



Government of India
Ministry of Environment, Forest and Climate Change
(Impact Assessment Division)

To,

The Head of India
OILEX LTD

Oilex LTD, 2nd Floor, Shreeji Complex Next to Rituraj Complex Vasna Road, Village Akota Vadodara 390015 Gujarat, India., Vadodara, Gujarat-390015

Subject: Grant of Environmental Clearance (EC) to the proposed Project Activity under the provision of EIA Notification 2006-regarding

Sir/Madam,

This is in reference to your application for Environmental Clearance (EC) in respect of project submitted to the Ministry vide proposal number IA/GJ/IND2/238854/2007 dated 08 Jan 2022. The particulars of the environmental clearance granted to the project are as below.

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| 1. EC Identification No. | EC22A002GJ161364 |
| 2. File No. | J-11011/493/2007-IA II (I) |
| 3. Project Type | Expansion |
| 4. Category | A |
| 5. Project/Activity including Schedule No. | 1(b) Offshore and onshore oil and gas exploration, development & production |
| 6. Name of Project | Expansion of On shore Oil & Gas Well Appraisal, Developmental Drilling & Production through Surface Facilities Cambay Field, Ta. Khambhat , Dist. Anand, Gujarat |
| 7. Name of Company/Organization | OILEX LTD |
| 8. Location of Project | Gujarat |
| 9. TOR Date | 04 Oct 2007 |

The project details along with terms and conditions are appended herewith from page no 2 onwards.

Date: 17/03/2022

(e-signed)
A.K Pateshwary
Director
IA - (Industrial Projects - 2 sector)

Note: A valid environmental clearance shall be one that has EC identification number & E-Sign generated from PARIVESH. Please quote identification number in all future correspondence.

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and Virtuous Environment Single-Window Hub)



This has reference to your online proposal no. IA/GJ/IND2/238854/2007, dated 08th January, 2022 for environmental clearance to the above mentioned project.

2. The Ministry of Environment, Forest and Climate Change has examined the proposal for environmental clearance to the project expansion of On shore Oil & Gas Well Appraisal, Developmental Drilling & Production through Surface Facilities Cambay Field, Ta. Khambhat, Dist. Anand, Gujarat by M/s Oilex Limited.

3. All Offshore and onshore oil and gas exploration, development & production proposals are listed at S.N. 1(b) of Schedule of Environment Impact Assessment (EIA) Notification under category 'A' and are appraised at Central Level by Expert Appraisal Committee (EAC).

4. Standard ToR has been issued by Ministry vide letter No. IA-J-11011/183/2019-IA-II (I); dated 6th June 2019. Public Hearing for the proposed project has been conducted by the State Pollution Control Board on 28th October, 2021 presided by Additional District Magistrate, Anand district. The main issues raised during the public hearing are related to local employment and road repair issues.

5. Ministry had issued EC earlier vide letter no. F. No. J-11011/493/2007-1A II(I) dated 06.05.2008 to the existing project Oil and Gas Well Appraisal and developmental Drilling and Expansion of Existing Gas Collection Station in Cambay Field, Khambhat Taluka in District Anand in Gujarat in favor of M/s. Oilex Limited.

6. Certified Compliance report has been obtained from Integrated Regional Office, Gandhinagar vide letter No J-11/29-2021-IROG NR dated 08th Dec 2021 wherein 4 non-compliances and 1 partial compliance were observed. ATR has been submitted by PP to IRO, Gandhinagar. Based ATR furnished, IRO Gandhinagar revised the non-compliances and partial compliances to complied.

7. The details of products and capacity are as under: -

S. No.	Product	Quantity	Unit
1.	Natural Gas	2.83	MMSCFD (Million standard cubic feet per day)
2.	Crude Oil	2385	m ³ /day (Meter cube per day)

Co-Ordinates of Proposed Wells

#	Well No	Latitude	Longitude	Village	District
1.	EP-IV CH W1	22°23'19.00"N	72°35'38.00"E	Malasoni	Anand
2.	EP-IV CH W2	22°21'51.00"N	72°35'58.00"E	Zalapur	Anand
3.	EP-IV CH W3	22°22'24.74"N	72°36'6.48"E	Zalapur	Anand

#	Well No	Latitude	Longitude	Village	District
4.	EP-IV NW W11	22°23'58.704"N	72°33'36.00"E	Bhimtalav	Anand
5.	EP-IV NW W12	22°24'49.824"N	72°33'33.84"E	Bhimtalav	Anand
6.	EP-IV 19Z W1	22°21'25.51"N	72°35'12.98"E	Near Sokhada	Anand
7.	EP-IV 19Z W2	22°21'52.00"N	72°35'25.00"E	Near Sokhada	Anand
8.	EP-IV 35 W1	22°20'31.00"N	72°35'58.00"E	Neja	Anand
9.	EP-IV LC W1	22°20'1.00"N	72°36'57.00"E	Khambhat	Anand
10.	EP-IV LC W2	22°21'3.17"N	72°37'17.58"E	Nagara	Anand
11.	EP-IV LC W3	22°20'15.72"N	72°37'13.87"E	Nagara	Anand
12.	EP-IV SE W1	22°19'52.00"N	72°38'50.00"E	Kansari	Anand
13.	EP-IV SE W2	22°21'23.00"N	72°38'58.00"E	Kali Talavadi	Anand
14.	EP-IV SE W3	22°21'22.00"N	72°40'13.00"E	Chhatardi	Anand
15.	EP-IV NE C W1	22°24'30.00"N	72°37'42.00"E	Rangpur	Anand
16.	EP-IV NE C W2	22°24'12.00"N	72°37'13.00"E	Rangpur	Anand
17.	EP-IV NE C W3	22°24'24.00"N	72°38'25.00"E	Malu	Anand
18.	EP-IV NE C W4	22°23'40.70"N	72°38'5.17"E	Motipura	Anand
19.	EP-IV NE O W1	22°23'20.00"N	72°39'50.00"E	Sayama	Anand
20.	EP-IV NE O W2	22°24'16.00"N	72°39'50.00"E	Hariyan	Anand
21.	EP-IV NW W1	22°24'13.00"N	72°33'38.00"E	Bhimtalav	Anand
22.	EP-IV NW W2	22°23'20.00"N	72°33'48.00"E	Daheda	Anand
23.	EP-IV NW W3	22°22'46.00"N	72°34'53.00"E	Malasoni	Anand
24.	EP-IV NW W4	22°24'43.00"N	72°34'16.00"E	Bhimtalav	Anand
25.	EP-IV NW W5	22°24'13.00"N	72°34'29.00"E	Bhimtalav	Anand
26.	EP-IV NW W6	22°23'49.00"N	72°34'33.00"E	Bhimtalav	Anand
27.	EP_IV NW W7	22°23'23.00"N	72°34'40.00"E	Malasoni	Anand
28.	EP-IV NW W8	22°24'7.00"N	72°35'37.00"E	Jinaj	Anand
29.	EP-IV NW W9	22°24'39.00"N	72°35'8.00"E	Jinaj	Anand
30.	EP-IV NW W10	22°24'2.00"N	72°35'23.00"E	Jinaj	Anand

8. Existing land area acquired is 12.96 m² for 9 nos. of workover wells,

additional 43.2 m² land will be acquired for proposed 30 nos. new wells. M/s Oilex Limited will develop area as social forestry/Plantation by having consultation with the Forest department.

9. The estimated project cost is Rs. 965 Crores. Total capital cost earmarked towards environmental pollution control measures is Rs. 0.26 Crores/well and the Recurring cost (operation and maintenance) will be about Rs. 0.11 Crores per annum/well. Total Employment will be 10 persons as direct & 45 persons indirect during construction. Total Employment will be 25 persons as direct & 45 persons indirect after expansion. Industry proposes to allocate Rs. 4.825 Crores @ of 0.50% towards Corporate Environment Responsibility.

10. There are no national parks, wildlife sanctuaries, Biosphere Reserves, Tiger/Elephant Reserves, Wildlife Corridors etc. within 10 km distance from the project site. Water body Gulf of Khambhat is abutting to the block boundary in South direction.

11. Ambient air quality monitoring was carried out at 10 locations during 1st October 2020 to 31st December 2020 and the baseline data indicates the ranges of concentrations as: PM₁₀ (46.2 – 72.4 µg/m³), PM_{2.5} (20.4 – 45.8 µg/m³), SO₂ (4.0 – 14.0 µg/m³) and NO_x (7.8 – 16.8 µg/m³). AAQ modeling study for point source emissions indicates that the maximum incremental GLCs after the proposed project would be 0.04 µg/m³, 0.35 µg/m³ and 0.86 µg/m³ with respect to PM₁₀, SO_x and NO_x. The resultant concentrations are within the National Ambient Air Quality Standards (NAAQS).

12. Total water requirement is 40 m³/day of which fresh water requirement of 32 m³/day will be met from Water Tankers from locally approved/ authorized vendors. Effluent (Produced water) generated will be in the range of 0-100 KLD quantity. Produce water generation will differ from well to well. Produced water will be disposed off by reinjection in abandoned well.

13. 4375 KVA for drilling of each well and will be made available from D.G. Sets and 250 kVA from Gas Engine Generator (GEG) during production. The rated capacity of the DG sets/ GEG are having capacity 1375 kVA and 250 kVA during drilling and 250 kVA during production. Stack (height 30 m for 1375 kVA DG. Set and height 9 m for 250 kVA) will be provided as per CPCB norms to the proposed DG sets.

14. Details of process emissions generation and its management: There will be generation of NO_x from the Flare stack. 30 m stack height will be provided.

15. Details of Solid waste/Hazardous waste generation and its management: Used lubricating oil (1-2 tons/well) will be sent to CPCB authorized recyclers and sludge containing oil & other drilling work (10 m³/well) shall be generated which will be disposed as per as per Hazardous Waste Rule 2016 and its amendment.

16. Certified compliance report has been by Integrated Regional Office (IRO), Guwahati vide letter No. RO-NE/E/IA/AS/MI/58/1243-1245 dated 1st October 2021. EAC found the compliance status to be satisfactory.

17. During deliberation PP has informed that a Court case was filed by GPCB against M/s Oilex Ltd on 18th February 2019 in Khambhat local court. The court case was filed by GPCB after it had issued a closure order against Oilex's C-73 EGPF citing lack of valid EC due to absence of the word "EGPF" in their EC. On 31st July 2021 interim order was passed by the court framing charges against M/s Oilex to mutually settle the matter. Subsequently, the case was disposed of before Lok Adalat on 11th December 2021 upon payment of a penalty of INR 4 lakhs. Currently, there is no litigation pending against the proposed project. EAC directed that PP shall obtain revoke to closure order filed by GPCB. PP has made detailed presentation on CCR and EAC found the compliance status satisfactory. Further, EAC sought following commitment from PP:

- The proposed budget of Rs. 4.825 towards CER shall be spent on improving green energy and on improving infrastructure of public schools in nearby villages. All the proposed activities under CER shall be completed within 3 years

PP agreed to the commitment sought by EAC.

18. The proposal was considered by the EAC in its 49th meeting held during 27th- 28th January, 2022 in the Ministry, wherein the project proponent and their consultant M/s. Eco Chem Sales & Services presented the EMP report as per the ToR. The Committee found the EMP report complying with the ToR and **recommended** the project for grant of environmental clearance.

19. The EAC, constituted under the provision of the EIA Notification, 2006 and comprising of Experts Members/domain experts in various fields, have examined the proposal submitted by the Project Proponent in desired form along with EIA/EMP report prepared and submitted by the Consultant accredited by the QCI/ NABET on behalf of the Project Proponent. The EAC noted that the Project Proponent has given undertaking that the data and information given in the application and enclosures are true to the best of his knowledge and belief and no information has been suppressed in the EIA/EMP report. If any part of data/information submitted is found to be false/ misleading at any stage, the project will be rejected and Environmental Clearance given, if any, will be revoked at the risk and cost of the project proponent.

20. The Committee noted that the EIA/EMP report is in compliance of the ToR issued for the project, reflecting the present environmental concerns and the projected scenario for all the environmental components. The Committee has found the baseline data is within NAAQ standards. The Committee has deliberated the action plan proposed by the project proponent to arrest the incremental GLC due to the project. The Committee has also deliberated on the CER plan and found to be addressing the issues in the study area.

21. The EAC has deliberated the proposal and has made due diligence in the process as notified under the provisions of the EIA Notification, 2006, as amended from time to time and accordingly made the recommendations to the proposal. The Experts Members of the EAC have found the proposal in order and have **recommended** for grant of Environmental Clearance.

22. The environmental clearance granted to the project/activity is strictly under the provisions of the EIA Notification 2006 and its amendments. It does not tantamount/construe to approvals/consent/ permissions etc. required to be obtained or standards/conditions to be followed under any other Acts/ Rules/ Subordinate legislations, etc., as may be applicable to the project. The project proponent shall obtain 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, from the State Pollution Control Board, prior to construction & operation of the project.

23. Based on the proposal submitted by the project proponent and recommendations of the EAC (Industry-2), Ministry of Environment, Forest and Climate Change hereby accords environmental clearance to the project expansion of On shore Oil & Gas Well Appraisal, Developmental Drilling & Production through Surface Facilities Cambay Field, Ta. Khambhat, Dist. Anand, Gujarat by M/s Oilex Limited, under the provisions of the EIA Notification, 2006, and the amendments therein, subject to compliance of the terms and conditions as under:-

A. Specific Condition:

(i) 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 environmental management, and risk mitigation measures relating to the project shall be implemented.

(ii) No pipelines or its part shall be laid in the Forest land/Protected Area without prior permission/approval from the Competent Authority.

(iii) The project proponent will treat and reuse the treated water within the drilling site location including at processing location and no waste or treated water shall be discharged outside the premises under any condition. Mobile ETP coupled with RO and mobile STP shall be installed to treat the waste water and sewage waste respectively.

(iv) During production, storage and handling, the fugitive emission of methane, if any, shall be monitored using appropriate technology.

(v) The project proponent also to ensure trapping/storing of the CO₂ generated, if any, during the process and handling.

- (vi) Approach road shall be made pucca to minimize generation of suspended dust.
- (vii) The project proponent 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.
- (viii) Total fresh water requirement shall be 32 KLPD which will be met from tankers. Extraction of ground water shall not be done without obtaining prior permission of CGWA/concerned authority.
- (ix) The company shall construct the garland drain 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.
- (x) 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 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.
- (xi) 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.
- (xii) The project proponent shall take necessary measures to prevent fire hazards, containing oil spill and soil remediation as needed. At fixed installations or plants use of 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 operation.
- (xiii) The project proponent 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.
- ~~(xiv)~~ Blow Out Preventer system shall be installed to prevent well blowouts during drilling operations.
- (xv) 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 environment safety angle. In case of hydrocarbon not found economically viable, a full abandonment plan shall be implemented for the

drilling site in accordance with the applicable DGH / Indian Petroleum Regulations.

(xvi) PP proposed to allocate Rs. 4.825 Crores towards CER and it shall be spent on improving green energy and on improving infrastructure of public schools in nearby villages. All the proposed activities under CER shall be completed within 3 years.

(xvii) No lead acid batteries shall be utilized in the project/site.

(xviii) Occupational health surveillance of the workers shall be carried out as per the prevailing Acts and Rules. All workers & employees shall be provided with required safety kits/mask for personal protection.

(xix) Oil content in the drill cuttings shall be monitored if oil-based mud is used and report shall be sent to the Ministry's Regional Office.

(xx) The project proponent 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.

B. General Condition:

(i) No further expansion or modifications in the plant, other than mentioned in the EIA Notification, 2006 and its amendments, shall be carried out without prior approval of the Ministry of Environment, Forest and Climate Change/SEIAA, as applicable. 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/SEIAA, as applicable, to assess the adequacy of conditions imposed and to add additional environmental protection measures required, if any.

(ii) The energy source for lighting purpose shall be preferably LED based, or advanced having preference in energy conservation and environment betterment.

(iii) The overall noise levels in and around the plant area shall be kept well within the standards by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise levels shall conform to the standards prescribed under the Environment (Protection) Act, 1986 Rules, 1989 viz. 75 dBA (day time) and 70 dBA (night time).

(iv) 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. The company shall undertake eco-developmental measures

including community welfare measures in the project area for the overall improvement of the environment.

(v) 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.

(vi) A copy of the 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/ representations, if any, were received while processing the proposal.

(vii) 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 e-mail) 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.

(viii) The environmental statement 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.

(ix) 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 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.

(x) 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.

(xi) 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.

24. The Ministry reserves the right to stipulate additional conditions, if found necessary at subsequent stages and the project proponent shall implement all the said conditions in a time bound manner. The Ministry may revoke or suspend

the environmental clearance, if implementation of any of the above conditions is not found satisfactory.

25. Concealing factual data or submission of false/fabricated data and failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract action under the provisions of Environment (Protection) Act, 1986.

26. Any appeal against this environmental clearance shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.

27. The above conditions will be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, the Hazardous Waste (Management, Handling and Transboundary Movement) Rules, 2016 and the Public Liability Insurance Act, 1991 read with subsequent amendments therein.

28. This issues with the approval of the competent authority.

(Ashok Kumar Pateshwary)
Director

Copy to: -

1. The Principal Secretary, Forests & Environment Department, Government of Gujarat, Sachivalaya, 8th Floor, Gandhi Nagar - 382 010 (Gujarat)
2. The Regional Officer, Ministry of Env., Forest and Climate Change, Integrated Regional Office, Gandhi Nagar, A wing- 407 & 409, Aranya Bhawan, Near CH-3 Circle, Sector-10 A, Gandhi Nagar-382010
3. The Chairman, Central Pollution Control Board Parivesh Bhavan, CBD-cum-Office Complex, East Arjun Nagar, Delhi -32
4. The Member Secretary, Gujarat State Pollution Control Board, Paryavaran Bhawan, Sector 10 A, Gandhi Nagar-382 043 (Gujarat)
5. Monitoring Cell, Ministry of Environment, Forest and Climate Change, Indira Paryavaran Bhawan, Jor Bagh Road, New Delhi
6. The District Collector, Anand, Gujarat
7. Guard File/Monitoring File/Parivesh portal/Record File.

(Ashok Kumar Pateshwary)
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