

MANISH N. MODI
MEMBER SECRETARY
SEIAA (GUJARAT)



STATE LEVEL ENVIRONMENT
IMPACT ASSESSMENT
AUTHORITY
GUJARAT

No. SEIAA/GUJ/EC/1(b)/446/2023

Date: 19 APR 2023

By R P A D

Time Limit

Sub: Corrigendum in Environment Clearance to M/s. ONGC for setting up "Onshore oil and gas exploration, development & production (including early production)" at 3 wells in Block CB-ONHP-2019/2 in Surat and Bharuch Districts. In Category 1(b) of Schedule annexed with EIA Notification dated 14/09/2006.

Ref:

1. Environment Clearance vide letter No: SEIAA/GUJ/EC/1(b)/2463/2022 Dated 20/10/2022.
2. Your online application vide no. SIA/GJ/IND3/296195/2022 dated 03/02/2023.

Dear Sir,

This has reference to your application along with form-1, Pre-Feasibility Report, Environment Management Plan and other supporting documents dated 03/02/2023 submitted to SEIAA, seeking Environmental Clearance under Environment Impact Assessment Notification, 2006.

In continuation to the Environment Clearance accorded by the SEIAA vide order no. SEIAA/GUJ/EC/1(b)/2463/2022 Dated 20/10/2022; we have received your online application vide no. SIA/GJ/IND3/296195/2022 dated 03/02/2023 seeking corrigendum in All Conditions.

And whereas SEIAA has granted Environment Clearance vide office order letter no. : SEIAA/GUJ/EC/1(b)/2463/2022 Dated 20/10/2022 under the provisions of the EIA Notification, 2006.

And whereas project proponent has applied for corrigendum in the Environment Clearance. The project was scheduled for hearing in this SEAC meeting held on 20/02/2023.

The proposal is for Environmental Clearance to onshore Oil and Gas Exploration in the Appraisal and early production in the Block CB-ONHP-2018/1 in Surat & Bharuch Districts, Gujarat. It is a proposed project is green field in nature. The proposed onshore oil and gas exploration & appraisal is expected to carry out Drilling of 3 exploratory (including appraisal) wells and the exploratory and appraisal wells will be drilled to explore the reservoirs up to a depth of 3000 m approx.

Apex Co-ordinates of Block CB-ONHP-2019/2 boundary (as per RSC)

BLOCK-CB-ONHP-2019/2		
APEX POINTS	LONGITUDE	LATTITUDE
1	72046'	21035'
2	72049'	21035'
3	72049'	21031'
4	72050'	21031'
5	72050'	21030'
6	72056'	21030'
7	72056'	21029'
8	72055'	21029'
9	72055'	21028'
10	72054'	21028'
11	72054	21027'
12	72053	21027'
13	72053	21025'
14	72049'	21025'
15	72049'	21028'
16	72046'	21028'

The proposed well locations with Village and Taluka/Tehsil as follows:

Proposed Well Locations

Office : Gujarat Pollution Control Board, "Paryavaran Bhavan" Sector-10 A, Gandhinagar-382010

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Phone No.:- (079) 232-32152,232-41514 Fax No.:- (079) 232-22784

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OFFICE M. M. BASIN

WOB, O.N.G.C., Vadodara.

D.O. No. 1546050

DATE: 27/04/2023

S. No	Well / Well pad ID	Latitude	Longitude	Vill. Name	Taluka/ Tehsil	District	Present Land use	Road Infrastructure	Forest/ Wildlife Sanctuary/ National Park	Near est River / Water bodies	Major hum an establishments etc.	Industries etc.
1	NL-1	21°25'55.1253"N	72°52'27.1310"E			Bharuch	Final location is yet to be decided based on survey report.					
2	NL-2	21°28'41.3662"N	72°48'12.1592"E			Bharuch						
3	NL-3	21°27'49.7240"N	72°50'44.6281"E			Bharuch						

The project activity is covered in 1(b) and is of 'B' Category. Since, the project falls in B2 category as per the MoEF&CC's amendment EIA Notification vide S.O. 236(E) dated 16.01.2020, the public consultation is not required as per paragraph 7(i) (III) (i) (e) of the Environment Impact Assessment Notification-2006.

The SEAC, Gujarat vide their letter dated 03/04/2023 had recommended to the SEIAA, Gujarat, to grant the Environment Clearance for the above-mentioned project based on its meeting held on 20/02/2023. The proposal was considered by SEIAA, Gujarat in its meeting held on 13/04/2023 at Gandhinagar. After careful consideration, the SEIAA hereby accords Environmental Clearance to above project under the provisions of EIA Notification dated 14th September, 2006 subject to the compliance of the following conditions.

A.CONDITIONS:-

A.1SPECIFIC CONDITION :

1. Project proponent (PP) shall obtain separate Environmental Clearance for commercial drilling and exploration as this proposal is for drilling of Exploration activity only as per EIA Notification 2006 and amendment dated 16.01.2020 [Category B2 of activity 1(b)]
2. No drilling shall be carried out in protected areas.
3. The company shall make all arrangements at 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 waste water shall conform to CPCB/GPCB standards.
4. Drill cuttings separated from drilling fluid shall be adequately washed and disposed according to HWMH rule, 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 dated 30 the August ,2005
5. Oil spillage prevention and mitigation scheme shall be prepared. In case of oil spillage/ contamination, action plan shall be prepared to clean the site by adopting proven technology. The recyclable waste (oily sludge) and spent oil shall be disposed of to the authorized recyclers.
6. After completion of drilling activities, in case of non-availability of hydrocarbons the site shall be restored back to its normal condition as per the prevailing Rules/Guidelines/Site restoration policy.
7. PP shall adopt best drilling practices and drilling operations shall be designed in such a way that there is no chance of contamination of ground water aquifer.
8. PP shall take all precautionary measures to avoid any contamination of ground water.
9. 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.
10. Unit shall have to adhere to the prevailing area specific policies of GPCB with respect to the discharge of pollutants, and shall carry out the project development in accordance & consistence with the same.
11. The project proponent must strictly adhere to the stipulations made by the Gujarat Pollution Control Board, State Government and/or any other statutory authority.
12. The company shall develop a contingency plan for H2S release including all necessary aspects from evacuation to resumption of normal operations. The workers shall be provided with personal H2S detectors in locations of high risk of exposure along with self-containing breathing apparatus.
13. Company shall prepare operating manual in respect of all activities, which would cover all safety & environment related issues and measures and measures to be taken for protection. One set of environment manual shall be made available at the drilling site /project site. Awareness shall be created at each level of management. All the schedules and results of environmental monitoring shall be available at the project site office. Remote monitoring of site should be done.

14. **Safety & Health:**

- a. PP shall carry out mock drill within the premises as per the prevailing guidelines of safety and display proper evacuation plan in the manufacturing area in case of any emergency or accident.
- b. PP shall take all the necessary steps for human safety within premises to ensure that no any harm is caused to any worker/employee or labor within premises.
- c. The consequence arising out of incidents such as Well Blow Out, Fire, Explosion, Natural Calamities etc. shall be accurately predicted with the help of latest technique available by various Risk Analysis Studies and unit shall submit Disaster Management Plan (DMP) to the concern authority based on such probable scenarios.
- d. Personal Protective Equipments (PPEs) shall be provided to workers and its usage shall be ensured and supervised.
- e. First Aid Box shall be made readily available in the unit.
- f. Occupational health surveillance of the workers shall be done and its records shall be maintained. Pre-employment and periodical medical examination for all the workers shall be undertaken on regular basis as per Factories Act & Rules.
- g. The company shall take necessary measures to prevent fire hazards, containing oil spill and soil remediation as needed.
- h. Blow out preventer system shall be installed to prevent well blowouts during drilling operations.
- i. Emergency response plan shall be based on the guidance prepared by OISD, DGMs and Govt. of India.

A.2 WATER:

15. Total water requirement for the project shall not exceed 25 KLD per well. Unit shall reuse 3 KLD per well of treated industrial effluent within premises. Hence, fresh water requirement shall not exceed 22 KLD per well and it shall be met through tankers from nearby ONGC establishment.
16. PP shall not dig borewell for fresh water requirements.
17. The industrial effluent generation from the project shall not exceed 3 KLD.
18. 3 Total Industrial effluent generated from various activities shall be treated in mobile ETP and reused back in mud preparation.
19. PP shall obtain prior permission for disposal of treated effluent.
20. Zero Liquid Discharge [ZLD] status shall be maintained all the time and there shall not be any industrial wastewater discharge from the unit.
21. Domestic wastewater generation shall not exceed 1 KL/day for proposed project and it shall be treated in STP. Treated sewage shall be utilized for gardening and plantation purpose within premises after achieving on-land discharge norms prescribed by the GPCB.
22. During monsoon season when treated sewage may not be required for the plantation / Gardening / Green belt purpose, it shall be stored within premises. There shall be no discharge of waste water outside the premises in any case.
23. Unit shall provide buffer water storage tank of adequate capacity for storage of treated waste water during rainy days.
24. The unit shall provide metering facility at the ETP & STP and maintain records for the same.
25. Proper logbooks of ETP & STP; treated effluent reused in gardening/ plantation; chemical consumption in effluent treatment; quantity & quality of treated effluent; power consumption etc. shall be maintained and shall be furnished to the GPCB from time to time.

A.3AIR:

26. Unit shall not exceed fuel consumption for D G Set as mentioned below.

Sr. no.	Source of emission With Capacity	Stack Height (meter)	Type of Fuel	Quantity of Fuel	Type of emissions i.e. Air Pollutants	Air Pollution Control Measures (APCM)
1.	DG SET	8	HSD	5-6 KLD	Flue gas	Supercharging, DOC(Diesel oxidation Catalyst), Particulate matter Reducer.

27. Unit shall provide adequate APCM with flue gas generation sources to achieve the norms prescribed by GPCB.
28. There shall be no process gas emission from drilling & exploration activities and other ancillary operations.
29. The fugitive emission in the work zone environment shall be monitored. The emission shall conform to the standards prescribed by the concerned authorities from time to time (e.g. Directors of Industrial Safety & Health). Following indicative guidelines shall also be followed to reduce the fugitive emission.
 - Internal roads shall be either concreted or asphalted or paved properly to reduce the fugitive emission during vehicular movement.
 - Air borne dust shall be controlled with water sprinklers at suitable locations in the plant.
 - A green belt shall be developed all around the plant boundary and also along the roads to mitigate fugitive & transport dust emission.
30. Regular monitoring of Volatile Organic Compounds (VOCs) shall be carried out in the work zone area and ambient air.
31. Regular monitoring of ground level concentration of PM10, PM2.5, SO2, NOx and VOCs shall be carried out in the impact zone and its records shall be maintained. Ambient air quality levels shall not exceed the standards stipulated by the GPCB. If at any stage these levels are found to exceed the prescribed limits, necessary additional control measures shall be taken

