extraction for the period of scientific studies, from Central Ground Water Authority.
- However, such Government organizations/Institutes shall be required to submit details of the drilling to the concerned Regional Office of CGWB.
- In case, another agency uses the well for ground water extraction, after the completion of scientific studies and exploration activities, the same shall be required to obtain No Objection Certificate from CGWA as per the due process.

Member Secretary  
CGWA