



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

To,

The Sr. Manager - Environment
M/s Vedanta Limited(Division Cairn Oil & Gas)
Cairn Oil & Gas, Vedanta Limited, DLF Atria, DLF Phase-2, DLF City,
Gurgaon, Haryana - 122002,Cairn Oil & Gas, Vedanta Limited, DLF Atria,
DLF Phase-2, DLF City, Gurgaon, Haryana - 122002,Gurgaon,Haryana-
122002

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/AP/IND2/142679/2020 dated 11 Jan 2022. The particulars of the environmental
clearance granted to the project are as below.

| | |
|---|--|
| 1. EC Identification No. | EC26A002AP133179 |
| 2. File No. | IA-J-11011/52/2020-IA-II(I) |
| 3. Project Type | New |
| 4. Category | A |
| 5. Project/Activity including Schedule No. | 1(b) Offshore and onshore oil and gas exploration, development & production |
| 6. Name of Project | Onshore Oil and Gas Development & Production from KG/ONDSF/KAZA/2018 Block, Krishna District, Andhra Pradesh |
| 7. Name of Company/Organization | M/s Vedanta Limited(Division Cairn Oil & Gas) |
| 8. Location of Project | Andhra Pradesh |
| 9. TOR Date | 02 Apr 2020 |

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

Date: 11/05/2026

(e-signed)
Dr Vimal Kumar Hatwal
Scientist E
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.*

This is a computer generated cover page.



This has reference to your online proposal no. IA/AP/IND2/142679/2020, dated 11th 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 Onshore Oil and Gas Development & Production from KG/ONDSF/KAZA/2018 Block, Krishna District, Andhra Pradesh by M/s Vedanta Limited (Division Cairn Oil & Gas).

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-11011/52/2020-IA-II(I); dated 02nd April 2020. Public Hearing for the proposed project has been conducted by the State Pollution Control Board (APPCB) on 12.04.2021 presided by District Revenue Officer, Krishna. The main issues raised during the public hearing are related to Land lease, Land Subsidence, Hydraulic fracking, green belt, employment CSR, and well blowout.

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

| S. No. | Activity/ Product /by Product | Proposed Quantity |
|--------|---|-------------------|
| 1. | No. of Drilling Wells | 20 nos. |
| 2. | Development of well pads to setup the hydrocarbon processing facilities | 10 Nos. |
| 3. | Produce up to 30,000 Barrels of Oil per day and 30 million Metric standard Cubic Feet of gas per day. | |
| 4. | Laying of separate gas pipeline from the developed well pads and connecting to the main header pipeline already laid by GAIL and MEGHA. | |

Proposed well co-ordinates to be drilled in block KG/ONDSF/KAZA/2018:

| Well ID | Latitude | Longitude | District |
|---------|-------------------|------------------|----------|
| 1 | 16° 13' 46.661" N | 81° 0' 1.886" E | Krishna |
| 2 | 16° 13' 42.160" N | 81° 1' 48.175" E | Krishna |
| 3 | 16° 13' 29.741" N | 81° 1' 2.691" E | Krishna |
| 4 | 16° 13' 14.870" N | 81° 1' 55.831" E | Krishna |
| 5 | 16° 12' 49.232" N | 81° 1' 30.320" E | Krishna |
| 6 | 16° 12' 41.358" N | 81° 2' 9.505" E | Krishna |

| | | | |
|----|-------------------|-------------------|---------|
| 7 | 16° 11' 56.955" N | 81° 1' 18.276" E | Krishna |
| 8 | 16° 11' 20.682" N | 80° 59' 43.831" E | Krishna |
| 9 | 16° 15' 38.443" N | 80° 59' 47.748" E | Krishna |
| 10 | 16° 15' 38.420" N | 81° 3' 9.898" E | Krishna |
| 11 | 16° 15' 38.400" N | 81° 4' 17.281" E | Krishna |
| 12 | 16° 14' 33.344" N | 81° 2' 2.503" E | Krishna |
| 13 | 16° 14' 33.331" N | 81° 3' 9.880" E | Krishna |
| 14 | 16° 14' 33.311" N | 81° 4' 17.257" E | Krishna |
| 15 | 16° 13' 28.221" N | 81° 4' 17.234" E | Krishna |
| 16 | 16° 13' 28.196" N | 81° 5' 24.604" E | Krishna |
| 17 | 16° 12' 23.151" N | 81° 3' 9.846" E | Krishna |
| 18 | 16° 12' 23.132" N | 81° 4' 17.210" E | Krishna |
| 19 | 16° 11' 15.987" N | 81° 3' 10.719" E | Krishna |
| 20 | 16° 11' 15.967" N | 81° 4' 18.077" E | Krishna |

Note: Actual geographical surface coordinates of well locations and well pad will be within 500 m radius of the proposed coordinates considering physical site conditions such as land availability, preferably non-agricultural land etc

6. Onshore Block comprising approximately area of 114.93 Km². Total 90 hectares shall be required from the entire Kaza Block area. Industry will develop greenbelt in an area of 33.00 % i.e. 29.7 ha out of total area of the project.

7. The estimated project cost is Rs. 650 Crores. Total capital cost earmarked towards environmental pollution control measures is Rs. 33 Crores and the Recurring cost (operation and maintenance) will be about Rs. 3.3 Crores per annum. Total Employment will be 125 persons as direct & 80 persons indirect. Industry proposes to allocate Rs. 6.5 Crores towards Corporate Environment Responsibility.

8. There are No national parks, wildlife sanctuaries, Biosphere reserves, Tiger/Elephant reserves, Wildlife Corridors etc. within 10 km distance from the proposed wells. Machilipatnam canal passes through the center of the Block.

9. Ambient air quality monitoring was carried out at 12 locations during 1st December 2019 to 29th February 2020 and the baseline data indicates the ranges of concentrations as: PM₁₀ (40.3 – 65.3 µg/m³), PM_{2.5} (19 – 35.3 µg/m³), SO₂ (11.1 – 18.5 µg/m³) and NO_x (14.2 – 22.6 µg/m³). AAQ modeling study for point source emissions indicates that the maximum incremental GLCs after the proposed project would be 0.07 µg/m³, 0.18 µg/m³ and 7.24 µg/m³ with respect to PM₁₀, SO_x and NO_x. The resultant concentrations are within the National Ambient Air Quality Standards (NAAQS).

10. Total water requirement is 1000 KLD will be met from Bore well, deep saline water. Effluent (industrial) of 30 KLD quantity from drilling of each well will be

treated through Mobile ETP and reused for drilling operations. The plant will be based on Zero Liquid discharge system.

11. Power requirement for the proposed project will be 1300 KVA and will be met from D.G. Sets/ GEG. The rated capacity of the DG sets are Camp sites – 150 kVA – 2No’s; Drilling operation – 2 No’s – 1500 kVA and 2 No’s – 500 kVA during drilling Operations. DGs and or GEGs at each well pad location would be 150 kVA – 2No’s and 500 kVA – 2No’s during production. Stack (height 2.5 m for 150 kVA DG. Set, 3.5 m for 500 kVA D.G. Set and 500 kVA GEG) will be provided as per CPCB norms to the proposed DG sets.

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

13. Details of Solid waste/Hazardous waste generation and its management:

| S. No. | Type of Hazardous Waste | HW Category | HW during drilling phase (from drilling a well) | HW during Production phase (from each production well pad location) | Hazardous waste Disposal Practice |
|--------|--|-------------|---|---|--|
| 1. | Drill Cutting containing oil | 2.1 | 500 MT/Well | - | SLF/Co-processing |
| 2. | Sludge containing oil | 2.2 | 1 MT/well | 1 MT/ annum | SLF/Co-processing |
| 3. | Drilling mud and other drilling wastes | 2.3 | 300 MT/Well | - | SLF/Co-processing |
| 4. | Discarded containers/ barrels/ | 33.3 | 4 MT/well | 5 MT/ annum | Sales to registered recyclers |
| 5. | Used Oil | 5.1 | - | 1.0 TPA | Sales to registered recyclers/Re-process |
| 6. | Spent / waste oil | 5.1 | 4.00 MT/Well | 5 MT/ annum | Sales to registered recycler/Reprocess |
| 7. | Wastes/ residues containing oil | 5.2 | 1.00 MT/Well | 1 MT/ annum | Sales to registered recycler /Incineration |
| 8. | Lead Acid batteries | - | - | 0.5 MT / annum | Sales to registered recyclers |
| 9. | E-Waste | - | - | 0.2 MT / annum | Sales to registered recyclers |
| 10. | Bio Medical waste | - | 5 Kg | 10 Kg | SLF/Incineration |

14. During deliberations, EAC discussed following issues:

- The Committee agreed to the revised drilling well locations as submitted by the PP in accordance with the NoC granted by the Water Resources Department (WRD), Government of Andhra Pradesh, vide G.O.Ms. No. 75 dated 22.12.2025.
- The committee suggested that PP shall strictly abide by all the 15 specific conditions stipulated by the Water Resources Department (WRD), Government of Andhra Pradesh, in the aforesaid NoC. PP agreed to it.

- As desired by the committee, PP has submitted the application letter seeking the NOC from APWALTA regarding groundwater permission which was submitted by PP.
- Further, the committee noted that representation raising technical concerns against the project was received vide e-mail dated 09.01.2026. The project proponent submitted point wise reply to the concerns raised which the committee found in order.

15. The proposal was considered by the EAC in its 49th meeting held during 27th- 28th January, 2022, 20th – 21st January, 2026 and 23rd February, 2026 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.

16. 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.

17. 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.

18. 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.

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 Clearance to the project Onshore Oil and Gas Development & Production from KG/ONDSF/KAZA/2018 Block, Krishna District, Andhra Pradesh by M/s Vedanta Limited (Division Cairn Oil & Gas), 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) The net water requirement shall not exceed 30 KLPD per well drilled which will be met from Bore well, deep saline water. 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. 10 Crores towards CER which shall be spent to set up one small hospital and providing ambulance services to the areas nearby in consultation with District Magistrate.

(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.

(xxi) The project activity shall only be confined drilling of 20 wells as per the revised proposal submitted.

(xxii) The Industry shall adhere to all the terms and conditions mentioned in G.O.Ms. No. 75 dated 22.12.2025 issued by Water Resources Department (WRD), Government of Andhra Pradesh

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.

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.

(Dr. Vimak Kumar Hatwal)
Member Secretary (Ind-2)/Scientist 'E'

Copy to: -

1. The Secretary, Environment, Forest, Science & Technology, Aranya Bhavan, K.M. Munshi Road, Nagarampalem, Guntur-522004, Andhra Pradesh.
2. The Regional Officer, Regional Office (RO), Vijayawada, Ministry of Environment, Forest and Climate Change, Green House Complex, Gopal Reddy Road, Vijayawada – 520010, Andhra Pradesh.
3. The Member Secretary, Central Pollution Control Board, Parivesh Bhavan, CBD-cum-Office Complex, East Arjun Nagar, Delhi - 32
4. The Member Secretary, D.No. 33-26-14 D/2, Near Sunrise Hospital, Pushpa Hotel Centre, Chalamalavari Street, Kasturibaipet, Vijayawada – 520 010.
5. The Member Secretary, Central Ground Water Authority, 18/11, Jamnagar House, Mansingh Road, New Delhi – 11
6. Compliance and Monitoring Division, Ministry of Environment, Forest and Climate Change, Indira Paryavaran Bhawan, Jor Bagh Road, New Delhi.
7. The District Collector, Krishna, Andhra Pradesh
8. Guard File/Monitoring File/ Parivesh Portal /Record File.

(Dr. Vimal Kumar Hatwal)
Member Secretary (Ind-2)/Scientist 'E'
E-mail: vk.hatwal@gov.in