

संदर्भ सं./Ref. No.: S&E/E/43C-1/588

दिनांक/Date: 28.05.2024

From	:	Executive Director (HSE & ESG)
To	:	Deputy Director General of Forests (Central), Sub Office, Guwahati (under Regional Office, Shillong), 4th Floor, Housefed Building, Rukminigaon, Guwahati-781022. (Email : iro.guwahati-mefcc@gov.in , iro.moefcc.ghy@gmail.com)
Subject	:	Submission of Half-yearly (October 2023 to March 2024) compliance reports of the conditions stipulated in the Environment Clearance (EC) granted to Oil India Limited.

Sir,


Reference to above subject, please find enclosed herewith the Half-yearly (**October 2023 to March 2024**) compliance reports of the conditions stipulated in the Environment Clearance (EC) granted to Oil India Limited. List of the EC are tabulated below:

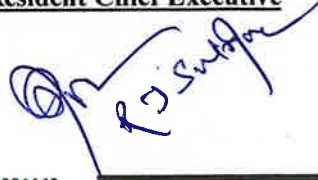
S.No	EC Identification No/File No.	Name of the EC proposal
1.	F. No. J-11011/413/2008-IA II (I) dated 24.01.2011	OCS Bhogpara.
2.	F. No. J-11011/1251/2007-IA II (I) dated 01.11.2011	Exploratory Drilling of 01 (One) well at Doomdooma-Pengry Area, District Tinsukia, Assam.
3.	F. No. J-11011/682/2008-IA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

		Installations) in North Hapjan – Tinsukia – 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)
Executive Director (HSE & ESG)
Nodal Officer (EC, FC, NBWL)
For Resident Chief Executive





HSE Department
Oil India Limited
Duliajan, Dibrugarh, 786602, Assam
Phone : 0374-2800542
Email: safety@oilindia.in

Encl: As above

Copy:

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

STATUS OF COMPLIANCE OF EC CONDITIONS

- **Installation:** OCS BHOGPARA
- **Period:** 01/10/2023 to 31/03/2024
- **EC No:** J-11011/413/2008-I A II(I) DATED 24.01.2011

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



Sl. No.	EC Condition	Compliance status/Remark
v.	The company shall make the arrangement for control of noise from the DG sets and meet DG set norms notified by the MoEF.	In the said time period no DG sets were available and hence Not Applicable.
vi.	Total ground water requirement for OCS, STF, ITF and BUS shall not exceed 128 m ³ /day/well and prior permission shall be obtained from the Central Ground Water authority/state Ground Water Board (CGWA/SGWB). A copy of the permission shall be submitted to the Ministry's Regional Office at Shillong. Effluent Treatment Plant (ETP) shall be installed to control oil content and other parameters as per Assam Pollution Control board (APCB) and/or Environment (Protection) Act whichever is more stringent. Treated wastewater shall be passed through multi-media filters to remove solids and clarified water shall be collected into storage tubes before pumping to disposal wells. Oily waste water shall be treated in oil separator to remove oil content in the effluent. Domestic effluent shall be treated in septic tank followed by soak pit. The treated effluent shall be monitored regularly.	Complied. Formation water of Bhogpara OCS is treated in ETP Tengakhat to desired standards.
vii.	Tank bottom sludge from crude oil tanks of OCS shall be stored in secured covered impermeable concrete sludge pit located outside the proposed installation before safe disposal through approved/registered recyclers. Waste oil and used batteries shall be sold to authorized recyclers/re-processors. Secured land fill shall be as per the design approved by the CPCB and obtain authorization from the Assam SPCB. Copy of authorization shall be submitted to Ministry's Regional Office at Shillong.	Point noted. Shall be done when tank cleaning will be carried out.
viii.	Total storage capacity of the tanks shall not exceed 40,000 KL after expansion. Capacity of the each of the storage tank shall not exceed 5,000 KL. Instead of fixed roof tanks, floating roof tanks shall be provided.	Complied.
ix.	A comprehensive Oil Spill Contingency plan (OSCP) shall be prepared to handle all major, moderate and minor spill.	Complied during all the operation & maintenance activities.
x.	All the OCS shall have facilities for knocking out water from the formation fluid. The Formation	Complied

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

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

Sl. No.	EC Condition	Compliance status/Remark
		applicable local regulations such as API, ASTM, OISD, OMR, APCB & CPCB etc.
xxv.	The design, material of construction, assembly, inspection, testing and safety aspects of operation and maintenance of pipeline and transporting the natural gas/oil shall be governed by ASME/ANSI B 31.8/B31.4 and OISD standard 141.	Complied.
xxvi.	Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, crèche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.	Not Applicable
General Condition		
Sl No	EC Condition	Compliance status/Remark
i.	The project authorities must strictly adhere to the stipulations made by the Assam State Pollution Control Board (ASPCB), State Government and any other statutory authority.	Complied
ii.	No further expansion or modifications in the project shall be carried out without prior approval of the Ministry of environment & Forests. In case of deviations or alterations in the project proposal from those submitted to this Ministry for clearance, a fresh reference shall be made to the Ministry to assess the adequacy of conditions imposed and to add additional environmental protection measures required, if any.	Complied
iii.	The project authorities must strictly comply with the rules and regulations under Manufacture, Storage and Import of Hazardous chemicals Rules, 2000 as amended subsequently. Prior approvals from Chief Inspectorate of Factories, Chief Controller of Explosives, Fire safety Inspectorate etc. must be obtained, wherever applicable.	Complied.

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

Sl. No.	EC Condition	Compliance status/Remark
x.	The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the Regional Office of the MOEF, the respective Zonal Office of CPCB and the Assam SPCB. The Criteria pollutant levels namely; SPM, RSPM, SO ₂ , NO _x , HC (Methane & Non-methane), VOCs (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the projects shall be monitored and displayed at a convenient location near the main gate of the company in the public domain.	Complied Compliance status including monitored data is regularly uploaded in company's website and sent to concerned government authorities. Monitored data is also enclosed herewith.
xi.	The Project proponent shall also submit six monthly reports on the status of the compliance of the stipulated environment conditions including results of monitored data (both in hard copies as well as by e-mail) to the Regional of MOEF, the respective Zonal Office of CPCB and the Assam SPCB. The Regional Office of this Ministry/ CPCB/ Assam SPCB shall monitor the stipulated conditions.	Complied. EC compliance report for the period April 2023 to September 2023 was submitted to Sub-RO, Guwahati, Zonal Office CPCB, Shillong and, Chairman - Pollution Control Board Assam vide L.No. S&E/E/43C-1/52 dated 11.01.2024. Also, copy of the EC and Six-monthly compliance report are uploaded to OIL website under the link https://www.oil-india.com/Environmental.aspx
xii.	The environment statement for each financial year ending 31st march in Form-V as is mandated to be submitted by the project proponent to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of environmental conditions and shall also be sent to the respective Regional Offices of the MOEF by e-mail.	Complied. 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 .
xiii.	The Project Proponent shall inform the public that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with the Assam SPCB and may also be seen at Website of the Ministry of Environment and Forest at http://envfor.nic.in . This shall be advertised within seven days from the date of issue of the clearance letter, at least in two local newspaper that are widely circulated in the region of which one shall be forwarded to the Regional Office.	Complied

Sl. No.	EC Condition	Compliance status/Remark
xiv.	Project authorities shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities and the date of commencing the land development work.	Complied



Ambient Air Quality Monitoring Report

Name & Address of the Customer :		Report No. : MSK/2023-24/2533			
"M/s OIL INDIA LIMITED", Duliajan, Dibrugarh, Assam-786602		Report Date : 28.02.2024			
		Sample Description : Ambient Air			
		Sample Number : MSKGI/ED/2023-24/07/00442			
Ref. No./W.O. NO.- 8125981 of Contract No. 6116895		Sampling Location : OCS BHOGPARA			
GPS Reading : N 27°51'38" , E 95°42'53"					
Date of Sampling	Sample Received Date	Analysis Start Date	Analysis Complete Date		
22.01.24	25.01.24	25.01.24	01.02.24		
Environmental Conditions During Sampling & Transport Condition : Temperature : 27°C, Rain fall : NO					
Analysis Result					
Sl. No.	Test Parameter	Method	Unit	Results	CPCB Limit
1.	Particulate Matter (PM ₁₀)	IS : 5182 (Part-23)-2006	(µg/m ³)	62.2	100
2.	Particulate Matter (PM _{2.5})	IS : 5182 (Part-24)	(µg/m ³)	34.6	60
3.	Sulphur Dioxide (SO ₂)	IS : 5182 (Part-2)-2001	(µg/m ³)	6.8	80
4.	Nitrogen Dioxide (NO ₂)	IS : 5182 (Part-6)-2006	(µg/m ³)	20.1	80
5.	Carbon Monoxide (CO)	IS 5182 : (Part-10) : 1999	(mg/m ³)	0.66	2
6.	Ozone (O ₃)	IS:5182 (Part-IX)-1974 Reaffirmed-2019	(µg/m ³)	<20.0	180
7.	Ammonia (NH ₃)	IS 5182 (Part 25) : 2018	(µg/m ³)	<10.0	400
8.	Lead (Pb)	USEPA IO-3.4	(µg/m ³)	<0.01	1
9.	Nickel (Ni)	USEPA IO-3.4	(ng/m ³)	<5.0	20
10.	Arsenic (As)	USEPA IO-3.4	(ng/m ³)	<1.0	6
11.	Benzene (C ₆ H ₆)	IS 5182 : (Part 11) : 2006	(µg/m ³)	<4.2	5
12.	Benzo(a)Pyrene (BaP)	IS 5182 : (Part 12) : 2004	(ng/m ³)	<0.5	1
13.	Mercury (Hg)	USEPA IO-5.0	(µg/m ³)	<0.002	---
14.	Methane (Hydrocarbon)	IS 5182 : (Part 17)	ppm	1.78	---
15.	Non-methane (Hydrocarbon)	IS 5182 : (Part 17)	ppm	<0.5	---
16.	Total Hydrocarbon	IS 5182 : (Part 17)	ppm	1.78	---
17.	Volatile Organic Compounds (VOC)	IS 5182 : (PART-11).2006	(µg/m ³)	<4.2	---
Limit as per CPCB notification, New Delhi, 18th Nov, 2009. for Ambient air quality					

Analyzed By:

Signature :

Name :

Designation :



: Mr. Dipankar Mazumdar

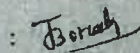
: Executive Chemist

Prepared By:

Signature :

Name :

Designation :



: Miss Jyosmita Borah

: Office Assistant

Authorized Signatory

Mitra S.K. Private Limited

Signature :

Name :

Designation : Branch Manager



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

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



STACK GAS MONITORING REPORT

Name & Address of the Customer		Report No.	MSK/2023-24/2393
"M/s OIL INDIA LIMITED"		Report Date	30.01.2024
Duliagan, Dibrugarh, Assam-786602		Nature of Sample	Stack Emission
		Sample Mark	OCS BHOGPARA
		Sample Number	MSKGL/ED/2023-24/01/00778
Ref. No. W.O. NO - 8125981 of Contract No. 6116893			
Date of Sampling	Sample Received Date	Analysis Start Date	Analysis Complete Date
18.12.2023	21.12.2023	21.12.2023	28.12.2023

ANALYSIS RESULT

A. General information about stack :		CODP-1	
1	Stack connected to	CRUDE TANK	
2	Emission due to	NG	
3	Material of construction of Stack	MS	
4	Shape of Stack	Circular	
5	Whether stack is provided with permanent platform & ladder	Yes	
6	DG capacity	157HP	
B. Physical characteristics of stack :			
1	Height of the stack from ground level	2.438 m	
2	Diameter of the stack at sampling point	0.102 m	
3	Area of Stack	0.00810m ²	
C. Analysis/Characteristic of stack:			
1. Fuel used : NG			
D. Result of sampling & analysis of gaseous emission			
		Result	Limit as per CPCB
1	Temperature of emission (°C)	149	USEPA Part 2, 25.09.1996
2	Barometric Pressure (mm of Hg)	762.0	USEPA Part 2, 25.09.1996
3	Velocity of gas (m/sec.)	19.7	USEPA Part 2, 25.09.1996
4	Quantity of Gas Flow (Nm ³ /hr)	404	USEPA Part 2, 25.09.1996
5	Concentration of Oxygen (%v/v)	13.4	IS-13270 :1992 Reaff, 2014
6	Concentration of Carbon Monoxide (g/kW-hr)	0.149	≤ 3.5 IS-13270 :1992 Reaff, 2014
7	Concentration of Carbon Dioxide (%v/v)	6.2	IS-13270 :1992 Reaff, 2014
8	Concentration of Sulphur Dioxide (mg/Nm ³)	24.3	USEPA-29, 25/06/1996
9	Concentration of Nitrogen Oxide & Hydrocarbons (g/kW-hr)	0.258	≤ 4.7 USEPA Part-7, 12/03/1996 & USEPA 18 -25.09.1996
10	Concentration of Lead (mg/Nm ³)	<0.005	USEPA-29, 25/06/1996
11	Concentration of Particulate matter (g/kW-hr)	0.095	≤ 0.3 USEPA Part-17, 16/08/1996
E. Pollution control device :		Remarks: Nil	
Details of pollution control devices attached with the stack : Nil			

Analyzed By:

Prepared By:

Authorized Signatory

For Mitra S.K. Private Limited

Signature

Name

Designation

Mr. Dipankar Mazumdar

Executive Chemist

Signature

Name

Designation

Miss Jyosmita Borah

Office Assistant

Signature

Name

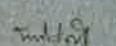
Designation

Mr. Raju Roy

Branch Manager

- The results relate only to the item(s) tested.
- This Test Report shall not be reproduced except in full, without the permission of Mitra S.K. Private Limited.
- Our Lab is Approved by NABL & MOEF, Lab Address: P-48 Udayan Industrial Estate, 3 Pagiadanga Road Kol-700013

Head Office: Shrachi Centre (5th floor), 74B, A.J.C. Bose Road, Kolkata - 700 016, West Bengal, India.
 Tel : 91 33 49143000 / 22650006 / 22650007 Fax : 91 33 22650008
 Email : info@mitrask.com Website: www.mitrask.com


 Approved by
 Uram Pradhan

Supd. Research Scientist R&D Dept.
 Oil India Ltd., Duliagan, Assam

STACK GAS MONITORING REPORT

Name & Address of the Customer	Report No.	: MSK/2023-24/2394
"M/s OIL INDIA LIMITED"	Report Date	: 30.01.2024
Duliajan, Dibrugarh, Assam-786602	Nature of Sample	Stack Emission
	Sample Mark	OCS BHOGPARA
	Sample Number	MSKGL/ED/2023-24/01/00779
Ref. No. W.O. NO. - 8125981 of Contract No. 6116895		
Date of Sampling	Sample Received Date	Analysis Start Date
18.12.2023	21.12.2023	21.12.2023
		Analysis Complete Date
		28.12.2023

ANALYSIS RESULT

A. General information about stack :	: CODP-2		
1. Stack connected to	CRUDE TANK		
2. Emission due to	NG		
3. Material of construction of Stack	MS		
4. Shape of Stack	Circular		
5. Whether stack is provided with permanent platform & ladder	Yes		
6. DG capacity	157HP		
B. Physical characteristics of stack :			
1. Height of the stack from ground level	2.438 m		
2. Diameter of the stack at sampling point	0.102 m		
3. Area of Stack	0.00810m ²		
C. Analysis/Characteristic of stack:			
1. Fuel used : NG			
D. Result of sampling & analysis of gaseous emission	Result	Limit as per CPCB	Method
1. Temperature of emission (°C)	162	...	USEPA Part 2, 25.09.1996
2. Barometric Pressure (mm of Hg)	762.0	...	USEPA Part 2, 25.09.1996
3. Velocity of gas (m/sec.)	19.93	...	USEPA Part 2, 25.09.1996
4. Quantity of Gas Flow (Nm ³ /hr)	396	...	USEPA Part 2, 25.09.1996
5. Concentration of Oxygen (%v/v)	13.6	...	IS:13270 :1992 Reaff, 2014
6. Concentration of Carbon Monoxide (g/kW-hr)	0.152	≤ 3.5	IS:13270 :1992 Reaff, 2014
7. Concentration of Carbon Dioxide (%v/v)	5.8	...	IS:13270 :1992 Reaff, 2014
8. Concentration of Sulphur Dioxide (mg/Nm ³)	24.1	...	USEPA-29, 25/06/1996
9. Concentration of Nitrogen Oxide & Hydrocarbons (g/kW-hr)	0.258	≤ 4.7	USEPA Part-7, 12/03/1996 & USEPA 18-25.09.1996
10. Concentration of Lead (mg/Nm ³)	<0.005	...	USEPA-29, 25/06/1996
11. Concentration of Particulate matter (g/kW-hr)	0.095	≤ 0.3	USEPA Part-17, 16/08/1996
E. Pollution control device :			
Details of pollution control devices attached with the stack :	Nil		

Remarks: Nil

Analyzed By:

Prepared By:

Authorized Signatory
For Mitra S.K. Private Limited

Signature
Name
Designation

Mr. Dipankar Mazumdar
Executive Chemist

Signature
Name
Designation

Miss Jyosmita Borah
Office Assistant

Signature
Name
Designation

Mr. Rajib Roy
Branch Manager

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

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

Approved by
Union Production

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

STACK GAS MONITORING REPORT

Name & Address of the Customer		Report No.	MSK/2023-24/1395
"M/s OIL INDIA LIMITED"		Report Date	30.01.2024
Duliajan, Dibrugarh, Assam-786602		Nature of Sample	Stack Emission
		Sample Mark	OCS BHOGPARA
		Sample Number	MSKGL/ED/2023-24/01/00780
Ref. No. W O NO - 8125981 of Contract No. 6116895			
Date of Sampling	Sample Received Date	Analysis Start Date	Analysis Complete Date
18.12.2023	21.12.2023	21.12.2023	28.12.2023

ANALYSIS RESULT

A.	General information about stack :	: CODP-3		
1	Stack connected to	CRUDE TANK		
2	Emission due to	NG		
3	Material of construction of Stack	MS		
4	Shape of Stack	Circular		
5	Whether stack is provided with permanent platform & ladder	Yes		
6	DG capacity	: 157HP		
B.	Physical characteristics of stack :			
1	Height of the stack from ground level	2.438 m		
2	Diameter of the stack at sampling point	0.102 m		
3	Area of Stack	0.00810m ²		
C.	Analysis/Characteristic of stack:			
	1. Fuel used : NG			
D.	Result of sampling & analysis of gaseous emission	Result	Limit as per CPCB	Method
1	Temperature of emission (°C)	155	---	USEPA Part 2, 25.09.1996
2	Barometric Pressure (mm of Hg)	762.0	---	USEPA Part 2, 25.09.1996
3	Velocity of gas (m/sec.)	19.93	---	USEPA Part 2, 25.09.1996
4	Quantity of Gas Flow (Nm ³ /hr)	396	---	USEPA Part 2, 25.09.1996
5	Concentration of Oxygen (%v/v)	13.6	---	IS:13270:1992 Reaff, 2014
6	Concentration of Carbon Monoxide (g/kW-hr)	0.152	≤ 3.5	IS:13270:1992 Reaff, 2014
7	Concentration of Carbon Dioxide (%v/v)	5.8	---	IS:13270:1992 Reaff, 2014
8	Concentration of Sulphur Dioxide (mg/Nm ³)	24.1	---	USEPA-29, 25/06/1996
9	Concentration of Nitrogen Oxide & Hydrocarbons (g/kW-hr)	0.258	≤ 4.7	USEPA Part-7, 12/03/1996 & USEPA 18-25.09.1996
10	Concentration of Lead (mg/Nm ³)	<0.005	---	USEPA-29, 25/06/1996
11	Concentration of Particulate matter (g/kW-hr)	0.094	≤ 0.3	USEPA Part-17, 16/08/1996
E.	Pollution control device :	Remarks: Nil		
	Details of pollution control devices attached with the stack : Nil			

Analyzed By:

Prepared By:

Authorized Signatory

For Mitra S.K. Private Limited

Signature

Name

Designation

 Mr. Dipankar Mazumdar
 Executive Chemist

Signature

Name

Designation

 Miss Jyosmita Borah
 Office Assistant

Signature

Name

Designation

 Mr. Karthikey
 Branch Manager

- The results relate only to the item(s) tested.
- This Test Report shall not be reproduced except in full, without the permission of Mitra S.K. Private Limited.
- Our Lab is Approved by NABL & MOEF, Lab Address: P-48 Udayan Industrial Estate, 3 Pagladanga Road, Kol-700013

Head Office: Shrauchi Centre (5th floor), 74B, A.J.C. Bose Road, Kolkata - 700 016, West Bengal, India.
 Tel : 91 33 40143000 / 22650096 / 22650007 Fax : 91 33 22650008
 Email : info@mitrask.com Website: www.mitrask.com

 Approved by
 Uttam Prodhan

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

STACK GAS MONITORING REPORT

Name & Address of the Customer		Report No.	: MSK/2023-24/2396
"M/s OIL INDIA LIMITED"		Report Date	30.01.2024
Duhajan, Dibrugarh, Assam-786602		Nature of Sample	Stack Emission
		Sample Mark	OCS BHOGPARA
		Sample Number	MSKGL/ED/2023-24/01/00781
Ref. No. W.O. NO - 8125981 of Contract No. 6116895			
Date of Sampling	Sample Received Date	Analysis Start Date	Analysis Complete Date
18.12.2023	21.12.2023	21.12.2023	28.12.2023

ANALYSIS RESULT

A.	<u>General information about stack :</u>		: DRENCHING PUMP		
1	Stack connected to	WATER TANK			
2	Emission due to	HSD			
3	Material of construction of Stack	MS			
4	Shape of Stack	Circular			
5	Whether stack is provided with permanent platform & ladder	: Yes			
6	DG capacity	: 310 HP			
B.	<u>Physical characteristics of stack :</u>				
1	Height of the stack from ground level	: 2.438 m			
2	Diameter of the stack at sampling point	: 0.102 m			
3	Area of Stack	: 0.00810m ²			
C.	<u>Analysis/Characteristic of stack:</u>				
	1. Fuel used : NG				
D.	<u>Result of sampling & analysis of gaseous emission</u>		<u>Result</u>	<u>Limit as per CPCB</u>	<u>Method</u>
1	Temperature of emission (°C)		133	...	USEPA Part 2, 25.09.1996
2	Barometric Pressure (mm of Hg)		762.0	...	USEPA Part 2, 25.09.1996
3	Velocity of gas (m/sec.)		18.85	...	USEPA Part 2, 25.09.1996
4	Quantity of Gas Flow (Nm ³ /hr)		401	...	USEPA Part 2, 25.09.1996
5	Concentration of Oxygen (%v/v)		13.4	...	IS:13270:1992 Reaff, 2014
6	Concentration of Carbon Monoxide (g/kW-hr)		0.256	≤ 3.5	IS:13270:1992 Reaff, 2014
7	Concentration of Carbon Dioxide (%v/v)		5.4	...	IS:13270:1992 Reaff, 2014
8	Concentration of Sulphur Dioxide (mg/Nm ³)		25.1	...	USEPA-29, 25/06/1996
9	Concentration of Nitrogen Oxide & Hydrocarbons (g/kW-hr)		0.271	≤ 4.7	USEPA Part-7, 12/03/1996 & USEPA 18-25.09.1996
10	Concentration of Lead (mg/Nm ³)		<0.005	...	USEPA-29, 25/06/1996
11	Concentration of Particulate matter (g/kW-hr)		0.104	≤ 0.3	USEPA Part-17 16/08/1996
E.	<u>Pollution control device :</u>		<u>Remarks Nil</u>		
	Details of pollution control devices attached with the stack : Nil				

Analyzed By:

Prepared By:

Authorized Signatory

For Mitra S.K. Private Limited

Signature

Name

Designation

 Mr. Dipankar Mazumdar
 Executive Chemist

Signature

Name

Designation

 Miss Jyosmita Borah
 Office Assistant

Signature

Name

 Mr. [Signature]
 Designation : Branch Manager

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

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

 Approved by
 Urutan Pradhan

 Suptdy. Research Scientist, R&D Dept.,
 Oil India Ltd., Duhajan, Assam

STACK GAS MONITORING REPORT

Name & Address of the Customer	Report No.	: MSK/2023-24/2397
"M/s OIL INDIA LIMITED"	Report Date	30.01.2024
Duliajan, Dibrugarh, Assam-786602	Nature of Sample	Stack Emission
	Sample Mark	OCS BHOGPARA
	Sample Number	MSKGL/ED/2023-24/01/00782
Ref. No. W.O. NO. - 8125981 of Contract No. 6116895		
Date of Sampling	Sample Received Date	Analysis Start Date
18.12.2023	21.12.2023	21.12.2023
		Analysis Complete Date
		28.12.2023

ANALYSIS RESULT

A.	General information about stack :	: DRENCHING PUMP		
1	Stack connected to	: WATER TANK		
2.	Emission due to	: HSD		
3	Material of construction of Stack	: MS		
4	Shape of Stack	: Circular		
5	Whether stack is provided with permanent platform & ladder	: Yes		
6.	DG capacity	: 310 HP		
B.	Physical characteristics of stack :			
1	Height of the stack from ground level	2.438 m		
2.	Diameter of the stack at sampling point	0.102 m		
3.	Area of Stack	0.00810m ²		
C.	Analysis/Characteristic of stack:			
	1. Fuel used : NG			
D.	Result of sampling & analysis of gaseous emission	Result	Limit as per CPCB	Method
1	Temperature of emission (°C)	127	...	USEPA Part 2, 25.09.1996
2	Barometric Pressure (mm of Hg)	762.0	...	USEPA Part 2, 25.09.1996
3	Velocity of gas (m/sec.)	19.07	...	USEPA Part 2, 25.09.1996
4	Quantity of Gas Flow (Nm ³ /hr)	412	...	USEPA Part 2, 25.09.1996
5	Concentration of Oxygen (%v/v)	13.8	...	IS:13270:1992 Reaff, 2014
6.	Concentration of Carbon Monoxide (g/kW-hr)	0.249	≤ 3.5	IS:13270:1992 Reaff, 2014
7	Concentration of Carbon Dioxide (%v/v)	5.8	...	IS:13270:1992 Reaff, 2014
8	Concentration of Sulphur Dioxide (mg/Nm ³)	24.9	...	USEPA-29, 25/06/1996
9.	Concentration of Nitrogen Oxide & Hydrocarbons (g/kW-hr)	0.249	≤ 4.7	USEPA Part-7, 12/03/1996 & USEPA 18-25.09.1996
10.	Concentration of Lead (mg/Nm ³)	<0.005	...	USEPA-29, 25/06/1996
11	Concentration of Particulate matter (g/kW-hr)	0.102	≤ 0.3	USEPA Part-17, 16/08/1996
E.	Pollution control device :	Remarks: Nil		
	Details of pollution control devices attached with the stack : Nil			

Analyzed By:

Prepared By:

Authorized Signatory

For Mitra S.K. Private Limited

Signature

Name

Designation

Mr. Dipankar Mazumdar

Executive Chemist

Signature

Name

Designation

Miss Jyosmita Borah

Office Assistant

Signature

Name


Designation

Mr. Rajib Roy

Branch Manager

- The results relate only to the item(s) tested.
- This Test Report shall not be reproduced except in full, without the permission of Mitra S.K. Private Limited.
- Our Lab is Approved by NABL & MOEF. Lab Address: P-48 Udayan Industrial Estate, 3 Pagladanga Road Kol-700013

Head Office: Shreechi Centre (5th floor), 74B, A.J.C. Bose Road, Kolkata - 700 016, West Bengal, India.
Tel : 91 33 40141000 / 22650006 / 22650007 Fax : 91 33 22650008
Email : info@mitrask.com. Website: www.mitrask.com


Approved by
Union Production

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

STACK GAS MONITORING REPORT

Name & Address of the Customer	Report No.	MSK/2023-24/2398
"M/s OIL INDIA LIMITED"	Report Date	30.01.2024
Duliajan, Dibrugarh, Assam-786602	Nature of Sample	Stack Emission
	Sample Mark	OCS BHOGPARA
	Sample Number	MSKGL/ED/2023-24/01/00783
Ref. No.-W.O. NO.- 8125981 of Contract No. 6116895		
Date of Sampling	Sample Received Date	Analysis Start Date
18.12.2023	21.12.2023	21.12.2023
		Analysis Complete Date
		28.12.2023

ANALYSIS RESULT

A.	General information about stack :	: GENSET-1	
1	Stack connected to	: WATER TANK	
2	Emission due to	: HSD	
3	Material of construction of Stack	: MS	
4	Shape of Stack	: Circular	
5	Whether stack is provided with permanent platform & ladder	: Yes	
6	DG capacity	: 250 KVA	
B.	Physical characteristics of stack :		
1	Height of the stack from ground level	: 2.438 m	
2	Diameter of the stack at sampling point	: 0.102 m	
3	Area of Stack	: 0.00810m ²	
C.	Analysis/Characteristic of stack:		
	1. Fuel used : NG		
D.	Result of sampling & analysis of gaseous emission		
		Result	
		Limit as per CPCB	
		Method	
1	Temperature of emission (°C)	127	USEPA Part 2, 25.09.1996
2	Barometric Pressure (mm of Hg)	762.0	USEPA Part 2, 25.09.1996
3	Velocity of gas (m/sec.)	19.07	USEPA Part 2, 25.09.1996
4	Quantity of Gas Flow (Nm ³ /hr)	412	USEPA Part 2, 25.09.1996
5	Concentration of Oxygen (%v/v)	13.8	IS 13270 : 1992 Reaff. 2014
6	Concentration of Carbon Monoxide (g/kW-hr)	0.249	IS 13270 : 1992 Reaff. 2014
7	Concentration of Carbon Dioxide (%v/v)	5.8	IS 13270 : 1992 Reaff. 2014
8	Concentration of Sulphur Dioxide (mg/Nm ³)	24.9	USEPA-29, 25/06/1996
9	Concentration of Nitrogen Oxide & Hydrocarbons (g/kW-hr)	0.249	USEPA Part-7, 12/03/1996 & USEPA 18-25.09.1996
10	Concentration of Lead (mg/Nm ³)	<0.005	USEPA-29, 25/06/1996
11	Concentration of Particulate matter (g/kW-hr)	0.102	USEPA Part-17 16/08/1996
E.	Pollution control device :		Remarks: Nil
	Details of pollution control devices attached with the stack : Nil		

Analyzed By:

Prepared By:

Authorized Signatory

For Mitra S.K. Private Limited

Signature

Name

Designation

 Mr. Dipankar Mazumdar
 Executive Chemist

Signature

Name

Designation

 Miss Jyosmita Borah
 Office Assistant

Signature

Name

Designation

 Mr. Rajib Roy
 Branch Manager

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

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

Approved by

Uttam Pradhan

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

Form-O
[See Rules 29 - F (2) and 29 -L]
Report of Medical Examination under Rule 29 - B
(To be issued in Triplicate)**

Certificate No: E2029718

Certified that Shri KONWAR TITUL KUMAR (E202971) is employed as TECHNICIAN-2(CA) in CENTRAL ASSET mine,

Form D, no. has been examined for a periodical medical examination. He appears to be 33 years of age.

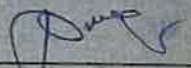
The findings of the examining authority are given in the attached sheet.

It is considered that Shri KONWAR TITUL KUMAR

- ✓*(a) is medically fit for employment in mines
- *(b) is suffering from and is medically unfit for
- (i) any employment in mine - or
- (ii) any employment below ground . or
- (iii) any employment of work

Place: DULIAJAN HOSPITAL

Date : 04.11.2022


Signature of Examining Authority
DR PUNYESWAR KEOT, CHIEF
Name and Designation in Block Letter

डॉ. पुण्यस्वर केउट
DR PUNYESWAR KEOT
उप महाप्रबंधक (व्यावसायिक स्वास्थ्य सेवाएं)
DGM (Occupational Health Service)
भारत इंडिया लिमिटेड, अस्पताल, दुलियाजान
India Limited, Hospital, Duliajan

- * Delete whatever not applicable
- * One copy of the certificate shall be handed over to the person concerned and another copy shall be sent to the manager of the mine concerned by registered post and the third copy shall be retained by examining authority

Report of the Examining Authority

(To be filled in for every medical examination whether initial or periodical or re-examination or after cure/ control of disability)

Annexure to certificate number E2029718 as a result of medical examination on 04.11.2022 .

Left Thumb Impression of Candidate

SL		
	Identification Mark	
1	General Development	NORMAL
2	Height(cm)	170
3	Weight(Kg.)	75
4	Eyes	
	(i) Visual Acuity - Distance Vision	
	(With Glass) Right Eye	6/6
	(With Glass) Left Eye	6/6
	(ii) Any organic disease of eyes	ABSENT
	(iii) Night Blindness	ABSENT
	(iv) Squint	ABSENT
5	Ears	
	(i) Hearing Right Ear:	NORMAL
	(ii) Hearing Left Ear :	NORMAL
	(iii) Any organic disease of ears	NO
6	Respiratory System	
	Chest Measurement	
	(i) After full inspiration(cm)	103
	(ii) After full expiration(cm)	99
7	Circulatory System	
	(i) Blood Pressure(mm of Hg)	110 / 80
	(ii) Pulse(/Min)	62
8	Abdomen	ABSENT
	Tenderness	ABSENT
	Liver	NONPALPABLE
	Spleen	NONPALPABLE
	Tumor	NONPALPABLE
9	Nervous System	
	History of fits or epilepsy	ABSENT
	Paralysis	ABSENT
	Mental Health	NORMAL
10	Locomotor system	NORMAL
11	Skin	MOIST
12	Hernia	ABSENT
13	Hydrocele	ABSENT
14	Any other abnormality	NO
15	Urine	
	(i) Reaction	NO
	(ii) Albumin	ABSENT
16	(iii) Sugar	ABSENT
17	Skiagram of Chest	ABSENT
18	Any other #C* test considered necessary by the	
19	Any opinion of specialist considered necessary	

Place : DULIAJAN HOSPITAL

Signature of Examining Authority

Page No 2/3.

**Report of Medical Examination as per the recommendation of
National Safety Conferences in Mines
(To be used in Continuation with Form "O")**

Certificate : E2029718

Name : KONWAR TITUL KUMAR

Identification:

1. Cardiological Assessment:	
Auscultaion S1	NORMAL
Auscultaion S2	NORMAL
Auscultaion Additional Sound	NORMAL
Electrocardiograph (12 Leads) Finding	NORMAL

2. Neurological Assessment:	
Findings	NORMAL
Superfacial Reflexes	NORMAL
Deep Reflexes	NORMAL
Peripheral Circulation	NORMAL
Vibration Syndromes	NORMAL

3. ILO Classification of Chest Radiograph :		NOT APPLICABLE	
Profusion of Pnenumoconiotic Opacities	Grades	Types	

4. Audiometry Findings :			
Conduction Type	Left Ear	Right Ear	
Ear Conduction	NORMAL	NORMAL	
Bone Conduction	NORMAL	NORMAL	

5. Pathological / Microbiological Investigation		
Sr.No.	Tests	Findings
1.	Blood - Tc, Dc, Hb, ESR, Platelets	WNL
2.	Bold Sugar - Fasting & PP	WNL
3.	Lipid Profile	WNL
4.	Blood Urea , Creatinine	WNL
5.	Urine Routine	WNL
6.	Stool Routine	WNL

6. Special Tests for Mn exposure :		NOT APPLICABLE
Behavior Disturbances		
Neurological Disturbances Speech Defect		
Neurological Disturbances Tremor		
Neurological Disturbances Adiadocokinesia		
Neurological Disturbances Emotional Changes		

7. Any other Special Test Required (Result of Lung Function Test 'Spirometry') :			
Parameters	Predicted Value	Performed Value	% of Predicted
Forced Vital Capacity (FVC)	0.00	0.00	0.00
Forced Vital Capacity 1 (FEV1)	0.00	0.00	0.00
FEV1/FVC	0.00	0.00	0.00
Pick Expiratory Flow	0.00	0.00	0.00

Signature of Examining Authority

Form-O
[See Rules 29 - F (2) and 29 -L]
Report of Medical Examination under Rule 29 - B
(To be issued in Triplicate)**

Certificate No: E1031424

Certified that Shri PATHRAI ASHOK (E103142) is employed as TECHNICIAN-1(CA) in CENTRAL ASSET mine,

Form D, no. has been examined for a periodical medical examination. He appears to be 58 years of age.

The findings of the examining authority are given in the attached sheet.

It is considered that Shri PATHRAI ASHOK

* (a) is medically fit for employment in mines.

* (b) is suffering from and is medically unfit for


(i) any employment in mine - or

(ii) any employment below ground . or

(iii) any employment of work

Place: DULIAJAN HOSPITAL

Date : 18.08.2023


Signature of Examining Authority
DR PUNYESWAR KEOT, CHIEF
Name and Designation in Block Letter

डॉ. पुण्येश्वर केउट
DR. PUNYESWAR KEOT
उप महाप्रबंधक (व्यावसायिक स्वास्थ्य सेवा)
DGM (Occupational Health Service)
ऑयल इंडिया लिमिटेड, अस्पताल, दुलियाज
Oil India Limited, Hospital, Duliaj.

* Delete whatever not applicable
* One copy of the certificate shall be handed over to the person concerned and another copy shall be sent to the manager of the mine concerned by registered post and the third copy shall be retained by examining authority

Report of the Examining Authority

(To be filled in for every medical examination whether initial or periodical or re-examination or after cure/ control of disability)

Annexure to certificate number E1031424 as a result of medical examination on 18.08.2023 .

Left Thumb impression of Candidate

Sl		
	Identification Mark	
1	General Development	NORMAL
2	Height(cm)	161
3	Weight(Kg.)	65
4	Eyes	
	(i) Visual Acuity - Distance Vision	
	(With Glass) Right Eye	6/6
	(With Glass) Left Eye	6/6
	(ii) Any organic disease of eyes	ABSENT
	(iii) Night Blindness	ABSENT
	(iv) Squint	ABSENT
5	Ears	
	(i) Hearing Right Ear:	NORMAL
	(ii) Hearing Left Ear :	NORMAL
	(iii) Any organic disease of ears	NO
6	Respiratory System	
	Chest Measurement	
	(i) After full inspiration(cm)	105
	(ii) After full expiration(cm)	100
7	Circulatory System	
	(i) Blood Pressure(mm of Hg)	130 / 86
	(ii) Pulse(/Min)	76
8	Abdomen	ABSENT
	Tenderness	ABSENT
	Liver	NONPALPABLE
	Spleen	NONPALPABLE
	Tumor	NONPALPABLE
9	Nervous System	
	History of fits or epilepsy	ABSENT
	Paralysis	ABSENT
	Mental Health	NORMAL
10	Locomotor system	NORMAL
11	Skin	MOIST
12	Hernia	ABSENT
13	Hydrocele	ABSENT
14	Any other abnormality	NO
15	Urine	
	(i) Reaction	NO
	(ii) Albumin	ABSENT
16	(iii) Sugar	ABSENT
17	Skiagram of Chest	ABSENT
18	Any other #C* test considered necessary by the	
19	Any opinion of specialist considered necessary	

Place : DULIAJAN HOSPITAL

Signature of Examining Authority
Page No 2/3.

**Report of Medical Examination as per the recommendation of
National Safety Conferences in Mines
(To be used in Continuation with Form "O")**

Certificate : E1031424

Name : PATHRAJ ASHOK

Identification:

1. Cardiological Assessment:	
Auscultaion S1	NORMAL
Auscultaion S2	NORMAL
Auscultaion Additional Sound	NORMAL
Electrocardiograph (12 Leads) Finding	NORMAL

2. Neurological Assessment:	
Findings	NORMAL
Superfacial Reflexes	NORMAL
Deep Reflexes	NORMAL
Peripheral Circulation	NORMAL
Vibration Syndromes	NORMAL

3. ILO Classification of Chest Radiograph :			NOT APPLICABLE
Profusion of Pnemoconiotic Opacities	Grades	Types	

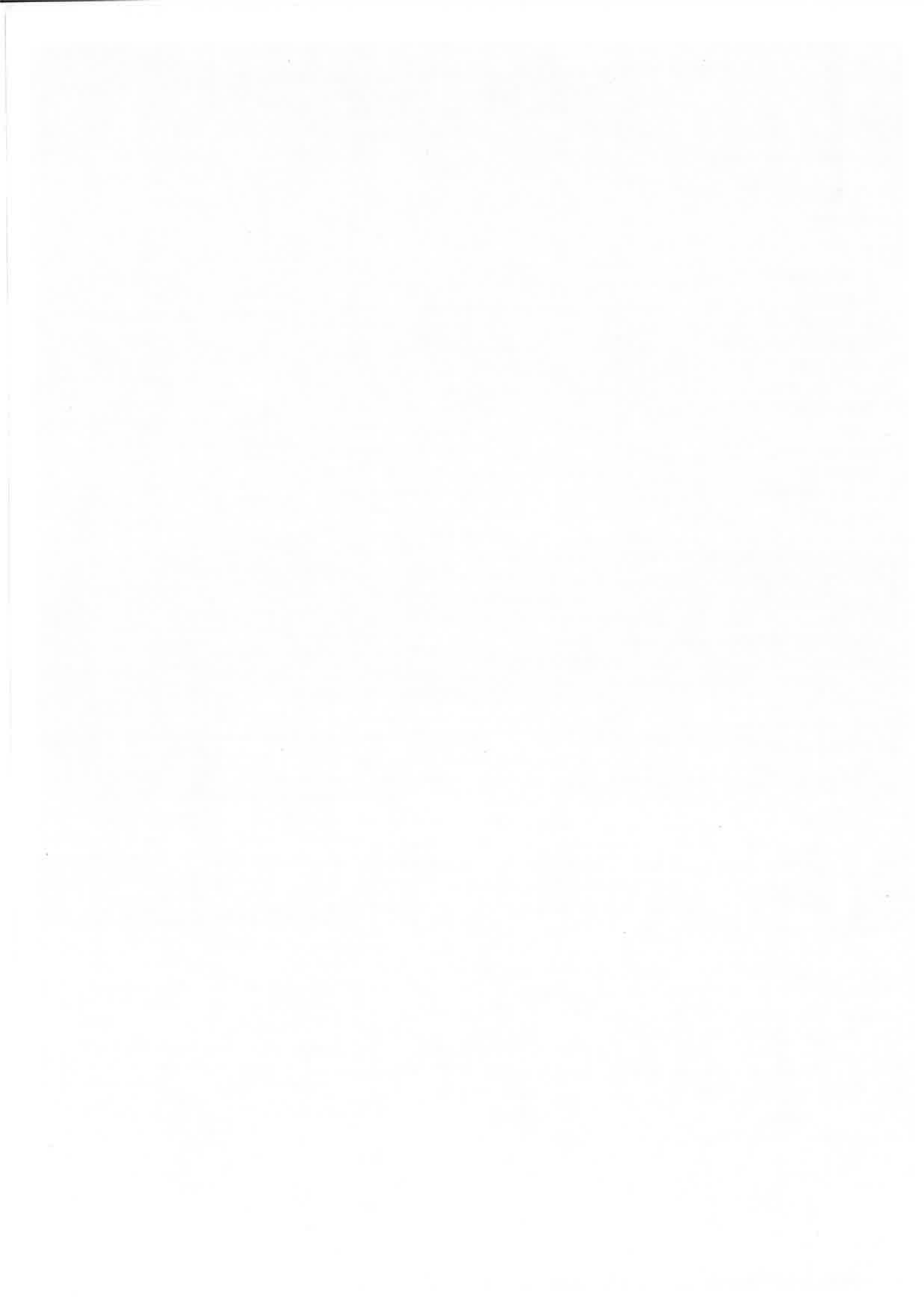
4. Audiometry Findings :		
Conduction Type	Left Ear	Right Ear
Ear Conduction	NORMAL	NORMAL
Bone Conduction	NORMAL	NORMAL

5. Pathological / Microbiological Investigation		
Sr.No.	Tests	Findings
1.	Blood - Tc, Dc, Hb, ESR, Platelets	WNL
2.	Bold Sugar - Fasting & PP	WNL
3.	Lipid Profile	WNL
4.	Blood Urea , Creatinine	WNL
5.	Urine Routine	WNL
6.	Stool Routine	WNL

6. Special Tests for Mn exposure :		NOT APPLICABLE
Behavior Disturbances		
Neurological Disturbances Speech Defect		
Neurological Disturbances Tremor		
Neurological Disturbances Adiadocokinesia		
Neurological Disturbances Emotional Changes		

7. Any other Special Test Required (Result of Lung Function Test 'Spirometry') :			
Parameters	Predicted Value	Performed Value	% of Predicted
Forced Vital Capacity (FVC)	0.00	0.00	0.00
Forced Vital Capacity 1 (FEV1)	0.00	0.00	0.00
FEV1/FVC	0.00	0.00	0.00
Pick Expiratory Flow	0.00	0.00	0.00

Signature of Examining Authority



Annexure - C



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

Health Safety & Environment Department

P.O. DULIAJAN-786602,

ASSAM, INDIA

Phone : 0374-2800542

Fax : 0374-2801796

Email: safety@oilindia.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, Sivsagar,
PIN: 785640.

Summary of the Project

The project was initiated in 1998 and has since then been a continuous effort to improve the quality of the project. The project has been successful in achieving its goals and has been a valuable experience for all involved.

Project Objectives

The project objectives were to improve the quality of the project and to ensure that the project was completed on time and within budget.



Project Results

The project results were as follows:

- 1. Improved the quality of the project.
- 2. Ensured that the project was completed on time and within budget.

The project was successful in achieving its goals and has been a valuable experience for all involved.

The project was successful in achieving its goals and has been a valuable experience for all involved. The project was completed on time and within budget, and the quality of the project was improved.

The project was successful in achieving its goals and has been a valuable experience for all involved.

The project was successful in achieving its goals and has been a valuable experience for all involved.

The project was successful in achieving its goals and has been a valuable experience for all involved.

The project was successful in achieving its goals and has been a valuable experience for all involved.

The project was successful in achieving its goals and has been a valuable experience for all involved.

The project was successful in achieving its goals and has been a valuable experience for all involved.

The project was successful in achieving its goals and has been a valuable experience for all involved. The project was completed on time and within budget, and the quality of the project was improved.

The project was successful in achieving its goals and has been a valuable experience for all involved. The project was completed on time and within budget, and the quality of the project was improved.

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.

PART - B

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

(II) Raw material consumption

*Name of raw materials	Name of products	Consumption of raw material per unit	
		During F.Y. 2021-22	During 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. <ul style="list-style-type: none"> Wastewater generated from drilling locations is treated in Effluent Treatment Plant (ETP) and reused back in the drilling operation. The formation water generated after separation from crude oil and 	<ul style="list-style-type: none"> 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- 	No variation is observed. All parameters of treated effluent and Formation water are within the permissible limits.



	treatment is pumped back to the underground formation (depth greater than 1600 m) through formation water disposal wells.	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.	Stack Gas and Ambient Air Quality (AAQ) monitoring is carried out frequently at drilling locations and Production Installations (Test report enclosed as Annexure- III)	No variation is observed. All parameters of Stack Gas emissions and Ambient Air are within the permissible limits.

PART - D
HAZARDOUS WASTES

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

Hazardous Wastes	Category of Hazardous Waste as per Schedule - I of HW Rules, 2016	Total Quantity generated	
		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
	S.No. 5.1 Used or Spent Oil	60 KL	208 KL
	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	S.No. 33.5 Chemical sludge 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		
Drill Cuttings	23,000 m ³ (Approx.)	27,000 m ³ (Approx.)
(b) From pollution control facilities	NIL	
(c)		
(1) Quantity recycled or re-utilized within the unit.	N/A	
(2) Sold	N/A	
(3) Disposed	N/A	

PART - F

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

(I) Hazardous Wastes:

Name of the Hazardous Waste	Quantity generated during 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.**

