

#### **HSE Department**

Oil India Limited

Duliajan, Dibrugarh, 786602, Assam

Phone: 0374-2800542 Email: safety@oilindia.in

दिनांक/Date: 11.01.2024

Email: safety@offindia

संदर्भ सं./Ref. No.: S&E/E/43C-1/52

From	:	Chief General Manager (HSE) I/C			
To  Deputy Director General of Forests (Central), Sub Office, Guwahati (under Regional Office, Shillong), 4th Floor, Housefed Building, Rukminigaon, Guwahati-781022.  (Fmail: iro guwahati-mefec@gov in iro moefec ghy@gmail.c		Sub Office, Guwahati (under Regional Office, Shillong), 4th Floor, Housefed Building, Rukminigaon,			
Submission of Half-yearly (April 2023 to September 2		Submission of Half-yearly (April 2023 to September 2023) 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 2023 to September 2023) 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)	Exploratory Drilling of 01 (One) well at
000	dated 01.11.2011	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
ig.		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)	Onshore Oil & Gas development drilling and
	dated 28.12.2020	production by M/S Oil India Ltd in Dibrugarh
50		district under Dibrugarh, Chabua, Higrijan and Tinsukia PMLs. (Dibrugarh- Bhogpara)
8.	F. No. J-11011/375/2016-IA II (I)	Onshore Oil & Gas Development Drilling and



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	dated 28.12.2020	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) 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) dated 03.03.2021	Onshore Oil & Gas development drilling and production in Borhat-Titlagarh area, Dibrugarh, Sibsagar and Charaideo Districts under Sapkaintb, Borhat, Moran Extension and Doomdooma PMLs.
11.	EC22A002AS110311 F. No. J-11011/156/2017-IA II (I) 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 F. No. J-11011/1254/2007-IA II (I) 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 F.No J-11011/1257/2007- IA II (I) 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 F. No. J-11011/388/2016-IA II (I) dated 31.07.2023	Onshore Oil & Gas development drilling (67 wells) in Jorajan Area under Dibrugarh, Charaideo and Tinsukia districts, Assam.
15.	EC23A002AS146942 F.No. J-11011/546/2017-IA(I) 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.

(Rajendra Singh Garbyal)
Chief General Manager (HSE) Nodal Officer (EC, FC, NBWL) **For Resident Chief Executive** 



**HSE Department** 

Oil India Limited

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

Email: safety@oilindia.in

Encl: As above

Copy:

1. Director, Monitoring Cell, MoEF, Paryavaran Bhawan, CGO Complex, Lodhi Road, New Delhi-110003.

2. Zonal Office, Central Pollution Control Board, "TUM-SIR", Lower Motinagar, Near Fire Brigade Headquarter, Shillong-793014.

3. Chairman, Assam Pollution Control Board, Bamunimaidan, Guwahati-781021, Assam.

4. Chairman, Arunachal Pradesh State Pollution Control Board, Office of the Principal Chief and Secretary (E&F) Conservator of Forests, Govt. of Arunachal Pradesh, Itanagar-791111, Arunachal Pradesh.



- Name of the Project: Onshore Oil & Gas development drilling (67 wells) in Jorajan Area under Dibrugarh, Charaideo and Tinsukia districts, Assam.
- EC Identification No., File No and date: EC23A002AS198872, F. No. J-11011/388/2016-IA II (I) dated 31.07.2023
- Period of Compliance Report: April 2023 to September 2023.
- Status of the Project: *No drilling activity* was carried out during the above period.

#### **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).	Will be complied All the environmental protection measures proposed in the EIA – EMP will be implemented.
II.	The environmental clearance is subject to obtaining	Will be complied
	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	No drilling activity will be carried out within the 10Km from the boundary of Protected Area without obtaining Wildlife Clearance from the Standing Committee of National Board for WildLife.
III.	conditions mentioned in existing NBWL clearance.  The project proponent shall prepare a Site-Specific	Complied
711.	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	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</b> – <b>I</b> .
	study area).	*
IV.	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.	Will be complied No pipelines will be laid in Forest land/ Protected Area without prior permission/ approval from the concerned department.
V.	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.	Will be complied Third party audit of compliance of EC condition will be carried out.
VI.	No drilling activities shall be carried out within 500m from the water bodies.	Will be complied  No drilling activity will be carried out within 500m from the waterbody.
VII.	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.	Being Complied.  Details of the CER expenditure incurred by OIL is enclosed as Annexure – II.

VIII.	Total fresh water requirement shall not exceed 25 CMD	Will be complied
	which will be met from tanker supply. Prior permission	Total freshwater water requirement
	shall be obtained from the concerned regulatory	will not exceed the permitted limit
	authority.	and will be met through water tanker
	1 - 2	after obtaining prior permission from
		the concerned regulatory authority.
łX.	The project proponent will treat and reuse the treated	Will be complied
	water within the drilling site and no waste or treated	A1
	water shall be discharged outside the premises. Mobile	Treated effluent will be reused bac
	ETP coupled with RO shall be installed to reuse the	in the drilling operations and no
2	treated water in drilling system. Mobile STP shall be	effluent will be discharged outside th
	installed to treat the domestic sewage. Size of the waste	installation premises. Mobile ET
(4	pit shall be equal to the hole volume and volume of drill	coupled with RO will be installed
	cutting and volume of discarded mud if any. Two feet	Storm water will not be allowed to
	free board may be left to accommodate rain water.	mix with wastewater.
	There shall be severete storm victor channel and rain	mix with wastewater.
I.	There shall be separate storm water channel and rain	
17	water shall not be allowed to mix with waste water.	
	Alternatively, if possible pit less drilling be practiced	
37	instead of above.	No additional Production Installation
Χ.	Produce water from the EPS shall be treated in the	
	efficient ETP/ Central ETP of capacity 5000 KLD at	are proposed in this area.
	Tengakhat/ETP of capacity 7200 KLD at Madhuban and	
	treated effluent shall be disposed off in disposal wells	
	located in the vicinity of the production installation after	2
	achieving the water quality standards prescribed by	
9	SPSCB/CPCB. Online effluent monitoring system shall	
	be installed and records shall be maintained.	
XI.	During production, storage and handling, the fugitive	Will be complied
	emission of methane, if any, shall be monitored using	Portable Multi-gas detector
	Infra-red camera/ appropriate technology.	Explosimeter will be used to detect
		fugitive emissions of Methane (
		any).
XII.	The project proponent also to ensure trapping/storing of	Will be complied
	the CO <sub>2</sub> generated, if any, during the process and	CO <sub>2</sub> generated (if any) will b
	handling.	trapped/stored.
XIII.	Approach road to drilling sites shall be made pucca to	Will be complied
	minimize generation of suspended dust.	Regular maintenance of equipmen
		machinery will be carried out t
		minimize noise generation. DG se
		will be provided with acousti
	- N4 34 5	enclosures and adequate Stack Heigh
		as per CPCB guidelines.
XIV.	The project proponent shall make all arrangements for	Will be complied
	control of noise from the drilling activity. Acoustic	Regular maintenance of equipmen
	enclosure shall be provided for the DG sets along with	machinery will be carried out for
	the adequate stack height as per CPCB guidelines.	control of noise from the drillin
	and adoquate smort noight as per or on gardennes.	activity. DG sets will be provide
VV	The company shall construct the scaland during to	stack as per CPCB guidelines.
XV.	The company shall construct the garland drain to	stack as per CPCB guidelines.  Will be complied
XV.	prevent runoff of any oil containing waste into the	stack as per CPCB guidelines.  Will be complied  Garland drains will be constructe
XV.	prevent runoff of any oil containing waste into the nearby water bodies. Separate drainage system shall be	Will be complied Garland drains will be constructe around the periphery of the drillin
XV.	prevent runoff of any oil containing waste into the	stack as per CPCB guidelines.  Will be complied  Garland drains will be constructed





		water bodies. Separate drainage system will be created for oi contaminated and non-oi contaminated.
XVI.	Drill cuttings separated from drilling fluid shall be adequately washed and disposed in HDPE lined pit Waste mud shall be tested for hazardous contaminants	Will be complied  Drill cuttings separated from drilling fluid will be added to the complete of the complete o
	and disposed according to HWMH Rules, 2016. No effluent/drilling mud shall be discharged/disposed off into nearby surface water bodies. The company shall comply with the guidelines for disposal of solid waste,	disposed in HDPE lined pit. Not effluent/ drilling mud shall be discharged/disposed off into nearby
<0 8 	operation notified vide GSR.546(E) dated 30 <sup>th</sup> August, 2005.	comply with the guidelines for disposal of solid waste, drill cutting and drilling fluids for onshore drilling operation notified vide GSR.546(E)
XVII.	Oil spillage prevention and mitigation scheme shall be	Will be complicat
	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)	In case of Oil spillage/ contamination, action will be taken as per the Oil
1 .	and spent oil shall be disposed of to the authorized recyclers.	spill contingency plan prepared by OIL. Recyclable waste (oily sludge) and spent oil will be sent to Pollution
10		Control Board, Assam authorized
XVIII.	The project proponent shall take necessary measures to	recyclers Will be complied
	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.	Fixed firefighting system will be installed at drilling locations and in case of any oil spillage necessary remediation actions will be taken as per the Oil Spill Contingency Plan.
XIX.	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 right of assertions.	Complied  Contingency Plan for H <sub>2</sub> S release is in place. OIL never encountered H <sub>2</sub> S
* 5	in locations of high risk of exposure along with self- containing breathing apparatus.	and no such evidence exists in our field of operation. However, multi-
		gas detector and Self Containing Breathing Apparatus (SCBA) will be
	,- ,- ,- ,- ,- ,- ,- ,- ,- ,- ,- ,- ,- ,	kept available to meet the emergency situation, if any.
XX.	Blow Out Preventer system shall be installed to prevent well blowouts during drilling operations.	Will be complied
1 2	· 2	Blow Out Preventer (BOP) system will be installed to prevent blowouts
	be taken for safe plugging of wells with secured	during drilling operations.  Will be complied
	condition. The same shall be confirmed by the concerned regulatory authority from environment safety	On completion of the drilling activity, plugging of abandoned wells will be carried out as per the OIL's Well Abandonment, Site Restoration and

~	4	
XXII.	or the drilling site in accordance with the applicable of the drilling site in accordance with the applicable of the drilling of any well, the owner or operator shall restore the well site, remove or fill all pits used to contain produced fluids or industrial waste and remove all drilling supplies and equipment not needed for production.  As per the action plan submitted by the project and production of the project activities proposed in extended EMP	Reclamation policy.  Being Complied  Details of the CER expenditure
	(CER) for corpus of Rs. 10.087 crores shall completed within 2 years (Annexure-II).	incurred by OIL is enclosed as  Annexure – II.
1	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.	Will be complied Occupational Health Surveillance of workers engaged in drilling operation will be carried out on regular basis. All workers & employees engaged in drilling operation will be provided with Personal Protective Equipment (PPE).
XXIV.	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.	drilling operations.
XXV.	PP should establish in house (at project site) environment laboratory for measurement of environment parameter with respect to air quality and water (surface and ground). A dedicated team to oversee environment management shall be setup at site which should comprise of Environment Engineers, Laboratory chemist and staff for monitoring of air, water quality parameters on routine basis	OIL has established In-House environment laboratory with dedicated team for measurement of environmental parameters w.r.t air quality and water.
	laboratories/consultants. Any noncompliance or infringement should be reported to the concerned	d
XXVI.	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 convironmental monitoring shall be available at the project site office. Remote monitoring of site should be done.	SOPs for all the operations covering safety and environment related issue are prepared. OIL has prepare Environmental manual which is made available at the drilling location Copy of the same is enclose Annexure — B. Also, all the environmental monitoring report related to ambient air quality, State Gas monitoring, ETP effluent, Nois level will be maintained at the drilling location.
XXVII.	PP shall sensitize and create awareness among the people working within the project area as well as surrounding area on the ban of Single Use Plastic	Its OIL Has arrange



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

Naharkatia MV School on 24.05.2023. Photographs of the same are enclosed as **Annexure – III**.

#### **General Conditions:**

S. No.	S. No. CONDITION COMPLIANCE		
<b>1.</b> 7	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.	Will be complied  No further expansion or modifications will be carried out other than the activities mentioned in the Environment Clearance without the prior approval of MoEF&CC.	
II.	The energy source for lighting purpose shall be preferably LED based, or advanced having preference in energy conservation and environment betterment.	Will be complied  LED lights will be utilised for lighting purpose in 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 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).	Will be complied Noise level in the drilling sites and Production Installations will be kept within the permissible limits by 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 ecodevelopmental measures including community welfare measures in the project area for the overall improvement of the environment.	Being Complied  Details of the CER expenditure incurred by OIL is enclosed as Annexure – II.	
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.	Complied OIL has earmarked funds for environment management/ pollution control measures.	

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.	Complied OIL has submitted a copy of the Environment Clearance to local Panchayat, Municipality Board/Municipal Corporation.
VII.	The project proponent shall also submit six monthly reports on the status of compliance of the stipulated Environmental Clearance conditions including results of monitored data (both in hard copies as well as by email) to the respective Regional Office of MoEF&CC, the respective Zonal Office of CPCB and SPCB. A copy of Environmental Clearance and six monthly	Complied. EC compliance report for the period October 2022 to March 2023 was submitted to IRO - Guwahati, Zonal Office CPCB, Shillong and, Chairman - Pollution Control Board Assam vide L.No. S&E/E/43C-1/561
	compliance status report shall be posted on the website of the company.	dated 29.05.2023. Also, copy of the EC and Six-monthly compliance report are uploaded to OIL website under the link <a href="https://www.oilindia.com/Environmental.aspx">https://www.oilindia.com/Environmental.aspx</a>
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.	Complied. Environment Statement (Form – V) for the F.Y. 2022-23 was submitted to Pollution Control Board, Assam vide No. S&E/E/21(B)/940 dated 20.09.2023. Copy of the same is enclosed as Annexure – C.
IX.	The project proponent shall inform the public that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with the SPCB/Committee and may also be seen at Website of the Ministry and at https://parivesh.nic.in/. This shall be advertised within seven days from the date of issue of the clearance letter, at least in two local newspapers that are widely circulated in the region of which one shall be in the vernacular language of the locality concerned and a copy of the same shall be forwarded to the concerned Regional Office of the Ministry.	Advertisement regarding the issuance of the Environment Clearance was published in two newspapers i.e., Dainik Janambhumi and The Sentinel dated 08.08.2023. Copies of the same are enclosed as Annexure – IV.
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.	Will be Complied.
XI.	This Environmental clearance is granted subject to final outcome of Hon'ble Supreme Court of India, Hon'ble High Court, Hon'ble NGT and any other Court of Law, if any, as may be applicable to this project.	Agreed.





Ref. No. S&E/E-43(5)/1158

Safety & Environment Department P.O. DULIAJAN-786602, ASSAM INDIA

Phone 0374-2800542 Fax 0374-2801796

Dated: 25.08.2021

To
The Principal Chief Conservator of Forest &
Chief Wild Life Warden
Office of the Principal Chief Conservator of Forest &
Head Of Forest Forces
Aranya Bhawan, Panjabari, Guwahati, Assam – 781037

Subject:

Submission of Wildlife Conservation Plan for Schedule-1 species for "Onshore Oil & Gas development drilling and production" in Tinsukia and Dibrugarh districts under Hugrijan, Naharkatiya & Naharkatiya Extn, Sapkaint and few parts of Dumduma (BlockA & B), Borhat and Moran Extn PMLs, of Oil India Limited.

Sir,

Oil India Limited, has applied Environment Clearance from MoEF&CC for the above-mentioned project vides online File No. J-11011/388/2016-IA-II(I).

According to the requirement of Environment Clearance application, we are herewith submitting the Wildlife Conservation Plan for Schedule-1 species against our above proposal for your kind consideration.

Thanking you,

Yours faithfully
Oil India Limited

(Sarbeswar Basumatary)

Chief General Manager (HSE) & Nodal Officer (EC, FC, NBWL)
For Resident Chief Executive

Guwahati-1

## Annexure - II

-	CER	expenditure i	n Crores duri	ng F.Y. 2022-23	3 to F.Y. 2023	3-24 (upto 3	0th September 2023)	
District	Health Care	Education	Plantation	Skill development of women	Industrial Training for students	Sports & Cultural events	Social Development/Infrastructure (Drinking Water, Toilets, Road repair, Flood Protection/Erosion control etc.,)	Total
Tinsukia (Assam)	4.54	3.90	3.67	2.82	25	0.48	23.55	38.96
Dibrugarh (Assam)	5.04	4.89	-	4.72	0.26	0.54	16:97	32.42
Charaideo (Assam)	1.17	2.78	<u>.</u>	1.52	() = () = () = () = () = () = () = () =	0.13	4.83	10.43



#### ANNEXURE - III

#### AWARENESS DRIVE ON BAN OF SINGLE USE PLASTIC AT NAHARKATIA MV SCHOOL ON 24.05.2023







তিনিচুকীয়া, মঙলবাৰ, ২২ শাওণ, ১৯৪৫ শক

Tinsukia, Tuesday, August 8, 2023

# Oil India Limited



P.O. Dullajan - 786602, Assam, India. CIN: L11101AS1959G01001148

The Ministry of Environment, Forest and Climate Change (MoEF&CC) has accorded Environmental Clearance for Onshore Oil & Gas development drilling against the proposal No. IA/AS/IND2/248260/2016 under the provisions of EIA Notification, 2006.

The copy of Environmental Clearance, F.No. J-11011/388/2016-IA II (I) dated 31 07.2023 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

THE SENTINEL TUESDAY & AUGUST 2023 DIBRUGARH



P.O. Dullajan - 786602, Assam. India. CIN: L11101AS1959GO1001448

The Ministry of Environment Forest and Climate Change (MoEF&CC) has accorded Environmental Clearance for Onshore Oil & Gas development drilling against the proposal No. 1A/AS/IND2/248360/2016 under the provisions of EIA Notification, 2006.

The copy of Environmental Clearance PNo J-110717388/2016-IA II (I) dated 31 07 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



## ANNEXURE - A

## ENVIRONMENT MANAGEMENT CELL OF OIL INDIA LIMITED - FHQ, DULIAJAN

No	NAME	DESIGNATION	QUALIFICATION
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 (HSE)	B.E (Civil Engineering), M.Tech (Environmental Engineering)





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



#### Contents

S.No	V	Content
1.0	INTROD	DUCTION
2.0	Enviror	mental Management Plan
3.0	IMPACT	ASSESSMENT
	4.1	Air Quality
	4.2	Noise Quality
	4.3	Soil Quality
	4.4	Water Quality and Hydrogeology
	4.5	Biological Environment
	4.6	Socio-Economic Environment
	4.7	Impact on Community Health & Safety
4.0	DETA	IL ENVIRONMENTAL MANAGEMENT PLAN
	5.1	Air Quality Management Plan
	5.2	Noise Management Plan
_	5.3	Soil Quality Management Plan
	5.4	Surface Water Quality Management Plan
	5.5	Ground Water Quality Management Plan
	5.6	Waste Management Plan
	5.7	Wildlife Management Plan
	5.8	Pood Safety & Traffic Management Plan
-	5.9	Occupation Health & Safety Management Plan
-	5.10	Management of Social issues and concerns
-	5.11	Emergency Response Plan
5.0	Envir	onment Management Matrix
6.0	Sumr	nary and Conclusion

#### 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 18th 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

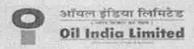
This Environmental Management Plan and Monitoring Framework is a site-specific document for the drilling activities that have been developed to ensure that OIL can implement the project in an environmentally conscious manner and where all contractors, understand the potential environmental risks arising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



#### **ENVIRONMENT POLICY**

Oil India Limited is guided by its Core purpose of "being a fastest growing energy company with global presence and providing value to all stake holders". Currently as an E&P company, OIL has a pan India presence with overseas foot prints.

In alignment with the core purpose, OIL is deeply committed to the Preservation of Environment & Ecology, Sustainable Development, Enrichment of the quality of life of Employees, Customers and the Community around its operational areas.

In pursuance of the above mentioned policy OIL is committed to:

- 1. Ensure an environment friendly work place in all our operations.
- 2. Comply with relevant Environmental Laws and Regulations in OIL's operations, prescribed by the statutory bodies...
- 3. Follow a systemic approach to Environmental Management Plan in order to achieve continual performance improvement.
- 4. Adopt technologies that conserve energy, prevent pollution, maximize recycling, reduce wastes, discharge and emissions.
- 5. Develop green belts and plant trees in and around OIL's operational areas in harmony with nature.
- 6. Protect aesthetic, cultural, social patterns and historical characteristics in and around OIL's operational areas.
- 7. Promote a culture among OIL employees, contractors and all the stake holders associated with OIL for shared responsibility towards environmental protection.

8. Promote and nurture a healthy, safe & productive environment in its area of operations

be a

DIRECTOR (OPERATIONS)

Effective Date: 25th April, 2012

Approved in the 420th Board Meeting

#### 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, NOx and SOx that may affect the ambient air quality temporarily. Air pollutants like particulate matter, hydrocarbons and NOx 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 therunning of drilling rig and ancillary equipment *viz.* shale shakers, mud pumps and diesel generators, gas generators.
- <u>3.3 Soil Quality:</u> 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 reachsurface water channels and increase the suspended solids load of the channel water. Increaseof 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 though forest areas, as most of the mammals movement occurs during night;
- Noise levels at the drill siteswill 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

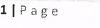
S No	Activity	Ref	Aspect	Impact	Mitigation Measures	Monitoring	Timing/ Frequency	Responsible Party	Related Plans
1.	Physical Presence of drill site, rig and other machinery.	1.1	Change in visual characteristics of the area due to installation of drilling setup		On completion of works (in phases) all 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
-80	¥.	1.2	Increase of illumination at night time due to installation of drilling setup	disturbance of the	Appropriate shading of lights to prevent scattering	Grievance records/ Consultation with Villagers	Construction & Drilling	OIL/Contractor	Management o social issues & concerns
		1.3	Influx of man power & immigrant labour force to nearby villages		Preference used of local labour forces to the extent possible	Grievance records	Construction & Drilling	OIL/Contractor	Management o social issues 8 concerns
2.	Storage & Handling of Materials & Spoils		Emission of fugitive dust from loading & unloading operation		All loading and unloading activities to be carried out as close as possible to the storage facilities.	Site Inspection	Construction & Drilling	OIL/Contractor	Air Qualit Management
	al a	2.2	Accidental spillage of oil & chemicals	contamination surface water	All spills to be reported and contained to prevent entry of spilled chemicals/fuels to any surface water body or drainage channel	spills/Community	Construction &Drilling	OIL/Contractor	Surface wate quality management plan, Wildlife Management Plan
	3	ll lie	*	Potential impact on soil quality	All spills to be reported and remedial measures to be taken for clean-up of the spill.	Spills/Site	Construction & Drilling	OIL/Contractor	Spill management plan



**10** | Page



No	Activity	Ref	Aspect	Impact	Mitigation Measures	Monitoring	Timing/ Frequency	Responsible Party	Related Plans
3.	Transport Materials, Spoils ar Machinery	of 3.1	Emission of gaseou pollutants from vehicl during transportation of materials, spoils an machinery	of air quality alon	n equipment will be regular	ne	ite Construction &Drilling		Air Quali Management plan
					Vehicle / equipment a emissions will be controlled by good practice procedure (such as turning of equipment when not in use)  Vehicle / equipment exhausts observed emitting significant black smoke in their exhausts will be	es fff ; t g		30	
	a	3.2	Noise emission during transport of materials, spoils and machinery	deterioration in ambient noise	Undertake preventive maintenance of vehicles and machinery to reduce noise levels.	Inspection/Recor ds of	Construction & Drilling	OIL/Contractor	Noise Quality Management Plan
1	Operation &	4.1	Fried a final part of the part		Restriction on unnecessary use of horns by trucks and vehicle in settlement area			8	
	maintenance of rig and associated machinery.		Hom DG/GG sets	on air quality due	Preventive maintenance of DG sets to be undertaken as per manufacturers schedule	Site Inspection/Recor ds of repairs	Drilling	OIL/Contractor	Air Quality Management plan
	-		DG/GG sets	ncrease of h	All workers working near nigh noise generating equipment to be provided		Drilling		Noise Quality Management Plan and





La catalità	Ref	Aspect	Impact	Mitigation Measures	Monitoring	Timing/ Frequency	Responsible Party	Related Plans
Activity	Ket							Occupational -
			work place noise	With the second				Health & Safety
		2	level	equipment			-	Management
								Plan
W 2								
				Preventive maintenance of			E "	
				machinery to be undertaker				
				as per manufacturers	3			
				schedule				
	1			30.130	1.			
	1							
		1						
4				Install sufficient engineerin	g			
				control (mufflers) to reduce	e			n - 1
	1			noise level at source				1
				Holse level at 304, 66				Noise Qualit
				All workers working nea	ar Site	Drilling of Wells	OIL/Contractor	
Y	4.3	Emission of noise from			ng .			Management
	14	operation of the rig	increase C					Plan ai
			ambient as well	a equipment to be provide			1	Occupational
			work place nois	e with Personal Protection	/e			Health & Safe
1			level	equipment				Management
A	1			1				Plan
	4			A contract of the contract of				1.75.
						6		
				Preventive maintenance	of			
V		24		machinery to be undertak	en			
				as per manufactur	ers			
				schedule				
							011/01-1	None
			d Danlatian	of Optimize use of water dur	ing Record Keep	ing Construction & Drilling	OIL/Contractor	None
	4.4			ter drilling operations	and Auditing		14	
		water for project usage	0	Lei di liling operations				
			resources	N.				Noise Qua
				Preventive maintenance	of Recording	of Drilling of Wells	OIL/Contractor	
	4.			of machinery to be underta	ken Noise			Management
		during preparation	of increase	1		n #		Plan
/		drilling mud	ambient & w	1	C13			Occupationa
			place noise leve	schedule				Health &Sa
				2 2				Management
						117.5		



B

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		White Committee of the Article	2	Plan
		4.6		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
0 2 2	Tip .	4.7		on surface water	All spill to be contained so that it does not reach any surface water body or drainage channels		Drilling of Wells	OIL/Contractor	Surface water quality management plan
<b>5.</b>	Operation & maintenance of Vehicles	5.1	Emission of Noise from vehicles	increase of noise	Preventive maintenance of vehicles to be undertaken as and when required		Construction & Drilling	OIL/Contractor	Noise quality management plan
p 0		5.2	Emission of gaseous air pollutant from vehicles	deterioration air	Preventive maintenance of vehicles to be undertaken as and when required		Construction & Drilling	OIL/Contractor	Air quality management plan
ж У4		5.3	Spillage of fuels & lubricants from vehicles	soil resulting loss	Adopt best practices e.g. use pumps and dispensing nozzle for transfer of fuel, use of drip trays. Etc.	Inspections/Audit	Construction & Drilling	OIL/Contractor	Spill Management plan
	転			Impact on surface water quality and	The drainage system on site to be provided with Sedimentation tank and Oil-	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	increase of	Install sufficient engineering control on equipment and machineries (like mufflers in DG sets) to reduce noise and vibration emission levels at		Drilling of Wells	OIL/Contractor	Noise quality management plan
				3	source, carry out proper maintenance and subject them to rigid noise and vibration control procedures.	3 9 *			
		6.2	Loss of drilling mud and cement slurry during casing of well	contamination of	Proper engineering controls during cementing operation to prevent migration of drilling mud and cement slurry into ground water aquifer	Inspection	Drilling of Wells	OIL/Contractor	Ground water quality management plan
7.	Temporary storage, handling & disposal of process waste	1	Accidental spillage of process waste (unused cement slurry, return mud & drill cuttings) at the temporary storage site	contamination of soil and ground	3	Drilling and Decommissioning Phases		nd OIL/Contractor	Ground water quality management plan
		7.2	temporary storage site	water quality and	All Temporary waste storage area will have proper bunds to prevent any escape of contaminated runoff		Drilling and Decommissioning Phases	nd OIL/Contractor	Surface water quality management plan and Spill Management plan
			-	10	Ensure that any runoff from such temporary storage area			n n	





No	Activity	Ref	Aspect	Impact	Mitigation Measures	Monitoring	Timing/ Frequency	Responsible Party	Related Plans
STATISTICS.					are channelized into ETP	18			
£		7.3		soil resulting in loss of soil living	Dispose process waste and domestic waste as per regulation/ best practices  Dispose debris and waste in designated areas and as per plan to prevent degradation of land		Construction & Drilling	OIL/Contractor	Waste Management Plan and Spill Management plan
		7.4	Accidental leakage/spillage of oils and lubricants from temporary storages	surface water resulting in deterioration of surface water	All chemical and fuel storage areas will have proper bunds so that contaminated run-off cannot escape into the storm-water drainage system.  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.		Construction & Drilling	OIL/Contractor	Waste Management Plan and Spill Management plan
. ,		7.5	Disposal/spillage of spent oils & lubricants into environmental media	soil resulting loss	authorized dealer	100	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					
20 20 m		7.6	Disposal of used battery & spent filters in environmental media		Ensure recycling of waste through authorized waste recycler		Construction & Drilling	OIL/Contractor	Waste Management Plan and Spill Management plan
		7.7	Offsite disposal of metallic, packing, scrap	Localized visual impacts	3 27	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.	localized	Proper engineering controls to ensure complete combustion of gas  Location of Flare stack to be chosen considering the sensitive receptors adjoining the site		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			Site Inspection	Construction & Drilling	OIL/Contractor	Spill Management plan
				for workers involved in	Personal protective equipment to be provided to workers involving in handling of hazardous materials	I .	Construction & Drilling	OIL/Contractor	Health and Safety Plan



No	Activity	Re	f Aspect	Impact	Mitigation Measures	Monitoring	There are		
	Technical	10.	1 Probabilian of the				Timing/ Frequency	Responsible Party	Related Plans
10.	Emergencies				rse Proper engineering controls on to prevent leakage of sour	Site Inspection	Drilling	OIL/Contractor	Emergency
	2	P	hydro-carbons due failure of safety devices	o i personnel.	gases &				Response Plan
			2	assets	Obtain an early warning of				
					emergency conditions so as to prevent a negative impact				
			*		on personnel, the environment, and assets		-	-	
					Safeguard personnel to prevent injuries or loss of life				
			:4		by either protecting personnel from the hazard			1	
					and/or evacuating them				
			_		from the facilities				
	*				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	×			
					Develop evacuation				
					procedures to handle		**		
	Dismantling of	11.1	Emission of noise during	T	emergency situations.	e J		·	
11.	rig & associated machineries		dismantling of rig	deterioration of ambient noise	All noise generating activities Sit will be restricted during day time	1	Well Decommissioning Phase	OIL/Contractor	Noise quality management
	domineries			quality resulting in discomfort	=			-	plan
		11.2	Generation of waste during dismantling of rig i			Inspection V	Vell Decommissioning	Oll /Contractor	10/-
Pag					designated areas only recyclable waste should be recycled through authorized	F	hase		Waste Management Plan

& O

	Activity	Ref	Aspect	Impact	Mitigation Measures	Monitoring	Timing/ Frequency	Responsible Party	Related Plans
	Activity				water recycler				Waste
		11.3	spent oils & lubricants	3011 102311 8	Mariage	Site Inspection and Record keeping	Well Decommissioning Phase	OIL/Contractor	Management Plan
			into environmental media	organism  Contamination of surface water	1				
				resulting deterioration of surface water					
	4			quality and aquation ecosystem		ir Site Inspection	on Well Decommissionin	og OIL/Contractor	Air qualit
12.	Transportatio of drillir facilities		Emission of gaseous al pollutant durin transportation of drillin facilities	g localized g deterioration of a	equipment when not in use and	ed and Reco keeping off e);	Phase		management plan
					exhausts observed emitt significant black smoke their exhausts will serviced/replaced	ing in be		ing OIL/Contractor	Air qua
4	<i>u</i> .	12	.2 Fugitive emissions due re-entrainment of d during transport drilling facilities	of deterioration of quality due increase in S	sprinkled daily with water air to	be Site Inspection	Well Decommission Phase	ing Oil/Contractor	management plan
		1	2.3 Emission of noise du transport of dri facilities	ring Temporary ling deterioration noise quality	Restrict all noise general of operations, except drillin daytime	ating Site Inspection	n Well Decommission Phase	ning OIL/Contractor	Noise qu management plan



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	1		9	



#### 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	(s)		
	Minor	Minor		
	Major	Moderate		
Aquatic Ecology	Moderate	Moderate		
Livelihood & Income generation	Moderate	Moderate		
Conflict with local people	Moderate	Moderate		
Benefit to Local Enterprises	Positive	105%		
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**



Health Safety & Environment Department

P.O. DULIAJAN-786602, ASSAM, INDIA Phone: 0374-2800542 Fax: 0374-2801796

Email: safety@oilindla.in

Ref. No.: S&E/E/21(B)/940

Date: 20.09.2023

To
The Member Secretary,
Pollution Control Board, Assam,
Bamunimaidam, Guwahati- 781021.

**Sub:** Submission of Environmental Statement (Form-V) under 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 31st March, 2023 pertaining to the operations of Oil India Limited in the districts of Dibrugarh, Tinsukia, Sivsagar and Charaideo in Assam.

Thanking You,

Yours faithfully OIL INDIA LIMITED

(Ajit Chandra Haloi) Executive Director (HSE)

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 31st MARCH, 2023

#### 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. 2022-23:

- Crude Oil: 3.114 MMT.
- Natural Gas: 2809.214 MMSCM
- LPG: 32,100 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 14th Oct. 1981, OIL became a fully owned Govt. of India Enterprise.

(v) Date of last Environmental Statement submitted: 20.09.2022.

## <u>PART - B</u> WATER AND RAW MATERIAL CONSUMPTION

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

S.No	Purpose	Water Consumption (m <sup>3</sup> / day)
1.	Process & Cooling	14473.7
2.	Domestic	16038.63
	TOTAL	30512.33

Name of Products	Process water consumption per unit of product output		
	During F.Y. 2021-22	During F.Y. 2022-23	
(1)	(2)	(3)	
Hydrocarbon (Crude	1.12 m <sup>3</sup> /MT	1 m³/MT	
Oil, Natural Gas, LPG)	(Approx.)	(Approx.)	

#### (II) Raw material consumption

*Name of raw materials	Name of products		f raw material per init
		During	During
		F.Y. 2021-22	F.Y. 2022-23

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	NIL. There is no discharge of pollutants from drilling locations and Production Installations.  • Wastewater generated from drilling locations is treated in Effluent Treatment Plant (ETP) and reused back in the drilling operation.  • The formation water generated after separation from crude oil and	<ul> <li>Quality of ETP treated water from the drilling locations is analyzed frequently. (Test report is enclosed as Annexure - 1).</li> <li>Quality of Formation water is analyzed frequently (Test report enclosed as Annexure-</li> </ul>	treated effluent and Formation water are within

	treatment is pumped back to the underground formation (depth greater than 1600 m) through formation water disposal wells.	II)	
(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.	Ambient Air Quality (AAQ) monitoring is carried out frequently at drilling locations and Production Installations (Test report enclosed as	

#### PART – D HAZARDOUS WASTES

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

Hazardou	s Category of Hazardous	Total Quanti	ty generated	
Wastes	Waste as per Schedule - I of HW Rules, 2016	During F.Y. 2021-22	During F.Y. 2022-23	
a) From process	S.No. 2.2 Sludge containing Oil	9943 MT	4671.52 MT	
process	S.No. 5.1 Used or Spent Oil	60 KL	208 KL	
n	S.No. 33.1 Empty barrels/containers/liners contaminated with hazardous chemicals/wastes	41569 Nos.	26616 Nos.	
	S.No. 33.2 Contaminated cotton rags or other cleaning materials	3.7 MT	6.19 MT	
b) From pollution control facilities	from waste water treatment	2600 KL	120.84 KL	

#### PART - E SOLID WASTES

Solid Wastes	Total Quantity		
	During F.Y. 2021-22	During F.Y. 2022-23	
(a) From process			
	23,000 m <sup>3</sup>	27,000 m <sup>3</sup>	
Drill Cuttings	(Approx.)	(Approx.)	
(b) From pollution control facilities	N	IL	
(c)			
(1) Quantity recycled or re-utilized within	N	/A	
the unit.			
(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 F.Y. 2022-23	Disposal Practices
a)	Sludge containing Oil	4671.52 MT	Sent to Sludge Processing Plant for oil recovery followed by Bioremediation
b)	Used or Spent Oil	208 KL	Stored in barrels under covered shed and sold to authorized recyclers through auction
c)	Empty barrels/ containers/liners contaminated with hazardous chemicals/ wastes	26616 Nos	Sold to authorized recyclers through auction
d)	Contaminated cotton rags or other cleaning materials	6.19 MT	Bioremediation
e)	Chemical sludge from waste water treatment	120.84 KL	Disposed in HDPE lined pits



#### (I) Solid Wastes:

Name of the Solid Waste	Quantity generated during F.Y. 2022-23	Disposal Practices
a) Drill Cuttings	27,000 m <sup>3</sup> (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.



## Pollution Control Board, Assam

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

#### Annexure - I

ISO 9001:2015 Certified ISO 45001:2018 Certified

Report No.: ENV/ARDS/22-23/S-07/WW-03/01

: 22/03/2023 Date

Order No.: Telecon

Date

Report Issued To: ADITIR & D SERVICES

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

#### TEST RESULTS

Sample Ref. No.: ARDS/2023/5-07/1303/01

Sample Source : Rig S#7/MFT, Sonari

Sample Type: ETP Treated Water (RO)

Collected On : 13-03-2023

Received On : 14-03-2023

Collected By : ETP Supervisor, ARDS

SL No.	Parameters	Results	Limit [G.S.R. 176(E), 02.04.1996
1	Colour	Colourfess	Colourless
2	Odour	Odourless	Odourless
3	pfl value	7.16	5.5 - 9.0
4	Temperature, °C	25.6	40 °C
5	TSS, mg/l	3,9	100
6	BOD, mg/l	<1.0	30
7	COD, mg/l	18	100
8	Chlorides (as CI), mg/I	3.6	600
9	Sulfates (as SO <sub>4</sub> ), mg/l	<1.0	1000
10	TDS. mg/l	61	2100
11	Sodfum. (%)	1.6	60
12	Oil & Grease, mg/l	<4.0	10
13	Phenolic Compounds as CoHsOH, mg/l	<0.00T	1.2
14	Cyanides , mg/l	<0.001	0.2
1.5	Fluorides (as F), mg/l	<0.01	1.5
16	Sulfide (as S), mg/l	<0.01	2.0
17	Chromium (Cr-6), 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

NOTE: 1. Results reported are valid at the time of and under the provailing conditions of measurement.

2. Results refer only to the particular parameters tested.

3. This test report shall not be reproduced except in full, without the written permission of ENVIROCON, LO.C.L. (AOD) New Market, Dighoi - 786171, Assam.

Core Services: Environmental Manitoring & Data Generation, EIA & EMP, Environmental Audit & Allied Environmental Management jobs Associate Services: Certification by Competent Person (CIF), NDT, Hydraulic Testing, Chartered Engineer Services etc.



## Annexure - II CHEMICAL LABORATORY

(An ISO 9001: 2015 Certified Laboratory)

CHEMICAL DEPARTMENT, DULIAJAN 786 602, ASSAM, INDIA (Phone: 91-374-2800439, Fax: 91-374-2801680/2800633. Email: chemical@ollindla.in)

For internal use only

Ref. No.: Chem/Ana/Misc/466/DJN/23

CGM-PSS 474032023

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

Date: 23.03.20232 4 MAR 2023

Od Babil. L. Millia.

Sub: WATER SAMPLE ANALYSIS REPORT OF STF MADHUBAN

Ref.:- PSS/ STF-35/2022-23/434,

Date:- 21.03.2023

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

Characteristics	Unit	Clarified water sample	Test Method/ Instrument used
рН		8.4	Metrohm pH meter
TSS	mg/l	56	Gravimetric method
TDS	mg/l	4100	Grayimetric method
Salinity as NaCl	mg/l	2100	Titraton with silver nitrate
Oil & Grease	mg/l	Nil	Horiba oil content analyser
Turbidity	NTU	6.02	Turbidity meter

#### Sample details:

The above clarified water sample was collected by PSS Department from STF Madhuban on 21.03.2023 & received at Analytical & Environmental laboratory on 21.03.2023 for necessary laboratory testing.

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

Tested by :- WR/PJK/PS/NC

Pranab Jyoti Das

Suptdg. Chemist (Lab)

For DGM-Chemical (Lab)

Copy: Analytical & Environmental sec. file

Chemi aly A my Day and Wester 104



### STACK GAS MONITORING REPORT

N W. Addrson of the	Cuctomer	Report No.	: MSK/2022-23/1881
Name & Address of the Customer		Report Date	31.01,2023
"M/s OIL INDIA LIMITED"		Nature of Sample	: Stack Emission
Duliajaa, Dibrugarh, Assam-786602		Sample Mark	GCS TENGAKHAT
		Sample Number	: MSKGL/ED/2022-23/12/00398
Ref. No.: W.O. NO \$12598	1 of Contract No. 6116895		
Date of Sampling Sample Received Date		Analysis Start Date	Analysis Complete Date
14.12.2022 17.12.2022		17.12.2022	24.12.2022
ET. 82.404			

4. I	General information about stack :	: GB-1				
	Stack connected to	: GAS COMORESSOR				
2.	Emission due to	:NG				
	Material of construction of Stack	: MS				
	Shape of Stack	Circular				
5.	Whether stack is provided with permanent platform & ladder	: Yes				
). ).	DG capacity	: NEL				
3.	Physical characteristics of stack :					
1	Height of the suck from ground level	: 3.6576 m				
2.	Diameter of the stack at sampling point	: 0.2032 m				
3.	Area of Stack	: 0.03241 m2				
C.	Analysis/Characteristic of stack:					
D.	Result of sampling & analysis of gaseous emission	Result	Limit as per CPCB	Method		
1	Temperature of emission (°C)	187	(H)	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.)	24.4		USEPA Part 2, 25.09.1996		
4.	Quantity of Gas Flow (Nm3/hr)	1854	1000	USEPA Part 2, 25.09.1996		
5.	Concentration of Oxygen (%v/v)	13.6	365	(S:13270 :1992 Reaff, 2014		
6.	Concentration of Carbon Monoxide (mg/Nrn3)	25.1	49.4	IS:13270:1992 Reaff, 2014		
7	Concentration of Carbon Dioxide (%v/v)	5.8	200	IS:13270:1992 Reaff, 2014		
8.	Concentration of Sulphur Dioxide (mg/Nm3)	20.5	200	USEPA-29, 25/06/1996		
9.	Concentration of Nitrogen Oxide (ppmv)	69.3	***	USEPA Part-6, 25/09/1996		
10.	2.0	<0.005	io.	USEPA Part-7, 12/03/1996& USEPA 18 -25.09.1996		
11	Concentration of Particulate matter (mg/Nm3)	35.9	411	USEPA Part-17, 16/08/1996		
12		13.46	255	USEPA 18-25.09.1996		
E.	Pollution control device : Remarks:Nil  Details of pollution control devices attached with the stack : Nil					

Analyzed By:

Prepared By:

**Authorized Signatory** ForMitra S.K. Private-timited

: Mr. Kaintof Flaque

Signature Name

Designation.

: Mr. Dipankar Mazumdar

Signature Name

: Mr. Dhrubajyoti Das : Assistant Chemist

Signature

Name Designation : Branch Manager

: Executive Chemist

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

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Our Lob is Approved by NABL & MOEF, Lab Address: P-48 Udoyan Industrial Extote. 3 Paglodungo Road Kol-7000[3

Designation.

Head Office: Shrucki Centre (5th Boot), 74B, A.J.C. Buse Road, Koltata - 700 016. West Bengal, India. Tel.: 91 33 40143000 / 22650006 / 22650007 Pax: 91 33 22650008 Email: info@mitrast.com. Website: www.mitrast.com.

Approved by Uttain Prodhan

Suptdg. Research Scientist, R&D Dept., Oil India Ltd., Duliajan, Assan



## Ambient Air Quality Monitoring Report

Name & Address of the Customer :			Report No.: MSK/2022-23/1463				
"M/s OIL INDIA LIMITED", Duliajan, Dibrugarh, Assam-786602			Report Date: 30.12.2022				
			Sample Description : Ambient Air				
			Sample Number: MSKGL/ED/2022-23/12/00252				
			Sampling Location: GCS TENGAKHAT				
	.: W.O. NO 8125981 of Contract No. 6	116895		N 27 23 55 E 9500			
Date of Sampling Sample F		Received Date	Analysis Start Date		Analysis Complete Date		
		.11,2022	18 11 2022		Control of the contro		
Enviror	mental Conditions During Sampling	& Transport Cond	lition: Temperatur	re: 26°C Rain fall :	NO.	1.2022	
		Anai	ysis Result	o, runt tan .	110		
SI. No.	Test Parameter		Method	Unit	Results	COORAG	
Í	Particulate Matter ( PM <sub>10</sub> )	IS: 5182 (Part-23)-2006		(µg/m3)	59.2	CPCB LIm	
2.	Particulate Matter ( PM;;)	IS: 5182 (Part-24)		(µg/m3)		100	
3.	Sulphur Dioxide (SO <sub>2</sub> )	IS: 5182 (Pert-2)-2001			28.1	60	
4	Nitrogen Dioxide (NO2)	IS: 5182 (Part-6)-2006		(µg/m3)	<6.0	80	
5	Carbon Monoxide (CO)	IS 5182 : (Part-		(µg/m3)	16.8	80	
6	Ozons (O <sub>2</sub> )	IS:5182 (Part-IX)-1974		(mg/m3)	0.59	2	
7	Ammonia ( NH)	Reaffirmed-2019		(µg/m3)	<20.0	180	
8	Lead (Pb)	IS 5182 (Part 25) : 2018		(µg/m3)	<10.0	400	
9	Nickel (Ni )	USEPA IO-3.4		(µg/m3)	<0.01	f	
10.	Arsenic (As )	USEPA 10-3.4		(ng/m3)	<0,5	20	
11.		USEPA 10-3.4		(ng/m3)	<1.0	6	
12.	Benzene (C <sub>6</sub> H <sub>6</sub> )	IS 5182 : (Part 11) :2006		(µg/m3)	<4.2	5	
_	Benzo(a)Pyrene ( BaP )	IS 5182 : (Part 12) :2004		(ng/m3)	<0.5	1	
13.	Mercury (Hg)	USEPA IO-5.0		(µg/m3)	<0.002		
14.	Methane (Hydrocarbon)	IS 5182 : (Part 17)		ppm	1.38	100	
15,	Non-methane (Hydrocarbon)	IS 5182 : (Part 17)		ppm	<0.5		
16	Total Hydrocarbon	1S 5182 : (Part 17)		ppm	1.38		
17.	Volatile Organic Compounds (VOC)	IS 5182 : (PART-11):2006		(#g/m3)	<4.2		
mit as po	er CPCB notification, New Dolhi, 18th N	100 2000 for A-L:	ema al	(FØIID)	4.2		

Analyzed By:

Signature

Designation.

Name

Prepared By:

Delayroley

Executive Chemist

: Mr. Dipankar Mazumdar

Signature Name Designation,

: Mr. Dhrubajyoti Das : Assistant Chemist

Authorized Signatory Follow For Mitra S.K. Private Limited

Signature Name

Designation Brook Manage

The results reinte only to the item(s) tessed.

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Our Lab is Approved by NABL & MOEF, Lab Address :P-48 Udayan Industrial Estate, 3 Pagladanga Road Eol-760015

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

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

Tulded Approved by Uttam Prodhan Suptdg. Research Scientist. R&D Dept. Oil India Ltd., Du liajan, Assam



## 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

No WB/T-311/21-22/314

Dated Guwahati the, 1311-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**

Sí. 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/arroum)	Mode of Management
1.	Schedule-I, SUNo. 2.2 Sludge containing oil	Generation Storage & Transportation	4000 T/Annum	Transportation to authorized actual user/Disposal agences/ Captive treatment through Bio-remodiation as per prescribed norms after recovery of oil
7.	Schedule-I, St No. 33.2 Contaminated cotton rags or other cleaning materials	Generation, Storage & Transportation	300 T/Amaum	Transportation to suition sed Disposal agencies for Incineration/ Co-Processing in cement plant.
3	Schedule-I, St.No. 33.1 Empty barrels/containers/liners contaminated with hazardous chemicals/wastes	Generation, Storage & Transportation	15000 Nos./Annum	Transportation to anthorized actual user/Recyclers
4.	Schedule-I, St.No. 5.1 Used or spent oil	Generation, Storage & Transportation	500 KI /Annum	Transportation to authorized actual user/Recyclers
5.	Schedule-I, SLNo. 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 previsions of the Environment (Protection) Act, 1986, and the rules made there under.
  - 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.
  - 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

MAJIE



- 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"
- It is the duty of the authorised person to take prior permission of the State Pollution Control Board to close down the facility.
- 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 Contral 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:

- 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)
- The Unit Shall Provide The Transporter Witin The Relevant Information In Form 9 Regarding The Hazardous Nature Of The Wasles And Measures To Be Taken In Case Of An Emergency
- 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.
- The unit shall prepare 6 (six) copies of the manifest in From-10 as per Rules-19(1) for every transit of consignment of hazardous Waste under this authorization.
- Any other conditions for compliance as per the guidelines issued by the Ministry of Environment. Forests & Climate Change, GOI. New-Delhi & Central Poliution Control Board, Delhi shall be compiled.
- 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.
- 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.
- 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.
- 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 /4 Oct, 2022

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

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



(Shantanu Kr. Dutta) Member Secretary