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File No: IA-J-11011/358/2023-IA-II(I)  
Government of India  
Ministry of Environment, Forest and Climate Change  
IA Division

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Date 14/11/2025



To,

M/s Vedanta Limited(Division Cairn Oil & Gas)  
DLF Atria, Phase 2, Jacaranda Marg, DLF City Gurugram, Gurugram, GURUGRAM, HARYANA,  
Near DLF Square, 122002  
dilipkumar.bera@cairnindia.com

**Subject: Offshore Oil and Gas Development & Production in CB/OSDSF/AMBE/2021 Block (728.19 Sq. km) located in Gulf of Khambhat, District Surat, Gujarat by M/s Vedanta Limited (Div.: Cairn Oil & Gas) - Grant of prior Environmental Clearance (EC) and CRZ Clearance to the proposed project under the provision of the EIA Notification 2006.**

Sir/Madam,

This is in reference to your application submitted to MoEF&CC vide proposal number IA/GJ/IND2/542891/2025 dated 08/08/2025 for grant of prior Environmental Clearance (EC) to the proposed project under the provision of the EIA Notification 2006 and as amended thereof.

2. The particulars of the proposal are as below :

(i) EC Identification No.	EC25A0303GJ5931593N
(ii) File No.	IA-J-11011/358/2023-IA-II(I)
(iii) Clearance Type	Fresh EC
(iv) Category	A
(v) Project/Activity Included Schedule No.	1(b) Off-shore and onshore oil and gas exploration, development and production
(vi) Sector	Industrial Projects - 2
(vii) Name of Project	Offshore Oil and Gas Development and Production in CB/OSDSF/AMBE/2021 (728.19 sq. km) block, located in Gulf of Khambhat, Dist. - Surat, Gujarat
(viii) Name of Company/Organization	M/s Vedanta Limited(Division Cairn Oil & Gas)
(ix) Location of Project (District, State)	SURAT, GUJARAT
(x) Issuing Authority	MoEF&CC
(xi) Applicability of General Conditions as per EIA Notification, 2006	No

3. The Ministry of Environment, Forest and Climate Change has examined the proposal for proposed project Offshore Oil and Gas Development & Production in CB/OSDSF/AMBE/2021 Block (728.19 Sq. km) located in Gulf of Khambhat, District Surat, Gujarat by M/s Vedanta Limited (Div.: Cairn Oil & Gas).
4. The proposal was considered in EAC (Ind-2) meetings held on 29th August, 2025 and 18th September, 2025 wherein the Project Proponent and their accredited Consultant M/s. Eco Chem Sales & Services (NABET Certificate No.: NABET/EIA/23-26/SA 0237 Validity: 15.03.2026), made a detailed presentation on the salient features of the project. The minutes of the meeting and all the Application and documents submitted [(viz. Form-1 Part A, Part B, Part C EIA, EMP)] are available on PARIVESH portal which can be accessed by scanning the QR Code available above.
5. All Projects 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).
6. The details of products and capacity are enclosed at Annexure-2.
7. Terms of Reference have been obtained vide F. No. IA-J-11011/358/2023-IA-II(I); dated 21/02/2024. PP informed that there is no litigation pending against the proposal. The hydrocarbon block is entirely offshore, and all project activities fall only in offshore area. Accordingly, the EAC exempted the project from the public hearing requirement during the ToR stage. However, as per the specific ToR conditions, Vedanta Ltd. (Div.: Cairn Oil & Gas) published advertisements about the project on 08.03.2024 in one national and one regional vernacular daily, inviting public representations within 30 days. PP informed that no public representations were received.
8. The block covers an area of 728.19 Sq. Km. which falls entirely in offshore region in the Gulf of Khambhat (Arabian Sea) of Gujarat coast. The estimated project cost is INR. 1912 Crores. Capital cost of EMP would be Rs. 2.04 Crores and recurring cost for EMP would be Rs. 15 lakhs per annum. About 80-100 manpower per well will be required for drilling a well. About 20-30 manpower will be required during development. About 5-10 manpower will be required during Production. Vedanta Ltd. has allocated 7.20 Crores under Extended EMP.
9. There are no eco-sensitive area/national port/wildlife sanctuary, Wetland, falls within the block as well as in the study area. Velvedar National Park is 89 Km from the block boundary in the Northern direction. Hazira bird sanctuary is 16.96 km from the block boundary in the EES direction. Hazira mangrove forest is 18.07 km from the block boundary in the East direction. Most of the Avi faunal species reported are under the Schedule IV as per Amended Wild Life Protection Act 2022. The Indian Peafowl under Avifauna, Indian soft-shelled turtle under Reptiles are Schedule-I species. Conservation plan for Schedule-I species has been prepared by allocating a budget of Rs. 6.4 Lakhs and submitted DCF, Surat.
10. Ambient air quality monitoring was carried out at 8 locations during March 2023 to May 2023 (pre-monsoon/summer) and the baseline data indicates the ranges of concentrations as: PM10 (50.4-83.4  $\mu\text{g}/\text{m}^3$ ), PM2.5 (24.9-44.1  $\mu\text{g}/\text{m}^3$ ), SO2 (7.1-16.5  $\mu\text{g}/\text{m}^3$ ) and NO2 (10.9-21.4  $\mu\text{g}/\text{m}^3$ ). AAQ modelling study for point source emissions indicates that the maximum incremental GLCs after the proposed project PM10 would be 58.58 – 83.12  $\mu\text{g}/\text{m}^3$ , NOX 15.94 – 22.10  $\mu\text{g}/\text{m}^3$ , SO2 9.57 – 16.55  $\mu\text{g}/\text{m}^3$  during drilling phase and PM10 would be 58.40 – 83.00  $\mu\text{g}/\text{m}^3$ , NOX 14.70 – 21.35  $\mu\text{g}/\text{m}^3$ , SO2 9.43 – 16.43  $\mu\text{g}/\text{m}^3$  during production phase. The resultant concentrations are within the National Ambient Air Quality Standards (NAAQS).
11. Total freshwater requirement will be 80 KLD (50 KLD-Drilling water consumption for misc. use & 30 KLD Water for domestic use) for per well drilling, and 6 KLD (1.5 KLD for each wellhead platform) for Production. Drilling-Water will be sourced from the nearest port which will be hired for onshore base for drilling. Also, sea water will be used for mud preparation, etc. Production-Water will be sourced from nearest port through supply vessel and will be stored in storage tank. Drilling Phase: Approx. 74 KLD/well drilling/day wastewater will be generated which will be treated onboard ETP & STP. Drilling rigs and drilling logistics will comply with the MARPOL requirements for disposal of the bilge water and sewage into the sea. Onboard STP and ETP will be installed. Production Phase: No industrial effluent is envisaged from well-headed platforms. Toilet flush of 100 liters/day from and then to a water/oil separator on board (equipped with drilling rig/support vessel/well workover rig) before offshore disposal with less than 15 mg/l of oil and grease content as per MARPOL regulation 15C of Annex I MARPOL 73/78.

12. Drilling Phase Power will be required on MODU for undertaking drilling operations and to provide lighting to the living quarters. Continuous power supply shall be made available through 04 main diesel generator (DG) sets (4\*4000 KVA (3W+1S), normally installed as part of the MODU design / infrastructure. There will also be one diesel generator (1x500 KVA) catering to the emergency auxiliary power supply. Production Phase power requirement during production will be 240 KVA (1x60 KVA for each wellhead platform). Solar panels with battery packs will be installed to fulfill electricity requirements on Wellhead Platforms (WHPs). Emergency DG set of 1x60 KVA will be installed at each platform.

13. Details of Process emissions generation and its management: Process emission sources would be DG sets, Flare stack, which shall be monitored regularly to ensure compliances. DG and flare stacks shall be provided with adequate height as per CPCB guidelines.

14. Details of solid waste/Hazardous waste generation and its management:

Drilling:

Sr. No.	Nature of waste	Category	Quantity from Drilling a well	Disposal
<b>A</b>				
<b>Hazardous Waste</b>				
1.	Drill cuttings excluding those from water-based mud	Cat. 2.1	1500 tons/well	Thoroughly washed DC separated from SBM & unusable portion of SBM will be discharged off-shore into sea intermittently, at an average rate of 50 bbl/hr/well as per G.S.R.546 (E).
2.	Sludge containing oil	Cat. 2.2	500 tons/well	Disposal as per Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016.
3.	Drilling mud containing oil	Cat.2.3	500 tons/well	Disposal as per Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016.
4.	Used oil or Spent oil	Cat. 5.1	2 tons/well	Will be stored in barrels for disposal onshore through GPCB approved authorize recyclers.
<b>B</b>				
<b>Non-Hazardous Waste</b>				
1.	Drill cuttings associated with WBM	-	750 tons/well	WBM drill cuttings will be intermittently disposed offshore at a rate of 50 bbl/hour as per G.S.R.546 (E).
2.	Spent WBM	-	500 tons/well	WBM drill cuttings will be intermittently disposed offshore at a rate of 50 bbl/hour as per G.S.R.546 (E).
3.	Food waste	-	30 kg/well	Food wastes will be macerated to less than 25 mm size and discharged offshore, as per the requirements of MARPOL Convention.
4.	Non-combustible waste containing metallic residues, glass	-	1200 kg/well	Disposal through recyclers on periodic basis.
5.	Packaging wastes including drums, wooden pallets, plastic containers, plastic foils.	-	600 kg/ well	Disposal through recyclers on periodic basis.
6.	Left over chemicals and materials, scrap metal, sludges, scales, batteries, spent lubricants, filters etc.	-	300 kg/ well	Disposal through recyclers on periodic basis.

Sr. No.	Nature of waste	Category	Quantity from Drilling a well	Disposal
7.	Cement, grit, blasting and painting wastes.	-	600 kg/ well	Disposal through recyclers on a periodic basis.

Production:

Sr. No.	Type / Name of Hazardous Waste	Specific Source of Generation	Category and Schedule as per HW Rules	Quantity (MT/Annum)	Management of HW
<b>A. Hazardous Waste</b>					
1.	Oil contaminated filters, cotton rags, used gloves, used oil etc. – from production	Production	HW-Sch-I, Cat 3.3	80 liters/year (20 Liters/year/WHPs)	Disposal as per Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016.
<b>B. Non-Hazardous Waste</b>					
2.	Solid waste like scrap, paper, waste plastics (food container, packing material) and food waste – from production	Production	--	5 kg/day/wellhead	Disposal through authorized vendors on periodic basis

15. Projects attract the provision of CRZ Notification 2011/ 2019 and their amendments.

- Block covers 728.19 sq. km. in Gulf of Khambhat off District Surat, Gujarat.
- Part of the block falls within the territorial waters (<12 NM) and some parts of the block falls outside the territorial waters (>12 NM).
- Part of the project activities (such as proposed wells for drilling, Wellhead Platforms (WHPs) & sub-sea pipelines) fall within the territorial waters (<12 NM) and therefore, the project attracts the provisions of CRZ Notification 2011/2019 and amendments thereafter. And also, some part of the project activities falls outside the territorial waters (>12 NM).

16. During deliberations, following issues were discussed:

- As per OM dated 26th April, 2022 the recommendations of GCZMA given vide letter ENV/10/2024/62/T dated 08th August, 2025 has been sent to CRZ Division for comments. In this regard, CRZ division has informed that the project activity is permissible as per para 3 (x) (b) and 4 (i) (e), Clause No. 8 (i) IV (b) of the CRZ Notification 2011/2019. Further, the PP has submitted the following:
  - The proposed facility will be integrated with the existing pipeline at the LB Platform (located in the CB-OS/2 block, presently operated by Vedanta Ltd., Division: Cairn Oil & Gas). This pipeline is already connected to the Suvali Onshore Terminal for processing of well fluid. Therefore, the concerned sector may be requested to verify whether EC + CRZ clearance exists for the existing facility and also to decide whether the present proposal should be considered as an Expansion or as a Fresh project.
  - The Kalparas Project is also envisaged in the Gulf of Khambhat, it is suggested that the EAC deliberate on this proposal keeping in view the implications of this future public utility project”
  - In reference to the observations made by CRZ, the PP has submitted the copy of earlier Environmental Clearance (EC) obtained for the project Development of Oil Production in the CB/OS-2 Block, offshore area in Gulf of Khambhat, Gujarat under the coastal zone notification 1991 (CRZ+EC) vide letter no. 11-14/2004-IA-III dtd.4th August 2005 and EC obtained vide letter no. J-11011/109/2005-IA-II(I), dated 25th January, 2006. Further, it was clarified aforementioned clearances were granted for CB-OS/2 Block which is their existing block. The PP has also clarified that there is no

interlinked and inter-dependent project for the instant project proposed in CB/OSDSF/AMBE/2021 Block. However, only existing pipeline (24" inch dia) of CB-OS/2 Block (existing) will be utilised for carrying the well fluid from the CB/OSDSF/AMBE/2021 block (proposed) for processing at Suvali onshore terminal which does not require expansion. The PP has also submitted the demarcation of existing CB-OS/2 Block Boundary with the proposed project and it was noted that is nor interdependence of the projects. Further, it was also clarified that Kalpasar project is envisaged in Bharuch district on the eastern side and Bhavnagar on the western side which is beyond the block boundary of the instant proposal.

- The committee suggested that PP shall not commence production of oil/gas from the proposed block prior to identification of 500 ha land for mangrove plantation. Further, the MoU with Forest Department shall explicitly mentioned that the proposed 500 ha mangrove plantation is exclusively for the instant project.

The committee was satisfied with the response provided by PP on above information. Further, Committee desired to submit the above information in writing. Accordingly, PP has submitted the desired information and EAC found the information/commitments satisfactory.

17. 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 the 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 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.

18. 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. 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 and CRZ Clearance.

19. 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.

20. 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 and CRZ Clearance to the project proposed **Offshore Oil and Gas Development & Production in CB/OSDSF/AMBE/2021 Block (728.19 Sq. km) located in Gulf of Khambhat, District Surat, Gujarat by M/s Vedanta Limited (Div.: Cairn Oil & Gas)**, under the provisions of the EIA Notification, 2006, and the amendments therein, subject to compliance of the terms and conditions enclosed at Annexure-1.

21. 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.

22. 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.

23. 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.

24. 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.

25. This issues with the approval of the Competent Authority.

### **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 Environment, Forest and Climate Change, 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. Compliance & Monitoring Division, Ministry of Environment, Forest and Climate Change, Indira Paryavaran Bhawan, Jor Bagh Road, New Delhi.
6. The District Collector, Surat, Gujarat.
7. Guard File/Monitoring File/Parivesh portal/Record File.

### **Annexure 1**

#### **Specific EC Conditions for (Off-shore And Onshore Oil And Gas Exploration, Development And Production)**

#### **1. Off-shore And Onshore Oil And Gas Exploration, Development And Production**

<b>S. No</b>	<b>EC Conditions</b>
<b>1.1</b>	The Industry shall adhere to all the terms and conditions mentioned in GCZMA recommendations letter ENV/10/2024/62/T dated 08th August, 2025. The PP shall not commence production of oil/gas from the proposed block prior to identification of 500 ha land for mangrove plantation. Further, the MoU with Forest Department shall explicitly mention that the proposed 500 ha mangrove plantation is exclusively for the instant project. The status of mangrove development shall be sent to RO along with 6 monthly compliance reports and shall be maintained for the lifetime of the project.
<b>1.2</b>	The SPCB shall not issue CTO prior to the identification of 500 ha land for mangrove development and signing of MoU with forest department. Further, the current proposal is integration with Suvali Terminal also, therefore PP shall seek amendment in CTE/CTO from SPCB for Suvali Terminal.
<b>1.3</b>	The project proponent shall prepare a site specific conservation plan and wildlife management plan in case of the presence of Schedule-1 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.
<b>1.4</b>	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

S. No	EC Conditions
	implemented (Annexure - 3).
1.5	PP shall adhere to the siting criteria mentioned in Control of Water Pollution (Grant, Refusal or Cancellation of Consent) Guidelines, 2025”, notified on 30th January, 2025.
1.6	No pipelines or its part shall be laid in the Forest land/Protected Area without prior permission/approval from the Competent Authority.
1.7	Total fresh water requirement shall not exceed 80 KLD (50 KLD-Drilling water consumption for misc. use & 30 KLD Water for domestic use) for per well drilling, and 6 KLD (1.5 KLD for each wellhead platform) for Production which shall be met by nearest port. Prior permission shall be obtained from the concerned regulatory authority.
1.8	The project proponent shall treat waste water generated in onboard ETP and it shall be disposed offshore as per MARPOL regulation. Domestic sewage generated will be treated into onshore STP and discharged into sea after complying the MARPOL regulations.
1.9	During production, storage and handling, the fugitive emission of methane, if any, shall be monitored using Infra-red camera/ appropriate technology. No flaring shall be carried out during operation phase.
1.10	The project proponent shall ensure trapping/storing of the CO <sub>2</sub> generated, if any, during the process and handling.
1.11	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.
1.12	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/dropped 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. Industry shall obtain membership of TSDF site before obtaining CTO and shall dispose the hazardous waste generated at drill site to TSDF approved by SPCB.
1.13	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.
1.14	Gas produced during testing shall be flared with appropriate flaring device as prescribed by the CPCB. The flare shall be designed as per good oil field practices and OISD guidelines. The stack height shall be provided as per the regulatory requirements and emission from the stacks will meet MOEFCC/CPCB guidelines.
1.15	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.

S. No	EC Conditions
1.16	The project proponent shall develop a contingency plan for H <sub>2</sub> S release including all necessary aspects from evacuation to resumption of normal operations. The workers shall be provided with personal H <sub>2</sub> S detectors in locations of high risk of exposure along with self-containing breathing apparatus.
1.17	Blow Out Preventer system shall be installed to prevent well blowouts during drilling operations.
1.18	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.
1.19	PP proposed to allocate Rs. 7.20 Crores towards extended EMP which shall be spent as submitted as per plan (Annexure - 4). Further, all the proposed activities under extended EMP shall be completed before the commissioning of the plant in consultation with District Administration.
1.20	No lead acid batteries shall be utilized in the project/site.
1.21	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.
1.22	Oil content in the drill cuttings shall be monitored and report & shall sent to the Ministry's Regional Office.
1.23	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.
1.24	PP shall sensitize and create awareness among the people working within the project area as well as its surrounding area on the ban of Single Use Plastic in order to ensure the compliance of Notification published by MoEF&CC on 12 <sup>th</sup> August, 2021. A report along with photographs on the measures taken shall also be included in the six-monthly compliance report being submitted to concerned authority.
1.25	Monitoring of marine water, sediments, fish tissues, etc. shall be conducted twice a year during the production phase. Reports of the same shall be included in the six-monthly compliance report being submitted to concerned authority
1.26	The project proponent shall ensure the compliance of the Ministry's OM dated 14th January 2025 w.r.t. streamlining the implementation of Notifications G.S.R. 702 and G.S.R. 703 dated 12th November 2024.

**Standard EC Conditions for (Off-shore and onshore oil and gas exploration, development and production)**

### **1. General Conditions**

S. No	EC Conditions
1.1	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.
1.2	The energy source for lighting purpose shall be preferably LED based, or advanced having preference in energy conservation and environment betterment.
1.3	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).
1.4	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.
1.5	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.
1.6	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.
1.7	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.
1.8	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.
1.9	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 <a href="https://parivesh.nic.in/">https://parivesh.nic.in/</a> . 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

S. No	EC Conditions
	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.
1.10	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.
1.11	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

## Annexure 2

### Details of the Project

S. No.	Particulars	Details	
a.	Details of the Project	Offshore Oil and Gas Development and Production in CB/OSDSF/AMBE/2021 (728.19 sq. km) block, located in Gulf of Khambhat, Dist. - Surat, Gujarat	
b.	Latitude and Longitude of the project site	20.99999997252075,72.21666666666339 21.24999999990013,72.566666666683327	
c.	Land Requirement (in Ha) of the project or activity	<b>Nature of Land involved</b>	<b>Area in Ha</b>
		Non-Forest Land (A)	0
		Forest Land (B)	0
		Total Land (A+B)	0.0
d.	Date of Public Consultation	Public consultation for the project was held on	
e.	Rehabilitation and Resettlement (R&R) involvement	NO	
f.	Project Cost (in lacs)	191200	
g.	EMP Cost (in lacs)	219	
h.	Employment Details		

**Details of Products & By-products:**

S. No	Product /by Product	Proposed Quantity	Unit
1.	Drilling of Development & Production wells	13	Nos.
2.	Crude Oil	15,000	BOPD
3.	Natural Gas	80	MMSCFD
4.	Installation of Wellhead Platforms (WHPs) and its associated facilities and utilities.	4	Nos.
5.	Laying of infield subsea pipeline for evacuation of well fluid**	50	Km

**Note: BOPD = Barrels of Oil Per Day; MMSCFD = Million Standard Cubic Feet of Gas Per Day**

\*\*Note: Laying of infield subsea pipelines of approx. 50 km for evacuation of well fluid from WHPs. The Produced well fluid from unmanned Wellhead Platforms (WHPs) will be sent (evacuated) through the proposed subsea pipeline and will be connected to the existing pipeline at LB Platform (CB-OS/2 block). The existing pipeline at Laxmi Platform is connected to the existing Suvali Onshore Terminal for processing of well fluid. Suvali Onshore Terminal is located approximately 8.5 km in East which has adequate capacity to process well fluid produced from the proposed project.

**Co-ordinates of proposed wells for 1(b) projects:**

S. No	Well Pad ID	Latitude	Longitude	CRZ Category
1	P1	21° 5' 39.19" N	72° 15' 47.14" E	Water Body - CRZ IV A
2	P2	21° 4' 40.94" N	72° 14' 46.78" E	
3	P3	21° 6' 13.62" N	72° 16' 46.09" E	
4	E1	21° 2' 11.11" N	72° 18' 56.63" E	Water Body -Out of CRZ
5	E2	21° 1' 35.16" N	72° 16' 51.26" E	
6	E3	21°9'26.44"N	72°25'17.95"E	Water Body - CRZ IV A
7	E4	21°10'39.06"N	72°29'29.44"E	
8	E5	21°7'54.25"N	72°16'47.93"E	
9	E7	21° 5' 16.85" N	72° 19' 9.23" E	Water Body -Out of CRZ
10	E10	21° 2' 23.93" N	72° 14' 36.88" E	Water Body - CRZ IV A
11	E11	21° 9' 55.72" N	72° 18' 44.04" E	Water Body - CRZ IV A
12	E12	21° 11' 7.17" N	72° 20' 36.84" E	Water Body -Out of CRZ

13	E16	21° 3' 43.32" N	72° 15' 37.00" E	Water Body - CRZ IV A
<i>Note: Actual geographical surface coordinates of well locations will be within 2000 m radius of the proposed (tentative) coordinates considering the site suitability and geological conditions.</i>				

Proposed (Tentative) Coordinates of WHPs location				
Sl. No.	WHP ID	Latitude	Longitude	CRZ Category
1	WHP 1	21° 5'26.74"N	72°15'58.60"E	Water Body - CRZ IV A
2	WHP 2	21° 4'45.93"N	72°15'0.42"E	
3	WHP 3	21°10'39.06"N	72°29'29.44"E	
4	WHP 4	21° 9'28.49"N	72°17'38.76"E	
<i>Note: Actual geo-geographical surface coordinates of WHP locations will be within 500 m radius of the proposed (tentative) coordinates considering the site suitability and geological conditions.</i>				

### Annexure-3

#### Details of capital and recurring cost of EMP:

**A. Drilling:** The budget for implementation of the EMP including environmental monitoring would be Rs. 2.04 Crores for each well drilling.

S. No.	Particulars	Approx. budget for well (INR) in Crores
1	Environmental Monitoring	0.3
2.	Oil Spill Contingency Plan (OSCP)	1.24
3.	Waste management disposal	0.3
4.	Other misc.	0.2
<b>Total</b>		<b>2.04</b>

Operation & Maintenance cost for On board ETP & STP	
On board ETP	Operation and Maintenance of ETP
On board STP	Operation and Maintenance of STP
<b>Total</b>	<b>15.0 Lakhs (INR)</b>

**B. Production:** Budget for implementation of the EMP for each production location per year.

S. No.	Particulars	Approx. budget for well (INR) in Lakhs
1	Environmental Monitoring	10.00
2.	Waste Management	0.50
3.	Occupational Health & Safety	2.50
4.	Environment Audit	10.00
5.	Oil Spill Contingency Plan	1.24
<b>Total</b>		<b>23.84</b>

**Details of Extended EMP with proposed activities and budgetary allocation:**

S. No.	CER Activities	Taluka/ Tehsil	Village Name	Unit (Number/ Kilometers)	Unit Cost (In Lacs INR)	Cost Allocation (INR Lacs)	CER Budget (In Lacs INR)				
							Y1	Y2	Y3	Y4	Y5
<b>Public Health</b>											
1	Safe drinking water supply through installation of RO plant (Capacity 1000 Liter/ day)	Olpad	Mora, Suvali, Juna, Tena, Tunda, Chinni, Bhadut, Pinjara, Nana Kosadiya, Mota Kosadiya	15	15	225	45	45	45	45	45
<b>Environment</b>											
2	Sanitation facility (Community Toilet complex with four seat with Septic Tank and Soak pit)	Olpad	Mora, Suvali, Juna, Tena, Tunda, Chinni, Bhadut, Pinjara, Nana Kosadiya, Mota Kosadiya	25	12	300	60	60	60	60	60
<b>Renewable Energy</b>											
3	Household Biogas plant/Solar lighting etc	Olpad	Mora, Suvali, Juna, Tena, Tunda, Chinni, Bhadut, Pinjara, Nana Kosadiya, Mota Kosadiya	20	2.05	41	8.2	8.2	8.2	8.2	8.2
<b>Health Care</b>											
4	Health care/ PHCs improvement in local villages	Olpad	Mora, Suvali, Juna, Tena, Tunda, Chinni,	27	5	135	27	27	27	27	27

S. No.	CER Activities	Taluka/ Tehsil	Village Name	Unit (Number/ Kilometers)	Unit Cost (In Lacs INR)	Cost Allocation (INR Lacs)	CER Budget (In Lacs INR)					
							Y1	Y2	Y3	Y4	Y5	
			Bhadut, Pinjara, Nana Kosadiya, Mota Kosadiya									
<b>Skill Development of local Human Resource</b>												
5	Skill development of local people for enhancing their livelihood opportunities, etc. (Training e.g. Fitter, welders, Tailoring, electronics item repairing, electrical, masonry work, etc.) of unskilled villagers	Olpad	Mora, Suvali, Juna, Tena, Tunda, Chinni, Bhadut, Pinjara, Nana Kosadiya, Mota Kosadiya	38	0.5	19	3.	3.8	3.8	3.8	3.8	3.8
<b>Total</b>						<b>720</b>	<b>144</b>	<b>144</b>	<b>144</b>	<b>144</b>	<b>144</b>	<b>144</b>

\*\*\*\*\*

e-Compliance

CPC GREEN

e-Payments

e-Processing