

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	
Deputy Director General of Forests (Central), Sub Office, Guwahati (under Regional Office, Shillong), 4th Floor, Housefed Building, Rukminigaon, Guwahati-781022. (Fmail: iro guwahati-mefce@gov in iro moefec ghy@gmail		Sub Office, Guwahati (under Regional Office, Shillong), 4th Floor, Housefed Building, Rukminigaon,	
Submission of Half-yearly (April 2023 to		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 an Doomdooma Pengry area, Assam by M/s O 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)	Onshore Oil & Gas development drilling and		
	dated 28.12.2020	production by M/S Oil India Ltd in Dibrugarh		
5.	* 1	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: Extension Drilling & Testing of Hydrocarbons at 7 (Seven) locations under Dibru-Saikhowa National Park Area, North-West of Baghjan PML, District Tinsukia, Assam by
- Clearance L.No and date: J-11011/150/2016- IA II (I) dated 11.05.2020.
- Period of Compliance Report: April 2023 to September 2023.
- Status of the Project: No drilling activity has been started.

Sl. No.	Specific Condition	Compliance status
1.	No drilling shall be conducted in forest areas without obtaining prior permission under the Forest (Conservation) Act, 1980.	Complied. The Plinth areas of the proposed project area falling outside the forest area.
		However, for the drilling below the Dibra Saikhowa National Park area, necessary Fore Clearance proposal has been submitted vid proposal No. FP/AS/MIN/28749/2017, date 04-09-2017. OIL will drill the well after the state of the same of
2.	Drilling in the National Park/Wildlife Sanctuaries are subject to the recommendations of orders of Hon'ble Supreme Court recommendations of Standing Committee of NBWL, recommendations of the State Chief Wildlife Warden and strict compliance of the conditions imposed therein.	Complied.
3.	Necessary permission as mandated under the Water (Prevention and Control of Pollution) Act, 1974 and the Air (Prevention and Control of Pollution) Act, 1981, as applicable from time to time, shall be obtained from the State Pollution Control Board.	Will be Complied Consent To Establish (CTE) and Consent To Operate (CTO) will be obtained before commencement of drilling activities.
, A.	As proposed by the project proponent, Zero Liquid Discharge shall be ensured and no waste/treated water shall be discharged to any surface water body, sea and/or on land. Mobile ETP along with RO plant shall be installed to treat the waste water	Will be complied. Zero Liquid Discharge will be maintained at the drilling locations. Mobile ETP coupled with RO will be installed to treat the
*	suitable pollution control devices shall be installed to meet the prescribed norms and/ or the NAAQS. The gaseous emissions shall be dispersed through stack of adequate height as per CPCB/SPCB guidelines.	wastewater. Will be Complied Adequate Stack heights will be provided in DG sets as per CPCB guidelines.
i	Necessary authorization required under the Hazardous and other Wastes (Management and Trans-Boundary Movement) Rules, 2016, Solid Waste Management Rules, 2016, Illustrational Rules, 2016, Solid	Hom Foliution Control Board, Assam vide No.
S	and the provisions contained in the Rules shall be strictly adhered to.	WB/T-311/21-22/329 dated 13.10.2022
n		Complied Ambient Air Quality will be monitored as



	Ctondards issues hy	per NAAQS, 2009.
	Ambient Air quality Emission Standards issues by	political
	A STATE OF THE RESIDENCE OF THE PROPERTY OF TH	
1	November, 2009 for PM ₁₀ , P ₁ V _{12.5} , 3O ₂ , 1\(\text{TO}\),	
- 11	CH. HC Non-methane HC etc.	Will be Complied
-		- 11 Mark: good effector W. EXDIOSINICION
1	the frigitive emission of litetiane, it miles	shall be used to detect fugitive emissions of
1	shall be monitored using mira-red cumora	Methane (if any).
- 3	appropriate technology.	Will be Complied
).	proponent also to clistic	CO ₂ generated (if any) will be trapped/stored.
	trapping/storing of the CO ₂ generated, if any,	CO2 generated (if any)
-	the state of the s	TXIII L. Complied
	Approach road shall be made pucca to minimize	Will be Complied Approach road to the drilling locations and
10.	generation of suspended dust.	Approach road to the drilling rocatto
	generation of suspended dass	Production Installations will be made pucca to
		minimise generation of suspended dust.
	The company shall make all arrangements for	axed L. Complied
11.	The company shall make all artangements of the drilling activity. Acoustic	Acoustic enclosures shall be provided around
	control of noise from the drilling activity. Acoustic	l no -t- and also adequate Stack fielding share
	enclosure shall be provided for the DG sets along	be provided for DG sets as per CPCB
	with the adequate stack neight as per or or	guidelines.
	1	Will be Complied
12.	to the requirement shall not exceed 20	be obtained before extracting
12.	The managed on shall the uplatified it of	1 -tan Also ETP counled with KO Will
	the Dirichall De linkalica to reason	Transfer of the contract of th
9	l deilling everem Size of the maste	
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	1 d violume of discharged filled it airy.	
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1	To about he congrate storill water chamber	
	and rain water shall not be allowed to mix with	
-	waste water. Alternatively, if possible pit less	
	waste water. Alternatively, it possible pro-	
1	drilling be practiced instead of above.	
3		
1		A
1		
		Will be Complied
13.	The company shall construct the garland drain a	u Coulond droing shall be constructed around up
115.	1 1 Juliana este to prevent fullosi of and	1 :11:- a location to prevent runoff any of
1	the nearby water board	1 amby water house
1	designate everem shall be cleated for	1 he created to
1	instant and non-oil Collisionillation. Difficult	- :1 contominated
1	shall be properly treated and treated wastewate	er oil contaminated and non- on comme
1	to CPCR standards.	The state of the s
1	- '' " an apparate from drilling Huld Shall	be Will be Complied
14.	I the treeshad and disposed in tibi b inter-	i i diamagad in Hill
1	pit. Waste mud shall be tested for hazardo	the state of the s
1	pit. Waste mud shall be tested for hash	I :: 1 -: No effluent/ drilling muu win
1	contaminants and disposed according to HWM	the share of dienosed off the hearty surface
1	n 1 2016 No ettinent/drilling mud Shun	bodies OII will comply with the
	discharged/disposed off into nearby surface wa bodies. The company shall comply with guideling	



	for disposal of solid waste, drill cutting and drilling fluids for onshore drilling operation notified vide GSR.546 (E) dated 30 th August, 2005.	cutting and drilling fluids for onshore drilling operation notified vide GSR.546(E) dated 30 th August, 2005.
15.	Oil spillage prevention and mitigation scheme shall be prepared. In case of oil spillage/contamination, action plan shall be prepared to clean the site by	Complied In case of Oil spillage/ contamination, action will be taken as per the Oil spill contingency
2 H	adopting proven technology. The recyclable waste (oily sludge) and spent oil shall be disposed of to the authorized recyclers.	plan prepared by OIL. Recyclable waste (oily sludge) and spent oil will be sent to Pollution Control Board, Assam authorized recyclers.
16.	The company shall take necessary measures to prevent fire hazards, containing oil spill and soil remediation as needed. Possibility of using 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.	Will be Complied 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.
17.	The company shall develop a contingency plan for H ₂ S release including all necessary aspects from evacuation to resumption of normal operations. The workers shall be provided with personal H ₂ S detectors in locations of high risk of exposure along with self-containing breathing apparatus.	Will be Complied Contingency Plan for H ₂ S release was in place. OIL never encountered H ₂ 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.
18.	The company shall carry out long term subsidence study by collecting base line data before initiating drilling operation till the project lasts. The data so collected shall be submitted six monthly to be Ministry and Regional Office.	Complied. Copy of Longterm Subsidence Report enclosed as Annexure - II.
19.	Blow out Preventer system shall be installed to prevent well blowouts during drilling operations. BOP measures during drilling shall focus on maintaining well bore hydrostatic pressure by proper pre-well planning and drilling fluid logging etc.	Will be Complied Blow Out Preventer (BOP) system will be installed to prevent blowouts during drilling operations.
20.	Emergency Response Plan shall be based on the guidelines prepared by OISD, DGMS and Govt. of India.	Will be Complied OIL has site specific Emergency plan and contingency plan and Disaster management plan (DMP) based on relevant and realistic emergency scenarios.
21.	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 Indian Petroleum Regulations.	Will be complied 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.



22.	Atleast 2% of the total project cost shall be allocated for Corporate Environment Responsibility (CER) and item- wise details along with time bound action plan shall be prepared and submitted to the Ministry's Regional Office.	Will be complied.	
No lead acid batteries shall be utilized in the project/site.		Will be complied. No lead acid batteries shall be utilized at the drilling location	
24.	Occupational health surveillance of the workers shall be carried out as per the prevailing Acts and Rules.	Will be complied. Occupational Health Surveillance of workers engaged in drilling operation shall be carried out on regular basis.	
25.	Oil content in the drill cuttings shall be monitored by some Authorized agency and report shall be sent to the Ministry's Regional Office.	Will be complied.	
26.	Company 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	Complied. 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 Annexure – B. Also, all	
(5°)	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.	the environmental monitoring reports related to ambient air quality, Stack Gas monitoring, ETP effluent, Noise level will be maintained at the drilling location.	

General Condition

SI.	General Condition	Compliance status
No.		Δ
1	The Project Proponent shall obtain all other statutory/ necessary permissions/ recommendations/ NOCs prior to start of construction/ operation of the project, which inter alia include permission / approvals under the Forest (Conservation) Act. 1980; the Wildlife	*
	(Protection) Act, 1972; the Coastal Regulation Zone Notification, 2019 as amended from time to	
	time, and other Office Memorandum/ Circular issued by the Ministry Of Environment, Forest and Climate Change from time to time, as applicable to the project.	
2.	The project proponent shall ensure compliance of 'National Emission Standards', as applicable to the project, issued by the Ministry from time to time. The project proponent shall also abide by the rules/regulations issued by the CPCB/SPCB for control/abatement of pollution.	Will be complied. Ambient Air Quality monitoring shall be carried out as per NAAQS, 2009.
3.		Will be complied.



		(3)
	stipulations made by the State Pollution Control Board/ Committee, Central Pollution Control Board, State Government and any other statutory authority.	
4.	The project proponent shall prepare a site-specific conservation plan and wildlife management plan in case of the presence of Schedule - I species in the study area, as applicable to the project, and submit	Will be complied. Site of the Site-Specific Wildlife Conservation and Management Plan was submitted to Chief Wildlife Warden for approval. Copy of the
	to Chief Wildlife Warden for approval. The recommendations shall be implemented in consultation with the State Forest/ Wildlife Department in a time bound manner.	same is enclosed as Annexure – III.
5.	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.	Will be complied. No further expansion or modification other than mentioned in the EIA Notification, 2006 and its amendments, will be carried out without prior approval of the Ministry of Environment, Forest and Climate Change.
- -	In case of deviations of 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	Environment, Potest and Chinate Change.
6.	required, if any. 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 utilized for lighting purposes at the drilling locations.
7.	The locations of ambient air quality monitoring stations shall be decided in consultation with the State Pollution Control Board (SPCB) and it shall be ensured that at least one station each is installed in the unwind and downwind direction as well as where maximum ground level concentrations are anticipated.	Will be complied. Location of Ambient air quality monitoring stations will be decided in consultation with the State Pollution Control Board (SPCB)
8.	The National Ambient Air Quality Emission Standards issued by the Ministry vide G.S.R. No. 826 (E) dated 16 th November, 2009 shall be followed.	Will be complied. Ambient Air Quality monitoring will be carried out as per NAAQS, 2009.
9.	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 at the drilling locations shall be kept within the permissible limits by providing acoustic enclosures around the DG sets.
10.	The Company shall harvest rainwater from the roof tops of the buildings and storm water drains to	Will be complied.



	recharge the ground water and to utilize the same for process requirements.		
11.	Training shall be imparted to all employees on safety and health aspects of chemical handling. Pre-employment and routine periodical medical examinations for all employees shall be undertaken on regular basis. Training to all employees on	Will be complied. Training shall be imparted to all employees or safety and health aspects of chemical handling and PME shall be carried out on regular basis.	
12.	handling of chemicals shall be imparted. The company shall comply also 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.	Will be complied. All the environmental protection measures proposed in the EIA – EMP shall be implemented.	
13.	The company shall undertake all relevant measures for improving the socio-economic conditions of the surrounding area. CER activities shall be undertaken by involving local villages and administration and shall be implemented.	Will be complied.	
14.	The company shall undertake eco-developmental measures including community welfare measures in the project area for the overall improvement of the environment.	Will be complied.	
15.	A separate environmental Management Cell (having qualified person with Environmental Science/Environmental Engineering/ specialization in the project area) equipped with full-fledged laboratory facilities shall be set up to carry out the Environmental Management and Monitoring functions.	Complied. OIL has Environment Cell along with laboratory facilities to carry out environmental management and monitoring functions. Details are enclosed as Annexure – A.	
16.	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.	Will be complied. Project Not yet started. Condition will be complied prior to Project Execution.	
17.	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.	
18.	The project proponent shall also submit six monthly reports on the status of compliance of the stipulated Environmental Clearance conditions	Complied EC compliance report for the period October 2022 to March 2023 was submitted to IRO	



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	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 reports shall be posted on the website of the company.	Guwahati, Zonal Office CPCB, Shillong and, Chairman - Pollution Control Board Assam vide L.No. S&E/E/43C-1/561 dated 29.05.2023. Also, copy of the EC and Sixmonthly compliance report are uploaded to OIL website under the link https://www.oilindia.com/Environmental.aspx
19.	The environmental statement for each financial year ending 31 st 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.
20.	The project proponent shall inform the public that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with the SPCB/Committee and may also be seen at Website of the Ministry and at https://parivesh.nic.in/ . This shall be advertised within seven days from the date of issue of the clearance letter, at least in two local newspapers that are widely circulated in the region of which one shall be in the vernacular language of the locality concerned and a copy of the same shall be forwarded to the concerned Regional Office of the Ministry.	Complied. Copy of Newspaper Advertisement is enclosed as Annexure- IV.
21.	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.
22	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





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

6th Floor, Vayu Wing Indira Paryavaran Bhawan Jor Bag Road New Delhi 110 003

F.No. 6-159/2107 WL

Date: 9 August 2017

To
All Members
Standing Committee of NBWL

Sub: Minutes of 44th Meeting of the Standing Committee of NBWL- reg. .

Sir/Madam,

Kindly find enclosed copy of the Minutes of 44th Meeting of the Standing Committee of National Board for Wildlife held on 29th July 2017 at 1.00 PM in Teesta Conference Hall, I Floor, Vayu Block, Indira Paryavarn Bhavan, New Delhi under the chairmanship of Hon'ble Union Minister of Environment, Forest and Climate Change.

Yours faithfully,

(Dr. Pasupala Ravi)

Scientist C

E-mail: ddwlmef@gmail.com

Encl: As above

Distribution

- (1) Secretary, MoEF&CC
- (2) DGF&SS, MoEF&CC
- (3) Member Secretary, NTCA
- (4) ADGF(FC), MoEF&CC
- (5) ADGF(WL), MoEF&CC
- (6) Director, WII, Dehradun
- (7) Director, GEER Foundation, Gandhinagar, Gujarat
- (8) Dr. R.Sukumar, Member, NBWL
- (9) Dr. H.S. Singh, Member, NBWL
- (10) Pr. Secretary (Forests), Govt. of Andhra Pradesh

Copy to

- (1) PS to Hon'ble MoEF&CC
- (2) PPS to DGF&SS, MoEF&CC
- (3) PPS to Addl.DGF(WL), Member Secretary, NBWL
- (4) PPS to IGF(WL)/PS to DIG(WL)/PS to JD(WL)

- (I) Once the work of creation of barrage and associated canals are completed the project proposes to build the Religious City and Hi-tech City covering both the banks of Ganga River. The project proposes to divert 7395 sq.km area of the Sanctuary. This is will negatively affect the population of endangered swamp deer, sambar and host of other rare and threatened species of Hastinapur Wildlife Sanctuary. This may also have negative impact on the adjacent to Ramsar Site.
- (e) The project is based on the premises of drawing a minimum of 6000 cusec of water from the Ganga River for sustaining the project. The Ganga river is already water stress. As evident from the 48527 cusec of water is already being extracted before the proposed site (CPCB 2016). Diverting 6000 cusec of water from the barrage will render the downstream to the project site ecologically dead. The unregulated extraction of water without ecological consideration is one of the major factors that is affecting the integrity of the Ganga.

After discussions the Standing Committee decided to reject the present form of the proposal and requested the State Government to submit the revised proposal for the consideration of the Standing Committee of NBWL.

42.3.2 Proposal of the Oil India Limited to Extract Hydrocarbon beneath 3900-4000 meters of Dibru Saikhowa National Park

The IGF(WL) briefed the Committee on the proposal and stated that the proposal of the Oil India Limited was considered by the Standing Committee of the National Board for Wildlife in its 42nd meeting held on 15th May 2017, wherein the comments were sought from the State Government of Assam on the proposal. The State Government of Assam vide its letter 24th May 2017 gave their comments and has stated that, they are not in a position to submit the desired proposal for obtaining clearance from the Standing Committee of NBWL.

Further IGF(WL) stated that as per the Hon'ble Supreme Court Order vide dated 17.07.2017 in I.A. No.3934 in W.P.(C) 202/1995, a meeting was convened on 24th July 2017 under the chairmanship of DGF&SS. It was decided that the State Government of Assam would submit the proposal. The State Government of Assam submitted the proposal very recently. He



mentioned further that the State Chief Wildlife Warden has recommended the proposal with the following safety and mitigation measures:

- 1. Environment Impact Assessment and Environment Management Programme (EIA/EMP)
- 2. Preventive measures to ensure there is no contamination of surface water
- 3. Flaring of gas
- 4. Measure to prevent noise pollution
- 5. Measures to prevent oil spills
- Measures to prevent fire hazard
- 7. To erect 10 feet high barricade around the drilling plinths of each well. Also a safety zone of 7.5 meters around the barricade may be fenced with chain link fencing and planted with indigenous plant species to prevent any injuries / mortality of wildlife and also environmental damage and pollution in the mining locality.

In addition to the above specified safety measures certain protection and mitigation measures are to be taken by the Forest Department for the welfare of the existing wildlife population as well as to prevent environmental damage and pollution in and around the vicinity of the National park. Thus the user Agency shall have to provide a reasonable amount to PCCF, WL & CWLW, Assam as Corpus Fund, which will be utilized for wildlife conservation and other allied activities in the interest of the wildlife prior to allowing the use of the area.

Accordingly the Standing Committee decided to recommend the proposal along with the conditions imposed by the State Chief Wildlife Warden.

43.1.19 Realignment of area of the buffer area of Indravati Tiger Reserve, Chhattisgarh

The IGF(WL) briefed the Committee on the proposal and stated that the proposal was considered in the 43rd meeting of SC-NBWL held on 27th June 2017 and the Standing Committee suggested to seek the recommendations of the CWLW for further consideration. He also mentioned that recommendation of the State Chief Wildlife Warden has not been received.

The Chief Wildlife Warden, Chhattisgarh informed that the recommendations would be submitted in two weeks. Consequently the Standing Committee decided to defer the proposal.



Project Report

On

MONITORING OF LAND SUBSIDENCE DUE TO HYDROCARBON EXTRACTION IN ASSAM

A collaborative project between



National Remote Sensing Centre (NRSC)
Indian Space Research Organisation (ISRO)
Hyderabad

and



Oil India Limited Duliajan - 786 602, Assam

June, 2019

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NATIONAL REMOTE SENSING CENTRE

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Abstract (with Keywords):

Subsidence due to hydrocarbon extraction has been reported in various oilfields (e.g. Aghajari, Iran and Lost Hills and Belridge, USA) across the world. In this project, we have attempted to delineate zones of possible land subsidence, if any due to hydrocarbon extraction in and around the oil fields owned by Oil India Limited within Assam and parts of Arunachal Pradesh. Microwave remote sensing data were analysed by differential interferometric technique to identify land subsidence. An integrated suite of microwave data ranging from Envisat ASAR (C band), ALOS-PALSAR 1&2 (L band) and Sentinel-1 (C band) were used in this study. The temporal range for the data extends from 2005 (Envisat) to 2018 (Sentinel). A total of 17 master-slave pairs have been processed with temporal interval of 1 to 3 years.

It is observed that due to the thick vegetation cover and annual dynamicity of the vegetation and fluvial landforms, there is a significant loss in coherence between the master-slave pairs. Distinguishable, but random and gradational fringe patterns are observed in and around towns of Chabua, Duliajan, Doom Dooma, Tinsukia and Digboi in Assam and around Diyun in Arunachal Pradesh. However, field verifications reveal no signatures of ground subsidence in this region. Further the identified locations are not correlated to the well locations of OIL. Therefore, on the basis of the interferometric method and time frame of the observation, the study does not reveal and delineate any subsidence in the area.

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- G.V.J. Rao, Chief General Manager (Geophysics)
- Dr. B.N. Sahoo, General Manager (Safety & Environment)
- · Sudhanshu Chugh, Dy. General Manager (Geophysics)
- · Abhijit Sonowal, Dy. Chief Geophysicist
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Executive Summary

Subsidence due to hydrocarbon extraction has been reported in various oilfields (e.g. Aghajari, Iran and Lost Hills and Belridge, USA) across the world. In this project, we have attempted to delineate zones of possible land subsidence, if any due to hydrocarbon extraction in and around the oil fields owned by Oil India Limited within Assam and parts of Arunachal Pradesh. Microwave remote sensing data were analysed by differential interferometric technique to identify land subsidence. An integrated suite of microwave data ranging from Envisat ASAR (C band), ALOS-PALSAR 1&2 (L band) and Sentinel-1 (C band) were used in this study. The temporal range for the data extends from 2005 (Envisat) to 2018 (Sentinel). A total of 17 master-slave pairs have been processed with temporal interval of 1 to 3 years.

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SPECIES SPECIFIC CONSERVATION PLAN FOR ENVIRONMENTAL IMPACT ASSESSMENT EXTENSION DRILLING AND TESTING OF HYDROCARBONS AT 7 (SEVEN) LOCATIONS UNDER DIBRUSAIKHOWA NATIONAL PARK AREA. NORTH-WEST OF BAGHJAN PML UNDER TINSUKIA DISTRICT.

The conservation priorities of the habitats within the study area as defined in the following sections;

HABITATS

The available terrestrial habitats within the study area are agricultural lands, tea gardens, homestead plantation areas and forests. Of the aquatic habitats, species of conservational significance are mostly confined to Brahmaputra River and small streams, Maguri Beel and village ponds within the study area. The species identified within the aquatic and terrestrial habitats are provided in Table 1

Table 1: Species of Conservation Priorities in Habitats within the Study Area

SL No	Scientific Name	Schedule WPA, 1972	IUCN Category
1.	Indian or Ganges Softshell Turtle (Nilssonia gangetica)	Sch I (Part II)	Vulnerable/ CITES Appendix I
2.	Indian Peacook Softshell Turtle (Nilssonia hurum)	Sch I (Part II)	Vulnerable/ CITES Appendix I
3.	Spotted Pond Turtle (Geoclemys hamiltonii)	Sch I (Part II)	Vulnerable/ CITES Appendix I
4.	Burmese Rock Python (Python bivittatus)	Sch I (Part II)	Vulnerable/ CITES Appendix I
5.	Bengal Monitor (Varanus bengalensis)	Sch I (Part II)	Least Concern / CITES Appendix II
6.	Water Monitor (Varanus salvator)	Sch I (Part II)	Least Concern / CITES Appendix II
7.	White backed Vulture (Gyps bengalensis)	Sch I (Part III)	Critically Endangered/CITES Appendix II
8.	Black Kite (Milvus migrans)	Sch I (Part III)	Least Concern/CITES Appendix II
9.	Shikra (Accipiter badius)	Sch I (Part III)	Least Concern/CITES Appendix II
10.	Black-Winged Kite (Elanus caeruleus)	Sch I (Part III)	Least Concern/CITES Appendix II
11.	Common Kestrel (Falco tinnunculus)	Sch I (Part III)	Least Concern/CITES Appendix II
12.	Short-toed Snake Eagle (Circaetus gallicus)	Sch I (Part III)	Least Concern/CITES Appendix II
13.	Common Leopard (Panthera pardus)	Sch I (Part I)	Vulnerable/ CITES Appendix I
14.	Fishing Cat (Prionailurus viverrinus)	Sch I (Part I)	Least Concern/CITES Appendix II
h	0		

Sl. No	Scientific Name	Schedule WPA, 1972	IUCN Category
15.	Western Hoolock Gibbon (Hoolock hoolock)	Sch I (Part I)	Endangered/ CITES Appendix II
16.	Slow Loris (Nycticebus coucang)	Sch I (Part I)	Vulnerable/ CITES Appendix II
17.	Gangetic Dolphin (Planatista gangeticus)	Sch I (Part I)	Endangered/CITES Appendix I

The detailed conservation plan is provided in Table 2.

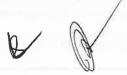


Table 2: Conservation Plan for Species and Habitats of Conservational Priority Species in the Study Area

Sn.	Species	Source of its Occurrence	Habitats within Study Area	Threats	Broad Conservation Actions	Responsibilities	Actions Required
1	Reptiles- turtles	Secondary sources- Discussion with forest department and locals	At the riparian habitats near Brahmaputra, Dangori and Dibru Rivers	Threats within the study area is identified as hunting, mortality due to fish bycatch	Identify basking sites of this species and enhance protection of these sites through village	Primary-Forest and Wildlife Department Secondary – Assistance from OIL	Awareness campaigns to be conducted for conservation of Schedule I species, their ecosystem and values.
	*	7.5			 communities. Awareness campaigns to be carried out among village 		8
					communities, focusing on local schools for protection of the species		
	W.				 Involve local communities in celebration of 		
					wildlife week and create awareness to conserve these species.		
2	Reptiles- Snakes and Lizards	Secondary sources- Discussion with forest department	Monitor lizards can be found in variety of habitats depending upon their food resource. In the study area the species	Threats within the study area is identified as hunting and road kills	While laying approach road, measures will be taken to keep natural drainage		
		and locals	was predominantly found in the forest habitats and homestead plantation areas	· · · · · · · · · · · · · · · · · · ·	unhindered, by construction of culverts, which will provide crossing points for reptiles and		

Sn.	Species	Source of its Occurrence	Habitats within Study Area	Threats	Broad Conservation Actions	Responsibilities	Actions Required
					minimize risk of road kill. • Awareness campaigns to be carried out among village communities, focusing on local schools.		
3	White backed Vulture (Gyps bengalensis) Shikra		Covering all available habitats	The anthropogenic threats to these species is mortality by electrocution from power	 Birds of prey may sometimes select Awareness campaign will be 	* T	
5	(Accipiter badius) Short-toed Snake Eagle	Survey Primary Survey		transmission lines and entanglement in the protective net/nylon strings covers over the	campaign will be carried out in local villages, on conservation of birds of prey and		
6	(Circaetus gallicus) Black Winged Kite	Primary Survey	•	fish culture ponds.	their ecosystem services and values.		
	(Elanus caeruleus)		ATTENDED TO SERVICE OF THE PERSON OF THE PER		7 - 10 / 100 - 1	157	
7	Black Kite (Milvus migrans)	Primary Survey		a superior	Toward Alberta		49. 23
8	Common Kestrel (Falco tinnunculus)	Primary · Survey					
9	Common Leopard (Panthera pardus)	Secondary sources- Discussion with forest department	The distribution of Common Leopard is primarily confined to the reserve forests areas and tea gardens within the	The primary threats to Leopards are habitat fragmentation through degradation of forest habitats, reduced prey	 Protection of forest areas and leopard habitats Awareness campaign will be 		
		and locals	study area	base and conflict with livestock and game farming	carried out in local villages, on conservation of		

Sn.	Species	Source of its Occurrence	Habitats within Study Area	Threats	Broad Conservation Actions	Responsibilities	Actions Required
				2	leopards and their ecosystem services and values.		z
10	Western Hoolock Gibbon (Hoolock leuconedys)	Secondary sources- Discussion with forest department and locals	The distribution of the spcies is primarily confined to the ecologically protected areas within the study area.	The primary threats are habitat fragmentation through degradation of forest habitats	 Protection of forest areas and habitats of the Schedule I species Awareness campaign will be 		
11	Slow Loris (Nycticebus coucang)	Secondary sources- Discussion with forest department	The distribution of the spcies is primarily confined to the ecologically protected areas within the study area.	The primary threats are habitat fragmentation through degradation of forest habitats	carried out in local villages, on conservation of the species their ecosystem services and		2
12	Asian Elephant (Elephas maximus)	Secondary sources- Discussion with forest department and locals	Elephant activity is present within the DSNP. Elephant activity is not reported in the villages in proximity to the proposed well sites.	The primary threats are habitat fragmentation through degradation of forest habitats; blockage of movement corridors	values.	e ×	a a a
13	Gangetic Dolphin (Platanista gangeticus)	Secondary Sources- Discussion with forest department	At Brahmaputra and Dangori River in proximity ERD surface locations	Entanglement at fishing nets. Pollution of the river	Campaign will be carried out about awareness generation and conservation of these Cetacean species in the coastal villages, schools and particularly in fisherman community's		



Copy Of Advertisemnet in the two Newspapers

TUESDAY, MAY 19, 2020

THE ASSAM TRIBUNE, GUWAHATI 7

"I thouk the Madnys Prodesh government for lending support in the hour of need," said Sikkim Chief Minister PS Golay, "My heart goes out to the bereaved family, and on behalf of the government, I have annomoci on ex gratia of Rs 2.5 lakh each for her daughter and son," he said.

Chandra Subba was part of a group of 160 Sikkim residents being evacuated from Guizrat. Her sister, who was also travelling with her, has been admitted to hospital as she was not feeting well. Initial reports have diagnosed decigue as the cause. The results of COVID-19 tests are awaited.

Stem after their increasured in ground 5 am, the store stage districts ties conducted necessary mever tax cedures prior to their time not be alto their respective desirate

the law enforcing and the poet busies the people in maintaining the phy within ing while escoring the her private after the medical formal of comeport-

On Sunday ofter soon. Springte concal train from Bengal in a moveam with 1.450 people, whired, except 43 buses for their people ligission. All

The first special train Womenie Sile with 1,140 stranded people of to enter at Jiribam on May 13, who basis, but train from Penjah with San the same came on May 15. Managements camp. several trains from variety shopping country till May 21. and burs

Meanwhile, the COVID- Palacationliw second

Compt. for cel-

Nagaland (ong sessing

CORRESPONDENT

DIMAPUR, May 16: The Nagaland Pradesh Congress Committee (NPCC) on Monday urged the state government to arrange special trains from different cities across India and also feeder transport in coordination with the host state to help stranded people of Nagaland reach home.

In a release, the NPCC said the evacuation process should be completed within a week by deploying additional mangower to monitor the

situation in differed be allowed for IAS officer will coverage and government will be esting will age by his consequents and states, should be The weekly the urgent demand not apply to homanitarian cost all markets

Expressing one on all days. of workers and sers multis) are land stranded in appen from 8 country, the NPC certainent of the lockdown, as with 30 per lost their jobs angernauffistreets after bein

Manipuri nurse

IMPHAL/KOLKATA. May 18: Nurses and other healthcare workers, who recently quit jobs in West Bengal's capital Kolkara and returned to Manigur, on Idonday said inadequate salety measures and a dearth of protective year were the major reasons why they left the state.

A nurse, who reached Ma nipur from Bengal on Suaday, said they were asked to reuse personal protective equipment (PPE) by their employers at a private hospital. "We were told to work for 12 hours every day. During these 12 hours, we needed to use the washroom, pat

our meals, for which we se the murses to remove the PPE, was approached is for one-time use. Once out through moved, if has to be a lagriting to go tuted by a fresh one 7 on dispute were, however, told to a gernment,"

the same PPE again, and ing us vulnerable to ster from Madreaded (COVID-19) or cited dis-case," she said. The reason for

The nurse also certail good there the claims that the Moore a are many government had called the different finanback, or offered them are 100 a femilies centive, as suggested peed of jobs some hospitals in Role in a live in our

An association of productibe sands hospitals in Kolkins haston I brokens Sunday said it has fit be a start in and that the Maniper governments. ment had called the roots

region, the DC informed that the Police Training Centre (PTC) quarantine facility at Bundertlews has the capaciuploaded in the aforementor of elementor containing.

ASSAM STATE OPEN SCHOOL ABSAM HIGHER SECONDARY EDUCATION COUNCIL BAMUNIMAIDAM :: GUWAHATI-21 PRESS RELEASE

No. AHSEC/SDS/11/119/4814 (III): The results of the Higher Secondary Level Examination, 8-Block, 2019 of the Assert Suite Open School conducted by the Assum Fig. et Secondary Education Council will be declared on 18th May, 2020 at 10.00 A.N. The resysta was be published in the Council's wabsite. www.abaec.nic.in

Assem Higher Secondary Education Council Bemunimaldam, Guwahati-21



BESH to NAAM

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The Ministry of Environment, Forest and Crimate Change thoEFACC, GOI has accorded Environmental Clearance for Extension Draining & Testing of Hydrocarbons at 7 (seven) ecohors under Jibra-Sashowa Netlowel Park Area, Northy year of Baghton PML in Oktrict Trisucia, Assam by Mix Or

The copies of Environmental Clearance, F. No. J. (101/155/2016/ MHI (I) dated 17 May 2020, are available for reference with MEFACC, Pollution Control Board, Assam (PCBA) and may also be seen at ambutes of ModFACC and Gr.

The Ministry of Environment, Forest and Cirrate Change, GOI has accorded Environmental Clearance for the said project under lone of EIA Notification, 2008.

Nedal Officer EC/FC/NBWL, Oil India Limited



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বিন সংবাদ, শুরাফ্টি, ১৮ মে'ঃ দেশৰ বিভিন্ন ৰাজ্যত আবাহ হৈ আনাৰ লোকদক্ষত গৈৰ্য আৰু সংবাদ ৰাজ্য কৰি আনাগ অলগতৈ নান কৰি আহিব অনুধা জনাইছে ৰাজ্য চৰকাৰে। আৰু বহিংৰাজ্যৰ উচাত আহা প্ৰতিক্ৰম আবাহ লোকাৰে অনামত হৈছা নিনৰ বাবে কাজিব কোবাৰে সংকাশ ৰাজ্য আহিব কাজ্যৰ প্ৰতিক্ৰম আবাহ কাজ্যত আহা কাজ্যৰ প্ৰতিক্ৰম প্ৰতিক্ৰম হৈছে। বহিংৰাজ্যৰ পৰা উভতি আহা সংকাশক মানাম্পান কোবাৰেন্টাইনাত ৰাখিব নোবাৰিলে জাউৰাছ বিন্তু হোৱাৰ পাত্ৰীৰ আনাম কিয়াৰ হিছাছ বাবাহ বাবাৰ কাজ্যত হাইবাহ আহা কাজ্যত হাইবাহ আহাৰ কাজ্যত হাইবাহ

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নিন সংবাদ গুৱাহাটী, ১৮ মে' ঃ বুজনকৈ চিতিৎসত কোলোনত লাও যোগৰ পিছতে গা গণিতে কৰ্তৃপক্ষৰ। এতিয়াৰ পৰা ও ভিড-১৯ৰ থমাত কৰিও চিতিৎসক, নাই, ৰাষ্ট্ৰ কৰ্মাদ থাকিব লি নি ই কিটা সক্ষিত গোৱাহাটী চিতিৎসা মহাবিদ্যালয় কাপানাল কৰিছে। এই নিয়ামা গ্ৰামুখ্য প্ৰায়ত এইছা গোলা গালা কৰিছে। এই নিয়ামা গ্ৰামুখ্য প্ৰায়ত এইছা সামা কৰিব লাগিব আছিল বিশ্বাহা এই সমাজ কৰিব লাভি মাত বিশ্বাহা কৰিব লাভি মাত কৰিব লাভি মাত



বিন্দ প্রতিনিন্দ প্রাচীয়ে কোবোন বি অবন্ধ করা কোসংযোগ অভিযান করা হয়। সমাজন বৈতির কেন্দ্রীন বা বিশিন্ধ কাজিসকলন নগতো এই কেন্দ্র কার্মান গৈ তেওঁলোকন সৈতে ত করা এই যান্ত্রি বিভিন্ন প্রবাদ করাজ্যক শিল্পী তথা সকলোকে ভিন্নি ন সম্বাদ্ধীয় সকলাক প্রকাদ কর্মা অভিনাদিত করা। তেতেক এটা তেও

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P.O. Dukajan - 785 602, Assam, India ; CW : L11101A51959G0061149

ক্ষা কৰা সামাৰ পৰিচাল ব্যালয় (McERECC) হৈ যা আছে (GOI)। বি দুৰ্বাটা বি ৰু বিচালাল ৰাষ্ট্ৰীয় উদান ক্ষমৰ আনাৰ উত্তৰ পৰিচাল আক্ৰমৰ পিতেখনত ক্ষম ইপিটা কিন্তি তেওঁ খন ক্ষমত ছাইডামানী আন ক্ষম পৰিচাল অধিক মধ্যে অনুষ্ঠিত প্ৰদান (Environmental Clearence) মনিছে।

কার্মতি ক্রমণ ১১ (ব' ১০২০ টা No. J-11011/15012016-IA-II (I) ম কর্মন করিকে জা আম ক্রমেয়া পরিবাদ মানুন্ত (MoEF&CC), প্রকৃষ্ণ নির্মণ সেই, প্রায় (Pakution Control Board Assam) ওচ্নত উপস্ক মেরের কুম্বরে পরিবাদ কর প্রায় ভারতের কুম্বরের মানুন্ত (MoEF&CC), মানু প্রবাহন বিভাগ বিভাগ বিভাগ ক্রমের বিভাগ বি

২০০১ সাম ই এই ৫ (EIA) জালীৰ কৰিছাৰ পৰিপৰ, ডা কৰে সকলো নৰিবেইন ইটাৰট (MoEFACO), কি ধাৰণে (GO) ইক প্ৰেছ্ট্য পৰি কলোই পৰা কৰে। অসম অধিসৰে ই মি এল মি এন বি ছবিট এন এইল ইতিক বিভিন্ন ইন



জাৰতীয় ৰিজাৰ্ড বেংক মাহনীয় হিন্তুৰ্ব বীৰা নৱসম্পদ প্ৰৱন্ধ নিজাগুলান গৰাচন বৰল বিমাৰ

সমূহীয়া আক্ৰিয়ত দুৰ্ঘটদা বীমাৰ বাবে কোটেচল আমছুণ্য সমূহ বনিগত হুৰ্ঘটনা বীমা ক নিওঁ কাইগৰ কা আমৰণা

তাৰ্ভীয় বিআৰ্ড বেংক, গুৱাহাটীকে ইয়াৰ গুৱাহাটী, কামৰন্তৰা, চিগং, আইজৰ, টাখন আৰু কৰ্মচাৰীৰ বাবে বীমা দিবলক উন্নয়ন কৰ্মকাৰ (RDA) ও শনীকুক্ত বীমা কোশানীসমূহৰ পৰা প্ৰশ দাৰ্চালক এমিনাকে ইংকাৰেন্ধ শনিতি ভাবৰ বাবে নিবিদা আহাৰ কৰিছে।

কিটিগৰ বিশ্ব (হংকৰ ভিষেত্ৰী প্ৰচালনে প্ৰতিয়া ৰ নিবিন অনুষ্ঠান ইমূল আৰু মেলাভাগলাল বীনা ফোলানীয়ে ২ বা ২০০ ভাৰত বিশ্বি ২০০ কৰে বা ভাৰ আগতে কেটাৰ নিবেশ্ন ভাৰতীৰ বিভাগ বাবে, শ্টেক ক্ষেত্ৰিয়ান কৰাৰ, গুৱাহাটী-৭৮১০০১ লৈ নিবিল জনা দিব প্ৰবিধ

भारतीय विकर्ष केंद्र, सुवाहाती, अपने उत्तर पूर्वी क्षेत्र के कार्यालयों / उप-कर्णालयों यथा, नुवाहाती, अपरेतना, शिलान, अपलोल, इस्कास और गरीक ने तिया आसी अधि गीया वित्यामक एम निकास साधिकरण आर्थआरडीए) के अपनेत पत्रीकृत डीमा कपनी से शोटेशन आसंत्रित करता है। अन्य जितरण चैंग की वेंद्रसाइट www.rbcorg.in के निविद्या खबदा में उपनच्या है। इन्द्रस और पात्र बीमा कपनियों अपने कोटेशन क्षेत्रीय निदेशक, गरीय नित्रत केंत्र, स्टेशन रोड, पान बाजार, नुवाहादी - 781 001 को 39 जार 2020 की 24 00 करें तब या उपने पहले बनास कर सकती हैं।

भागः अकसरि/स्थानः गुराहरां स्क्रिकीय निर्देशक

b- A/

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



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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

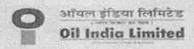
This Environmental Management Plan and Monitoring Framework is a site-specific document for the drilling activities that have been developed to ensure that OIL can implement the project in an environmentally conscious manner and where all contractors, understand the potential environmental risks arising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

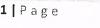
S No	Activity	Ref	Aspect	Impact	Mitigation Measures	Monitoring	Timing/ Frequency	Responsible Party	Related Plans
1.	Physical Presence of drill site, rig and other machinery.	1.1	Change in visual characteristics of the area due to installation of drilling setup		On completion of works (in phases) all 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
-81	Ę.	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 & concerns
2.	Storage & Handling of Materials & Spoils	1	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
	31	ll lia		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



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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			
		3.2	Noise emission during transport of materials, spoils and machinery	deterioration in ambient noise along the transportation	Undertake preventive maintenance of vehicles and machinery to reduce noise levels.	Inspection/Recor ds of	Construction & Drilling	OIL/Contractor	Noise Quality Management Plan
14	Operation &	4.1	Emission F : U		Restriction on unnecessary use of horns by trucks and vehicle in settlement area			2	
	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
	4		DG/GG sets	ncrease of I	All workers working near nigh noise generating equipment to be provided		Drilling		Noise Quality Management





La state	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				
1				as per manufacturers				
				schedule				
1	1			30.130		T.	1	A.
						W	1	
		1						
46		1		Install sufficient engineerin	g			
				control (mufflers) to reduce	e			
	1 10			noise level at source				1
	1			noise level at source				Noise Qualit
				All workers working nea	or Site	Drilling of Wells	OIL/Contractor	
	4.3	Emission of noise from						Management
	-	operation of the rig	increase C					Plan ai
			ambient as well	a equipment to be provide	.u		1	Occupational
			work place nois	e with Personal Protection	/e			Health & Safe
	1		level	equipment				Management
								Plan
	4							1,5,1
e						- P		
				Preventive maintenance	of			
		2.		machinery to be undertak	en			
				as per manufactur	ers			
				schedule				
								None
12			I D . (atlan	of Optimize use of water dur	ing Record Keep	ing Construction & Drilling	OIL/Contractor	None
	4.4			ter drilling operations	and Auditing			
		water for project usage	10	rei arining operations				
			resources	K-				Noise Qua
				Preventive maintenance	of Recording	of Drilling of Wells	OIL/Contractor	
	4.			Preventive maintenance	kon Noise			Management
90		during preparation	of increase	of machinery to be underta		1 ×		Plan
		drilling mud	ambient & w	ork as per manufactu	ers			Occupational
			place noise leve	schedule		-		Health &Sa
				2 2 2				Management
							*	



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	8	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
5.	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
;- °		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
Ya Ya		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
	ti			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



			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
			increase of	control on equipment and machineries (like mufflers in DG sets) to reduce noise and		Drilling of Wells	OIL/Contractor	Noise quality management plan
	2		3	source, carry out proper	3 g *		-	
	6.2	_	contamination of	during cementing operation to prevent migration of	*	Drilling of Wells	OIL/Contractor	Ground water quality management plan
T 9		process waste (unused cement slurry, return	contamination of soil and ground	for the drilling and	_		d OIL/Contractor	Ground water quality management plan
	7.2	temporary storage site	water quality and	area will have proper bunds to prevent any escape of contaminated runoff	Site Inspection and Record keeping	Drilling ar Decommissioning Phases	od OIL/Contractor	Surface water quality management plan and Spill Management plan
	Temporary storage, handling & disposal of	Temporary 7.1 storage, handling & disposal of process waste	cementing of well 6.2 Loss of drilling mud and cement slurry during casing of well 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 7.2 Surface runoff from temporary storage site of drill cuttings & unused mud into surface water	Casing & 6.1 Noise from machinery temporary during preparation of cement slurry ambient noise level 6.2 Loss of drilling mud and cement slurry during contamination of ground water aquifer 7.1 Accidental spillage of process waste (unused cement slurry, return mud & drill cuttings) at the temporary storage site 7.2 Surface runoff from temporary storage site of drill cuttings & unused mud into surface water quality and aquatic ecosystem	Casing & 6.1 Noise from machinery during preparation of cement slurry during preparation of cement slurry during casing of well 6.2 Loss of drilling mud and cement slurry during casing of well 6.3 Loss of drilling mud and cement slurry during casing of well 7.1 Accidental spillage of process waste (unused handling & disposal of process waste) Temporary storage, handling & disposal of process waste 7.2 Surface runoff from temporary storage site 7.3 Surface runoff from temporary storage site of drill cuttings & unused mud into surface water Noise from machinery and remporary increase of 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. Proper engineering controls during cementing operation of or drilling mud and cement slurry into ground water aquifer Proper engineering controls contamination of or drilling mud and cement slurry into ground water aquifer Temporary 7.1 Accidental spillage of process waste (unused cement slurry, return mud & drill cuttings) at the temporary storage site of drill cuttings & unused mud into surface water quality and aquatic ecosystem to prevent any escape of contaminated runoff	Casing & 6.1 Casing & 6.1 Casing & 6.1 Comenting of well Coment slurry Contamination of amolient engineering controls of machineries (like mufflers in mspection Costes) to reduce noise and vibration emission levels at source, carry out proper maintenance and subject them to rigid noise and vibration control procedures. Contamination of control procedures Contamination of drilling mud and cement slurry into ground water aquifer Coment slurry during contents slurry into ground water aquifer Coment slurry, return mud & drill cuttings) at the temporary storage site of drill cuttings at the temporary storage site of drill cuttings & unused mud into surface water bodies Coment slurry, return mud & drill cuttings) at the temporary storage site of drill cuttings & unused mud into surface water bodies Contamination of control on equipment and machineries (like mufflers in Inspection Costes) to reduce noise and vibration emission levels at source, carry out proper maintenance and subject them to rigid noise and vibration control procedures. Costes of rilling mud and cement slurry into ground water aquifer Contamination of for the drilling and cement slurry into ground water aquifer Contamination of for the drilling and cement slurry into ground water aquifer Contamination of control procedures. Costes of them to rigid noise and vibration of drilling mud and cement slurry into ground water aquifer Contamination of control procedures. Costes of the drilling mud and cement slurry into ground water aquifer Contamination of contenting operation of for the drilling and cement slurry into ground wa	Casing & 6.1 Noise from machinery Temporary during preparation of cement slurry ambient noise level 6.2 Loss of drilling mud and cement slurry during casing of well 6.3 Loss of drilling mud and cement slurry during casing of well 6.4 Accidental spillage of process waste (unused handling & disposal of process waste (unused process waste (unused familiagosal of process waste (unused of drill cuttings) at the temporary storage site of ord rilling tuttings & unused of drill cuttings & unused fund into surface water bodies Casing & 6.1 Noise from machinery Temporary (unit propary to read ambient noise and vibration emission levels at source, carry out proper maintenance and subject them to rigid noise and vibration control procedures. Proper engineering controls during cementing operation to prevent migration of drilling mud and cement slurry into ground water aquifer Temporary storage, handling & disposal of process waste (unused the temporary storage site of drill cuttings) at the temporary storage site of drill cuttings & unused mud into surface water duality and aquatic ecosystem mud into surface water bodies Casing of well Proper engineering controls for proper engineering controls procedures. Proper engineering controls for the drilling and process waste (unused contamination of the drilling and process waste (unused cement slurry, into ground water adulting process waste (unused cement slurry, return adulting) at the temporary storage site of drill cuttings) at the temporary storage site of drill cuttings & unused mud into surface water quality and aquatic ecosystem and the proper bundes of contaminated runoff Casing of well Proper engineering controls for proper engineering controls proper bunded to prevent any escape of contaminated runoff Drilling and Decommissioning Phases Drilling and Decommissioning Phases Drilling and Decommissioning Phases	Casing & 6.1 Noise from machinery Temporary cementing of each sturry of the cement sturry and the cement sturry of the cement sturry and the cement sturry of the cement sturry o





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 is a		
	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 Decommissio 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				



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 m³/d:

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

Name of Products		ption per unit of product atput
	During F.Y. 2021-22	During F.Y. 2022-23
(1)	(2)	(3)
Hydrocarbon (Crude	1.12 m ³ /MT	1 m³/MT
Oil, Natural Gas, LPG)	(Approx.)	(Approx.)

(II) Raw material consumption

*Name of raw materials	Name of products	Consumption of raw material per unit			
4		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	 Quality of ETP treated water from the drilling locations is analyzed frequently. (Test report is enclosed as Annexure - 1). Quality of Formation water is analyzed frequently (Test report enclosed as Annexure- 	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)

Hazardous	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
11	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 ³	27,000 m ³	
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 ³ (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 ₄), mg/l	<1.0	1000
10	TDS. mg/l	61	2100
1.1	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
15	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	6.01
22	Nickel, rog/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 474 103 2023

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 "M/6 OIL INDIA LIMITED" Duliajan, Dibrugarh, Assam-786602		Report Date	31.01,2023
		Nature of Sample	: Stack Emission
		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. 84.4444			

4. I	General information about stack :	: GB-1			
	Stack connected to	: GAS COMO			
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 stack from ground level	: 3.6576 m	Δ.		
2.	Diameter of the stack at sampling point	: 0.2032 m			
3.	Area of Stack	: 0.03241 m2			
C.	Analysis/Characteristic of stack: 1 Fuel used: NG			141	
D.	Result of sampling & analysis of gascous 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/Nra3)	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.		<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.		k : N#		Remarke:NI	

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 6	& Address of the Customer;		Report No.: MSK/2022-23/1463			
"M/s O	IL INDIA LIMITED".		Report Date: 30.12.2022			
Duliajan, Dibrugarh, Assam-786602		Sample Description : Ambient Air				
1.7 cm action	n, Diorugani, Assam-786602			cr : MSKGL/ED/2022	23/12/00252	
				ation : GCS TENGA		
	.:W.O. NO 8125981 of Contract No. 6	116895		N 27 23'55", E 9500		
D		Received Date		is Start Date		omplete Date
		.11,2022	18	11 2022		1.2022
Enviror	mental Conditions During Sampling	& Transport Cond	lition: Temperatur	re: 26°C. Rain fall :	NO 23.1	1.2022
		Anai	ysis Result	o, rang tan		
SI. No.	Test Parameter		Method	Unit	Results	COCOLA
Í	Particulate Matter (PM ₁₀)	IS: 5182 (Part	-23)-2006	(µg/m3)	59.2	CPCB Lim
2.	Particulate Matter (PM;)	IS: 5182 (Part		(µg/m3)		100
3.	Sulphur Dioxide (SO ₂)	IS : 5182 (Part-			28.1	60
4	Nitrogen Dioxide (NO2)	13:5182 (Part-		(µg/m3)	<6.0	80
5	Carbon Monoxide (CO)	IS 5182 : (Part-		(µg/m3)	16.8	80
6	Ozons (O ₂)	18:5182 (Part-L		(mg/m3)	0.59	2
7	Ammonia (NHs)	Reaffirmed-201		(µg/m3)	<20.0	180
8	Lead (Pb)	13 5182 (Part 2		(µg/m3)	<10.0	400
9	Nickel (Ni)	USEPA IO-3.4		(µg/m3)	<0.01	1
10.	Arsonic (As)	USEPA 10-3.4		(ng/m3)	<0,5	20
11.		USEPA IO-3.4		(ng/m3)	<1.0	6
12.	Benzene (C ₆ H ₆)	1S 5182 : (Part)	11):2096	(µg/m3)	<4.2	5
_	Benzo(a)Pyrene (BaP)	IS 5182 : (Part)	2):2004	(ng/m3)	<0.5	
13.	Mercury (Hg)	USEPA IO-5.0		(µg/m3)	<0.002	
14.	Methane (Hydrocarbon)	IS 5182 : (Part 17)		ppm	1.38	- 10
15,	Non-methane (Hydrocarbon)	1S 5182 : (Part 17)		ppm	<0.5	
16	Total Hydrocarbon	IS 5182 : (Part I	7)	ppm	1.38	
17.	Volatile Organic Compounds (VOC)	IS 5182 : (PART	-11):2006	(#g/m3)	<4.2	
mit as po	or CPCB notification, New Delhi, 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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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/annum)	Mode of Management
1	Schedule-I, SUNo. 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
7.	Schedule-I, St No. 33.2 Contaminated cotton rags or other cleaning materials	Generation, Storage & Transportation	300 TAltaum	Transportation to suffice Consposal agencies for Incineration/ Co-Processing in content 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 coment 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 30th for the period ensuring 31st 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 30th 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 31st March, in Form—V of the Environment (Protection) Rules, 1986 before 30th 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