



## OIL & NATURAL GAS CORPORATION LTD.

Assam & Assam Arakan Basin, HSE Section

Cinnamara Complex Jorhat-785704

Fax: 0376-2360014 Phone: 0376-2360033

No. A&AAB/HSE/ Six Mon. Comp. Report/2019-20

Date: 9/12/2019

To,

1. The Director, (IA)  
Ministry of Environment and Forest and Climate Change,  
Indira Paryavaran Bhavan, Jorbagh, New Delhi-3
2. Chief Conservator of Forests,  
Dr. H. TYNSONG (Scientist-D)  
Ministry of Environment and Forest, NE Regional office, LAW-U-SIB, LUMBATINGEN,  
NEAR MTC workshop, Shillong-793021

**Sub: Six Monthly Compliance Report on Exploratory Drilling (as on 1<sup>st</sup> of December, 2019) in respect of A & AA Basin, ONGC, Jorhat.**

Sir,

Please find enclosed herewith "Six Monthly Compliance Report" on environmental clearance stipulations for projects on Exploratory Drilling in Upper Assam South Block, A&AA Basin, ONGC, Jorhat, Assam. The reports cover the compliance status as on 1<sup>st</sup> Dec, 2019.

Thanking You,

Yours faithfully

*C. Ratan*  
9/12/19  
Dr. Sanjay Bhutani  
GM (Chem.)  
I/C HSE Basin

Copy to: For kind information Pl.

1. Member Secretary, Pollution Control Board Assam, Bamunimaidam, Guwahati- 781021, Assam
2. The Regional Office In Charge, Regional Office, APCB-Golaghat, Assam



**EXPLORATORY DRILLING FOR OIL AND NATURAL GAS IN  
UPPER ASSAM SELF (SOUTH),  
JORHAT AREA, ASSAM**

**Six monthly compliance reports  
(Under EIA Notification 2006)**

**OIL AND NATURAL GAS CORPORATION LTD  
Upper Assam Self (South)  
Jorhat**

**SIX MONTHLY COMPLIANCE REPORTS  
AS ON 01.12.2019**

**SIX MONTHLY COMPLIANCE REPORT FOR ENVIRONMENT CLEARANCE  
(As on 1<sup>st</sup> December' 2019)**

1	Name of the project:-	Proposed exploratory drilling of 13 exploratory wells in PML area of SAS Block in Sarupathar Tehsil District Golaghat
2	Location of project/ address:-	Sarupathar, District: Golaghat
3	Letter No. & date of Environment Clearance granted by MOEF:-	J-11011/111/2015-IA(II) dated 31.03.2017
4	Present Status of project:-	Well# DPAD-Oil producer. Well# KHBH-Under Drilling Well# URAA- Under drilling

**A. SPECIFIC CONDITIONS**

Sl. No.	Specific Condition	Remarks
i.	Ambient Air Quality (AAQ) 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 <sup>th</sup> November, 2009 for PM10, PM2.5, SO2, NOx, CO, CH4, HC, Non-methane HC etc.	Ambient air & stack monitoring analysis is carried out by an outside Agency. The values of Ambient air and emission of DG set in the areas (indicated) are within permissible limit. (Report attached).
ii.	The project proponent shall take due care and adopt the best practices to ensure that there is no oil spill. However, to meet with any unforeseen situation and combat the oil Spill Disaster Contingency Plan. Regular Mock drills shall also be conducted.	Mock drills to be conducted in different Scenarios like Fire, First Aid and Snake bite, Earth Quake, Electrical shock and others as per ERP.
iii.	Mercury shall also be analyzed in air, water and drill cuttings twice during period.	Monitoring and analysis is carried out by an outside agency. (Report attached).
iv.	Approach road shall be made pucca to minimize generation of suspended dust.	<b>Using pucca road to drill site for outside Agency. (Copy enclosed).</b>
v.	The company shall make provided to DG sets and proper stack height shall be provided as per CPCB guidelines.	DG sets are provided acoustic enclosures. Required safety measures are being followed as per MoEF&CC & CPCB guidelines.
vi.	Total water requirement from tankers shall not exceed 25m <sup>3</sup> /day/well and prior permission should be obtained from the Competent Authority.	Total water requirement not more than 25 m <sup>3</sup> /day

Sl. No.	Specific Condition	Remarks
vii.	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.	<ul style="list-style-type: none"> <li>• Rig bandh of sufficient height is constructed around the drill site.</li> <li>• Separate drainage is provide to avoid all contamination</li> </ul>
viii.	The drill cuttings shall be disposal in pit of about 25mx10mx2m deep and shall be lined with polypropylene liner. The cuttings disposal pit shall be placed within the drilling lease area to prevent the transport of waste mud and cuttings from the drilling site to another area to prevent any spillage on the other areas.	Drill cutting disposal from the HDPE lined pit and placed within the drilling lease area to prevent transport of waste mud, cutting from the drilling site and any spillage on the other areas.
ix.	No effluent /drilling mud /drill cutting shall discharged/disposed of into nearby surface water bodies.	Drill cuttings are collected in the impervious lined pit. And no effluent, drilling mud and drill cuttings discharged /disposed of nearby areas.
x.	Wastewater collected in the pit will be clarified and treated in solar evaporation pond or packaged wastewater treatment plant for removal of oil and suspended solids to meet the regulatory discharge standards. Domestic waste water shall be disposed through septic tank followed by soak pit.	Waste water collected from the impervious lined pit and using mobile ETP for recycle of waste water.
xi.	Good sanitation facility shall be provided at the drilling site. Domestic sewage shall be disposed of through septic tank/soak pit.	Provided good sanitation facility at the drilling rig and also domestic sewage disposed of through septic tank/soak pit.
xii.	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.	No oily sludge is generated ,but spent oil is collected and transported to DTY for disposal as per HWMH RULES 1989
xiii.	The company shall take necessary measures to prevent fire hazards, containing oil spill and soil 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.	All necessary measures are taken to prevent fire, oil spill and to keep gaseous emissions to minimum. Soft Bioremediation is done as and when required.

Sl. No.	Specific Condition	Remarks
xiv.	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.	This is not a H2S prone area.  Also SCBA (Self-contained breathing apparatus) available at Rig.
xv.	Emergency Response Plan (ERP) shall be based on the guidelines prepared by OISD, DGMS and Govt. of India.	Prepared (ERP) based on the guidelines by OMR, OISD and other Govt of India.
xvi.	All the commitments made to the public during public hearing/public consultation meeting held on 21.10.2016 for Golaghat district shall be satisfactorily implemented and adequate budget provision shall be made accordingly.	Complied
xvii.	At least 2.5% of the total cost of the project shall be earmarked towards the Enterprise Social Commitment based on Public hearing Issues, locals need and item-wise details along with bound action plan shall be prepared and submitted to the Ministry's Regional Office. Implementation of such program shall be ensured accordingly in a time bound manner.	Complied
xviii.	Occupational health surveillance of the workers shall be carried out as per the prevailing Acts and Rules.	Complied. PME being carried out as per company guidelines/policy
xix.	Restoration of the project site shall be carried out satisfactorily and report shall be sent to the Ministry's Regional Office.	O.K
xx.	Oil content in the drill cutting shall be monitored by some Authorized agency and report shall be sent to the Ministry's Regional Office.	Oil content in drill cutting are tested at RGL ONGC, Sivasagar.
xxi.	Company shall have own Environment Management Cell having qualified persons with proper background.	YES.
xxii.	Company shall prepare operating manual in respect of all activities. It shall cover all safety & environment related issues and system. 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. Remote monitoring of site should be done.	All rigs are ISO certified. QHSE Management manual is available with rig for Quality, Environment and OHASAS. Company has prepared operating manual for all activities like safety and environment related issues and measures taken up for the protection.

Sl. No.	Specific Condition	Remarks
xxiii.	On completion of drilling, the company has to plug the drill wells safely and obtained certificates from environment safety angle from the concerned authority.	In case of abandonment of drill site (if well is dry), DS place the cement plug and for safety well mouth is covered with plate by welding.

#### B.GENERAL CONDITIONS

S. No.	General Conditions	Remarks
i	The project authorities must strictly adhere to stipulations made by State Pollution Control Board (SPCB), State Government and any other statutory authority.	The stipulation made by the PCBA and State Govt. are followed.
ii	No further expansion and modifications in the plant shall be carried out without prior approval of Ministry of Environment and Forests. In case deviations and alterations in the project proposal from those submitted to this Ministry for clearance, a fresh clearance 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 and modification is done.
iii	The location of ambient air quality monitoring shall be decided in consultation with the state Pollution Control Board (SPCB) and it shall be ensured that at least one stations is installed in upwind and downwind direction as well as where maximum ground level concentrations are anticipated.	Ambient air monitoring analysis is carried out by an Outside Agency, The Values of Ambient air set in the areas (indicated) are within permissible limit. Report attached.
iv	The National Ambient Air Quality Emission Standards issued by the Ministry vide G>S>R No.826 (E) dated 16 <sup>th</sup> November, 2009 shall be followed.	YES.
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, silencer etc. on all source of noise generation. The ambient noise level shall conform to the standards prescribed under Environment(Protection) Act,1986 Rules,1989 viz.75 dBA(day time) and 70dBA(night time).	All DG sets are fitted with Acoustic Enclosures. The ambient noise values are well within stipulated guidelines. Report is attached.

S. No.	General Conditions	Remarks
vi	The Company shall harvest rainwater from the roof tops of the building and storm water drains to recharge the ground water and use the same water for the process activities of the project to conserve fresh water.	Not applicable as the temporary bunk house having slanting roof is made at site for 2-3 month.
vii	Training shall be imparted to all employees on safety and health aspects of chemical handling. Pre-employment and routine periodical medical examinations for all employees shall undertake on regular basis .Training to all employees on handling of chemicals shall be imparted.	Training have been given to all employees on safety, health aspects of chemical handling and routine checkup (PME) for all employees on regular basis.
viii	The company shall also comply with all the environmental protection measures and safeguards proposed in the documents submitted to the Ministry. All the recommendations made in EIA/EMP in respect of environmental management, risk mitigation measures and public hearing relation to the project shall be implemented.	Complied.
ix	The company shall undertake all relevant measure for improving the socioeconomic conditions of the surrounding area .CSR activities shall be undertaken by involving local villages and administration.	The company has undertaken all relevant measure and improving the social economic conditions of the surrounding area and also done the CSR activities by involving local village and administration.
x.	The company shall undertake eco-development measures including community welfare measures in the project are for the overall improvement of the environment.	Plantation and CSR activities in the project area is being done regularly.
xi	A separate Environment Management Cell equipped with full-fledged laboratory facility shall be set up to carry out the Environmental Management and Monitoring functions.	Monitoring function are out source to private agency.
xii	The company shall earmark sufficient funds towards capital cost and recurring cost per annum to implement the conditions stipulated by the Ministry of Environment and Forest as well as the State Government along with the Environment and Forest 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.	The approximate cost of the well is Rs. 40.00 crore. The capital cost and recurring cost is included in the cost of the well.

S. No.	General Conditions	Remarks
xiii	A copy of the clearance letter shall be sent by project proponent to concerned Panchayat, Zila Parisad /Municipal Corporation, Urban local body and the local NGO,if any ,from whom suggestions/representations, if anywhere received while processing the proposal.	Complied. Published in two local newspaper.
xiv	The project proponent shall also submit six monthly reports on the status of compliance of the stipulated Environmental Clearance conditions including result of monitored data (both in hard copies as well as by e-mail) to the respective Zonal Office of CPCB and concerned SPCB.A copy of Environmental Clearance and six monthly compliance status report shall be posted on the website of the company.	OK.
xv	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, along with the status of compliance of environmental clearance conditions and shall also be sent to the respective Regional Offices of MoEFCC by e-mail.	Environmental statement in Form-V reports being submitted regularly to state pollution control board.
xvi	The project proponent shall inform the public that project has been accorded environmental clearance by Ministry and copies of the clearance letter are available with the SPCB/committee and may also be seen at website of Ministry at <a href="http://moef.nic.in">http://moef.nic.in</a> .This shall be advertise 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 newspaper.



S. No.	General Conditions	Remarks
xvii	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.	<p>Location well# DPAD  Spud date:31.05.2019  HT Date:16.07.2019  Rig release date:25.09.2019</p> <p>Location well# KHBH  Spud date:21.10.2019  Status: Under drilling</p> <p>Location well# URAA  Spud date:22.11.2019  Status: Under drilling</p>

**SIX MONTHLY COMPLIANCE REPORT FOR ENVIRONMENT CLEARANCE  
(As on 1<sup>st</sup> December' 2019)**

1	Name of the project:-	<b>Exploratory drilling of 30 wells in PEL/ML Blocks of South Assam Shelf Block</b>
2	Location of project/ address:-	Tarani Village ,Borholla,Titabor Revenue Circle District: Jorhat & Golaghat.
3	Letter No. & date of Environment Clearance granted by MOEF:-	EC. No.:J11011/147/2008-IAII(I) Ext. date :07.07.2017
5	Present Status of project:-	Well#MRAL-Oil bearing.

**A. SPECIFIC CONDITIONS**

Sl. No.	Specific Condition	Remarks
i.	Compensation for the land acquisition to the land oustees (if any) and for standing crop shall be paid as per the National Resettlement and Rehabilitation Policy (NRRP) 2007/State Government norms. It may be ensure that compensation provided shall not be less than the norms of the NRRP 2007.	The action has been taken as per norms of State Government
ii.	The company shall obtain forest clearance under Forests Conservation Act 1980 for the sites located within the forest area.	Location does not fall in forest area.
iii.	The company shall obtain permission to establish under Air and water acts from State \pollution Control \board for each well and copy submitted to Ministry's Regional Office at Shillong.	CTE obtained and attached.
iv.	The company shall inform the details of the each drill site to Ministry's Regional Office at Shillong.	Well name#MRAL Spud date:21.06.2019 HT date:13.08.2019 Rig release date:25.09.2019
v.	The company shall make the arrangement for control of noise from the drilling activity and from DG sets.	All DG sets are provided with acoustic enclosures. Moreover ear muffs and ear plugs are provided for the employees working near the DG sets. Noise report attached.
vi.	The company shall comply with the guidelines of disposal of solid waste; drill cutting and drilling fluids for onshore drilling operation vide GSR.546 (E) dated 30 August 2005	Provisions for disposal pits with impervious lining for drill cuttings and waste water under applicable norms of MOEF&CC made at drill site.

