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No.: ONG/AST/HSE/EC/2021-22

Date: 27.05.2021

To: Deputy Director General of Forest (Central),
Ministry of Environment, Forest & Climate Change,
Regional Office, Western Region,
Kendriya Paryavaran Bhavan,
Link Road No.-3,
Bhopal 462016

Sub: Six Monthly compliance to Environment Clearance (EC)

Ref.: EC Letter. No. J-11011/339/2016-IA-II (I) dated 22.04.2021

Sir,

This is with respect to referred Environment Clearance letter regarding "Development drilling of four wells by M/s Oil and Natural Gas Corporation Limited under the NELP V offshore Block CB-OSN-2003/1 at Aliabet Field, Ankleshwar Asset (Gujarat)".

Six monthly compliance status (for period 01.11.2020-30.04.2021) w.r.t. various stipulations with supporting documents is attached herewith.

With Regards,

Rajesh V.S.
27/05/21

(V. S. Rajesh)
GGM- Head HSE,
ONGC Ankleshwar Asset

**Compliance of Conditions in Environmental Clearance
(Compliance Report)
Env. Clearance No. J-11011/339/2016-IA-II(I)**

Sl. No.	Specific Conditions	Compliance Status as on 30.04.2021
i.	Conditions stipulated by the GCZMA shall be satisfactorily implemented.	Complied.
ii.	No drilling shall be carried out in Protected Areas.	Complied. No (Drilling) activity has been started under this Environmental Clearance so far due to techno-economic reasons.
iii.	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.	Consent to Establish (CTE) for drilling of four wells has been obtained from Gujarat Pollution Control Board (GPCB) as per Water Act, 1974 and Air Act, 1981. Details of CTE are as follows: 1. GPCB CTE No. 95046 dated 07.09.2018 2. GPCB CTE No. 96122 dated 22.10.2018 3. GPCB CTE No. 96109 dated 22.10.2018 4. GPCB CTE No. 96089 dated 22.10.2018
iv.	As proposed by the project proponent, Zero Liquid Discharge shall be ensured and no waste / treated water shall be discharged to any surface water body, sea and / or on land. Mobile ETP along with RO plant shall be installed to treat the waste water.	Drilling activity has not been started so far due to techno-economic reasons. However, condition will be followed during drilling activity.
v.	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.	Drilling activity has not been started so far due to techno-economic reasons. However, condition will be followed during drilling activity.
vi.	Necessary authorizations required under the Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016, Solid Waste Management Rules, 2016 shall be obtained and the provisions contained in the Rules shall be strictly adhered to.	Drilling activity has not been started so far due to techno-economic reasons. However, condition will be followed during drilling activity.
vii.	Ambient air quality shall be monitored at the nearest human settlement 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, SO2, NOX, CO, CH4, HC, Non-methane HC etc.	Drilling activity has not been started so far due to techno-economic reasons. However, condition will be followed during drilling activity.
viii.	During exploration, production, storage and handling, the fugitive emission of methane, if any, shall be monitored using Infra-red camera /appropriate technology.	Drilling activity has not been started so far due to techno-economic reasons. However, condition will be followed during drilling activity.
ix.	The project proponent also to ensure trapping / storing of the CO2 generated, if any, during the process and handling.	Drilling activity has not been started so far due to techno-economic reasons. However, condition will be followed during drilling activity.
x.	Approach road shall be made pucca to minimize generation of suspended dust.	Drilling activity has not been started so far due to techno-economic reasons. However, condition will be followed during drilling activity.

xi.	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.	Drilling activity has not been started so far due to techno-economic reasons. However, condition will be followed during drilling activity.
xii.	Total fresh water requirement shall not exceed 25 cum/day proposed to be met tanker supply, and prior permission shall be obtained from the concerned regulatory authority.	Drilling activity has not been started so far due to techno-economic reasons. However, condition will be followed during drilling activity.
xiii.	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.	Drilling activity has not been started so far due to techno-economic reasons. However, condition will be followed during drilling activity.
xiv.	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.	Drilling activity has not been started so far due to techno-economic reasons. However, condition will be followed during drilling activity.
xv.	Water requirement for onshore drilling is permitted to the tune of 25 M3 per day per well. PP to install Mobile ETP coupled with RO to reuse the treated water in drilling system. Size of the waste shall be equal to the Hole volume + volume of drill cutting and volume of discarded mud if any. Two feet free board may be left to accommodate rain water. There shall be separate storm water channel and rain water shall not be allowed to mix with waste water. Alternatively, if possible pit less drilling be practiced instead of above.	Drilling activity has not been started so far due to techno-economic reasons. However, condition will be followed during drilling activity.
xvi.	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 authorized recyclers.	Drilling activity has not been started so far due to techno-economic reasons. However, condition will be followed during drilling activity.
xvii.	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 operations.	Drilling activity has not been started so far due to techno-economic reasons. However, condition will be followed during drilling activity.

xviii.	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 exposure along with self containing breathing apparatus.	Drilling activity has not been started so far due to techno-economic reasons. However, condition will be followed during drilling activity.
xix.	The company shall carry out long term subsidence study by collecting base line data before initiating drilling operation till the project lasts. The data so collected shall be submitted six monthly to the Ministry and Regional Office.	In order to study occurrence of Land Subsidence due to exploration of oil and gas, DGH had conducted study through Central Mining Research Institute (during 2004-06), to assess the land subsidence in a gas field (Cambay Basin) in Gujarat. It was concluded that only few seasonal local minor negligible level changes were detected in the area under study, indicating overall the area is stable.
xx.	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.	Drilling activity has not been started so far due to techno-economic reasons. However, condition will be followed during drilling activity.
xxi.	Emergency Response Plan shall be based on the guidelines prepared by OISD, DGMS and Govt. Of India.	Though drilling activity at Aliabet field has not been commenced, it is worth mentioning that ONGC has Site Specific Emergency Response Plan (ERP) and Disaster Management Plan (DMP) based on relevant emergency scenarios.
xxii.	On completion of the project, necessary measures shall be taken for safe plugging of wells with secured enclosures to restore the drilling site to the original condition. The same shall be confirmed by the concerned regulatory authority from Environmental Safety angle. In case of hydrocarbon not found economically viable, a full abandonment plan shall be implemented for the drilling site in accordance with applicable Indian Petroleum Regulations.	Drilling activity has not been started so far due to techno-economic reasons. However, condition will be followed during drilling activity.
xxiii.	At least 2% of the total project cost shall be allocated for Corporate Environment Responsibility (CER) and item-wise details along with time bound action plan shall be prepared and submitted to the Ministry's Regional Office.	2% of average net profit of ONGC is earmarked for CSR (Corporate Social Responsibility) projects which include components of health, education, water, solar lights, ecological development in and around operational area, as directed by GOI.
xxiv.	No lead acid batteries shall be utilized in project / site.	Drilling activity has not been started so far due to techno-economic reasons. However, condition will be followed during drilling activity.

xxv.	Occupational health surveillance of the workers shall be carried out as per prevailing Acts and Rules.	At ONGC PME of all employees is carried out periodically as per Company Policy and guidelines issued by DGMS.
xxvi.	Oil content in drill cuttings shall be monitored by some Authorised agency and report shall be sent to the Ministry's Regional Office.	Drilling activity has not been started so far due to techno-economic reasons. However, condition will be followed during drilling activity.
xxvii.	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 drill 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.	Drilling activity has not been started so far due to techno-economic reasons. However, condition will be followed during drilling activity.
B. General Conditions		
(i)	The project proponent shall obtain all other statutory / necessary permissions/ recommendations/ NOCs prior to start of construction / operation of the project, which inter alia include, permission / approvals under the Forest (Conservation) Act, 1980; the Wildlife (Protection) Act, 1972; the Coastal Regulation Zone Notification, 2019, as amended from time to time, and other Office Memoranda / Circular issued by the Ministry of Environment, Forest and Climate Change from time to time, as applicable to the project.	As mentioned at specific condition no. (iii), Consent to Establish (CTE) for drilling of four wells has been obtained from Gujarat Pollution Control Board (GPCB) under Water Act, 1974 and Air Act, 1981. GCZMA had recommended for CRZ approval, based on which CRZ approval has been received along with EC. As there is no Reserve Forest / Wildlife Sanctuary falls in the project area, hence requirement of prior Wildlife clearance is not applicable.
(ii)	The project proponent shall ensure compliance of 'National Emission Standards', as applicable to the project, issued by the Ministry from time to time. The project proponent shall also abide by the rules / regulations issued by the CPCB / SPCB for control / abatement of pollution.	Drilling activity has not been started so far due to techno-economic reasons. However, condition will be followed during drilling activity.
(iii)	The project authorities shall adhere to the stipulations made by the state Pollution Control Board / Committee, Central Pollution Control Board, State Government and any other Statutory Authority.	Consent to Establish (CTE) for development drilling is obtained from Gujarat Pollution Control Board prior to commencement of drilling and conditions stipulated in CTE will be complied with during drilling activity.
(iv)	The project proponent shall make a site specific conservation plan and wildlife management plan in case of presence of Schedule-I species in the study area, as applicable to the project, and submit to Chief Wildlife Warden for approval. The recommendations shall be implemented in consultation with the State Forest / Wildlife Department in a time bound manner.	Presence of any Schedule-I Wildlife species has not been encountered during EIA study at project site.

(v)	No further expansion or modification in the plant, other than mentioned in the EIA Notification, 2006 and its amendments, shall be carried out prior to approval of the Ministry of Environment, Forest and Climate Change. In case of deviations or alterations in the project proposal from those submitted to the Ministry for clearance, a fresh reference shall be made to the 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.	So far no expansion or modification in the project has been carried out. In future, if any expansion or modification in the project to be taken-up, the same will be intimated to MoEF&CC.
(vi)	The energy source for lighting purpose shall be preferably LED based, or advance having preference in energy conservation and environment betterment.	Drilling activity has not been started so far due to techno-economic reasons. However, condition will be followed during drilling activity.
(vii)	The locations of ambient air quality monitoring stations shall be decided in consultation with the State Pollution Control Board (SPCB) and it shall be ensured that at least one station each is installed in the upward and downward direction as well as where maximum ground level concentrations are anticipated.	Drilling activity has not been started so far due to techno-economic reasons. However, condition will be followed during drilling activity.
(viii)	The National Ambient Air Quality Emission Standards issued by the Ministry vide G.S.R. No. 826(E) dated 16th November, 2009 shall be followed.	Drilling activity has not been started so far due to techno-economic reasons. However, condition will be followed during drilling activity.
(ix)	The overall noise levels in and around the plant 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 Environment (Protection) Act, 1986 Rules, 1989 viz. 75 dBA (day time) and 70 dBA (night time).	Drilling activity has not been started so far due to techno-economic reasons. However, condition will be followed during drilling activity.
(x)	The company shall harvest rainwater from the roof tops of the buildings and storm water drains to recharge the ground water and to utilize the same for process requirements.	No permanent structure will be erected at this project site. However, it is worth mentioning that Rainwater harvesting structure has been constructed at Workshop complex of ONGC Ankleshwar and ONGC Ankleshwar residential township.
(xi)	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.	Regular safety and environment training is being provided to the employees by our various in-house training institutes like IPSHEM Goa, IDT and ONGC Academy at Dehradun and GVTC - Ankleshwar etc. Also at ONGC PME of all employees is carried out as per Company Policy and guidelines issued by DGMS.

(xii)	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 the EIA/EMP in respect of environmental management, and risk mitigation measures relating to the project shall be implemented.	A detailed Environment Management Plan has been outlined during EIA study. Recommendations made in the EIA/EMP in respect of environmental management, and risk mitigation measures relating to the project will be implemented during and after completion of drilling activity.
(xiii)	The company shall undertake all relevant measures for improving the socio-economic conditions of the surrounding area. CER activities shall be undertaken by involving local villages and administration and shall be implemented.	ONGC has been proactively contributing to the society through various CSR projects which includes areas such as Health, education, Women development, drinking water supply, solar lights, ecological development in and around operational area. Proposals of various stakeholders such residents, villagers, NGOs, Government departments, local representative bodies are also considered for expenditure under CSR. Details of expenditure made during 2020-21 under CSR is placed at A.
(xiv)	The company shall undertake eco-developmental measures including community welfare measures in the project area for the overall improvement of the environment.	Eco-developmental measures and Community welfare measures in the project area are carried out through CSR activities. Details of expenditure made during 2020-21 under CSR is placed at A.
(xv)	A separate Environmental Management Cell (having qualified person with Environmental Science / Environmental Engineering/ specialization in the project area) equipped with full fledged laboratory facilities shall be set up to carry out the Environmental Management and Monitoring functions.	A separate units of Environment Management exist at both Operational base level and Corporate level where qualified Environmental Engineering person have been posted. Full fledged laboratory facility is also available.
(xvi)	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.	Drilling activity has not been started so far due to techno-economic reasons. However, sufficient funds will be allocated towards capital cost and recurring cost towards EMP and EC conditions before commencing the drilling activity.
(xvii)	A copy of clearance letter shall be sent by the project proponent to concerned panchayat, Zilla Parishad / Municipal Corporation, Urban local body and the local NGO, if any, from whom suggestions/ presentations, if any, were received while processing the proposal.	The communication of the environmental clearance has been made to all the relevant stakeholders by way of publishing the same in the leading news papers. The EC is also posted on the Web Site of ONGC as well as communicated to concerned panchayat and local authorities.

(xviii)	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 email) 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.	Complied
(xix)	The environmental statements 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.	Drilling activity has not been started so far due to techno-economic reasons. However, condition will be followed during drilling activity.
(xx)	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 be also be seen at Website of the Ministry and at https://parivesh.nic.in/ . This shall be advertised within seven days from the date of issue of the clearance letter, at least in two local newspapers that are widely circulated in the region of which one shall be in the vernacular language of the locality concerned and a copy of the same shall be forwarded to the concerned Regional office of the Ministry.	Information regarding grant of EC for the project was passed on to all stake holders and the same was advertised in daily newspapers- 'Times of India' in English and 'Sandesh' in local vernacular language Gujarati on 29.04.2020. (Copy attached at SL. No. B)
(xxi)	The project authorities shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities and the date of start of the project.	Noted.
(xxii)	This Environmental clearance is granted subject to final outcome of Hon'ble Supreme Court of India, Hon'ble High Court, Hon'ble NGT and any other Court of Law, if any, as may be applicable to this project.	Noted.