



OIL AND NATURAL GAS CORPORATION LTD
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No.: ONGC/AST/HSE/EC/02/2023-24

Date: 18.12.2023

To: Deputy Director General of Forests (C),
Ministry of Environment, Forest and Climate Change,
Integrated Regional Office, Gandhi Nagar,
A-Wing – 407 & 409,
Aranya Bhawan,
Near CH-3 Circle, Sector-10A,
Gandhi Nagar – 382010

Sub: Six Monthly compliance of Environment Clearance (EC)

Ref.: EC Letter. No. J-11011/227/2017-IA-II(I) dated 06.03.2019

Sir,

This is with respect to referred Environment Clearance letter regarding “Development and production of Oil / Gas from Uber-2 well by M/s Oil and Natural Gas Corporation Ltd. at Jambusar (Gujarat)”.

Six monthly compliance status (for period 01.04.2023-30.09.2023) w.r.t. various stipulations with supporting documents is attached herewith.

With Regards,


19.12.2023

K. Deshrui CE(P)
Officiating Head HSE
ONGC Ankleshwar Asset

Descriptive Report on Status of Compliance for the period of 01.04.2023 to 30.09.2023 on conditions of Environmental Clearance and Environmental Management

EC: F. No. J-11011/227/2017-IA-II(I) dated 06.03.2019

Name of Well – Uber-II (UBAC)

	EC Condition	Compliance Status
	Specific Conditions	
a	Consent to Establish / Operate for the project shall be obtained from the state pollution Control Board as required under Air (Prevention and Control of Pollution) Act, 1981 and the Water (Prevention and Control of Pollution) Act, 1974.	Well Uber-II (UBAC) was drilled in 2011-12 by Drilling Rig - SVUL-2000-4. It was drilled under earlier EC for Exploratory Drilling (EC No. J-11011/390/2007-IA II(I) dated 14.11.2008). As per the specific condition No. XVII of above referred EC ONGC needed to seek fresh EC for flowing of well if hydrocarbon presence is established during exploratory drilling. Hydrocarbon presence was established in exploratory well Uber-II well drilled in 2011-12. And as per EC condition, fresh EC was again obtained in 2019 for exploiting hydrocarbon discovery from already drilled well 'Uber-II' (one well only). Therefore, present EC for Uber-II well (EC no. F. No. J-11011/227/2017-IA-II(I) dated 06.03.2009) was sought for exploiting production from already existing Uber-II well; and no fresh activity is envisaged in present EC. Apart from it, all the oil and gas processing installations wherein the oil and gas produced during exploratory and development drilling is processed are operating under consolidated consent and authorisation (CCA) granted by GPCB. Production from well# Uber-II has been taken to GGS Jambusar which is having adequate capacity to process added production. No modifications or changes in production infrastructure are envisaged at GGS Jambusar due to the same. GGS Jambusar has been accorded CCA by GPCB. ONGC, Ankleshwar is strictly adhering to the stipulations made by the Gujarat Pollution Control Board.
b	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	No fresh activity is envisaged under present EC. As mentioned above, present EC for Uber-II well is sought only for exploiting production from already existing well (drilled in 2011-12 under Exploratory EC No. J-11011/390/2007-IA II(I) dated 14.11.2008). Therefore, no liquid will be discharged to sea and / or on land.
c	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.	No fresh activity is envisaged under present EC. As mentioned above, present EC for Uber-II well is sought only for exploiting production from already existing well (drilled in 2011-12 under Exploratory EC No. J-11011/390/2007-IA II(I) dated 14.11.2008). Therefore, emissions control measures are not required.

	EC Condition	Compliance Status
d	Necessary authorisation 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.	No fresh activity is envisaged under present EC. Present EC for Uber-II well is sought only for exploiting production from already existing well (drilled in 2011-12 under Exploratory EC No. J-11011/390/2007-IA II(I) dated 14.11.2008). Therefore, Hazardous waste will not be generated at Uber-II well site.
e	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, PM2.5, SO2, NOx, CO, CH4, HC, Non-methane HC etc.	No fresh drilling activity is envisaged in present EC; therefore it will not result in any air pollution. Ambient air reports for GGS-Jambusar are attached. The parameters are well within limits. (Annexure-1)
f	During exploration, production, storage and handling, the fugitive emission of Methane, if any, shall be monitored using Infra-Red camera / appropriate technology.	No fresh activity is envisaged under present EC. Present EC for Uber-II well is sought only for exploiting production from already existing well (drilled in 2011-12 under Exploratory EC No. J-11011/390/2007-IA II(I) dated 14.11.2008).
g	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.	As no fresh drilling activity will be carried out, noise pollution will not occur.
h	Garland drain shall be constructed all around the drilling site to prevent ingress 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.	No fresh drilling activity is sought in present EC. Therefore, no effluent will be generated at wellsite Uber-II.

	EC Condition	Compliance Status
i	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 cuttings and drilling fluids for onshore drilling operation notified vide GSR. 546(E) dated 30th August 2005.	No fresh activity is envisaged under present EC. Present EC for Uber-II well is sought only for exploiting production from already drilled well (drilled in 2011-12 under Exploratory EC No. J-11011/390/2007-IA II (I) dated 14.11.2008).
j	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 authorised recyclers.	In case of oil spill and contamination of soil thereof, ONGC is equipped with the Oil-zapper technology to address such eventualities. It is notable that oil-zapper is a bioremediation technology developed by a subsidiary company of ONGC, M/s ONGC Teri Biotech Ltd. which is being used across oil industry.
k	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 minimise gaseous emissions during operation.	No drilling or additional process activity is envisaged in present EC. However, at ONGC Ankleshwar each drilling rig has fixed fire fighting system and portable extinguishers in accordance to OISD 189. All personnel posted at drill site are trained in fire fighting. Hot jobs are controlled through a permit system i.e., Hot Work Permit System. All the quantity of gas coming across testing is flared through elevated flare equipped with separator and knock out drum. No ground flaring is resorted to.
l	The company shall develop a contingency plan of H ₂ S release including all necessary aspects from evacuation to resumption of normal operations. The workers shall be provided with personal H ₂ S detectors in locations of high risk of exposure along with self containing breathing apparatus.	No drilling or additional process activity is envisaged in present EC. It is pertinent to mention that H ₂ S is not encountered during drilling operations in oil fields of Bharuch district.

	EC Condition	Compliance Status
m	The company shall carry out long term subsidence study by collecting base line data before initiating drilling operation till the project lasts. The data shall be submitted six monthly to the Ministry and Regional office.	No fresh activity is envisaged under present EC. Present EC for Uber-II well is sought only for exploiting production from already existing well (drilled in 2011-12 under Exploratory EC No. J-11011/390/2007-IA II(I) dated 14.11.2008).
n	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.	No fresh activity is envisaged under present EC. Present EC for Uber-II well is sought only for exploiting production from already existing well (drilled in 2011-12 under Exploratory EC No. J-11011/390/2007-IA II(I) dated 14.11.2008). [However, it is worth mentioning that as a routine practice at ONGC Ankleshwar, appropriate Blow Out Preventer (BOP) systems having a set of Annular and RAM BOPs is installed to prevent well blowouts during drilling operations. Function test of BOPs are carried out frequently and care is taken to maintain proper hydrostatic pressure in the well bore during drilling, logging and other well operations by maintaining mud weight.]
o	Emergency Response Plan shall be based on the guidelines prepared by OISD, DGMS and Govt. Of India.	ONGC Ankleshwar has Site specific Emergency Response Plan (ERP) and Disaster Management Plan (DMP) for Asset based on potential hazards (Copy enclosed at Annexure-2). These documents are prepared as per guidelines of OISD, DGMS and Govt. of India.
p	After completion of drilling operations, the company shall take adequate measures for plugging of wells, decommissioning of rig upon abandonment of the well, and drilling site shall be restored to the original condition and the report in this regard shall be submitted to the Ministry's Regional Office. In case of no economical prospecting of Hydrocarbon, complete abandonment plan shall be implemented in accordance with the applicable Indian Petroleum Regulations.	Presence of hydrocarbon has been established in Uber-II well. It will be abandoned and well site will be restored to original condition only after it ceases to produce hydrocarbons.
q	All the commitments made during public hearing/ consultation shall be satisfactorily implemented.	Commitments made during public hearing are fulfilled.

	EC Condition	Compliance Status
r	At least 0.5% of the total project cost shall be allocated for the 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 includes components of Corporate Environment Responsibility such as Energy efficiency, health, education, Women development, water, solar lights and ecological development in and around operational area as directed by GoI. Expenditure made in Jambusar block (operational area surrounding Uber-II) during 2023-24 under CSR is placed at Annexure-3. Funds for CER have been allocated and expenditure towards the same is being carried out. (Annexure-4)
s	Occupational health surveillance of the workers shall be carried out as per the prevailing Acts and Rules.	Periodical Medical Examination (PME) of employees is carried out as per PME policy of ONGC. Dedicated occupational health centre and Emergency health centre are also available at ONGC Ankleshwar.
t	Oil contents in the drill cuttings shall be monitored by some authorized agency and report shall be sent to the Ministry's Regional Office.	No fresh activity is envisaged under present EC. Present EC for Uber-II well is sought only for exploiting production from already existing well (drilled in 2011-12 under Exploratory EC No. J-11011/390/2007-IA II(I) dated 14.11.2008). Hydrocarbons reserve with economic viability has been established at Uber-II well.
u	The 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.	Standard Operating procedures for drilling operations covering safety and environmental aspects of operations and management thereof, has been made available at all drilling rigs. Statutory provisions related to Environment and Safety domain have been incorporated in ISO certification through a site specific Legal Register. All the work centres at ONGC Ankleshwar are certified with ISO 14001:2015 i.e. Environment Management System and ISO 45001:2018 i.e. Occupational Health and Safety Management System.
Generic conditions:		
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.	ONGC, Ankleshwar is strictly adhering to the stipulations made by the Gujarat Pollution Control Board and the State Government. All the oil and gas processing installations wherein the oil and gas produced during exploratory and development drilling is processed are operating under consolidated consent and authorisation (CCA) from GPCB. Monthly and annual returns are filed online on XGN site as per the conditions stipulated in CCA

	EC Condition	Compliance Status
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 protections measures required, if any.	No expansion or modification in the project has been carried out. In future if any expansion and modification is planned, the stipulated condition shall be adhered to.
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.	No fresh activity is envisaged under present EC. Present EC for Uber-II well is sought only for exploiting production from already existing well (drilled in 2011-12 under Exploratory EC No. J-11011/390/2007-IA II(I) dated 14.11.2008).
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.	No fresh activity is envisaged under present EC. Present EC for Uber-II well is sought only for exploiting production from already existing well (drilled in 2011-12 under Exploratory EC No. J-11011/390/2007-IA II(I) dated 14.11.2008).
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 there under.	No fresh activity is envisaged under present EC. Present EC for Uber-II well is sought only for exploiting production from already existing well (drilled in 2011-12).

	EC Condition	Compliance Status
vi	The company shall harvest rainwater from roof tops of the buildings and storm water drains to recharge ground water and utilize the same for different operations within plant.	Rainwater harvesting is being incorporated in all the new buildings which are under construction or are being planned at ONGC Ankleshwar.
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.	Regular trainings on Safety and health aspects are imparted by ONGC training institutes like IPSHEM- Goa, IDT - Dehradun, ONGC Academy - Dehradun, Skill Development Centre - ONGC Vadodara. Also, a dedicated training center - 'Group Vocational Training Centre (GVTC)' for ONGC Ankleshwar is also equipped for providing training on these aspects to ONGC and contractual employees. Periodical Medical Examination (PME) of ONGC and Contractual employees is ensured.
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 Environment Management, risk Mitigation measures and public hearing shall be implemented.	All the recommendations made in the EIA/ EMP in respect of Environment Management, risk Mitigation measures and public hearing are being implemented.
ix	The company shall undertake all measures for improving socio-economic conditions of the surrounding area. CSR 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.	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 2023-24 under CSR is placed at Annexure-3.
x	A separate Environment Management cell equipped with full-fledged laboratory facilities shall be set up to carry out the Environment Management and Monitoring functions.	A separate Environment Management cell is functional under Head Environment at Corporate HSE, New Delhi. HSE set up at unit level are also having qualified safety & environment officers.

	EC Condition	Compliance Status
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.	Sufficient funds have been earmarked in annual budget towards capital cost and recurring cost per annum to implement the conditions stipulated with EC.
xii	A copy of the clearance letter shall be sent by the project proponent to the concerned Panchayat, Zila Parishad/ Municipal Corporation, Urban local Body and the local NGO, if any from whom suggestions / representations, if any, were received while processing the proposal.	The communication of the environmental clearance has been made to the mentioned stakeholders. Copy of covering letter is placed at Annexure-5.
xiii	The project proponent shall submit six monthly reports on the status of compliance of the Environmental Clearance conditions 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 website of the company.	Six monthly compliance of the stipulated environment clearance conditions is submitted to the Regional Office of the MOEF. A copy of Environmental Clearance and six monthly compliance status report is posted on ONGC website at the URL https://www.ongcindia.com/wps/wcm/connect/en/sustainability/environment/environment-clearance/ , and updated regularly.

	EC Condition	Compliance Status
xiv	The environmental statement for each financial year ending 31st March in Form-V as in 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.	After completion of drilling and if any oil and gas is produced from the well, it is subjected to the nearby production installation for processing and thus becomes part of that installation. All the installations at ONGC Ankleshwar are operating under valid Consolidated Consent and Authorisation granted by Gujarat Pollution Control Board (GPCB) and accordingly Environment Statement as per Form-V is submitted annually.
xv	The project proponent shall inform the public about receipt of environmental clearance, available with 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 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 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- ' <u>Times of India</u> ' in English and ' <u>Sandesh</u> ' in local vernacular language Gujarati on <u>20.09.2019</u> . Copy is placed at Annexure-6.