



OIL AND NATURAL GAS CORPORATION LTD
Asset HSE, Room No. 201, IInd Floor, New Building,
ONGC, Ankleshwar Asset, Ankleshwar, Gujarat – 393 010
Phone No: 02646-237837 / 237868
Fax No.: 02646-246936/237997

No.: ONG/AST/HSE/EC/2023-24

Date: 05.04.2023

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 to Environment Clearance (EC)

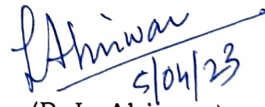
Ref.: EC Letter. No. J-11011/339/2016-IA-II (I) dated 22.04.2020

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 01.05.2022-31.10.2022) w.r.t. various stipulations with supporting documents is attached herewith.

With Regards,


(P. L. Ahirwar)
CGM – Head HSE,
ONGC Ankleshwar Asset

Compliance of Conditions in Environmental Clearance
(Compliance Report for 01.05.2022-31.10.2022)
Env. Clearance No. J-11011/339/2016-IA-II(I)

Sl. No.	Specific Conditions	Compliance Status
i.	Conditions stipulated by the GCZMA shall be satisfactorily implemented.	Complied.
ii.	No drilling shall be carried out in Protected Areas.	No (Drilling) activity has been carried out under this Environmental Clearance till 31.10.2022 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 Complied
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.	No (Drilling) activity has been carried out under this Environmental Clearance till 31.10.2022 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.	No (Drilling) activity has been carried out under this Environmental Clearance till 31.10.2022 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.	No (Drilling) activity has been carried out under this Environmental Clearance till 31.10.2022 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.	No (Drilling) activity has been carried out under this Environmental Clearance till 31.10.2022 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.	No (Drilling) activity has been carried out under this Environmental Clearance till 31.10.2022 due to techno-economic reasons.
ix.	The project proponent also to ensure trapping / storing of the CO2 generated, if any, during the process and handling.	No (Drilling) activity has been carried out under this Environmental Clearance till 31.10.2022 due to techno-economic reasons.
x.	Approach road shall be made pucca to minimize generation of suspended dust.	No (Drilling) activity has been carried out under this Environmental Clearance till 31.10.2022 due to techno-economic reasons. However, condition will be followed during drilling activity.

Sl. No.	Specific Conditions	Compliance Status
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.	No (Drilling) activity has been carried out under this Environmental Clearance till 31.10.2022 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.	No (Drilling) activity has been carried out under this Environmental Clearance till 31.10.2022 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.	No (Drilling) activity has been carried out under this Environmental Clearance till 31.10.2022 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.	No (Drilling) activity has been carried out under this Environmental Clearance till 31.10.2022 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.	No (Drilling) activity has been carried out under this Environmental Clearance till 31.10.2022 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 authorised recyclers.	No (Drilling) activity has been carried out under this Environmental Clearance till 31.10.2022 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.	No (Drilling) activity has been carried out under this Environmental Clearance till 31.10.2022 due to techno-economic reasons. However, condition will be followed during drilling activity.

Sl. No.	Specific Conditions	Compliance Status
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.	No (Drilling) activity has been carried out under this Environmental Clearance till 31.10.2022 due to techno-economic reasons. However, it is worth mentioning that H2S presence has not been encountered in Aliabet field in past.
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 montly 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.	No (Drilling) activity has been carried out under this Environmental Clearance till 31.10.2022 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 (till 31.10.2022), 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.	No (Drilling) activity has been carried out under this Environmental Clearance till 31.10.2022 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. Details of expenditure made during 2021-22 and 2022-23 under CSR in Bharuch district is placed at Annexure SI. No. A.
xxiv.	No lead acid batteries shall be utilized in project / site.	No (Drilling) activity has been carried out under this Environmental Clearance till 31.10.2022 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.

Sl. No.	Specific Conditions	Compliance Status
xxvi.	Oil content in drill cuttings shall be monitored by some Authorised agency and report shall be sent to the Ministry's Regional Office.	No (Drilling) activity has been carried out under this Environmental Clearance till 31.10.2022 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.	No (Drilling) activity has been carried out under this Environmental Clearance till 31.10.2022 due to techno-economic reasons. However, it is worth mentioning that all the drilling rigs of ONGC, Ankleshwar Asset are certified with ISO 9001:2015 for Quality Management System, ISO 14001:2015 i.e. Environment Management System and ISO 45001:2018 i.e. Occupational Health and Safety Management System. Operating manuals, Environment Aspect manual and other documentation are available at each drilling rigs.
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. Complied
(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.	No (Drilling) activity has been carried out under this Environmental Clearance till 31.10.2022 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.

Sl. No.	Specific Conditions	Compliance Status
(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.	No (Drilling) activity has been carried out under this Environmental Clearance till 31.10.2022 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.	No (Drilling) activity has been carried out under this Environmental Clearance till 31.10.2022 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.	No (Drilling) activity has been carried out under this Environmental Clearance till 31.10.2022 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 accoustic 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).	No (Drilling) activity has been carried out under this Environmental Clearance till 31.10.2022 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.

Sl. No.	Specific Conditions	Compliance Status
(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 2021-22 and 2022-23 under CSR is placed at Annexure Sl. No. 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 2021-22 and 2022-23 under CSR is placed at Annexure Sl. No. 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.	No (Drilling) activity has been carried out under this Environmental Clearance till 31.10.2022 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. Copy of intimation letters is placed at Annexure Sl. No. B.

Sl. No.	Specific Conditions	Compliance Status
(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.	No (Drilling) activity has been carried out under this Environmental Clearance till 31.10.2022 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. (Copies placed at Annexure SL. No. C)
(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.



OIL AND NATURAL GAS CORPORATION LTD
Office of Asset HSE, Shed No. 37, Old Office Complex,
ONGC, Ankleshwar Asset, Ankleshwar, Gujarat – 393 010
Phone No: 02646-237837
Fax No.: 02646-246936/237997

No.: ONG/AST/HSE/EC/2022-23

Date: 06.06.2022

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 22.04.2020

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 01.11.2022-30.04.2022) w.r.t.
various stipulations with supporting documents is attached herewith.

With Regards,

(Paritosh Jadhav)

CE (Env.) – Asset HSE Dept.,
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 01.05.2022
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.
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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.
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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. Rs. 2,13,298 have been spent on Drinking water supply work in Vagra Taluka in 2021-22.
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 prevailling 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 accoustic 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 exminations 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. Rs. 2,13,298 have been spent on Drinking water supply work in Vagra Taluka in 2021-22.
(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. Rs. 2,13,298 have been spent on Drinking water supply work in Vagra Taluka in 2021-22.
(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. A)
(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.



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ONGC, Ankleshwar Asset, Ankleshwar, Gujarat – 393 010
Phone No: 02646-237837 / 237868
Fax No.: 02646-246936/237997

No.: ONG/AST/HSE/EC/2023-24

Date: 05.04.2023

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 to Environment Clearance (EC)

Ref.: A. 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 01.04.2022-30.09.2022) w.r.t. various stipulations with supporting documents is attached herewith.

With Regards,

P. L. Ahirwar
5/4/23

(P. L. Ahirwar)
CGM – Head HSE,
ONGC Ankleshwar Asset

Descriptive Report on Status of Compliance for the period of 01.04.2022 to 30.09.2022 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 existing adequate capacity. 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.
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. Accoustic 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 Oilzapper technology to address such eventualities. It is notable that oilzapper 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 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.	No drilling or additional process activity is envisaged in present EC. It is pertinent to mention that H2S 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 Sl. No. 1A). 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, ecological development in and around operational area as directed by GoI. Expenditure made in Jambusar block (operational area surrounding Uber-II) during 2021-22 and 2022-23 under CSR is as per Annexure-IIA .
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 accoustic 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 2021-22 and 2022-23 under CSR is placed at Annexure-IIA .
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-III A .
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 <u>Annexure Sl. No. IVA</u> .



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No.: ONG/AST/HSE/EC/2022-23

Date: 20.05.2022

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.: A. 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 01.10.2021-31.03.2022) w.r.t. various
stipulations with supporting documents is attached herewith.

With Regards,

(Sunil Bhagat)
CGM – Head HSE,
ONGC Ankleshwar Asset

Descriptive Report on Status of Compliance for the period of 01.10.2021 to 31.03.2022 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)

	Specific Conditions	Compliance Status
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 existing adequate capacity. 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.

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.
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. Accoustic 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.

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 Oilzapper technology to address such eventualities. It is notable that oilzapper 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 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.	No drilling or additional process activity is envisaged in present EC. It is pertinent to mention that H2S is not encountered during drilling operations in oil fields of Bharuch district.

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 Sl. No. 1A). 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.

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, ecological development in and around operational area as directed by GoI. Expenditure made in Jambusar block (operational area surrounding Uber-II) during 2021-22 under CSR is as per Annexure-IIA.
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

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 accoustic 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).
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 2021-22 under CSR is placed at Annexure-IIA.
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.	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.
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-III A .
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.
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	<p>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.</p>	<p>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 <u>20.09.2019</u>. Copy is placed at Annexure Sl. No. IVA.</p>
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