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OIL AND NATURAL GAS CORPORATION LTD

Mehsana Asset,

KDM Bhawan, Palavasana
Mehsana-384003, Gujarat, India
Fax No. 0091 2762-225705

File Ref: NO. MHN/HSE/EC-Drlg/2011-12 ¹⁵⁰¹/_{12/10}

Date: 18-10-2011

To:

The Chief Conservator of Forests (Western Zone), Ministry of Environment & Forests, Regional Office, E-5, Arera Colony, Link Road -3, Bhopal-462 016, M.P.

Sub: Six monthly compliance to Environmental clearance (EC) for Development drilling of 157 Nos. of development wells in Mehsana Assets.

Ref : EC No. F. No. J-11011/106212007-IA II (I), dated 01/04/2009 (Copy enclosed)

Sir

Reference is invited to the above Environment Clearance (EC) for Development drilling of 157 Nos. of wells to be drilled / already drilled from 2007- 2011 at ML area.

Environment clearance has been given by Ministry of Environment and Forest to the above project under provisions of EIA notification, 2006.

Accordingly item wise compliance report has been listed below for the period ending 30th Sept. 2011.

A. SPECIFIC CONDITIONS:

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i	The company shall pay compensation for acquisition of private land as per the Central Government/State Government norms. The compensation to be paid to the land loser shall not be less than the norms/package as per the Policy on National Resettlement and Rehabilitation Rules, 2007.	ONGC pays compensation for acquisition of private land as per central/ state Government norms. The compensation as per the policy on National Resettlement and Rehabilitation Rules, 2007 is not applicable to ONGC
ii	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 30 th August, 2005.	Impervious lining pits are being provided for collecting drill cuttings & waste water.
iii	The surface facilities shall be installed as per applicable codes and standards, international practices and applicable local regulations.	Surface facilities prepared as per applicable Code/ Standard.
iv	The top soil removed shall be stacked separately for reuse during restoration process.	At the stage of final handing over of the land. The restoration shall be followed as per the guide line.
v	Monitoring of HC concentration in the ambient air and non-methanated HC shall be undertaken and	Monitoring of HC concentration in the ambient air and non-

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	data submitted to the Ministry and State Pollution Control Board.	methanated HC carried out and parameters are within permissible limits.
vi	Drilling waste water including drill cuttings wash water shall be collected in disposal pit lined with HDPE lining evaporated or treated and shall comply with the notified standards for onshore disposal. The membership of common TSDF shall be obtained for the disposal of drill cuttings and hazardous waste. Otherwise secured land fill shall be created at the site with the Authorization of the State Pollution Control Board. The design of the secured shall be approved by the State Pollution Control Board.	Drilling waste water including drill cuttings wash water is collected in disposal pit lined with impervious lining. The waste water/ drill cuttings are tested/ analyzed to ascertain the quality and accordingly action is taken for disposal i.e. evaporation/ treatment. Toxicity parameters of mud additives and drill cutting have been found within permissible limits.
vii	The recyclable waste (oily sludge) and spent oil shall be disposed to the authorized recyclers.	Spent oil is being sent to authorized recyclers through MSTC Baroda.
viii	Only water based drilling mud shall be used. The drilling mud shall be recycled; In case of use of synthetic oil based mud due to any problem due to geological formation for drilling, low toxicity, Oil Based Mud (DBM) having aromatic content < 1 % shall be used. If it is intended to use such OBM/SBM to mitigate specific hole problem, it should be intimated to Ministry of Environment and Forests/ State Pollution Control Board.	Only water based mud system is being used.
ix	Quantities of storage and chemicals and additives required for drilling mud preparation shall be below the specified threshold for specified storage permitted under the MSIHC Rules.	Chemicals at drill site are received on day to day basis of operational needs for which adequate storage capacity as per rule is at site.
x	Pre hire rig inspection, safety meetings, tool box meeting, job safety analysis and audits shall be carried out to identify hidden /potential hazardous.	Pre spud meeting is being carried out before starting the drilling operation to review safety related aspects. Risk assessment has been carried out to identify hidden/ potential hazards. Pre hire rig inspections have been carried out by third party at charter hire rigs.
xi	The Company shall take necessary measures to prevent fire hazards, containing oil spill and soil remediation as needed. At place of ground flaring, the overhead flaring stack with knockout drums shall be installed to minimize gaseous emissions during flaring.	ONGC has corporate Disaster Management Plan (DMP), Asset 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.
xii	The Company shall take necessary measures to reduce noise levels at the drill site by providing mitigation measures such as proper acoustic	Noise levels are within permissible limits.

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	enclosures to the DG set and meet the norms notified by the MoEF. Height of all the stacks/vents shall be provided as per the CPCB guidelines.	
xiii	To prevent fire and explosion at Oil and Gas facility, potential ignition sources should be kept to a minimum and adequate separation distance between potential ignition sources and flammable material should be in place.	Complied.
xiv	The company shall develop a contingency plan for H ₂ S release including all necessary aspects from evacuation to resumption of normal operations. The workers should be provided with personal H ₂ S detectors in locations of high risk of exposure along with self containing breathing apparatus.	Emergency Response Plan for H ₂ S release is available. H ₂ S detectors are available at drilling rigs.
xv	To prevent well blowouts during drilling operations, Blow Out Preventor (BOP) system shall be installed. Blow Out Prevention measures during drilling shall focus on maintaining well bore hydrostatic pressure by proper pre-well planning and drilling fluid logging etc.	Being Complied.
xvi	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 to near 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.	It is being followed
xvii	Provision shall be made for the housing for the construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile sewage treatment plant, safe drinking water, medical health care, crèche etc. The housing may be in the form of temporary structure to be removed after the completion of the project. All the construction wastes shall be managed so that there is no impact on the surrounding environment.	Drill site construction job is minor in nature and local labour is engaged for 10 to 15 days for above job and the job is done during day hours only.
xviii	Occupational health surveillance of the workers shall be carried out as per the prevailing Acts and Rules.	OH surveillance is In practice as per corporate policy.

B: GENERAL CONDITIONS:

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i	The project authorities must strictly adhere to the stipulations made by the Gujarat Pollution Control Board and the State Government.	Done
ii	No further expansion or modification in the project shall be carried out without prior approval of the	Noted

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	Ministry of Environment & Forests. In case of deviations or alterations in the project proposal from those submitted to this Ministry for clearance, a fresh reference shall be made to the Ministry to assess the adequacy of conditions imposed and to add additional environmental protection measures required, if any.	
iii	The emissions of (RSPM, SPM, SO ₂ , NO _x , HC & VOC) from DG Set and from flare stack shall conform to the standards prescribed by the SPCs. Regular monitoring of Ambient Air for HC and VOC shall be carried out as per CPCB guidelines. Stack height attached to DG sets shall be in-conformance with the environment protection acts and rules.	Stack gas emission monitoring of all DG sets/ Engines and ambient air monitoring have been carried out & all the parameters are under permissible limits.
iv	The project authorities must strictly comply with the rules and regulations under Manufacture, Storage and Import of Hazardous chemicals Rules, 1989 as amended subsequently. Prior approvals from Chief Inspectorate of Factories, Chief Controller of Explosives, Fire Safety Inspectorate etc. must be obtained, wherever applicable.	Not applicable
v.	The project authorities must strictly comply with the rules and regulation with regard to handling and disposal of Hazardous Wastes (Management, Handling and Trans Boundary Movement) Rules, 1989/ 2003 / 2008 wherever applicable. Authorization form the State Pollution Control Board must be obtained for collections/treatment/storage/disposal of hazardous wastes.	Drill cutting, waste water is collected & stored in impervious lined pits. Spent Oil is being disposed through MSTC. The waste water is tested/ analysed to ascertain the quality and accordingly action is taken for disposal i.e. evaporation/ treatment.
vi.	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 EPA Rules, 1989 viz. 75 dBA (daytime) and 70 dBA (nighttime).	Being followed.
vii.	A separate Environmental Management Cell equipped with full fledged laboratory facilities must be set up to carry out the environmental management and monitoring functions.	Lab Services are hired at present.
viii.	The project authorities will provide adequate funds both recurring and non-recurring to implement the conditions stipulated by the Ministry of Environment and Forests as, well as the State Government along with the implementation' schedule for all the conditions stipulated herein. The funds so provided shall not be diverted for any other purposes.	IN PRACTICE
ix.	The project proponent shall also submit six monthly reports on the status of compliance of the stipulated E C conditions including results of monitored data (both in hard copies as well as by e-mail) to the	Noted

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	respective Regional Office of MoEF, the respective Zonal Office of CPCB and the State Pollution Control Board. The Regional Office of this Ministry at Bhopal/Central Pollution Control Board/State Pollution. Control Board shall monitor the stipulated conditions.	
xi.	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 State Pollution Control Board/ Committee and may also be seen at Website of the Ministry and Forests at http://www.envfor.nic.in . This shall be advertised within seven days of the issue of this letter in at least two local newspapers that are widely circulated in the region of which one shall be in the vernacular language of the locality concerned.	General public was informed by an advertisement on "Indian express" and "Jansatta" dated 22/05/09 (copy of press clipping enclosed)
xii	The Project Authorities shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities and the date of commencing the land development work.	Noted, shall be followed.

Thanking you

Yours faithfully

SS Patidar
18.10.11

(Dr. S S Patidar.)

Chief Chemist, Head- HSE

C C: Chief HSE , ONGC, New Delhi

Copy for kind information to: 1. ED -- AM
2. GM -- SSM
3. GM - HDS

o/c *[Signature]*
18/10/11