

F.No. IA-J-11011/49/2014- IA II(I)
Government of India
Ministry of Environment, Forest and Climate Change
(IA-II Section)

Indira Paryavaran Bhawan
Jorbagh Road, New Delhi - 3

Dated: 1st May, 2019

To

M/s Oil and Natural Gas Corporation Ltd
Nambar-I, Jorhat Asset
District Jorhat (Assam) - 785 704

Sub: Onshore development and production of oil & gas from six wells in 5 Mine Lease Blocks in Districts Jorhat and Golaghat (Assam) by M/s Oil and Natural Gas Corporation Ltd - Environmental Clearance - reg.

Sir,

This has reference to your proposal No.IA/AS/IND2/83554/2014 dated 31st December 2018, submitting the EIA/EMP report on the above subject matter.

2. The Ministry of Environment, Forest and Climate Change has examined the proposal for environmental clearance to the project for onshore development and production of oil & gas from six wells in 5 ML Blocks (Borholla, Nambar, East Lakhbari, Khoraghat and Khoraghat Extension) in Districts Jorhat and Golaghat (Assam) by M/s Oil and Natural Gas Corporation Ltd.

3. Existing land area in Jorhat District is 32.116 sqkm and in Golaghat is 120.5 sqkm. The estimated project cost is Rs.240 crores. Total capital cost earmarked towards environmental pollution control measures is Rs.17.62 lakhs and the recurring cost (O&M) will be about Rs.28.31 lakhs per annum. Employment opportunity will be for 62 persons directly and 60 persons during installation of surface facilities.

4. There are no National Parks, Wildlife Sanctuaries, Biosphere Reserves, Tiger/Elephant Reserves, Wildlife Corridors, Rivers etc. within 10 km from the project site. Dhansiri river is passing through Nambar ML area.

5. Total water requirement is estimated to be 25 cum/day, which is proposed be met from ground water through bore wells/tankers. Waste water of 17 cum/day will be treated through Mobile Effluent Treatment Plant (ETP). There will be no discharge of treated/untreated waste water from the unit, and thus ensuring Zero Liquid Discharge.

Power requirement will be met through four DG sets of 1430 KVA or from Assam State power distribution corporation limited (ASPDCL). Stack will be provided as per CPCB norms to the proposed DG sets.

6. The project/activity is covered under category A of item 1(b) 'Offshore and onshore oil and gas exploration, development & production' of the schedule to the Environment Impact Assessment (EIA) Notification, 2006, and requires appraisal/approval at central level in the Ministry.



7. Terms of Reference (ToR) for the project was granted on 18th December, 2014, and extended till 18th December 2018 vide letter dated 2nd February, 2018. Public hearing was conducted by the Assam State Pollution Control Board on 6th May, 2017 and 9th May 2017 in Golaghat and Jorhat Districts respectively.

8. Stage -1 forest clearance has been obtained for diversion of 3.48 ha of forest land at KHDF location under Golaghat Division, Assam, vide Ministry's Regional Office (Shillong) letter dated 29th October, 2018, and 2.24 ha of forest land for drilling location KHDD under Golaghat Division, vide letter dated 3rd January, 2019.

9. The proposal was considered by the Expert Appraisal Committee (Industry-2) in the Ministry in its meeting held on 26-28 February, 2019. The project proponent and their accredited consultant M/s Asian Consulting Engineers Pvt Ltd, presented the EIA/EMP report as per the ToR. The Committee found the EIA/EMP report complying with the ToR and recommended the project for grant of environmental clearance.

10. Based on the proposal submitted by the project proponent and recommendations of the EAC (Industry-2), the Ministry of Environment, Forest and Climate change hereby accords environmental clearance to the project for **Onshore development and production of oil & gas from six wells in 5 ML Blocks (Borholla, Nambar, East Lakhbari, Khoraghat and Khoraghat Extension) in Districts Jorhat and Golaghat (Assam) by M/s Oil and Natural Gas Corporation Ltd**, under the provisions of the EIA Notification, 2006, subject to the compliance of terms and conditions as under:-

- (i) No drilling shall be conducted in forest areas without obtaining prior approval under the Forest (Conservation) Act, 1980.
- (ii) 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.
- (iii) 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, and/or on land.
- (iv) To control source and the fugitive emissions, 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.
- (v) Necessary authorization required under the Hazardous and Other Wastes (Management and Trans-Boundary Movement) Rules, 2016, Solid Waste Management Rules, 2016 shall be obtained and the provisions contained in the Rules shall be strictly adhered to.
- (vi) Ambient air quality shall be monitored at the nearest human settlements as per the National Ambient Air Quality Emission Standards issued by the Ministry vide G.S.R. No. 826(E) dated 16th November, 2009 for PM₁₀, PM_{2.5}, SO₂, NO_x, CO, CH₄, HC, Non-methane HC etc.
- (vii) During exploration, production, storage and handling, the fugitive emission of methane, if any, shall be monitored using Infra-red camera/ appropriate technology.



- (viii) The project proponent also to ensure trapping/storing of the CO₂ generated, if any, during the process and handling.
- (ix) Approach road shall be made pucca to minimize generation of suspended dust.
- (x) The company shall make all arrangements for control of noise from the drilling activity. Acoustic enclosure shall be provided for the DG sets along with the adequate stack height as per CPCB guidelines.
- (xi) Total fresh water requirement shall not exceed 25 cum/day proposed to be met from water tankers/bore wells. Prior permission in this regard shall be obtained from the concerned regulatory authority.
- (xii) The company shall construct the garland drain all around the drilling site to prevent runoff of any oil containing waste into the nearby water bodies. Separate drainage system shall be created for oil contaminated and non-oil contaminated. Effluent shall be properly treated and treated wastewater shall conform to CPCB standards.
- (xiii) Drill cuttings separated from drilling fluid shall be adequately washed and disposed in HDPE lined pit. Waste mud shall be tested for hazardous contaminants and disposed according to HWMH Rules, 2016. No effluent/drilling mud/drill cutting shall be discharged/disposed off into nearby surface water bodies. The company shall comply with the guidelines for disposal of solid waste, drill cutting and drilling fluids for onshore drilling operation notified vide GSR.546(E) dated 30th August, 2005.
- (xiv) Oil spillage prevention and mitigation scheme shall be prepared. In case of oil spillage/ contamination, action plan shall be prepared to clean the site by adopting proven technology. The recyclable waste (oily sludge) and spent oil shall be disposed of to the authorized recyclers.
- (xv) 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.
- (xvi) The company shall develop a contingency plan for H₂S release including all necessary aspects from evacuation to resumption of normal operations. The workers shall be provided with personal H₂S detectors in locations of high risk of exposure along with self containing breathing apparatus.
- (xvii) 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.
- (xviii) Emergency Response Plan shall be based on the guidelines prepared by OISD, DGMS and Govt. of India.
- (xix) The company shall take measures after completion of drilling process by well plugging and secured enclosures, decommissioning of rig upon abandonment of the well and drilling site shall be restored the area in original condition. In the



event that no economic quantity of hydrocarbon is found a full abandonment plan shall be implemented for the drilling site in accordance with the applicable Indian Petroleum Regulations.

- (xx) All the commitments made to the public during public hearing/consultation shall be satisfactorily implemented.
- (xxi) At least 1.5% 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.
- (xxii) Occupational health surveillance of the workers shall be carried out as per the prevailing Acts and Rules.
- (xxiii) Restoration of the project site shall be carried out satisfactorily and report shall be sent to the Ministry's Regional Office.
- (xxiv) An audit shall be done to ensure that the Environment Management Plan is implemented in totality and report shall be submitted to the Ministry's Regional Office.
- (xxv) Company shall have own Environment Management Cell having qualified persons with proper background.
- (xxvi) 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 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.
- (xxvii) On completion of drilling, the company has to plug the drilled wells safely and obtain certificate from environment safety angle from the concerned authority.

10.1 The grant of environmental clearance is further subject to compliance of other generic conditions as under:-

- (i) The project authorities must strictly adhere to the stipulations made by the State Pollution Control Board (SPCB), State Government and/ or any other statutory authority.
- (ii) No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment, Forest and Climate Change. 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.
- (iii) 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 stations each is installed in the upwind and downwind direction as well as where maximum ground level concentrations are anticipated.
- (iv) The National Ambient Air Quality Emission Standards issued by the Ministry vide G.S.R. No. 826(E) dated 16th November, 2009 shall be complied with.



- (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 generation. The ambient noise levels shall conform to the standards prescribed under the Environment (Protection) Act, 1986 and the Rules made thereunder.
- (vi) The Company shall harvest rainwater from the roof tops of the buildings and storm water drains to recharge the ground water and utilize the same for different industrial operations within the plant.
- (vii) Training shall be imparted to all employees on safety and health aspects of chemicals handling. Pre-employment and routine periodical medical examinations for all employees shall be undertaken on regular basis. Training to all employees on handling of chemicals shall be imparted.
- (viii) The company shall comply with all the environmental protection measures and safeguards proposed in the documents submitted to the Ministry. All the recommendations made in the EIA/EMP in respect of environmental management, risk mitigation measures and public hearing shall be implemented.
- (ix) The company shall undertake all measures for improving socio-economic conditions of the surrounding area. CER activities shall be undertaken by involving local villagers, administration and other stake holders. Also eco-developmental measures shall be undertaken for overall improvement of the environment.
- (x) A separate Environmental Management Cell equipped with full-fledged laboratory facilities shall be set up to carry out the Environmental Management and Monitoring functions.
- (xi) 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.
- (xii) A copy of the clearance letter shall be sent by the project proponent to concerned Panchayat, Zila Parisad/ Municipal Corporation, Urban local Body and the local NGO, if any, from whom suggestions/ representations, if any, were received while processing the proposal.
- (xiii) The project proponent shall also submit six monthly reports on the status of compliance of the stipulated Environmental Clearance conditions including results of monitored data (both in hard copies as well as by e-mail) to the respective Regional Office of MoEF&CC, the respective Zonal office of CPCB and SPCB. A copy of Environmental Clearance and six monthly compliance status report shall be posted on the website of the company.
- (xiv) The environmental statement for each financial year ending 31st 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.

- (xv) 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 at <http://moef.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.

11. The Ministry reserves the right to stipulate additional conditions, if found necessary at subsequent stages and the project proponent shall implement all the said conditions in a time bound manner. The Ministry may revoke or suspend the environmental clearance, if implementation of any of the above conditions is not found satisfactory.

12. The above conditions will be enforced, *inter alia* under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, Air (Prevention & Control of Water Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 and the Public Liability Insurance Act, 1991 along with their amendments and rules.


15/2019
(S. K. Srivastava)
Scientist E

Copy to: -

1. The Additional DG (C), MoEF&CC Regional Office (NEZ), Law-U-Sib, Lumbatngen, Near MTC Workshop, Shillong
2. The Secretary, Department of Environment and Forest, Government of Assam, H-Block, 2nd Floor, Janata Bhawan, Disupr, Guwahati (Assam) - 6
3. The Member Secretary, Central Pollution Control Board, Parivesh Bhawan, CBD-cum-Office Complex, East Arjun Nagar, Delhi - 32
4. The Member Secretary, Pollution Control Board Assam, Bamunimaidam, Guwahati - 21
5. Guard File/Monitoring File/Website/Record File


15/2019
(S. K. Srivastava)
Scientist E

**SIX MONTHLY COMPLIANCE REPORT FOR ENVIRONMENT CLEARANCE
(April 2024 to September 2024)**

1	Name of the project	Onshore Development & Production of oil & gas from six wells in 5 Mine Lease Blocks in Districts Jorhat and Golaghat (Assam) by M/s Oil and Natural Gas Corporation Ltd - Environmental Clearance
2	Location of project/ address:	Districts Jorhat and Golaghat (Assam)
3	Letter No. & date of Environment Clearance granted by MOEF	F.No. J-11011/49/2014- IA II (I) dated 01.05.2019
4	Present Status of project	05 wells have been drilled.
5	Date of Commencement of Project	22.05.2021
6	Project Area as Per EC Granted (In Case of Mine Lease)	152.6 sq.km.
7	Actual Project Area (In Case of Mine Lease)	152.6 sq.km.
8	Crude Oil Production during 2023-24	26696.80 MT
9	Natural Gas Production during 2023-24	3.730146 MMSCM

SL. No.	Condition Description	Compliance
I.	No drilling shall be conducted in forest areas without obtaining prior approval under the Forest (Conservation) Act, 1980.	Prior Forest Clearances have been obtained wherever applicable.
II.	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 Boards.	Consents under the Water (Prevention and Control of Pollution) Act, 1974 and the air (Prevention and Control of Pollution) Act, 1981 have been obtained. Copy Attached at Annexure-3 .
III.	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, and/or on land.	Zero liquid discharge is being ensured at all drilling rigs and no waste water is discharged to any surface body. Waste water is collected in HDPE lined pit for solar drying.
IV.	To control source and the fugitive emissions, suitable pollution control devices shall be installed to meet prescribed norms and/or the NAAQS. The gaseous emissions shall be dispersed through stack of adequate height as per CPCB/SPCB guideline.	All the applicable guidelines are being followed.
V.	Necessary authorization required under the hazardous and other wastes (management and trans-boundary movement) rules, 2016, solid waste management rules, 2016 shall be obtained and the provisions contained in the rules shall be strictly adhered to.	ONGC has applied for the necessary authorisation under the Hazardous and other Wastes (Management and Trans-boundary Movement) Rules, 2016. The application is under process.
VI.	Ambient air quality shall be monitored at the nearest human settlements as per the National Ambient Air Quality Emission Standards issued by the ministry vide G.S.R. No.826(E) dated 16 November, 2009 for PM ₁₀ , PM _{2.5} , SO ₂ , NO _x , CO, CH ₄ , HC, Non-methane HC act.	Being Complied as per National Ambient Air Quality Emission Standards. The AAQ Monitoring is being conducted by third party in every six months. During the reporting period of compliance status (October'2023-March'2024), no well had been drilled. The AAQ monitoring report conducted nearby to the wells drilled under this EC is attached at Annexure-4 .

VII.	During exploration, production, storage handling, the fugitive emission of methane if any shall be monitored using Infra- red camera /appropriate technology.	All the installations are equipped with fixed online gas detector in hazardous area for continuous monitoring of Hydrocarbons or any other hazardous gas. Besides it three portable multi gas detectors are also available for monitoring of gases in other areas.
VIII.	The project proponent also to ensure trapping/storing of the CO ₂ generated, if any during the process and handling.	For trapping of CO ₂ generated from wells corrosion inhibitor dosing is done in areas where CO ₂ is present.
IX.	Approach road shall be made Pucca to minimize generation of suspended dust.	Roads are being constructed as per site/operation requirement and period repair & maintenance done to contain suspended dust.
X.	The company shall make all arrangements for control of noise from the drilling activity. Acoustic enclosure shall be provided for the DG sets along with the adequate stack height as per CPCB guidelines.	Acoustic enclosure are provided at all drilling rigs for the DG sets along with the adequate stack height as per CPCB guidelines.
XI.	Total fresh water requirement shall not exceed 25 cum/day proposed to be met from water tankers /bore wells. Prior permission in this regard shall be obtained from the concerned regulatory authority.	Following actions are taken to reduce fresh water consumption and to restrict the use of fresh water up to 25 m ³ /day: Treated effluent water is used for brine preparation and cleaning purpose and mud is recycled. Being implemented.
XII.	The company shall construct the garland drain all around the drilling site to prevent runoff of any oil containing waste into the nearby water bodies. Separate drainage system shall be created for oil contaminated and non-oil contaminated. Effluent shall be properly treated and treated waste water shall conform to CPCB standards.	Garland drain is a standard practice by ONGC, therefore constructed to prevent runoff of any oil containing waste into the nearby water bodies. ETP is in place for Effluent Treatment.
XIII.	Drill cuttings separated from drilling fluid shall be adequately washed and disposed in HDPE lined pit. Waste mud shall be tested for hazardous contaminates and disposed according to HWMH Rules, 2016. No effluent/drilling mud/drill cutting shall be discharged/disposed off into nearby surface water bodies. The company shall comply with the guidelines for disposal of solid waste; drill cutting and drilling fluids for onshore drilling operation notified vide GRS. 546 (E) dated 30 th August 2005.	Drilling waste water including drill cuttings wash water is collected in disposal pit lined with HDPE lining. Water based drilling fluid system is used for drilling which is non-hazardous in composition. Thus Environmental Clearance guidelines notified vide GSR.546 (E) dated 30 th August, 2005 are being complied.
XIV.	Oil spillage prevention and mitigation scheme shall be prepared. In case of oil spillage / contamination action plan shall be prepared to clean the site by adopting proven technology. The recyclable waste (oily sludge) and spent pill shall be disposed of to the authorized recyclers.	Oil spillage prevention scheme is in place. In case of any spillage, action is being taken as per guidelines of statutory/regulatory bodies. However in the process of drilling no oily sludge gets generated. Burnt lube oil is collected and transported to Drilling Tool Yard for storage and then disposed as per regulation.
XV.	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.	ONGC has Disaster Management Plan (DMP), Site Specific Emergency Response Plan (ERP) and contingency plans. In case of any contingency, action will be taken as per DMP/ERP. All technical measures are in place to minimize the gaseous emissions.
XVI.	The company shall develop a contingency plan for H ₂ S release including all necessary expects from evacuation to resumption of normal operations. The workers agree provided with personal H ₂ S detectors in location of high risk of exposure along with shall containing breathing apparatus.	Emergency Response Plan for H ₂ S release is available. H ₂ S detectors are available at drilling rigs. ONGC has Disaster Management Plan (DMP), Site Specific Emergency Response Plan (ERP) and contingency plans in place. In case of any

		contingency, action will be taken as per DMP/ERP. Action plan in case of H2S Release is a part of ERP & DMP. Also all installation are equipped with fixed online gas detector in hazardous area for continuous monitoring of H2S Hydrocarbons or any other hazardous gas
XVII.	Blow Out Preventer system shall be installed to prevent wall 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.	Blow out preventer (BOP) system is mandatorily installed on each well to prevent well blow out during drilling operations.
XVIII.	Emergency Response Plan shall be based on the guidelines prepared by OISD, DGMS and Govt. of India.	Emergency Response Plan is in place and it is based on the guidelines prepared by OISD, DGMS and Govt. of India.
XIX.	The company shall take measures after completion of drilling process by well plugging and secured encloses, decommissioning of rig upon abandonment of then well and drilling site shall be restored the area in original condition. In the event that no economic quantity of hydrocarbon is found a full abandonment plan shall be implemented for the drilling site in accordance with the applicable Indian Petroleum Regulations.	Abandonment and Restoration of Drilling site will be done in accordance to the applicable regulations if the well found economically non – viable.
XX.	All the commitments made to the public during hearing/ consultation shall be satisfactorily implemented.	All the commitments made to the public during hearing/ consultations are being implemented.CER and CSR funds are being utilised.
XXI.	At least 1.5 % 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.	The item wise details along with time bound action plan for utilisation of CER funds is attached at Annexure-5 .
XXII.	Occupational health surveillance of the workers shall be carried out as per the prevailing Acts and Rules.	ONGC has policy and system in place for Occupational health surveillance of the workers
XXIII.	Restoration of the project site shall be carried out satisfactorily and report shall be sent to the Ministry's Regional Office.	Restoration of the project site will be carried out satisfactorily as and when ONGC will surrender the land and the report of the same will be sent to the Ministry's Regional Office.
XXIV.	An audit shall be done to ensure that the Environment Management Plan is implemented in totality and report shall be submitted to the Ministry's Regional Office.	An Audit will be conducted soon and the report will be submitted to your kind office.
XXV.	Company shall have own Environment Management Cell having qualified persons with proper background.	ONGC has qualified / experienced Environment Engineer.
XXVI.	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 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.	Copy of Environment Management Plan is available at site. SOP/ Operational Manual is available at Rigs. Data regarding Environmental Monitoring is kept at site office.
XXVII.	On completion of drilling, the company has to plug the drilled wells safety and obtain certificate from environment safety angle from the concern authority.	In case of abandonment of drill site (if well is dry), well is plugged as per regulations and well mouth will be covered with steel plate by welding.

The grant of Environment Clearance is further subject to compliance of other generic conditions as under : -		
	The project authorities must strictly adhere to the stipulations made by the State Pollution Control Board (SPCB), State Government and/ or any other statutory authority.	The stipulations laid by the PCBA and State Govt. are being followed.
	No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment, Forest and Climate Change. 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.	No further expansion or modification has been done.
	The location of ambient air quality monitoring station shall be decided in consultation with the State Pollution Control Board (SPCB) and it shall be ensured that at least one stations each is installed in the upwind and downwind direction as well as where maximum ground level concentrations are anticipated.	Ambient Air Quality Monitoring is being conducted by outside agency.
	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 complied with.	The same is being complied.
	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 and the Rules made thereunder.	All DG Sets are fitted with acoustic enclosures. Noise levels are kept within permissible limits as per EPA – 1986.
	The company shall harvest rainwater from the roof tops of the buildings and storm water drains to recharge the ground water and utilize the same for different industrial operations within the plant.	Not applicable as the temporary bunk house with slanting roof is made at drill site for 2-3 months.
	Training shall be imparted to all employees on safety and health aspects of chemicals handling. Pre-employment and routine periodical medical examinations for all employees shall be undertaken on regular basis. Training to all employees on handling of chemicals shall be imparted.	Training has been imparted to all employees on safety and health aspects of chemicals handling on regular basis. Routine Periodical Medical Examinations for all employees is being done as per policy.
	The company shall comply with all the environmental protection measures and safeguards proposed in the documents submitted to the ministry. All the recommendations made in the EIA/EMP in respect of environmental management, risk mitigation measures and public hearing shall be implemented.	Complied.
	The company shall undertake all measures for improving socio-economic conditions of the surrounding area. CER activities shall be undertaken by involving local villagers, administration and other stake holders. Also eco-development measures shall be undertaken for overall improvement of the environment.	The company has undertaken all relevant measures for improving socio-economic conditions of the surrounding area and also done the various activities by involving local villagers and administration through CER fund.
	A separate Environment Management Cell equipped with full-fledged laboratory facilities shall be set up to carry out the environmental Management and monitoring functions.	Environmental Monitoring functions are outsourced to private agency.
	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	The approximate cost of the development well is Rs. 25.00 crore. The capital cost and recurring cost is included in the cost of the well.

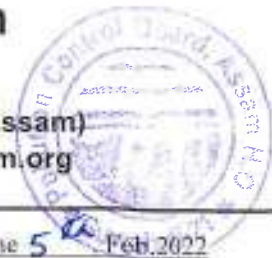
	and Climate Change as well as the State Government along with the implementation schedule for all the conditions stipulated herein. The funds so earmarked for environment management/ pollution control measures shall not be diverted for any other purpose.	
	A copy of the clearance letter shall be sent by the project proponent to concerned Panchayat, Zila Parisad/ Municipal Corporation, Urban local Body and the local NGO, if any, from whom suggestions / representations, if any, were received while processing the proposal.	Complied. The copy of communication sent to Zilla Parishad is attached at Annexure-6 .
	The project proponent shall also submit six monthly reports on the status of compliance of the stipulated Environment Clearance conditions including results of monitored data (both in hard copies as well as by e-mail) to the respective Regional Office of MoEF&CC, the respective Zonal office of CPCB and SPCB. A copy of Environment Clearance and six monthly compliance status reports shall be posted on the website of the company.	Complied.
	The Environmental Statement for each financial year ending 31st 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.	Environmental Statement in Form-V reports has been submitted to SPCB for the year 2023-24. Copy attached at Annexure -7 . Compliance of Environmental Clearance conditions are uploaded on ONGC website https://www.ongcindia.com/
	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 at http://moef.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. Published in two local news papers. 1. Assam Tribune dated 21.06.2019. 2. Dainik Janmbhomi dated 21.06.2019 Copy attached at Annexure-8 .
	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 date of start of the project.	Financial Closure of the project – 02.12.2014



Pollution Control Board:: Assam Bamunimaidam; Guwahati-21

(Department of Environment & Forests :: Government of Assam)

Phone: 0361-2652774 & 2550258; Website: www.pcbassam.org



No.: WB/SVR/T-943/21-22/22
1996

Dated Guwahati, the 5 Feb 2022

"CONSENT TO OPERATE"

"CONSENT TO OPERATE" (CTO) under Section 25 of Water (Prevention & Control of Pollution) Act, 1974 and Section 21 of Air (Prevention & Control of Pollution) Act, 1981 as amended and Rules Framed thereunder is granted to:

- | | | | |
|------|--|---|--|
| i) | Name of Industry | : | M/s. ONGC LIMITED |
| ii) | Name of the Occupier / Applicant and Designation | : | CGM, Head Drilling Services |
| iii) | Address of the unit | : | Drilling Loc: BRDN, Borholla, Jorhat, Pin-785704 |
| iv) | Cost of the project | : | 67.32 Lakh |
| v) | Details of Project | : | Drilling Activities for extraction of Hydrocarbons |

TERMS AND CONDITIONS

1. The **Consent to Operate (CTO)** has been accorded based on the particulars furnished by the applicant vide Application ID **41995** and subject to addition of further more conditions if so, warranted by subsequent developments. The CTO will automatically become invalid if there is any changes, modification, alteration, expansion or deviation is made in actual practice.
2. The CTO is valid for a period up to **31/03/2022** unless otherwise suspended or revoked.
3. The CTO may be modified, suspended or revoked by the Board in whole or in part during its term for cause including, but not limited to the following: -
 - a) Violation of any Terms and Conditions of this CTO;
 - b) Obtaining the CTO by misrepresentation or failure to disclose fully all relevant facts;
4. This CTO doesn't authorize any addition, alternation, modification, modernization of process or products without prior permission of the Board.
5. The unit should follow all the specific & general conditions as laid down in the CTE as accorded by PCBA.
6. Proper housekeeping shall be maintained.
7. **The project proponent must develop a greenbelt/plantation area with native trees covering at least 33% of the total plot area to develop Green Belt and Carbon Sink.**
8. **All the mud pits, waste pits, etc, shall also be reclaimed after commencement of drilling activities. The pits should not be kept un-reclaimed for future drilling activities.**
9. After completion of the drilling activities, the portion of the site not used for well operation shall be reclaimed to its near original condition.
10. No effluent shall be discharged outside the premises so as to maintain Zero Liquid Discharge (ZLD) condition.
11. The company shall develop a contingency plan for H₂S release including all necessary aspect from evacuation to resumption of normal operations.
12. To prevent well blowouts during drilling and related operations, Blowout Preventive measures shall be adequately followed.
13. The project authority should install a Display Board as per the Boards notification no. **PCBA/LGL-95/2021/Notification/01 dtd.11.11.2021**. (Copy enclosed as **Annexure -A**).
14. Permission of the Central Ground Water Authority shall be obtained for extraction of Ground Water, if applicable.
15. The company shall follow various provisions of the **Manufacture, storage & Import of Hazardous Chemicals Rule, 1989; the Chemical Accidents (Emergency, Planning, Preparedness and Response) Rule 1996, Hazardous and other Wastes (Management and Transboundary Movement) Rules, 2016** and relevant statues notified under the **Environment (Protection) Act, 1986**.

Contd...p/2

21/3/22

16. The unit shall comply with the specific standards and guidelines for oil drilling and gas extraction industry as specified in The Environment (Protection) Rules, 1986 (Copy enclosed as **Annexure-B**).
17. As per the provision of the Water (Prevention and Control of Pollution) Act, 1974 and the Air (Prevention and Control of Pollution) Act, 1981 as amended any Officer empowered by the Board on its behalf shall have without interruption, the right at any time to enter the well site for inspection, collection of samples for analysis and may call for any information as deemed necessary. Denial of this right will cause withdrawal of the Consent Order.
18. Environmental Statement in prescribed **Form-V** should be submitted on or before the 30th September every year.
19. The unit shall have to apply for renewal of the CTO before its expiry.

Specific Conditions:

A) Air Aspect:

1. The industry shall take adequate measures for control of noise from its own source so as to comply with the Standards as specified in accordance with the **Noise Pollution (Regulation and Control Rule), 2000**.
2. The Ambient Air Quality within the Plant premises and surrounding areas should be maintained within the National Ambient Air Quality Standards as prescribed vide **G.S.R.826 (E) dtd.19.11.2009** (Copy enclosed as **Annexure-C**).
3. The unit shall strictly follow the Standards and Guidelines for control of Noise Pollution from Stationary Diesel Generator Sets as per EPA, 1996 [**GSR7, dtd. Dec. 22, 1998**] (Copy enclosed as **Annexure-D**).

B) Water Aspect:

1. The unit shall achieve Zero Liquid Discharge (ZLD) standards. Treated industrial waste water shall be reused in process /utilities. Sewage shall be disposed of through septic tank/soak pit system.
2. Storm water drains should be segregated from the effluent drains.
3. **Disposal of Treated Effluent:**
 - a) Oil and gas drilling and processing facilities, situated on land and away from saline water sink, may opt either for disposal of treated water by onshore disposal or by re- injection in abandoned well, which is allowed only below a depth of 1000 m from the ground level. In case of re- injection in abandoned well the effluent have to comply only with respect to suspended solids and oil & grease at 100 mg/l & 10 mg/l respectively. For on-shore disposal, the permissible limit as per Industry Specific standard for Oil drilling and Gas extraction are given below :

Sl no.	Parameter	On-Shore discharge standards (Not Exceed)
1.	pH	5.5-9.0
2.	Temperature	40°C
3.	Suspended Solids	100 mg/l
4.	Zinc	2 mg/l
5.	BOD at 27°C for 3 days	30 mg/l
6.	COD	100 mg/l
7.	Chlorides	600 mg/l
8.	Sulphates	1000 mg/l
9.	Total Disposable Solids	2100 mg/l
10.	% Sodium	60 mg/l
11.	Oil & Grease	10 mg/l
12.	Phenolics	1.2 mg/l
13.	Cyanides	0.2 mg/l
14.	Fluorides	1.5 mg/l
15.	Sulphides	2.0 mg/l
16.	Chromium (Hexavalent)	0.1 mg/l
17.	Chromium (Total)	1.0 mg/l
18.	Copper	0.2 mg/l
19.	Lead	0.1 mg/l
20.	Mercury	0.01 mg/l
21.	Nickel	3.0 mg/l



- a) Oil Spill Contingency Plan (OSCP) shall be prepared to handle all major, moderate & minor spills.
- b) All fuels, lubricants and chemicals shall be kept in well designed & safe storage facility with regular inventory checking.

C) Solid Waste Aspect:

1. Adequate facility should be created for collection, storage, transportation, treatment & disposal of non-hazardous industrial solid waste generated from the drilling activities.
2. Adequate system should be adopted for reduction of waste generation and enhancement of re-utilization & recycling of waste materials.
3. Solid waste generated in the unit shall be disposed of as per the provision of **Solid Waste Management Rules, 2016**.

D) Plastic Waste Aspect:

1. Plastic waste generated in the unit shall be disposed of as per the provision of Plastic Waste Management Rules, 2016.
2. All the plastic waste generated in the facility shall be channelized to recyclers. The details of plastic generated and disposed should be submitted to PCBA before 30th June every year.

E) Hazardous Waste Aspect:

1. Appropriate facility should be created and maintained for handling, storage, treatment & disposal of Hazardous waste generate from the industry in accordance to the provisions of the Hazardous & Other Wastes (Management & Transboundary Movement) Rules, 2016.
2. Adequate facility should be provided for storage of any hazardous substance/chemicals in accordance to the provisions of the Manufacture, Import & Storage of Hazardous Chemical Rules, 1989.
3. The proponent should apply and obtain Authorization under provisions of the Hazardous & Other Wastes (**Management & Transboundary Movement**) Rules, 2016.

F) Guideline for Disposal of Solid Wastes, drill cuttings and Drilling Fluids for Drilling operation-

The guidelines for disposal of solid waste, drill cutting and drilling fluids for onshore drilling operation notified vide **GSR.546 (E) dated 30th August, 2005**. (As enclosed in **Annexure B**).

The unit shall submit compliance report of the mandated conditions by April 15 of every year to Member Secretary, PCBA as well as to concerned Regional Office of the Board. The Board will have the liberty to withdraw the CTO if adequate pollution control and safety measures are not taken.

(Shantanu Kr. Dutta)
Member Secretary

Memo No.: WB/SVR/T-943/21-22/ 22-A
Copy to:

Dated Guwahati, the 5th Feb 2022

- I. CGM, Head Drilling Services, M/S Oil and natural gas corporation Limited, ONGC Complex Nambar -I, Cinnamara Jorhat 785704 for information & necessary action.

(Shantanu Kr. Dutta)
Member Secretary



**Pollution Control Board, Assam
Bamunimaidam, Guwahati-21**

NOTIFICATION

No. PCBA/LGL-95/2021/Notification/01

Dated Guwahati, the 11th Nov, 2021

In exercise of the powers conferred under Section-5 of the Environment (Protection) Act, 1986 as amended till date and keeping in view the need of public interest towards dissemination of vital information regarding Consent/Authorization of this Board, all industries are hereby directed to install a Display Board of minimum size 5'x4', near the main entrance gate.

The format of the display board is given below:

Name and Address of the Unit : M/s.	
Description of Consent/Authorization	Details
Consent to Establish (CTE)	No.: Date of Issue:
Consent to Operate (CTO)	No.: Date of validity:
Authorization under Hazardous & Other waste (Management & Transboundary Movement) Rules, 2016 (if applicable)	No.: Date of Issue: Date of validity:

Member Secretary

Memo No. PCBA/LGL-95/2021/Notification/01-A

Dated Guwahati, the 11th Nov, 2021

Copy to:

1. ✓ The Commissioner & Secretary to the Govt. of Assam, Department of Environment & Forest, Dispur for kind information.
2. P.A. to the Chairman, PCBA for kind appraisal of the Hon'ble Chairman.
3. The All Regional Heads, PCBA for information & necessary action.
4. M/S APS Advertising Pvt. Ltd, Guwahati-1. They are requested to publish the "NOTICE" in "the Assam Tribune" and "Dainandini Barta" on 12.11.2021.
5. Notice Board, Head Office / Website (www.pcbassam.org), PCBA.

[Signature]
Member Secretary



- (vi) In no circumstances, the liquid effluent shall be discharged without conforming to the minimal national standards or stored in a holding arrangement which is likely to cause pollution.
- (vii) The sludge from the solar evaporation pans shall be incinerated or disposed as per the guidelines for management and handling of hazardous waste, published by the Ministry of Environment & Forests, Government of India, after obtaining authorization from the State Pollution Control Board under the hazardous Waste (Handling and Management) Rules, 1989.
- (viii) The facility shall be protected from flood and storm to prevent embankments from erosion or any other damage which may render any portion inoperable.
- (ix) Facilities shall be protective enclosure to keep wildlife, domestic animals, unauthorized persons, etc. away.

72. OIL DRILLING AND GAS EXTRACTION INDUSTRY

A. STANDARDS FOR LIQUID EFFLUENT

1.0 On-Shore facilities (For Marine Disposal)

pH	5.5—9.0
Oil & Grease	10 mg/l
Suspended solids	100 mg/l
BOD (3 days at 27°C)	30 mg/l

Note :

- (i) For on-shore discharge of effluents, in addition to the standards prescribed above, proper marine outfall has to be provided to achieve the individual pollutant concentration level in sea water below their toxicity limits as given below, within a distance of 50 metre from the discharge point, in order to protect the marine aquatic life :

Parameter	Toxicity limit, mg/l
Chromium as Cr	0.1
Copper, as Cu	0.05
Cyanide, as CN	0.005
Fluoride, as F	1.5
Lead, as Pb	0.05
Mercury, as Hg	0.01
Nickel, as Ni	0.1
Zinc, as Zn	0.1



- (ii) Oil and gas drilling and processing facilities, situated on land and away from saline water sink, may opt either for disposal of treated water by on-shore disposal or by re-injection in abandoned well, which is allowed only below a depth of 1000 metres from the ground level. In case of re-injection in abandoned well the effluent have to comply only with respect to suspended solids and oil and grease 100 mg/l and 10 mg/l, respectively. For on-shore disposal, the permissible limits are given below.

S.No.	Parameter	On-shore discharge standards (Not to exceed)
1.	2.	3.
1.	pH	5.5—9.0
2.	Temperature	40°C.
3.	Suspended Solids	100 mg/l
4.	Zinc	2 mg/l
5.	BOD	30 mg/l
6.	COD	100mg/l
7.	Chlorides	600 mg/l
8.	Sulphates	1000 mg/l
9.	TDS	2100 mg/l
10.	%Sodium	60 mg/l
11.	Oil and Grease	10 mg/l
12.	Phenolics	1.2 mg/l
13.	Cyanides	0.2 mg/l
14.	Fluorides	1.5 mg/l
15.	Sulphides	2.0 mg/l
16.	Chromium(Cr+6)	0.1 mg/l
17.	Chromium (Total)	1.0 mg/l
18.	Copper	0.2 mg/l
19.	Lead	0.1 mg/l
20.	Mercury	0.01 mg/l
21.	Nickel	3.0 mg/l

2.0 Off-shore facilities :

For off-shore discharge of effluents, the oil content of the treated effluent without dilution shall not exceed 40 mg/l for 95% of the observation and shall never exceed 100 mg/l. Three 8-hourly grab samples are required to be collected daily and the average value of oil and grease content of the three samples shall comply with these standards.



B. GUIDELINES FOR DISCHARGE OF GASEOUS EMISSION :

- 1.0 DG Sets
 - 1.1 DG Sets at drill site as well as production station shall conform with the norm notified under the Environment (Protection) Act, 1986.
- 2.0 Elevated/ground flares
 - 2.1 Cold Venting of gases shall never be resorted to and all the gaseous emissions are to be flared.
 - 2.2 All flaring shall be done by elevated flares except where there is any effect on crop production in adjoining areas due to the flaring. In such cases, one may adopt ground flaring.
 - 2.3 In case of ground flare, to minimize the effects of flaring, the flare pit at Group Gathering Station(GGS)/Oil Collecting Station(OCS) and Group Collection Station(GCS) shall be made of RCC surrounded by a permanent wall (made of refractory brick) of minimum 5m height, to reduce the radiation and glaring effects in the adjoining areas.
 - 2.4 A green belt of 100 m width may be developed around the flare after the refractory wall in case of ground flaring.
 - 2.5 If the ground flaring with provision of green belt is not feasible, enclosed ground flare system shall be adopted, and be designed with proper enclosure height, to meet the ground level concentration(GLC) requirement.
 - 2.6 In case of elevated flaring, the minimum stack height shall be 30m. Height of the stack shall be such that the max. GLC never exceeds the prescribed ambient air quality limit.
- 3.0 Burning of effluent in the pits shall not be carried out at any stage.

¹[C. GUIDELINES FOR DISPOSAL OF SOLID WASTE, DRILL CUTTING AND DRILLING FLUIDS FOR OFFSHORE AND ONSHORE DRILLING OPERATION-

1. Disposal of Drill Cutting and Drilling Fluids for On-shore Installations:

¹Substituted "paragraph C", for "paragraph C relating to Guidelines For Disposal of Solid Waste" by Rule 2(iii) of the Environment (Protection) Third Amendments Rules, 2005 notified vide Notification No G.S.R.546(E), dated 30.8.2005.



The Environment (Protection) Rules, 1986

- (a) Drill Cuttings (DC) originating from on-shore or locations close to shore line and separated from Water Base Mud (WBM) should be properly washed and unusable drilling fluids (DF) such as WBM, Oil Base Mud (OBM), Synthetic Base Mud (SBM) should be disposed off in a well designed pit lined with impervious liner located off-site or on-site. The disposal pit should be provided additionally with leachate collection system.

Design aspects of the impervious waste disposal pit; capping of disposal-pit should be informed by the oil industry to State Pollution Control Board (SPCB) at the time of obtaining consent.

- (b) Use of diesel base mud is prohibited. Only WBM should be used for on-shore oil drilling operations.
- (c) In case of any problem due to geological formation for drilling, low toxicity OBM having aromatic content < 1% should be used. If the operators intend to use such OBM to mitigate specific whole problem/ SBM it should be intimated to Ministry of Environment and Forests/State Pollution Control Board.
- (d) The chemical additives used for the preparation of DF should have low toxicity i.e. 96 hr $LC_{50} > 30,000$ mg/l as per mysid toxicity or toxicity test conducted on locally available sensitive sea species. The chemicals used (mainly organic constituents) should be biodegradable.
- (e) DC separated from OBM after washing should have oil content at < 10 gm/kg for disposal into disposal pit.
- (f) The waste pit after it is filled up shall be covered with impervious liner, over which, a thick layer of native soil with proper top slope is provided.
- (g) Low toxicity OBM should be made available at installation during drilling operation.
- (h) Drilling wastewater including DC wash water should be collected in the disposal pit evaporated or treated and should comply with the notified standards for on-shore disposal.
- (i) Barite used in preparation of DF shall not contain $Hg > 1$ mg/kg & $Cd > 3$ mg/kg.



- (j) Total material acquired for preparation of drill site must be restored after completion of drilling operation leaving no waste material at site. SPCB should be informed about the restoration work.
 - (k) In case, environmentally acceptable methods for disposal of drill waste such as (a) injection to a formation through casing annulars, if conditions allow (b) land farming at suitable location (c) bio-remediation (d) incineration or (e) solidification can be considered, in such cases oil industry is required to submit proposal to Ministry of Environment and Forests/State Pollution Control Board (MoEF/SPCB) for approval.
2. **Disposal of Drill Cutting and Drilling Fluids for Off-shore Installations:**
- (a) Use of diesel base mud is prohibited. Only WBM is permitted for offshore drilling. If the operator intend to use low toxicity OBM or SBM to mitigate specific hole problems in the formation, it should be intimated to MoEF/SPCB. The low toxicity OBM should have aromatic content < 1%.
 - (b) The toxicity of chemical additives used in the DF (WBM or OBM or SBM) should be biodegradable. (mainly organic constituents) and should have toxicity of 96 hr LC_{50} Value > 30,000 mg/l as per mysid toxicity or toxicity test conducted on locally available sensitive sea species.
 - (c) Hexavalent chromium compound should not be used in DF. Alternative chemical in place of chrome lignosulfonate should be used in DF. In case, chrome compound is used, the DF/ DC should not be disposed offshore.
 - (d) Bulk discharge of DF in offshore is prohibited except in emergency situations.
 - (e) WBM/OBM /SBM should be recycled to a maximum extent. Unusable portion of OBM should not be discharged into sea and shall be brought to on-shore for treatment & disposal in an impervious waste disposal pit.
 - (f) Thoroughly washed DC separated from WBM/SBM & unusable portion of WBM/SBM having toxicity of 96 hr LC_{50} > 30,000 mg/l shall be discharged off-shore into sea intermittently, at an average rate of 50 bbl/hr/well from a platform so as to have proper dilution & dispersion without any adverse impact on marine environment.



- (g) Drill cutting of any composition should not be discharged in sensitive areas notified by the Ministry of Environment and Forests.
- (h) In case of specific hole problem, use of OBM will be restricted with zero discharge of DC. Zero discharge would include re-injection of the DC into a suitable formation or to bring to shore for proper disposal. In such a case, use of OBM for re-injection should be recorded and made available to the regulatory agency. Such low toxic OBM having aromatic content < 1% should be made available at the installation.
- (i) In case, DC is associated with high oil content from hydrocarbon bearing formation, then disposal of DC should not have oil content > 10 gm/kg.
- (j) The DC wash water should be treated to confirm limits notified under EPA, before disposal into Sea. The treated effluent should be monitored regularly.
- (k) Discharge of DC from the installation located within 5 km away from shore should ensure that there is no adverse impact on marine Eco-system and on the shore. If, adverse impact is observed, then the industries have to bring the DC on-shore for disposal in an impervious waste disposal pit.
- (l) If any, environmental friendly technology emerges for substitution of DF and disposal technology, it may be brought to the notice of MoEF and regulatory agencies. If the operator desires to adopt such environment friendly technology a prior approval from Ministry of Environment and Forests is required.
- (m) Barite used in preparation of DF shall not contain Hg > 1 mg/kg & Cd > 3 mg/kg.
- (n) Oil drilling operators are required to record daily discharge of DC & DF to offshore and also to monitor daily the effluent quality, and submit the compliance report once in every six-month to Ministry of Environment and Forests.]

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Annexure - C



**NATIONAL AMBIENT AIR QUALITY STANDARDS
CENTRAL POLLUTION CONTROL BOARD
NOTIFICATION**

New Delhi, the 18th November, 2009

No.B-29016/20/90/PCI-L—In exercise of the powers conferred by Sub-section (2) (h) of section 16 of the Air (Prevention and Control of Pollution) Act, 1981 (Act No. 14 of 1981), and in super session of the Notification No(s). S.O. 384(E), dated 11th April, 1994 and S.O. 935(E), dated 14th October, 1998, the Central Pollution Control Board hereby notify the National Ambient Air Quality Standards with immediate effect, namely:-

NATIONAL AMBIENT AIR QUALITY STANDARDS

S. No.	Pollutant	Time Weighted average	Concentration in Ambient Air		Methods of Measurement
			Industrial, Residential, Rural and Other Area	Ecologically sensitive area (notified by Central Govt.)	
(1)	(2)	(3)	(4)	(5)	(6)
1	Sulphur Dioxide (SO ₂), µg/m ³	Annual*	50	20	- Improved West and Geake - Ultraviolet fluorescence
		24 hours**	80	80	
2	Nitrogen Dioxide (NO ₂), µg/m ³	Annual*	40	30	- Modified Jacob & Hochheiser (Na-Arsenite) - Chemiluminescence
		24 hours**	80	80	
3	Particulate Matter (size less than 10 µm) or PM ₁₀ µg/m ³	Annual*	60	60	- Gravimetric - TOEM - Beta attenuation
		24 hours**	100	100	
4	Particulate Matter (size less than 2.5 microns) or PM _{2.5} µg/m ³	Annual*	40	40	- Gravimetric - TOEM - Beta attenuation
		24 hours**	60	60	
5	Ozone (O ₃) µg/m ³	8 hours **	100	100	- UV photometric - Chemiluminescence - Chemical method
		1 hour **	180	180	
6	Lead (Pb) µg/m ³	Annual*	0.5	0.5	- ASS / ICP method after sampling on EPM 2000 or equivalent filter paper - ED - XRF using Teflon filter
		24 hours**	1.0	1.0	



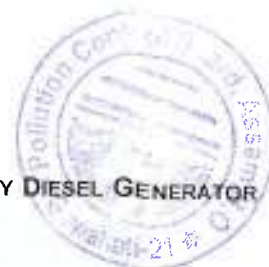
(1)	(2)	(3)	(4)	(5)	(6)
7	Carbon Monoxide (CO) mg/m ³	8 hours**	2	2	Non Dispersive Infra RED (NDIR) Spectroscopy
		1 hour**	4	4	
8	Ammonia (NH ₃) µg/m ³	Annual*	100	100	• Chemiluminescence • Indophenol blue method
		24 hours**	400	400	
9	Benzene (C ₆ H ₆) µg/m ³	Annual*	5	5	• Gas chromatography based continuous analyser • Adsorption and desorption followed by GC analysis
10	Benzo (a) Pyrene (BaP) ... particulate phase only ng/m ³	Annual*	1	1	Solvent extraction followed by HPLC / GC analysis
11	Arsenic (As) ng/m ³	Annual*	6	6	AAS / ICP method after sampling on EPM 2000 or equivalent filter paper
12	Nickel (Ni) ng/m ³	Annual*	20	20	

* Annual arithmetic mean of minimum 104 measurements in a year at a particular site taken twice a week 24 hourly at uniform intervals.

** 24 hourly or 8 hourly or 1 hourly monitored values, as applicable, shall be complied with 98% of the time in a year. 2% of the time, they may exceed the limits but not on two consecutive days of monitoring.

Note: Whenever and wherever monitoring results on two consecutive days of monitoring exceed the limits specified above for the respective category, it shall be considered adequate reason to institute regular or continuous monitoring and further investigation.

ANNEXURE – D



1.66.0 STANDARDS AND GUIDELINES FOR CONTROL OF NOISE POLLUTION FROM STATIONARY DIESEL GENERATOR (DG) SETS.

(A) Notes standards for DG sets (15-500KVA)

The total sound power level LW of DG set should less than $94 + 10 \log 10\text{KVA}$, dB (A), at the manufacturing stage, whether; KVA is the nominal power rating of a DG set.

This level should fall by 5dB (A) every five years, till 2007, i.e. in 2002 and then in 2007.

(B) Mandatory Acoustic enclosure/Acoustic treatment of room for stationary DG sets (5KVA and above):

Noise from the DG set should be controlled by providing an acoustic enclosure on by treating the room acoustically.

The acoustic enclosure/acoustic treatment of the room should be designed for minimum 25 dB (A) insertion Loss or for meeting the ambient noise standards, which ever is on the higher side (if the actual ambient noise is on the higher side, it may not be possible to check the performance of the acoustic enclosure/acoustic treatment. Under circumstances the performance may be checked for noise reduction up to actual ambient noise level, preferably, in the night time). The measurement for insertion Loss may be done at different points at 0.5 from the acoustic enclosure/room, and then averaged. (See the Schematic Diagram).

The DG set should also be provided with proper exhaust muffler with Insertion Loss of minimum 25 dB (A).

Guidelines for the manufacturers Users of DG sets 5KVA and above:

- ☐ The manufacture should offer to the user a standard acoustic enclosure of 25dB (A). Insertion Loss and also a suitable exhaust muffler with Insertion Loss of 25dB (A).
- ☐ The user should make efforts to bring down the noise levels due to the DG set, outside his premises, within the ambient noise requirements by proper siting and control measures.
- ☐ The manufacturer should furnish noise power levels of the unsalaried DG sets as per standards prescribed under (A).
- ☐ The total sound power level of a DG set, at the user's and, shall be within 2dB(A) of the total sound power level of the DG set, at the manufacturing stage, as prescribed under (A).
- ☐ Installation of DG set must be strictly in compliance with the recommendation of the DG set manufacture.
- ☐ A proper routines and preventive maintenance procedure for the DG set manufacturer which would help prevent noise levels of the DG set from deteriorating with use.

2.44.0 NOISE (AMBIENT STANDARDS)

Area Code	Category of Area	Limit in dB (A) Leq.	
		Day time	Night time
A.	Industrial area	75	70
B.	Commercial area	65	55
C.	Residential area	55	45
D.	Silence Zone	50	40

Note – 1 : Day time is reckoned in between 6.00 A.M. and 9.00 P.M.

Note – 2 : Night time is reckoned in between 9.00P.M. and 6.00 A.M.

Note – 3 : Silence zone is defined as areas up to 100 meters around such premises as hospitals, educational institutions and courts. The silence zones are to be declared by the competent Authority.

Note – 4 : Mixed categories of areas should be declared as one of the four above mentioned categories by the competent Authority and the corresponding standard shall apply.

Source: EPA, 1986
[GSR 7, dated Dec.22, 1998]



Source: EPA, Notification
[GSR 1063 (E), dated Dec., 26, 1998]

3.22.0 DIESEL GENERATOR SETS : STACK HEIGHT

1. The minimum stack height to be provided with each generator set shall be worked out as per the following formula: - $H = h + 0.2 \sqrt{\text{KVA}}$, where H = Total height of stack in meter.

h = Height of the building in meters where generator set is installed.

KVA = Total generator capacity.

Adequate fire fighting measures have to be provided by the occupier of the premises. Based on the above formula the minimum stack height to be provided with different range of generator sets may be categories as follows:

Range of Generator sets	Minimum Stack Height
50 KVA	Ht. of the building + 1.5 metre.
50 - 100 KVA	Ht. of the building + 2.0 metre.
100 - 150 KVA	Ht. of the building + 2.5 metre.
150 - 200 KVA	Ht. of the building + 3.0 metre.
200 - 250 KVA	Ht. of the building + 3.5 metre.
250 - 300 KVA	Ht. of the building + 3.5 metre.

Similarly for higher KVA rating a stack height can be worked out using the above formula.

Source : Evolved by CPCB
[Emission Regulations Part-IV: COINDS/26 1986-87]

4. A .32.0 Part – C

Sl. No. 1 Stack Gas : PM – 150 $\mu\text{g}/\text{Nm}^3$

B. Ambient Air Standards:

Residential Area	Industrial Area	Sensitive Area
SO ₂ : 80* $\mu\text{g}/\text{m}^3$	120* : $\mu\text{g}/\text{m}^3$	30* : $\mu\text{g}/\text{m}^3$
NO ₂ : 80* $\mu\text{g}/\text{m}^3$	120* : $\mu\text{g}/\text{m}^3$	30* : $\mu\text{g}/\text{m}^3$
CO : 2.0** $\mu\text{g}/\text{m}^3$	5.0** : $\mu\text{g}/\text{m}^3$	1.0** : $\mu\text{g}/\text{m}^3$
*24 hourly; ** 8 hourly		

5. SCHEMATIC DIAGRAM OF D.G. SET IN AN ACOUSTIC ENCLOSURE No. Process/71/1998-99.

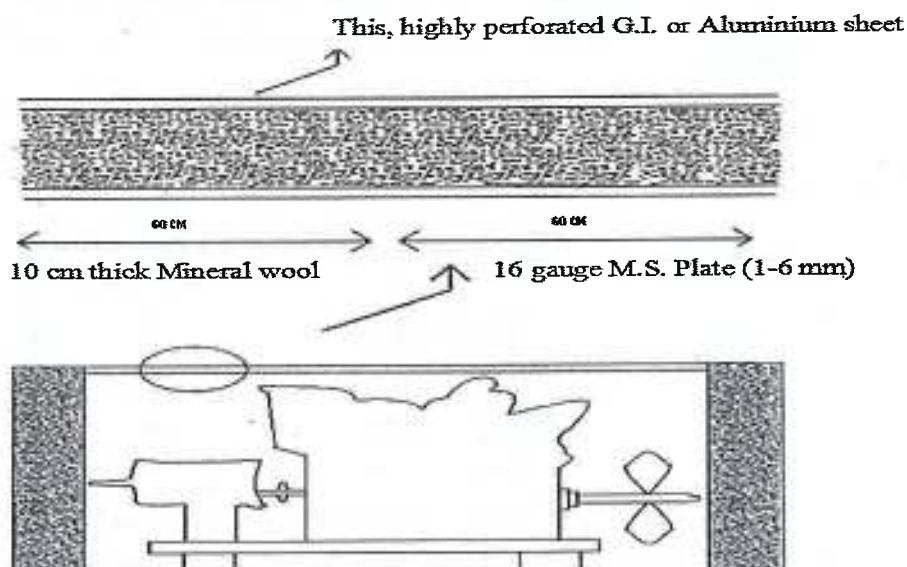


Fig. 4 Schematic Diagram of the DG set in an Acoustic Enclosure

Air required for the ventilation and breathing of the engine will have to be provided by means of intake louvers and exhaust louvers (called parallel baffle mufflers) projecting out of the enclosure.

(Dr. Shantanu Kr. Dutta)
Member Secretary
Pollution Control Board, Assam



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TC-13009

TEST REPORT

TEST REPORT NO.: ETS/2770/D4/2024 URL NO.TC130092400002770F DATE OF REPORT: 30.04.2024

AMBIENT AIR MONITORING AND ANALYSIS REPORT

Name And Address of Customer : M/s, OIL AND NATURAL GAS CORPORATION LTD.
ASSAM & ASSAM, ARAKAN BASIN, GGS/GCP,
BORHOLLA

Date of Monitoring : 22.04.2024

Analysis Start Date : 27.04.2024

Analysis End Date : 30.04.2024

Duration Of Monitoring : 22.04.2024 To 23.04.2024

Time Of Monitoring : 10.35 AM To 10.35 AM (CO & O₃ for 1.0 Hrs.)

Sample ID No : 2770

Sampling Done By : ETS STAFF

Sampling Location : NEAR MAIN GATE (GGS)

Sampling Method : ETS/STP/AIR-01

Sampling Machine Placed At Height : 1.5 METER FROM GROUND LEVEL

Weather Condition : CLEAR Ambient Temperature: 35.0 °C

Wind Direction : E To W

Equipment Used : Respirable Dust Sampler (PM₁₀) + Fine Particulate Sampler (PM_{2.5})

S. No.	Test Parameter	Unit	Result	Specification/Limit (As per CPCB)	Test Method
1	Particulate Matters, (PM ₁₀)	µg/m ³	86.9	For 24 Hrs.=100	IS 5182 (Part-23)
2	Particulate Matters, (PM _{2.5})	µg/m ³	38.3	For 24 Hrs.=60	IS 5182 (Part-24)
3	Sulphur Dioxide, (SO ₂)	µg/m ³	17.0	For 24 Hrs.=80	IS: 5182 (Part-2)
4	Nitrogen Dioxide, (NO ₂)	µg/m ³	31.0	For 24 Hrs.=80	IS: 5182 (Part-6)
5	Ammonia, (NH ₃)	µg/m ³	<20.0	For 24 Hrs.=400	IS 5182 (Part-25)
6	Ozone, (O ₃)	µg/m ³	19.0	For 1 Hrs.=180	IS: 5182 (Part -9)
7	Lead, (Pb)	µg/m ³	<0.05	For 24 Hrs.=1	IS 5182 (Part-22)



Formal No ETS/LAB/TR-01, Issue No. 05, Date 01.04.2019, Amd. No. 04 Date 01.04.2019

For ENVIRO-TECH SERVICES

AUTHORIZED SIGNATORY
SHRADDHA GUPTA
Quality Manager

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ISO 45001

TEST REPORT

TEST REPORT NO.: ETS/2770/04/2024

DATE OF REPORT: 30.04.2024

AMBIENT AIR MONITORING AND ANALYSIS REPORT

S. No.	Test Parameter	Unit	Result	Specification/Limit (As per CPCB)	Test Method
8	Benzene, (C ₆ H ₆)	µg/m ³	<1.0	For Annual=5	IS 5182 (Part-11)
9	Arsenic, (As)	ng/m ³	<1.0	For Annual=06	CPCB, Vol.-1, Pg.-48
10	Nickel, (Ni)	ng/m ³	<1.0	For Annual=20	IS 5182 (Part-26)
11	Carbon Monoxide, (CO)	mg/m ³	0.58	For 1 Hrs.=4	IS 5182 : Part 10
12	Benzo (a) Pyrene (BaP)	ng/m ³	<0.05	For Annual=01	IS: 5182 (Part-12)
13	Volatile Organic Compound, (VOC)	mg/m ³	<0.01	Not Specified	ETS/STP/WZ-15

*****End of Test Report*****



CHECKED BY
SHRADDHA GUPTA

For ENVIRO-TECH SERVICES

AUTHORIZED SIGNATORY
Quality Manager

Format No ETS/LAB/TR-01, Issue No. 05, Date 01.04.2018, Amd. No. 04 Date 01.04.2024

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TC-13009

TEST REPORT

TEST REPORT NO.: ETS/2771/04/2024 URL NO.TC130092400002771F DATE OF REPORT: 30.04.2024

AMBIENT AIR MONITORING AND ANALYSIS REPORT

Name And Address of Customer : M/s. OIL AND NATURAL GAS CORPORATION LTD.
 ASSAM & ASSAM, ARAKAN BASIN, GGS/GCP,
 BORHOLLA

Date of Monitoring : 22.04.2024

Analysis Start Date : 27.04.2024

Analysis End Date : 30.04.2024

Duration Of Monitoring : 22.04.2024 To 23.04.2024

Time Of Monitoring : 10.40 AM To 10.40 AM (CO & O₃ for 1.0 Hrs.)

Sample ID No : 2771

Sampling Done By : ETS STAFF

Sampling Location : NEAR MECHANICAL OFFICE (GCP)

Sampling Method : ETS/STP/AIR-01

Sampling Machine Placed At Height : 1.5 METER FROM GROUND LEVEL

Weather Condition : CLEAR Ambient Temperature: 35.0 °C

Wind Direction : E To W

Equipment Used : Respirable Dust Sampler (PM₁₀) + Fine Particulate Sampler (PM_{2.5})

S. No.	Test Parameter	Unit	Result	Specification/Limit (As per CPCB)	Test Method
1	Particulate Matters,(PM ₁₀)	µg/m ³	84.8	For 24 Hrs.=100	IS 5182 (Part-23)
2	Particulate Matters,(PM _{2.5})	µg/m ³	37.5	For 24 Hrs.=60	IS 5182 (Part-24)
3	Sulphur Dioxide, (SO ₂)	µg/m ³	19.0	For 24 Hrs.=80	IS: 5182 (Part-2)
4	Nitrogen Dioxide,(NO ₂)	µg/m ³	36.0	For 24 Hrs.=80	IS: 5182 (Part-6)
5	Ammonia,(NH ₃)	µg/m ³	<20.0	For 24 Hrs.=400	IS 5182 (Part-25)
6	Ozone,(O ₃)	µg/m ³	18.0	For 1 Hrs.=180	IS: 5182 (Part-9)
7	Lead,(Pb)	µg/m ³	<0.05	For 24 Hrs.=1	IS 5182 (Part-22)



For ENVIRO-TECH SERVICES

AUTHORIZED SIGNATORY
 Quality Manager

Format No ETS/LAB/TR-01, Issue No. 05, Date 01.04.2019, Amd. No. 04 Date 01.04.2019

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ISO 45001

TEST REPORT

TEST REPORT NO.: ETS/2771/04/2024

DATE OF REPORT: 30.04.2024

AMBIENT AIR MONITORING AND ANALYSIS REPORT

S. No.	Test Parameter	Unit	Result	Specification/Limit (As per CPCB)	Test Method
8	Benzene, (C ₆ H ₆)	µg/m ³	<1.0	For Annual=5	IS 5182 (Part-11)
9	Arsenic, (As)	ng/m ³	<1.0	For Annual=06	CPCB, Vol.-1, Pg.-48
10	Nickel, (Ni)	ng/m ³	<1.0	For Annual=20	IS 5182 (Part-28)
11	Carbon Monoxide, (CO)	mg/m ³	0.65	For 1 Hrs.=4	IS 5182 : Part 10
12	Benzo (a) Pyrene (BaP)	ng/m ³	<0.05	For Annual=01	IS: 5182 (Part-12)
13	Volatile Organic Compound, (VOC)	mg/m ³	<0.01	Not Specified	ETS/STP/WZ-15

*****End of Test Report*****



CHECKED BY
SHRADHA GUPTA

For ENVIRO-TECH SERVICES

AUTHORIZED SIGNATORY
Quality Manager

Format No ETS/LAB/TR-01, Issue No. 05, Date 01.04.2019, Amd. No. 04 Date 01.04.2019

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TC-13009

TEST REPORT

TEST REPORT NO.: ETS/2772/04/2024

URL NO.TC130092400002772F

DATE OF REPORT: 30.04.2024

STACK EMISSION MONITORING AND ANALYSIS REPORT

Name And Address of Customer

: M/s. OIL AND NATURAL GAS CORPORATION LTD.
ASSAM & ASSAM, ARAKAN BASIN, GGS/GCP,
BORHOLLA

Date Of Sampling

: 22.04.2024

Analysis Start Date

: 27.04.2024

Analysis End Date

: 30.04.2024

Duration Of Sampling

: 30.0 MIN

Sample ID No.

: 2772

Sampling Done By

: ETS STAFF

Sampling Method

: ETS/STP/STACK-01

Stack Attached To

: GG SET NO-01 (GGS)

Capacity Of Stack

: 1260 KVA

Quantity Of Fuel Used

: 1594.3 M³/DAY

Type Of Fuel Used

: NATURAL GAS

Stack Height Above Ground

: 30.0 MTR.

Stack Dia At The Top

: 300.0 MM

Material Of Construction

: M.S.

Attached APCS

: ACOUSTIC ENCLOSURE

D.G. Set Comm. Date

: AFTER 01/04/2014 (> 800 KW)

Normal Operating Schedule

: AS PER REQUIREMENTS

Ambient Temperature

: 35.0°C

Flue Gas Temperature

: 180.0°C

Velocity Of Flue Gases

: 13.8 MTR./SEC.

Quantity Of Emission Discharged

: 3509.88 m³/hr

S. No.	Test Parameter	Unit	Result	Specification/Limit (As per CPCB)	Test Method
1	Particulate Matters (PM at 15% O ₂)	mg/Nm ³	38.2	75	IS-11255 (Part-1)
2	Carbon Monoxide (CO at 15% O ₂)	mg/Nm ³	3.5	150	IS: 13270
3	Sulphur Dioxide,(SO ₂)	mg/Nm ³	52.0	Not Specified	IS-11255 (Part-2)



For ENVIRO-TECH SERVICES
 AUTHORIZED SIGNATORY
 MD HUMRAJ
 Quality Manager

Formal No ETS/LAB/TR-05, Issue No. 05, Date 01.04.2019, Amd. No. 04 Date 01.04.2019

Note:-

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TEST REPORT

TEST REPORT NO.: ETS/2772/04/2024

DATE OF REPORT: 30.04.2024

STACK EMISSION MONITORING AND ANALYSIS REPORT

S. No.	Test Parameter	Unit	Result	Specification/Limit (As per CPCB)	Test Method
4	Non Methane Hydro Carbon(NMHC at 15% O ₂)	mg/Nm ³	20.0	100	ETS/STP/STACK-07
5	Oxides of Nitrogen(NOx as NO ₂ at 15% O ₂)	ppmv	110.0	710	IS-11255 (Part-7)

*****End of Test Report*****



For ENVIRO-TECH SERVICES

AUTHORIZED SIGNATORY
MD. NUMRAJ
Quality Manager

Format No ETS/LAB/TR-05, Issue No. 05, Date 01.04.2019, Amd. No. 04 Date 01.04.2019

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TC-13009

TEST REPORT

TEST REPORT NO.: ETS/2773/04/2024

URL NO.TC130092400002773F

DATE OF REPORT: 30.04.2024

STACK EMISSION MONITORING AND ANALYSIS REPORT

Name And Address of Customer

: M/s. OIL AND NATURAL GAS CORPORATION LTD.
ASSAM & ASSAM, ARAKAN BASIN, GGS/GCP,
BORHOLLA

Date Of Sampling

: 22.04.2024

Analysis Start Date

: 27.04.2024

Analysis End Date

: 30.04.2024

Duration Of Sampling

: 30.0 MIN

Sample ID No.

: 2773

Sampling Done By

: ETS STAFF

Sampling Method

: ETS/STP/STACK-01

Stack Attached To

: GG SET NO-02 (GGS)

Capacity Of Stack

: 1260 KVA

Quantity Of Fuel Used

: 1594.3 M³/DAY

Type Of Fuel Used

: NATURAL GAS

Stack Height Above Ground

: 30.0 MTR.

Stack Dia At The Top

: 300.0 MM

Material Of Construction

: M.S.

Attached APCS

: ACOUSTIC ENCLOSURE

D.G. Set Comm. Date

: AFTER 01/04/2014 (> 800 KW)

Normal Operating Schedule

: AS PER REQUIRMENTS

Ambient Temperature

: 35.0°C

Flue Gas Temperature

: 174.0°C

Velocity Of Flue Gases

: 14.1 MTR./SEC.

Quantity Of Emission Discharged

: 3586.19 m³/hr

S. No.	Test Parameter	Unit	Result	Specification/Limit (As per CPCB)	Test Method
1	Particulate Matters (PM at 15% O ₂)	mg/Nm ³	37.5	75	IS-11255 (Part-1)
2	Carbon Monoxide (CO at 15% O ₂)	mg/Nm ³	4.0	150	IS: 13270
3	Sulphur Dioxide, (SO ₂)	mg/Nm ³	53.1	Not Specified	IS-11255 (Part-2)



For ENVIRO-TECH SERVICES

MD NUMRAJ
AUTHORIZED SIGNATORY
Quality Manager

Format No ETS/LAB/TR-05, Issue No. 05, Date 01.04.2019, Amd. No. 04 Date 01.04.2019

Notes:-

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ISO 45001

TEST REPORT

TEST REPORT NO.: ETS/2773/04/2024

DATE OF REPORT: 30.04.2024

STACK EMISSION MONITORING AND ANALYSIS REPORT

S. No.	Test Parameter	Unit	Result	Specification/Limit (As per CPCB)	Test Method
4.	Non Methane Hydro Carbon(NMHC at 15% O ₂)	mg/Nm ³	21.0	100	ETS/STP/STACK-07
5	Oxides of Nitrogen(NO _x as NO ₂ at 15% O ₂)	ppmv	130.0	710	IS-11255 (Part-7)

*****End of Test Report*****



For ENVIRO-TECH SERVICES

AUTHORIZED SIGNATORY
Quality Manager

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TC-13009

TEST REPORT

TEST REPORT NO.: ETS/2774/04/2024

URL NO.TC130092400002774F DATE OF REPORT: 30.04.2024

STACK EMISSION MONITORING AND ANALYSIS REPORT

Name And Address of Customer : M/s, OIL AND NATURAL GAS CORPORATION LTD.
ASSAM & ASSAM, ARAKAN BASIN, GGS/GCP,
BORHOLLA

Date Of Sampling : 22.04.2024

Analysis Start Date : 27.04.2024

Analysis End Date : 30.04.2024

Duration Of Sampling : 30.0 MIN

Sample ID No. : 2774

Sampling Done By : ETS STAFF

Sampling Method : ETS/STP/STACK-01

Stack Attached To : DG SET (GCP PLANT)

Capacity Of Stack : 380.0 KVA

Quantity Of Fuel Used : 15-20 LPH

Type Of Fuel Used : H.S.D

Stack Height Above Ground : 10.0 MTR.

Stack Dia At The Top : 125.0 MM

Material Of Construction : M.S.

Attached APCS : -

D.G. Set Comm. Date : AFTER 01/04/2014 (> 75 KW TO < 800 KW)

Normal Operating Schedule : AS PER REQUIRMENTS

Ambient Temperature : 35.0°C

Flue Gas Temperature : 188.0°C

Velocity Of Flue Gases : 14.9 MTR./SEC.

Quantity Of Emission Discharged : 657.92 m³/hr

S. No.	Test Parameter	Unit	Result	Specification/Limit (As per CPCB)	Test Method
1	Particulate Matters,(PM)	g/kw-hr	0.12	0.2	IS-11255 (Part-1)
2	Carbon Monoxide,(CO)	g/kw-hr	0.38	3.5	IS: 13270
3	Sulphur Dioxide,(SO ₂)	mg/Nm ³	19.2	Not Specified	IS-11255 (Part-2)



For ENVIRO-TECH SERVICES

MO HUMRAJ
AUTHORIZED SIGNATORY
Quality Manager

Format No ETS/LAB/TR-05, Issue No. 05, Date 01.04.2019, Amd. No. 04 Date 01.04.2019

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ISO 45001

TEST REPORT

TEST REPORT NO.: ETS/2774/04/2024

DATE OF REPORT: 30.04.2024

STACK EMISSION MONITORING AND ANALYSIS REPORT

S. No.	Test Parameter	Unit	Result	Specification/Limit (As per CPCB)	Test Method
4	Non Methane Hydrocarbon, (NMHC)	mg/Nm ³	30.0	Not Specified	ETS/STP/STACK-07
5	Oxide of Nitrogen (NO _x) + Hydro Carbon (HC)	g/kw-hr	1.18	4	IS-11255 (Part-7)

*****End of Test Report*****



CHECKED BY
SHRADDHA GUPTA

For ENVIRO-TECH SERVICES

AUTHORIZED SIGNATORY
Quality Manager

Format No. ETS/LAB/TR-05, Issue No. 05, Date 01.04.2019, Amend. No. 04 Date 01.04.2019

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TC-13009

TEST REPORT

TEST REPORT NO.: ETS/2775/04/2024

URL NO.TC130092400002775F

DATE OF REPORT: 30.04.2024

STACK EMISSION MONITORING AND ANALYSIS REPORT

Name And Address of Customer : M/s, OIL AND NATURAL GAS CORPORATION LTD.
ASSAM & ASSAM, ARAKAN BASIN, GGS/GCP,
BORHOLLA

Date Of Sampling : 22.04.2024

Analysis Start Date : 27.04.2024

Analysis End Date : 30.04.2024

Duration Of Sampling : 30.0 MIN

Sample ID No. : 2775

Sampling Done By : ETS STAFF

Sampling Method : ETS/STP/STACK-01

Stack Attached To : DG SET (GGS)

Capacity Of Stack : 250.0 KVA

Quantity Of Fuel Used : 10-15 LPH

Type Of Fuel Used : H.S.D

Stack Height Above Ground : 4.0 MTR.

Stack Dia At The Top : 100.0 MM

Material Of Construction : M.S.

Attached APCS :

D.G. Set Comm. Date : AFTER 01/04/2014 (> 75 KW TO < 800 KW)

Normal Operating Schedule : AS PER REQUIRMENTS

Ambient Temperature : 35.0°C

Flue Gas Temperature : 140.0°C

Velocity Of Flue Gases : 14.9 MTR./SEC.

Quantity Of Emission Discharged : 421.07 m³/hr

S. No.	Test Parameter	Unit	Result	Specification/Limit (As per CPCB)	Test Method
1	Particulate Matters.(PM)	g/kw-hr	0.10	0.2	IS-11255 (Part-1)
2	Carbon Monoxide,(CO)	g/kw-hr	0.35	3.5	IS: 13270
3	Sulphur Dioxide,(SO ₂)	mg/Nm³	19.8	Not Specified	IS-11255 (Part-2)

CHECKED BY
SHRADDHA GUPTA
ETS-LAB

For ENVIRO-TECH SERVICES

MO HUMRAJ
AUTHORIZED SIGNATORY
Quality Manager

Format No ETS/LAB/TR-05, Issue No. 05, Date 01.04.2019, Amd. No. 04 Date 01.04.2019

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ENVIRO-TECH SERVICES

An Analytical Laboratory



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Plot No. 1/32, S.S. of G.T. Road Industrial Area, Ghaziabad (U.P.) - 201001

email : etslab2012@gmail.com | Website : www.etslab.in | Ph.: 9911516076, 9811736063

ETS-LAB



TEST REPORT

TEST REPORT NO.: ETS/2775/04/2024

DATE OF REPORT: 30.04.2024

STACK EMISSION MONITORING AND ANALYSIS REPORT

S. No.	Test Parameter	Unit	Result	Specification/Limit (As per CPCB)	Test Method
4	Non Methane Hydrocarbon, (NMHC)	mg/Nm ³	25.0	Not Specified	ETS/STP/STACK-07
5	Oxide of Nitrogen (NOx) + Hydro Carbon (HC)	g/kw-hr	1.15	4	IS-11255 (Part-7)

*****End of Test Report*****



SHRADDHA GUPTA

For ENVIRO-TECH SERVICES

AUTHORIZED SIGNATORY
Quality Manager

Format No ETS/LAB/TR-05, Issue No. 05, Date 01.04.2019, Amd. No. 04 Date 01.04.2019

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TC-13009

TEST REPORT

TEST REPORT NO.: ETS/2776/04/2024

URL NO.TC130092400002776F

DATE OF REPORT: 30.04.2024

WATER SAMPLE ANALYSIS REPORT

Name And Address of Customer : M/s, OIL AND NATURAL GAS CORPORATION LTD.
ASSAM & ASSAM, ARAKAN BASIN, GGS/GCP,
BORHOLLA

Date of Sample Received : 22.04.2024
Analysis Start Date : 27.04.2024
Analysis End Date : 30.04.2024
Sample ID No : 2776
Sampling Done By : ETS STAFF
Sampling Description : GROUND WATER
Sampling Location : FROM BOREWELL WATER (GGS)
Sampling Method : IS 3025 (Part-1)
Sample Quantity : 2.0+0.5 Ltr
Packing Condition : SEALED
Packed In : P.V.C. AND GLASS BOTTLE

S. No.	Test Parameter	Unit	Result	Specification/Limit (As per IS:10500: 2012)		Test Method
				Acceptable	Permissible	
PHYSICAL & CHEMICAL PARAMETERS;						
1	Temperature	°C	27.0	Not Specified	Not Specified	APHA 2550-B
2	pH	...	7.64	6.5 - 8.5	Not Specified	APHA 4500-H+
3	Total Dissolved Solids,(TDS)	mg/L	640.0	500	2000	APHA 2540-C
4	Fluoride,(F)	mg/L	0.13	1	1.5	APHA 4500:(F ⁻)-D
5	Alkalinity, to (P)	mg/L	NIL	200	600	APHA 2320-B
6	Alkalinity, to (M)	mg/L	123.0	200	600	APHA 2320-B
7	Total Hardness,(CaCO ₃)	mg/L	230.0	200	600	APHA 2340-C
8	Calcium,(Ca)	mg/L	36.0	75	200	APHA 3500:(Ca)-B
9	Chloride,(Cl)	mg/L	38.2	250	1000	APHA 4500:(Cl ⁻)-B
10	Magnesium,(Mg)	mg/L	9.6	30	100	APHA 3500:(Mg)-B
11	Nitrate,(NO ₃)	mg/L	0.50	45	Not Specified	APHA 4500:(NO ₃)-B
12	Sulphate,(SO ₄)	mg/L	8.0	200	400	APHA 4500:(SO ₄)-E
13	Conductivity	µs/cm	941.0	Not Specified	Not Specified	APHA 2510-B



For ENVIRO-TECH SERVICES

AUTHORIZED SIGNATORY
RAJ
Quality Manager

Format No ETS/LAB/TR-09, Issue No. 05, Date 01.04.2019, Amd. No. 04 Date 01.04.2019

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TEST REPORT

TEST REPORT NO.: ETS/2778/04/2024

DATE OF REPORT: 30.04.2024

WATER SAMPLE ANALYSIS REPORT

14	Phenolic Compound, (C ₆ H ₅ OH)	mg/L	<0.001	0.001	0.002	APHA 5530-C
15	Phosphate (P)	mg/L	<0.01	Not Specified	Not Specified	APHA 4500:(P)-D
16	Oil & Grease, (O & G)	mg/L	1.8	Not Specified	Not Specified	APHA 5520-D
17	Chemical Oxygen Demand, (COD)	mg/L	<5.0	Not Specified	Not Specified	APHA 5220-B

HEAVY METALS:-

18	Total Chromium, (Cr)	mg/L	<0.01	0.05	Not Specified	APHA-3120B
19	Arsenic, (As)	mg/L	<0.01	0.01	Not Specified	APHA 3120B
20	Cadmium, (Cd)	mg/L	<0.001	0.003	Not Specified	APHA 3120B
21	Copper, (Cu)	mg/L	<0.01	0.05	1.5	APHA 3120B
22	Iron, (Fe)	mg/L	0.72	1.0	Not Specified	APHA-3120B
23	Lead, (Pb)	mg/L	<0.01	0.01	Not Specified	APHA-3120B
24	Mercury, (Hg)	mg/L	<0.001	0.001	Not Specified	US EPA Method 200.7 1994
25	Nickel, (Ni)	mg/L	<0.01	0.02	Not Specified	APHA-3120B
26	Zinc, (Zn)	mg/L	<0.01	5	15	APHA-3120B

*****End of Test Report*****



CHECKED BY

SHRADDHA GUPTA

For ENVIRO-TECH SERVICES

MD HUMRAJ

AUTHORIZED SIGNATORY

Format No ETS/LAB/TR-09, Issue No. 05, Date 01.04.2019, Amd. No. 04 Date 01.04.2019

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TEST REPORT

TEST REPORT NO.: ETS/2777/04/2024

URL NO.TC130092400002777F

DATE OF REPORT: 30.04.2024

WATER SAMPLE ANALYSIS REPORT

Name And Address of Customer : M/s. OIL AND NATURAL GAS CORPORATION LTD.
ASSAM & ASSAM, ARAKAN BASIN, GGS/GCP,
BORHOLLA

Date of Sample Received : 22.04.2024
Analysis Start Date : 27.04.2024
Analysis End Date : 30.04.2024
Sample ID No : 2777
Sampling Done By : ETS STAFF
Sampling Description : DRINKING WATER
Sampling Location : FROM POTABLE WATER (GGS)
Sampling Method : IS 3025 (Part-1)
Sample Quantity : 2.0+0.5 Ltr
Packing Condition : SEALED
Packed In : P.V.C. AND GLASS BOTTLE

S. No.	Test Parameter	Unit	Result	Specification/Limit (As per IS:10500: 2012)		Test Method
				Acceptable	Permissible	
PHYSICAL & CHEMICAL PARAMETERS;						
1	Temperature	°C	27.0	Not Specified	Not Specified	APHA 2550-B
2	pH	...	7.20	6.5 - 8.5	Not Specified	APHA 4500-H+
3	Total Dissolved Solids,(TDS)	mg/L	165.0	500	2000	APHA 2540-C
4	Fluoride,(F)	mg/L	<0.01	1	1.5	APHA 4500:(F-)-D
5	Alkalinity, to (P)	mg/L	NIL	200	600	APHA 2320-B
6	Alkalinity, to (M)	mg/L	28.0	200	600	APHA 2320-B
7	Total Hardness,(CaCO ₃)	mg/L	60.0	200	600	APHA 2340-C
8	Calcium,(Ca)	mg/L	10.0	75	200	APHA 3500:(Ca)-B
9	Chloride,(Cl)	mg/L	15.0	250	1000	APHA 4500:(Cl-)-B
10	Magnesium,(Mg)	mg/L	8.4	30	100	APHA 3500:(Mg)-B
11	Nitrate,(NO ₃)	mg/L	<0.1	45	Not Specified	APHA 4500:(NO ₃ -)-B
12	Sulphate,(SO ₄)	mg/L	5.2	200	400	APHA 4500:(SO ₄)-E
13	Conductivity	µs/cm	242.0	Not Specified	Not Specified	APHA 2510-B



For ENVIRO-TECH SERVICES

AUTHORIZED SIGNATORY
MD HUMRAJ
Quality Manager

Format No ETS/LAB/TR-09, Issue No. 05, Date 01.04.2019, Amd. No. 04 Date 01.04.2019

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TEST REPORT

TEST REPORT NO.: ETS/2777/04/2024

DATE OF REPORT: 30.04.2024

WATER SAMPLE ANALYSIS REPORT

14	Phenolic Compound, (C ₆ H ₅ OH)	mg/L	<0.001	0.001	0.002	APHA 5530-C
15	Phosphate (P)	mg/L	<0.01	Not Specified	Not Specified	APHA 4500-(P)-D
16	Oil & Grease, (O & G)	mg/L	NIL	Not Specified	Not Specified	APHA 5520-D
17	Chemical Oxygen Demand, (COD)	mg/L	NIL	Not Specified	Not Specified	APHA 5220-B

HEAVY METALS:-

18	Total Chromium, (Cr)	mg/L	<0.01	0.05	Not Specified	APHA-3120B
19	Arsenic, (As)	mg/L	<0.01	0.01	Not Specified	APHA 3120B
20	Cadmium, (Cd)	mg/L	<0.001	0.003	Not Specified	APHA 3120B
21	Copper, (Cu)	mg/L	<0.01	0.05	1.5	APHA 3120B
22	Iron, (Fe)	mg/L	<0.05	1.0	Not Specified	APHA-3120B
23	Lead, (Pb)	mg/L	<0.01	0.01	Not Specified	APHA-3120B
24	Mercury, (Hg)	mg/L	<0.001	0.001	Not Specified	US EPA Method 200.7 1994
25	Nickel, (Ni)	mg/L	<0.01	0.02	Not Specified	APHA-3120B
26	Zinc, (Zn)	mg/L	<0.01	5	15	APHA-3120B

*****End of Test Report*****



For ENVIRO-TECH SERVICES

AUTHORIZED SIGNATORY

MD HUMRAJ Quality Manager

Format No ETS/LAB/TR-09, Issue No. 06, Date 01.04.2019, Amd. No. 04 Date 01.04.2019

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TEST REPORT

TEST REPORT NO.: ETS/2778/04/2024

URL NO.TC130092400002778F

DATE OF REPORT: 30.04.2024

WATER SAMPLE ANALYSIS REPORT

Name And Address of Customer : M/s, OIL AND NATURAL GAS CORPORATION LTD.
ASSAM & ASSAM, ARAKAN BASIN, GGS/GCP,
BORHOLLA

Date of Sample Received : 22.04.2024
Analysis Start Date : 27.04.2024
Analysis End Date : 30.04.2024
Sample ID No : 2778
Sampling Done By : ETS STAFF
Sampling Description : SURFACE WATER (GGS/GCP)
Sampling Location : NEAR INSTALLATION AREA
Sampling Method : IS 3025 (Part-1)
Sample Quantity : 2.0+0.5 Ltr
Packing Condition : SEALED
Packed in : P.V.C. AND GLASS BOTTLE

S. No.	Test Parameter	Unit	Result	Specification/Limit (As per IS:10500: 2012)		Test Method
				Acceptable	Permissible	
PHYSICAL & CHEMICAL PARAMETERS:						
1	Temperature	°C	27.0	Not Specified	Not Specified	APHA 2550-B
2	pH	...	7.53	6.5 - 8.5	Not Specified	APHA 4500-H+
3	Total Dissolved Solids,(TDS)	mg/L	225.0	500	2000	APHA 2540-C
4	Fluoride,(F)	mg/L	<0.01	1	1.5	APHA 4500:(F-)-D
5	Alkalinity, to (P)	mg/L	NIL	200	600	APHA 2320-B
6	Alkalinity, to (M)	mg/L	36.3	200	600	APHA 2320-B
7	Total Hardness,(CaCO ₃)	mg/L	82.0	200	600	APHA 2340-C
8	Calcium,(Ca)	mg/L	13.0	75	200	APHA 3500:(Ca)-B
9	Chloride,(Cl)	mg/L	19.5	250	1000	APHA 4500:(Cl-)-B
10	Magnesium,(Mg)	mg/L	11.8	30	100	APHA 3500:(Mg)-B
11	Nitrate,(NO ₃)	mg/L	<0.1	45	Not Specified	APHA 4500:(NO ₃)-B
12	Sulphate,(SO ₄)	mg/L	9.0	200	400	APHA 4500:(SO ₄)-E
13	Conductivity	µs/cm	330.0	Not Specified	Not Specified	APHA 2510-B



For ENVIRO-TECH SERVICES

AUTHORIZED SIGNATORY

Format No ETS/LAB/TR-09, Issue No. 05, Date 01.04.2019, Arnd. No. 04 Date 01.04.2019

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ISO 45001

TEST REPORT

TEST REPORT NO.: ETS/2778/04/2024

DATE OF REPORT: 30.04.2024

WATER SAMPLE ANALYSIS REPORT

14	Phenolic Compound, (C ₆ H ₅ OH)	mg/L	<0.001	0.001	0.002	APHA 5530-C
15	Phosphate (P)	mg/L	<0.01	Not Specified	Not Specified	APHA 4500:(P)-D
16	Oil & Grease, (O & G)	mg/L	NIL	Not Specified	Not Specified	APHA 5520-D
17	Chemical Oxygen Demand, (COD)	mg/L	NIL	Not Specified	Not Specified	APHA 5220-B

HEAVY METALS:-

18	Total Chromium, (Cr)	mg/L	<0.01	0.05	Not Specified	APHA-3120B
19	Arsenic, (As)	mg/L	<0.01	0.01	Not Specified	APHA 3120B
20	Cadmium, (Cd)	mg/L	<0.001	0.003	Not Specified	APHA 3120B
21	Copper, (Cu)	mg/L	<0.01	0.05	1.5	APHA 3120B
22	Iron, (Fe)	mg/L	<0.05	1.0	Not Specified	APHA-3120B
23	Lead, (Pb)	mg/L	<0.01	0.01	Not Specified	APHA-3120B
24	Mercury, (Hg)	mg/L	<0.001	0.001	Not Specified	US EPA Method 200.7 1994
25	Nickel, (Ni)	mg/L	<0.01	0.02	Not Specified	APHA-3120B
26	Zinc, (Zn)	mg/L	<0.01	5	15	APHA-3120B

*****End of Test Report*****



For ENVIRO-TECH SERVICES
AUTHORIZED SIGNATORY
S.D. KUMAR
Quality Manager

Format No ETS/LAB/TR-08, Issue No. 05, Date 01.04.2019, Amd. No. 04 Date 01.04.2019

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TEST REPORT

TEST REPORT NO.: ETS/2779/04/2024 URL NO.TC130092400002779F DATE OF REPORT: 30.04.2024

AMBIENT NOISE MONITORING REPORT

Name And Address of Customer : M/s. OIL AND NATURAL GAS CORPORATION LTD.
ASSAM & ASSAM, ARAKAN BASIN, GGS/GCP,
BORHOLLA

Date of Monitoring : 22.04.2024

Monitoring Start Date : 22.04.2024

Monitoring End Date : 23.04.2024

Duration Of Monitoring : 24 HOURS

Sample ID No : 2779

Monitoring Done By : ETS STAFF

Sampling Location : NEAR BOUNDARY WALL (GGS)

Sampling Method : ETS/STP/NOISE-01

Category Of Area : INDUSTRIAL AREA

S. No.	Test Parameter	Unit	Result	Specification/Limit (As per CPCB)	Test Method
1	Day Time Noise Level	Leq :dB (A)	67.5	75	IS: 9989
2	Night Time Noise Level	Leq :dB (A)	54.2	70	IS: 9989

Remark: Day time is reckoned in between 06.00 A.M. and 10.00 P.M.
Night time is reckoned in between 10.00 P.M. and 06.00 A.M.

*****End of Test Report*****



For ENVIRO-TECH SERVICES

AUTHORIZED SIGNATURE



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TC-13009

TEST REPORT

TEST REPORT NO.: ETS/2780/04/2024 URL NO.TC130092400002780F DATE OF REPORT: 30.04.2024

AMBIENT NOISE MONITORING REPORT

Name And Address of Customer : M/s. OIL AND NATURAL GAS CORPORATION LTD.
ASSAM & ASSAM, ARAKAN BASIN, GGS/GCP,
BORHOLLA

Date of Monitoring : 22.04.2024

Monitoring Start Date : 22.04.2024

Monitoring End Date : 23.04.2024

Duration Of Monitoring : 24 HOURS

Sample ID No : 2780

Monitoring Done By : ETS STAFF

Sampling Location : NEAR BOUNDARY WALL (GCP)

Sampling Method : ETS/STP/NOISE-01

Category Of Area : INDUSTRIAL AREA

S. No.	Test Parameter	Unit	Result	Specification/Limit (As per CPCB)	Test Method
1	Day Time Noise Level	Leq :dB (A)	68.1	75	IS: 9989
2	Night Time Noise Level	Leq :dB (A)	57.9	70	IS: 9989

Remark: Day time is reckoned in between 06.00 A.M. and 10.00 P.M.
Night time is reckoned in between 10.00 P.M. and 06.00 A.M.

*****End of Test Report*****



For ENVIRO-TECH SERVICES

AUTHORIZED SIGNATORY
AD HUMRAJ
Quality Manager

Format No ETS/LAB/TR-02, Issue No. 05, Date 01.04.2019, Amd. No. 04 Date 01.04.2019

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TEST REPORT

TEST REPORT NO.: ETS/2781/04/2024 URL NO.TC130092400002781F DATE OF REPORT: 30.04.2024

AMBIENT NOISE MONITORING REPORT

Name And Address of Customer : M/s, OIL AND NATURAL GAS CORPORATION LTD.
ASSAM & ASSAM, ARAKAN BASIN, GGS/GCP,
BORHOLLA

Date of Monitoring : 22.04.2024

Monitoring Start Date : 22.04.2024

Monitoring End Date : 23.04.2024

Duration Of Monitoring : 24 HOURS

Sample ID No : 2781

Monitoring Done By : ETS STAFF

Sampling Location : NEAR DG.SET AREA (GGS)

Sampling Method : ETS/STP/NOISE-01

Category Of Area : INDUSTRIAL AREA

S. No.	Test Parameter	Unit	Result	Specification/Limit (As per CPCB)	Test Method
1	Day Time Noise Level	Leq :dB (A)	69.2	75	IS: 9989
2	Night Time Noise Level	Leq :dB (A)	55.6	70	IS: 9989

Remark: Day time is reckoned in between 06.00 A.M. and 10.00 P.M.
Night time is reckoned in between 10.00 P.M. and 06.00 A.M.

*****End of Test Report*****



Format No ETS/LAB/TR-02, Issue No. 05, Date 01.04.2019, Amd. No. 04 Date 01.04.2019

For ENVIRO-TECH SERVICES

AUTHORIZED SIGNATORY
MOHUMRAJ
Quality Manager

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ENVIRO-TECH SERVICES

An Analytical Laboratory

(A GOVERNMENT APPROVED LAB)

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email : etslab2012@gmail.com | Website : www.etslab.in | Ph.: 9911516076, 9811736063



TC-13009

TEST REPORT

TEST REPORT NO.: ETS/2782/04/2024

URL NO.TC130092400002782F

DATE OF REPORT: 30.04.2024

AMBIENT NOISE MONITORING REPORT

Name And Address of Customer : M/s. OIL AND NATURAL GAS CORPORATION LTD.
ASSAM & ASSAM, ARAKAN BASIN, GGS/GCP,
BORHOLLA

Date of Monitoring : 22.04.2024

Monitoring Start Date : 22.04.2024

Monitoring End Date : 23.04.2024

Duration Of Monitoring : 24 HOURS

Sample ID No : 2782

Monitoring Done By : ETS STAFF

Sampling Location : NEAR DISPATCH PUMP HOUSE (GGS)

Sampling Method : ETS/STP/NOISE-01

Category Of Area : INDUSTRIAL AREA

S. No.	Test Parameter	Unit	Result	Specification/Limit (As per CPCB)	Test Method
1	Day Time Noise Level	Leq :dB (A)	63.9	75	IS: 9989
2	Night Time Noise Level	Leq :dB (A)	54.6	70	IS: 9989

Remark: Day time is reckoned in between 06.00 A.M. and 10.00 P.M.
Night time is reckoned in between 10.00 P.M. and 06.00 A.M.

*****End of Test Report*****



For ENVIRO-TECH SERVICES


MD HUMRAJ
AUTHORIZED SIGNATORY

Format No ETS/LAB/TR-02, Issue No. 05, Date 01.04.2019, Amd. No. 04 Date 01.04.2019

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TC-13009

TEST REPORT

TEST REPORT NO.: ETS/2783/04/2024

URL NO.TC130092400002783F

DATE OF REPORT: 30.04.2024

AMBIENT NOISE MONITORING REPORT

Name And Address of Customer : M/s, OIL AND NATURAL GAS CORPORATION LTD.
ASSAM & ASSAM, ARAKAN BASIN, GGS/GCP,
BORHOLLA

Date of Monitoring : 22.04.2024

Monitoring Start Date : 22.04.2024

Monitoring End Date : 23.04.2024

Duration Of Monitoring : 24 HOURS

Sample ID No : 2783

Monitoring Done By : ETS STAFF

Sampling Location : NEAR OFFICE BUILDING (GGS)

Sampling Method : ETS/STP/NOISE-01

Category Of Area : INDUSTRIAL AREA

S. No.	Test Parameter	Unit	Result	Specification/Limit (As per CPCB)	Test Method
1	Day Time Noise Level	Leq :dB (A)	66.2	75	IS: 9989
2	Night Time Noise Level	Leq :dB (A)	54.8	70	IS: 9989

Remark: Day time is reckoned in between 06.00 A.M. and 10.00 P.M.

Night time is reckoned in between 10.00 P.M. and 06.00 A.M.

*****End of Test Report*****



CHECKED BY
SHRADDHA GUPTA

For ENVIRO-TECH SERVICES

MD HUMRAJ
AUTHORIZED SIGNATORY
Quality Manager

Format No ETS/LAB/TR-02, Issue No. 05, Date 01.04.2019, Amd. No. 04 Date 01.04.2019

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TEST REPORT

TEST REPORT NO.: ETS/2784/04/2024 URL NO.TC130092400002784F DATE OF REPORT: 30.04.2024

AMBIENT NOISE MONITORING REPORT

Name And Address of Customer : M/s. OIL AND NATURAL GAS CORPORATION LTD.
ASSAM & ASSAM, ARAKAN BASIN, GGS/GCP,
BORHOLLA

Date of Monitoring : 22.04.2024

Monitoring Start Date : 22.04.2024

Monitoring End Date : 23.04.2024

Duration Of Monitoring : 24 HOURS

Sample ID No : 2784

Monitoring Done By : ETS STAFF

Sampling Location : NEAR WATER ENGECTION PLANT (GGS)

Sampling Method : ETS/STP/NOISE-01

Category Of Area : INDUSTRIAL AREA

S. No.	Test Parameter	Unit	Result	Specification/Limit (As per CPCB)	Test Method
1	Day Time Noise Level	Leq :dB (A)	66.9	75	IS: 9989
2	Night Time Noise Level	Leq :dB (A)	54.6	70	IS: 9989

Remark: Day time is reckoned in between 06.00 A.M. and 10.00 P.M.
Night time is reckoned in between 10.00 P.M. and 06.00 A.M.

*****End of Test Report*****



CHECKED BY
SHRADHA GUPTA

For ENVIRO-TECH SERVICES

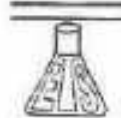
AUTHORIZED SIGNATORY
Quality Manager

Format No ETS/LAB/TR-02, Issue No. 05, Date 01.04.2019, Amend. No. 04 Date 01.04.2019

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ETS-LAB

ENVIRO-TECH SERVICES

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TEST REPORT

TEST REPORT NO.: ETS/2786/04/2024

DATE OF REPORT: 30.04.2024

WASTE WATER SAMPLE ANALYSIS REPORT

Name And Address of Customer : M/s, OIL AND NATURAL GAS CORPORATION LTD.
ASSAM & ASSAM, ARAKAN BASIN, GGS/GCP,
BORHOLLA

Date of Sampling : 22.04.2024

Analysis Start Date : 27.04.2024

Analysis End Date : 30.04.2024

Sample ID No : 2786

Sampling Done By : ETS STAFF

Sampling Description : AFTER TREATMENT

Sampling Location : E.T.P-OUTLET

Sampling Method : ETS/STP/WATER-02

Sample Quantity : 2.0 Ltr.

Packing Condition : SEALED

Packed In : P.V.C. CANE

S. No.	Test Parameter	Unit	Result	Specification/Limit (As per CPCB)	Test Method
				On-shore Discharge	
1	pH	...	7.67	5.5 - 9.0	APHA 4500-H+
2	Temperature	°C	27.0	40	APHA 2550-B
3	Total Dissolved Solids. (TDS)	mg/L	515.0	2100	APHA 2540-C
4	Total Suspended Solids. (TSS)	mg/L	34.9	100	APHA 2540-D
5	Oil & Grease. (O & G)	mg/L	7.60	10	APHA 5520-B
6	Biological Oxygen Demand (BOD ₅ @ 27°C)	mg/L	22.0	30	IS: 3025 (Part-44)
7	Chemical Oxygen Demand. (COD)	mg/L	80.0	100	APHA 5220-B
8	Zinc. (Zn)	mg/L	<0.01	2	APHA-3120B
9	Chloride. (Cl)	mg/L	50.8	600	APHA 4500:(Cl ⁻)-B
10	Sulphate. (SO ₄)	mg/L	38.2	1000	APHA 4500:(SO ₄)-E
11	Sodium. (Na)	mg/L	3.40	60	APHA-3120B
12	Phenolic Compound. (C ₆ H ₅ OH)	mg/L	<0.01	1.2	APHA 5530-C
13	Cyanide. (CN)	mg/L	<0.05	0.2	APHA 4500:(CN ⁻)-D
14	Fluoride. (F)	mg/L	<0.01	1.5	APHA 4500:(F ⁻)-D
15	Sulphide. (S)	mg/L	0.21	2	APHA 4500:(S ²⁻)-D
16	Chromium. (Cr+6)	mg/L	<0.05	0.1	APHA 3500:(Cr)-B
17	Total Chromium. (Cr)	mg/L	<0.01	1	APHA 3500:(Cr)-B
18	Copper. (Cu)	mg/L	<0.01	0.2	APHA 3120B
19	Mercury. (Hg)	mg/L	<0.01	0.01	APHA-3114C
20	Lead. (Pb)	mg/L	<0.01	0.1	APHA-3120B
21	Nickel. (Ni)	mg/L	<0.01	3	APHA-3120B

*****End of Test Report*****



For ENVIRO-TECH SERVICES

 AUTHORIZED SIGNATORY
 Quality Manager

Format No ETS/LAB/TR-10, Issue No. 05, Date 01.04.2019, Amd. No. 04 Date 01.04.2019

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ISO 45001

TEST REPORT

TEST REPORT NO.: ETS/2787/04/2024

DATE OF REPORT: 30.04.2024

WASTE WATER SAMPLE ANALYSIS REPORT

Name And Address of Customer : M/s, OIL AND NATURAL GAS CORPORATION LTD.
ASSAM & ASSAM, ARAKAN BASIN, GGS/GCP,
BORHOLLA

Date of Sampling : 22.04.2024

Analysis Start Date : 27.04.2024

Analysis End Date : 30.04.2024

Sample ID No : 2787

Sampling Done By : ETS STAFF

Sampling Description : BEFORE TREATMENT

Sampling Location : E.T.P-INLET

Sampling Method : ETS/STP/WATER-02

Sample Quantity : 2.0 Ltr.

Packing Condition : SEALED

Packed In : P.V.C. CANE

S. No.	Test Parameter	Unit	Result	Test Method
1	pH	...	7.50	APHA 4500-H+
2	Temperature	°C	27.0	APHA 2550-B
3	Total Dissolved Solids, (TDS)	mg/L	1590.0	APHA 2540-C
4	Total Suspended Solids, (TSS)	mg/L	195.0	APHA 2540-D
5	Oil & Grease, (O & G)	mg/L	961.5	APHA 5520-B
6	Biological Oxygen Demand (BOD ₅ , 27°C)	mg/L	82.8	IS: 3025 (Part-44)
7	Chemical Oxygen Demand, (COD)	mg/L	855.0	APHA 5220-B
8	Zinc, (Zn)	mg/L	<0.01	APHA-3120B
9	Chloride, (Cl)	mg/L	124.0	APHA 4500:(Cl ⁻)-B
10	Sulphate, (SO ₄)	mg/L	51.8	APHA 4500:(SO ₄)-E
11	Sodium, (Na)	mg/L	4.12	APHA-3120B
12	Phenolic Compound, (C ₆ H ₅ OH)	mg/L	<0.01	APHA 5530-C
13	Cyanide, (CN)	mg/L	<0.05	APHA 4500:(CN ⁻)-D
14	Fluoride, (F)	mg/L	<0.01	APHA 4500:(F ⁻)-D
15	Sulphide, (S)	mg/L	1.50	APHA 4500:(S ₂ ⁻)-D
16	Chromium, (Cr+6)	mg/L	<0.01	APHA 3500:(Cr)-B
17	Total Chromium, (Cr)	mg/L	<0.01	APHA 3500:(Cr)-B
18	Copper, (Cu)	mg/L	<0.01	APHA 3120B
19	Mercury, (Hg)	mg/L	<0.01	APHA-3114C
20	Lead, (Pb)	mg/L	<0.01	APHA-3120B
21	Nickel, (Ni)	mg/L	<0.01	APHA-3120B



*****End of Test Report*****
For ENVIRO-TECH SERVICES

AUTHORIZED SIGNATORY
Quality Manager

Format No ETS/LAB/TR-10, Issue No. 05, Date 01.04.2019, Amd. No. 04 Date 01.04.2019

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ETS-LAB

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TC-13009

TEST REPORT

TEST REPORT NO.: ETS/2749/04/2024 ULR NO.TC130092400002749F DATE OF REPORT: 30.04.2024

AMBIENT AIR MONITORING AND ANALYSIS REPORT

Name And Address of Customer : M/s. OIL AND NATURAL GAS CORPORATION LTD.
DIST- GOLAGHAT NAMBAR- GGS

Date of Monitoring : 24.04.2024
 Analysis Start Date : 27.04.2024
 Analysis End Date : 30.04.2024
 Duration Of Monitoring : 24.04.2024 To 25.04.2024
 Time Of Monitoring : 10.40 AM To 10.40 AM (CO&O₃ for 1.0 Hrs.)
 Sample ID No : 2749
 Sampling Done By : ETS STAFF
 Sampling Location : NEAR MAIN GATE(NAMBAR GGS)
 Sampling Method : ETS/STP/AIR-01
 Sampling Machine Placed At Height : 1.5 METER FROM GROUND LEVEL
 Weather Condition : CLEAR Ambient Temperature: 36.0 °C
 Wind Direction : E To W
 Equipment Used : Respirable Dust Sampler (PM₁₀) + Fine Particulate Sampler (PM_{2.5})

S. No.	Test Parameter	Unit	Result	Specification/Limit (As per CPCB)	Test Method
1	Particulate Matters,(PM ₁₀)	µg/m ³	81.5	For 24 Hrs.=100	IS 5182 (Part-23)
2	Particulate Matters,(PM _{2.5})	µg/m ³	24.2	For 24 Hrs.=80	IS 5182 (Part-24)
3	Sulphur Dioxide, (SO ₂)	µg/m ³	12.0	For 24 Hrs.=80	IS: 5182 (Part-2)
4	Nitrogen Dioxide,(NO ₂)	µg/m ³	23.0	For 24 Hrs.=80	IS: 5182 (Part-6)
5	Ammonia,(NH ₃)	µg/m ³	<20.0	For 24 Hrs.=400	IS 5182 (Part-25)
6	Ozone,(O ₃)	µg/m ³	14.0	For 1 Hrs.=180	IS: 5182 (Part.-9)
7	Lead,(Pb)	µg/m ³	<0.05	For 24 Hrs.=1	IS 5182 (Part-22)

For ENVIRO-TECH SERVICES

MD HUMRAJ

Quality Manager

AUTHORIZED SIGNATORY



Formet No ETS/LAB/TR-01, Issue No. 05, Date 01.04.2019, Amd. No. 04 Date 01.04.2019

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ISO 45001

TEST REPORT

TEST REPORT NO.: ETS/2749/04/2024

DATE OF REPORT: 30.04.2024

AMBIENT AIR MONITORING AND ANALYSIS REPORT

S. No.	Test Parameter	Unit	Result	Specification/Limit (As per CPCB)	Test Method
8	Benzene, (C ₆ H ₆)	µg/m ³	<1.0	For Annual=5	IS 5182 (Part-11)
9	Arsenic, (As)	ng/m ³	<1.0	For Annual=06	CPCB, Vol.-1, Pg.-48
10	Nickel, (Ni)	ng/m ³	< 1.0	For Annual=20	IS 5182 (Part-26)
11	Carbon Monoxide, (CO)	mg/m ³	0.64	For 1 Hrs.=4	IS 5182 : Part 10
12	Benzo (a) Pyrene (BaP)	ng/m ³	<0.05	For Annual=01	IS: 5182 (Part-12)
13	Volatile Organic Compound, (VOC)	mg/m ³	<0.01	Not Specified	ETS/STP/WZ-15

*****End of Test Report*****



For ENVIRO-TECH SERVICES

MD HUMRAJ

Quality Manager

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Year	CER activity	CER expenditure in Rs. Lakhs
2021-22	Solar light	5
2022-23	Solar light	90
	Plantation	35
	Drinking water supply	50
Total		180



Oil and Natural Gas Corporation

HSE Section, Jorhat Asset Cinnamara complex

Jorhat-785704, Assam, Phone no.-0376-2360033

To,

Chairman Zilla Parishad
Jorhat

Sub: Submission of Copy of Environmental Clearance granted to ONGC, Jorhat

Sir,

Please find enclosed herewith Copy of Environmental Clearance '*Onshore development and production of oil and production of oil and gas from six wells in 5 mine Lease Blocks in Districts Jorhat and Golaghat (Assam) granted to M/s Oil and Natural Gas Corporation Limited*'

This is for your kind information

Thanking You,

Yours faithfully

Niva Moni Tamuli, GM (P)
Head HSE – Jorhat Asset

o/c
Remind 4
Ad 3
10/2/22





ओयल एण्ड नेचुरल गैस कॉर्पोरेशन लिमिटेड
कार्पोरेट भूतल प्रबंधन, नम्यार-III, जोरहाट परिसंपत्ति, जोरहाट - 785704, असम
Oil and Natural Gas Corporation Limited
Office of Surface Manager, Nambar-III, Jorhat Asset,
Jorhat - 785704, Assam, Mobile: 9427504236,
Tel: 0376-2707314, e-mail: s_subash@ongc.co.in

No. JRT / Jorhat Asset / ST/ ENV Statement/ 2023-24

Dated : 05.07.2024

From : Surface Manager , Jorhat Asset

To: Head HSE, Jorhat Asset

Please find enclosed herewith environmental statement for April 2023- March 2024 attached Form-V against Environment Clearance order issued vide no. F.No. 1A - J-11011/49/ 2014- 1A II (I) Dated: 1st May 2019, for "Onshore development and production of Oil & Gas from six well in 5 Mines Lease Blocks in Districts Jorhat and Golaghat (Assam) By M/s Oil and Natural Gas corporation Ltd " pertaining to activities of Production Activities of Jorhat Asset. This is for your information and necessary action please.

S Subash, CGM(P)

Surface Manager

Isolated Production Oil Mine, Jorhat

S. SUBASH

Chief General Manager (Production)
Surface Manager, Jorhat Asset

FORM - V**(SEE RULE 14)****ENVIRONMENTAL STATEMENT FOR THE FINANCIAL YEAR ENDING THE 31ST MARCH 2024****(PERIOD 1ST APRIL 2023 TO 31ST MARCH 2024)****PART-A**

(I) NAME AND ADDRESS OF THE OWNER/OCCUPIER OF THE INDUSTRY OPERATION OR PROCESS- SHRI AMIT KUMAR, ASSET MANAGER, JORHAT ASSET- M/S OIL & NATURAL GAS CORPORATION LIMITED, JORHAT ASSET, DISTT. JORHAT (ASSAM)

(II) INDUSTRY CATEGORY PRIMARY - (STC CODE) SECONDARY- STC CODE)

(III) PRODUCTION CAPACITY- 26696.80 MT OF CRUDE OIL AND 3.730146 MMSCM OF NATURAL GAS.

(IV) YEAR OF ESTABLISHMENT:

(V) DATE OF THE LAST ENVIRONMENTAL STATEMENT SUBMITTED: NA

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

(I) WATER CONSUMPTION (M³)

PROCESS & COOLING:- NIL M³

DOMESTIC: NIL M³

INJECTION: NIL M³

**NAME OF PRODUCTS
PRODUCT**

PROCESS WATER CONSUMPTION PER UNIT OF

OUTPUT

	DURING THE PREVIOUS YEAR ENDING 31ST MARCH	DURING THE CURRENT YEAR ENDING 31ST
--	--	---

MARCH

(1)

(2)

(3)

**CRUDE OIL+ OIL EQUIVALENT OF
NATURAL GAS**

— MT

— MT

(II) RAW MATERIAL CONSUMPTION

*NAME OF RAW MATERIAL PER UNIT	NAME OF PRODUCTS	CONSUMPTION OF RAW	
		DURING THE PREVIOUS YEAR ENDING 31 ST MARCH	DURING THE YEAR ENDING 31 ST
MATERIALS CURRENT MARCH			
NIL	CRUDE OIL & NATURAL GAS	NA	NA

INDUSTRIAL MAY USE CODES IF DISCLOSING DETAILS OF RAW MATERIAL WOULD VIOLATE CONTRACTUAL OBLIGATIONS, OTHER ALL INDUSTRIALS HAVE TO NAME THE RAW MATERIAL USED.

PART - C

POLLUTION DISCHARGED TO ENVIRONMENT/UNIT OF OUTPUT
(PARAMETER AS SPECIFIED IF THE CONSENT ISSUED)

POLLUTION PERCENTAGE OF	QUANTITY OF POLLUTANTS CONCENTRATION OF POLLUTIONS		PRESCRIBED STANDARDS WITH REASONS
	DISCHARGED (MASS/DAY) VARIATION FORM	IN DISCHARGED (MASS/VOLUME)	

(A) WATER: IN CASE OF DRILLING ACTIVITIES, APPROX ——— M³ OF DRILL MUD, DRILL CUTTINGS AND EFFLUENT WATER – PER METER OF DRILL LENGTH IS PROCEED. EFFLUENT WATER IS TREATED USING MOBILE ETP, RECYCLED AND REUSED IN DRILLING OPERATIONS. IN PRODUCTION ACTIVITIES, EFFLUENT GENERATED IS USED FOR INTERNAL CONSUMPTION.

(B) AIR: AMBIENT AIR QUALITY MONITORING OF VARIOUS INSTALLATIONS/RIGS (PROVIDE DETAIL)

(C) NOISE: NOISE LEVEL MONITORING AT PRODUCTION INSTALLATIONS DONE BY POLLUTION CONTROL BOARD AUTHORIZED AGENCIES (SAMPLE REPORT ENCLOSED AT ANNEX-III)

PART-D
HAZARDOUS WASTES

(AS SPECIFIED UNDER HAZARDOUS WASTES (MANAGEMENT AND HANDLING) RULES, 1989)

HAZARDOUS WASTES		TOTAL QUANTITY (KG)
	DURING THE PREVIOUS YEAR ENDING 31 ST MARCH	DURING THE CURRENT YEAR ENDING 31 ST
MARCH		
(A) FORM PROCESS	— MT	— MT
(B) FORM POLLUTION CONTROL FACILITIES	— MT	— MT

PART - E
SOLID WASTES

	DURING THE PREVIOUS YEAR ENDING 31 ST MARCH	TOTAL QUANTITY DURING THE CURRENT YEAR ENDING 31 ST
MARCH		
(A) FORM PROCESS	—	—
(B) FORM POLLUTION CONTROL FACILITIES	—	—
(C)		
(1) QUANTITY RECYCLED OR RE-UTILIZED WITHIN THE UNIT		
(2) SOLID- NIL		NIL
(3) DISPOSED- — KG, — BARRELS — GALLONS — MT, — BARRELS, —		
FILTERS		

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. RECOVERY OF OIL IS CARRIED OUT FROM OILY SLUDGE BY ____ (IF ANY-
PROVIDE DETAIL) -NIL
- II. BIOREMEDIATION JOB FOR ENVIRONMENT FRIENDLY TREATMENT OF OILY
SLUDGE -NIL
- III. BURNT OIL SENT FOR DISPOSAL/ RECOVERY THROUGH AUTHORIZED VENDERS -
NIL
- IV. SOLID WASTE LIKE BARRELS, DRUMS DISPOSAL DETAIL- STORED AT SITE
- V. OLD BATTERIES (PROVIDE DISPOSAL DETAIL)- BUY BACK CONTRACT WITH
SUPPLIERS

PART G

IMPACT OF THE POLLUTION ABATEMENT MEASURES TAKEN ON CONSERVATION OF
NATURAL RESOURCES AND ON THE COST OF PRODUCTION: N/A

PART H

ADDITIONAL MEASURES/ INVESTMENT PROPOSAL FOR ENVIRONMENTAL PROTECTION ABATEMENT OF
POLLUTION, PREVENTION OF POLLUTION.

- I. ENVIRONMENTAL MONITORING (AIR, WATER, SOIL AND NOISE) DETAIL- Enclosed
- II. BIOREMEDIATION JOB (PROVIDED DETAILS). ____MT SLUDGE WHICH IS TREATED THROUGH
BIOREMEDIATION BY OTBL
- III. ACOUSTIC ENCLOSURES - ALL THE GENSETS ARE ACOUSTICALLY ENCLOSED

PART I

ANY OTHER PARTICULARS FOR IMPROVING THE QUALITY OF THE ENVIRONMENT.

- I. TREE PLANTATION DURING 2023-2024
100 SAPLING WERE PLANTED NEAR THE WELL SITES.

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ity. It is also noticed that such groups, mostly comprising young boys and girls, descend from the Sarania Hill. Though there are police checking every now and then, the area has a lot of lanes and byelanes, through which the bikers cleverly escape," Rishiraj Sarma, singer and advocate, Gauhati High Court, told *The Assam Tribune*.

"As most of such youths appear to be educated and from financially stable families, the parents and educational institutions should also keep an eye on them. Apart from the police, it is also a collective responsibility of society at large," he added.

Some of the residents also stated that the since Gandhi Mandap is now a home to one of the country's tallest National Flags, special measures should be taken for

proper illumination of the road in the evening and for making it suitable for children.

"We have such an attractive tourist destination in the city, which is but neglected by the authorities. In the name of the Smart City Project, the beautification drive is taking too long. The hills have always remained off-limits to children and family visits, especially during the night. The government should take proper measures to make Gandhi Mandap approachable," Monimala Dey, an investment banker residing in Uluberi area, said.



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projects in the Department of BSRE / CHM, IT Guwahati. For detailed advertisements may please visit <http://www.litg.ernet.in>

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EXTENSION NOTICE (dated 20.06.2019)

It is hereby notified to all concerned that the dates of submission and techno-commercial opening of bids for the following NITs has been EXTENDED

(A) NIT No. APDCL/R-APDRP/DC/OM, CAMC/03 dated 31.05.19 for the work "(i) 24x7x365 Operation and Maintenance and (ii) Providing Comprehensive Annual Maintenance Services at North-East Command Data Centre, Guwahati-22"

(B) NIT No. APDCL/R-APDRP/DC/OM, CAMC/02 dated 31.05.19 for the work "(i) 24x7x365 Operation and Maintenance and (ii) Providing Comprehensive Annual Maintenance Services at North-East Disaster Recovery Centre, Agartala, Tripura"

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ENVIRONMENTAL CLEARANCE

ONGC is pleased to inform the people of Assam State that The Ministry of Environment & Forest, Govt of India, New Delhi has granted Environmental Clearance for the project "Oilfield development and production of oil and production of oil and gas from six wells in 5 mine Lease Blocks in Districts Jorhat and Golaghat (Assam) by M/s Oil and Natural Gas Corporation Limited". F. No. - IA-J-110011/45/2014-IA II (I) dated 1st May, 2019.

The copies of clearance letter are available with Assam State Pollution Control Board and may also be seen at the web site of Ministry of Environment & Forest at <http://envyfor.cio.in>

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गुवाहाटी - 781039

दूरभाष : 0361-2531100 फैक्स : 0361-2530762

INDIAN INSTITUTE OF TECHNOLOGY GUWAHATI

Assam Tribune

7/17

ASSAM TRIBUNE

শান্ত শব্দৰেই যাক জনগণ চিনি আছিল। সেই সময়ত ই দেশসমূহক কোৱা আৰু ইয়াৰ পাছত আমাক জনোৱা ৭৮ পৰিয়ালৰ সদস্যসকলে গ আৰু বৈদেশিক পৰিচয় আছিল।



আজি অক্ষয়ৰ জন্মৰ দিন। এটা মুকলি কৰা হয়।
৭৮ম চেণ্টাৰ।

ধৰ বহু ন বাতিল

চল সাময়িকভাৱে বাতিল
৭ পাকিস্তানে ইয়াৰ
পে এই এয়াৰলাইনসমূহ
উমাৰো বন্ধ হৈ আছে।
কল্প কৰি ইয়াক আৰু
না অধিক বৃদ্ধি পোৱা
হ, কোৱাণ্টাছ, ডিঙাপুৰ
ক এগ এমকে ধৰি বিশ্ব
ইনছ ট্ৰেইট অফ হবনুৱৰ
চল বাতিল কৰে।

কোৱাণ্টাছ শিথিল হৈছিল।
৩০ জন লোক নিহত হয়।
কোৱাণ্টাছ এটা ৩০০ কণা
মাইনচুলৰ হৈছিল। অধিকাংশ
ভাৰতীয় যন্ত্ৰাৱত ইয়াৰ ওপৰত
দিওঁ মৃতদেহ নথি থকা
বেছিভাগ পোৱা হয়। পক্ষপাতি
দেহ ক'লা হৈ পৰে। আৰু অধিক
কাল অৱশিষ্ট পৰা হৈছে। নথি
আৰু ইতিহাসে এই নিৰীক্ষণ কৰা
হৈছে। উত্তৰ কামাৰ পূৰ্ণ
সংগ্ৰহ কৰা হৈছে। নিহতসকল
ভিতৰত কামাৰ তিনিটা শিশু।

ভাৰতৰ এম এছ জি সদস্যপদ লাভত চীনৰ পুনৰ বাধা

বেইজিং, ২১ জুন টা টা আজি
এই বুলি কয় যে আন্তৰ্জাতিক
অনুষ্ঠিত। সাধাৰণত
যোগাযোগৰ বাবে এম এছ
জি। ভাৰতত ভাৰতৰ পৰম্পৰা
সাঁভৰ প্ৰদৰ্শন আছিল। বৰা
হোৱা নাই। চীনে লগতে এম এছ
জি পৰিচালনা কৰা প্ৰদৰ্শন
সোণ চুটিয়া (এ পি চি) প্ৰদৰ্শন
নথৰা দেশক হান্সা পদ লাভ
বিষয়ত সন্মান কৰা বৈশ্ব
উন্নয়নত উন্নতি হোৱাৰ বাবে
সময়সীমা বাধা দিছিল।
অধিক কৰে। উন্নয়নশীল
প্ৰদৰ্শন সদস্য হ'বলৈ এম এছ জি
ভাৰতৰ অন্তৰ্ভুক্তি চীনে
নিষেধ কৰি আহিছে। চীনে
এম এছ জি বন্ধ কৰা
দেশসমূহ এম এছ জি
কৰাৰ পক্ষে মত পোষণ
কৰি আহিছে। উন্নয়নশীল
এম এছ জি বন্ধ কৰা
আমি কামাৰত বাধা
অনুষ্ঠিত হয়।

চল ছেল' আৰম্ভ

৭৮ লগতে
— ৭৮ জি.
হাউচ অফ
বহুতো এই
৭। ইয়াৰ
ইন স্থাপি
বেংগালুৰু
ৰ বাবে এই
৭। স্থাপন
জিত সোৱা
ধাক ছপ
ডাক্ষিণমূহ
কৰ খণ্ড
শেষ সেৱা
৭। গোটেই
বহুতলৈ উপলব্ধ হ'ব আৰু ই অ' আৰ এছ
সময়ছোৱাত অধিক গ্ৰাহকৰ সহায় আশা কৰা
হৈছে। ৭৮ সক্ৰিয়কৰণ কৰিবলৈ মিলি
সম্প্ৰসাৰিত নেটৱৰ্ক (এম ই এন এছ এ)
প্ৰগ্ৰমৰ অধীনত কোম্পানীয়ে ই অ' আৰ এছ-
১০ৰ বাবে ডেলিভাৰীসমূহ ৭০ শতাংশ
পৰিচালনা কৰিবলৈ ১২৫০০তকৈ অধিক
ষ্ট'ৰ্টলৈ ইয়াৰ কিৰণ নেটৱৰ্ক সম্প্ৰসাৰণ
কৰিছে। ই অ' আৰ এছৰ বিষয়ে মন্তব্য কৰি
মিলি আৰম্ভৰ মুকলি, আমাৰ নাগৰিকে কয় যে
ই অ' আৰ এছৰ ১০ সংখ্যক সংস্কৰণ ২.২
মিলিয়ন আয়োগ্য গ্ৰাহকৰ সমূহ হৈ বৃহত্তম
অকাৰত পৰিগণিত হ'ব। তেওঁলোকে আশা
কৰিছে ২.২ লাখতকৈ ততোধিক গ্ৰাহক
প্ৰথমবাৰৰ বাবে মিলিওন বজাৰ কৰিব।

আমি কামাৰত বাধা
অনুষ্ঠিত হয়।
৩০ জন লোক নিহত হয়।
কোৱাণ্টাছ এটা ৩০০ কণা
মাইনচুলৰ হৈছিল। অধিকাংশ
ভাৰতীয় যন্ত্ৰাৱত ইয়াৰ ওপৰত
দিওঁ মৃতদেহ নথি থকা
বেছিভাগ পোৱা হয়। পক্ষপাতি
দেহ ক'লা হৈ পৰে। আৰু অধিক
কাল অৱশিষ্ট পৰা হৈছে। নথি
আৰু ইতিহাসে এই নিৰীক্ষণ কৰা
হৈছে। উত্তৰ কামাৰ পূৰ্ণ
সংগ্ৰহ কৰা হৈছে। নিহতসকল
ভিতৰত কামাৰ তিনিটা শিশু।

ভেল আৰু প্ৰাকৃতিক গেছ নিগম লিমিটেড
ভেল আৰু অৱশ্যে ভেল, ভেল, ভেল

পৰিবেশ সংৰক্ষণ সেৱা

আমি কামাৰত বাধা
অনুষ্ঠিত হয়।
৩০ জন লোক নিহত হয়।
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কাল অৱশিষ্ট পৰা হৈছে। নথি
আৰু ইতিহাসে এই নিৰীক্ষণ কৰা
হৈছে। উত্তৰ কামাৰ পূৰ্ণ
সংগ্ৰহ কৰা হৈছে। নিহতসকল
ভিতৰত কামাৰ তিনিটা শিশু।

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২৫ জুন

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২৬ জুন

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Dainik Janambuni