सत्यमेव जयते

File No: OL/EC/IND2/MCB/4468

Government of India

Ministry of Environment, Forest and Climate Change

(Issued by the State Environment Impact Assessment Authority(SEIAA), CHHATTISGARH)

****

Dated: **30/01/2026**

To,

M/s Vedanta Limited (Division: Cairn Oil & Gas)
Coalbed Methane (CBM) Exploration Block SR-ONHP (CBM)-2021/6
Village - Dhudhabahara, Rautsarai, Paldanauli and others Tehsil - Manendragarh, Sonhat, Oudgi and others District – Korea, Surajpur and Manendragarh-Chirimiri-Bharatpur, Chhattisgarh
dilipkumar.bera@cairnindia.com

Subject: Grant of prior Environmental Clearance (EC) for mining of Limestone (Minor Minerals), capacity from 7,788 Ton/Year Kharsa No. 393, area 1.40 Ha. At Village - Piplawand, Tehsil & District – Bastar, Chhattisgarh under the provision of the EIA Notification 2006-regarding

Sir/Madam,

This is in reference to your application for Grant of EC under the provision of the EIA Notification 2006-regarding in respect of project Exploration (Core Hole Drilling) of Coal Bed Methane (CBM) in block SR-ONHP(CBM)-2021/6 (584.71 Sq. Km.) in Korea, Surajpur and Manendragarh-Chirimiri-Bharatpur Districts, Chhattisgarh submitted to Ministry vide proposal number SIA/CG/IND2/528182/2025 dated 03/06/2025.

2. The particulars of the proposal are as below:

(i) EC Identification No.	EC25C0302CG5618514N
(ii) File No.	OL/EC/IND2/MCB/4468
(iii) Clearance Type	EC
(iv) Category	B2
(v) Project/Activity Included Schedule No.	1(b) Off-shore and onshore oil and gas exploration, development and production
(vii) Name of Project	Exploration (Core Hole Drilling) of Coal Bed Methane (CBM) in block SR-ONHP(CBM)-2021/6 (584.71 Sq. Km.) in Korea, Surajpur and Manendragarh-Chirimiri-Bharatpur Districts, Chhattisgarh
(viii) Name of Company/Organization	M/s Vedanta Limited(Division Cairn Oil & Gas)
(ix) Location of Project (District, State)	Manendragarh-Chirmiri-Bharatpur(M C B),

	CHHATTISGARH
(x) Issuing Authority	SEIAA
(xi) Applicability of General Conditions	no
(xii) Applicability of Specific Conditions	no

It is noted that original application is for Exploration (16 nos. of Core Hole Drilling) of Coal Bed Methane (CBM) in block SR-ONHP (CBM)-2021/6, block covers an area of 584.71 Sq.Km. After deliberation, SEIAA unanimously accepted the recommendation of SEAC-1 and decided to grant Environmental Clearance for Exploration (16 nos. of Core Hole Drilling) of Coal Bed Methane (CBM) in block SR-ONHP (CBM)-2021/6, block covers an area of 584.71 Sq.Km in Village- Dhudhabahara, Rautsarai, Paldanauli and others, Tehsil - Manendragarh, Sonhat, Oudgi and others Districts - Korea, Surajpur and Manendragarh-ChirimiriBharatpur, under the EIA Notification, 2006 (as amended) listed in Schedule 1(b) Onshore Gas Exploration under Category - "B2".

3. This Environment Clearance is for Exploration (16 nos. of Core Hole Drilling) of Coal Bed Methane (CBM) in block SR-ONHP (CBM)-2021/6, block covers an area of 584.71 Sq.Km in Village- Dhudhabahara, Rautsarai, Paldanauli and others, Tehsil - Manendragarh, Sonhat, Oudgi and others Districts - Korea, Surajpur and Manendragarh-ChirimiriBharatpur, Chhattisgarh.

4. In view of the particulars given in the Para 1 above, the project proposal interalia including Form-1 (Part A and B) were submitted to the SEIAA under the provision of EIA notification 2006 and its subsequent amendments.

5. The above-mentioned proposal has been considered by State Environment Impact Assessment Authority (SEIAA) in the meeting held on 07/01/2026. The minutes of the meeting and all the Application and documents submitted are available on PARIVESH portal which can be accessed by scanning the QR Code above.

6. The brief about configuration of plant/equipment, products and byproducts and salient features of the project along with environment settings, as submitted by the Project proponent in Form-1 (Part A and B) presented are annexed to this EC as Annexure (1).

7. The SEAC, in its meeting held on 30/10/2025, based on information & clarifications provided by the project proponent and after detailed deliberations on all technical aspects and compliance thereto furnished by the Project Proponent, recommended the proposal for grant of Environment Clearance under the provision of EIA Notification, 2006 and as amended thereof subject to stipulation of Specific and Standard EC conditions as detailed in the point below.

8. The SEIAA has examined the proposal in accordance with the Environment Impact Assessment (EIA) Notification, 2006 & further amendments thereto and after accepting the recommendations of the SEAC and hereby decided to grant Environment Clearance for the instant proposal under the provisions of EIA Notification, 2006 and as amended thereof subject to compliance of the Specific and Standard EC conditions as given in Annexure (2).

9. The Ministry reserves the right to stipulate additional conditions, if found necessary.

10. The Environmental Clearance to the aforementioned project is under provisions of EIA Notification, 2006. It does not tantamount to approvals/consent/permissions etc. required to be obtained under any other Act/Rule/regulation. The Project Proponent is under obligation to obtain approvals /clearances under any other Acts/ Regulations or Statutes, as applicable, to the project.

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

Copy To

S.No.	Address
1	Director, Ministry of Environment, Forest and Climate Change, Prithvi Wing, 2nd Floor, Indira Paryavaran Bhawan, Jorbagh Road, New Delhi - 100003
2	Integrated Regional Office RAIPUR, MoEF&CC , Govt. of India , Ground Floor, Aranya Bhawan, North Block, Sector- 19,Naya Raipur, Atal Nagar, Chhattisgarh – 492002

3 Director,
Directorate of Geology and Mining, Chhattisgarh, Indravati Bhavan, Block-4, Second Floor, Nawa Raipur Atal Nagar, Chhattisgarh India

4 Member Secretary, Chhattisgarh Environment Conservation Board, Paryavas Bhawan, Sector-19, Nava Raipur Atal Nagar, District-Raipur (Chhattisgarh)

5 Member Secretary, Central Ground Water Board, West Block-2, Wing-3, Ground Floor, Sector-1, R.K.Puram, New Delhi - 110066

6 Collector, Office of the Collector, Korea, Surajpur and Manendragarh-Chirimiri-Bharatpur, District-Korea, Surajpur and Manendragarh-Chirimiri-Bharatpur (C.G.) for information and necessary action.

7 Regional Officer, Regional Office, Chhattisgarh Environment Conservation Board, Ambiikapur for information and necessary action.

Annexure 1

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

1. Additional Conditions:

S. No	EC Conditions
1.1	1. Project Proponent shall ensure that all Drilling Wells will be strictly confined within the allotted block boundary. 2. This Environmental Clearance is only for 16 nos of exploratory core holes drilling in allotted block and is subject to compliance of provision of condition no 5.3 of Article 5 of revenue sharing contract (RSC) made with Director General (Hydrocarbon) i.e, to inform the proposed additional work program to the Central and State Government. Copy of this information letter should be submitted to SEIAA CG and Regional Officer CECB. 3. Deviation in locations of core holes points is permitted to maximum 500 meters from original location only because of justified reasons subject to prior permission of Regional officer after taking in account the enforced EC conditions. Copies of such permission letter should be submitted to SEIAA CG. 4. The project proponent shall obtain the temporary surface right of land required for proposed drill pads and approach road. 5. In case the involved land is forest land, then project proponent shall obtain prior "No Objection Certificates" from district Forest Officer of related forest division. In case pitting, trenching is not permitted in the forest land, then project proponent shall define in the code of practice how he will arrange the alternate storage tanks with HDPE lining in place of HDPE lined pits for storage of WBM and used waste water. As per MoEF &CC guidelines, after completion of core holes drilling and in case of abandoning the hole, and if the forest department wants to use it as ground water recharge structure, then the project proponent shall make required arrangement for the same. 6. In case the land involves the private land, the copy of "Consent / agreement letter" with land owner for temporarily use of his land should be submitted to concern Regional officer CECB and to District Mining officer and SEIAA before the start of drilling. After completion of drilling / contract period the project proponent should restored the used land to it's original use and handover the land to the owner after getting the receipt with NOC of land owner. 7. In case the land involved are government land, then "No Objection certificate" for temporary use of land should be obtained from district Collector before the start of drilling. The copy of

S. No	EC Conditions
	NOC should be submitted to Regional officer CECB, district Mining officer and SEIAA before start of drilling. The project proponent should ensure the restoration of land to it's original use after completion of drilling work. 8. If the location of core holes is closer to 300 meters from habitation or any residential area, then project proponent should erect a screen of GI Sheet of 5 meters height in all the length of drill pads facing to habitation area to prevent the propagation of air and noise pollution and to prevent visibility of operation to the habitation area. 9. In case the core hole's location is nearer to surface water source, then project proponent should take adequate safety precaution measures to prevent the water get polluted from drilling activities. Suitable arrangement for drains, embankments, check dams, settling ponds and treating of effluent to make it harmless should be done. 10. The drill points E-01, E-02, E-04, E-05, W-06 and W-07 are located nearer to residential area, hence suitable action as proposed in this EC letter should be taken up before start of drilling. 11. The drill points E-03, E-04, E-05, W-01, and W-06 are located nearer to surface water source, hence safety precautions as suggested in this EC letter should be complied to prevent the water pollution. 12. The code of practice (C O P) should be framed by project proponent for all individual core holes with considering it's location w. r. t. habitation area, water source, forest area and any other sensitive area for preventing and mitigating the environmental pollution. 13. The drill rig, DG set and other machines used in drilling activities shall be tested daily for it's fitness for operation before start of drilling by appointed Drill engineer /mechanical engineer and records of examination should be maintained and counter signed by project manager. 14. Similarly, all safety appliances fitted in rig / machineries including blow out preventer should be also tested daily by drill appointed Engineer/ Mechanical Engineer and records of same should be maintained and countersigned by project manager. 15. The Glycols and other hazardous chemical to be used in formation of WBM should be stored/ handled with proper precaution. Only trained persons should be deployed in this work and should use suitable PPEs while in work. The precaution prescribed in submitted EMP and pre-feasibility report should be complied. 16. As the materials and chemicals used in formation of WBM are hazardous in nature specially when there is long period exposure, therefore special care is required to be taken up while it's handling, storage during course of drill activity. The precaution prescribed in submitted EMP and pre-feasibility report should be complied. 17. The project proponent should ensure the land scaping to original status after completion of drilling work and should also take suitable precautions for preventing the contamination of land with hazardous materials, as prescribed in the regulatory provisions, in this EC conditions and as given in submitted EMP by project proponent. 18. Drill cuttings and drill mud will be treated as per GSR 546 (E) dated 30tH August'2005 to render them harmless. 19. The project proponent shall take adequate precaution for suitable treatment of generated solid waste and liquid waste to make it harmless before it is re- used or to be abandoned. The test report of NABL lab for confirmation of harmless of generated waste both solid and liquid should be submitted to the Regional officer CECB and only after his permission, the generated waste

S. No	EC Conditions
	shall be used / disposed off. Precaution as laid down in submitted pre- feasibility report and environment Management Plan should be implemented for preventing the pollution of land, surface water and ground water. 20. As committed in submitted risk mitigation measures, the project proponent shall comply the international safety practice in drilling operation. 21. Before start of operation, the project proponent shall frame the Standard operating practice (SOP) for drill operation with considering safety and environment management aspects. The copy of SOP should be submitted to district Mining officer, Regional officer CECB, and SEIAA CG. 22. The project proponent shall frame the emergency preparedness plan with responsibility matrix for meeting out any emergency during course of drilling and same should be duly approved by appointed owner /agent of the project. The copy of the same should be submitted to the district Collector and other emergency controlling / dealing authority of the district. 23. The Project proponent shall strictly comply the submitted "Risk management plan" for eliminating the risk of sudden and violent release of gas due to other unsafe acts/ conditions. 24. Blow out preventer (BOP) shall be installed and tested periodically for preventing the sudden blow out during drilling. 25. Other safety appliances as described in risk mitigation plan should be fitted in good repair condition in drill rigs to warn the operator and eliminate the accident. 26. All method to be adopted for early detection of out flow of methane gas and H2S (Hydrogen Sulphide Gas) during course of drill operation for preventing any accident and atmosphere pollution. 27. The project proponent shall make arrangement for training of all the team members of drilling for understanding and following the framed Standard operating practice (SOP) for blow out. 28. The project involve the strengthening of approach roads, drill pad site by deploying heavy earth moving machineries, and more than 50 to 80 trips movements of heavy trucks. Hence project proponent shall make arrangement for eliminating the dust generation by keeping wet the road surface. 29. PP shall submit detail plan to protect surface water bodies like River Kewai, River Gokhani, River Baniya and check dams at the time of CTO, located very near to the site number E-01, E-02, E-03, E-04, E-05, W-04, W-05, W-06 and W-07 and Check Dam near site W-01. It is recommended that Exploration activity may be avoided in these locations during the rainy s eason. 30. Consent of CER shall be submitted at the time of CTO.
1.2	Project Cost Rs. 53.14 Cr CER Details Rs. 0.47 Cr (5 Years) S.NoCER Activities Taluka/ Tehsil Village Name Units (Number/Kilometers) Unit Cost(In INR) Cost Allocation (INR lacsLacs)

S. No	EC Conditions					
	1	Safe drinking water supply through installation of RO plant (Capacity 500 l/d)	Odgi Bhaiyathara	Bhanwarkhoh, Rampur, Indarpur, Paldanauti, Parsiya	5	4	20
	2	sanitation facility (community toilet complex with four seat with septic tank and soak pit)	Kelhari	Balshiv, Musara, Deviganj, Biharpur, Bairagi, Tarabahara	6	1.5	9
	3	Solar Lighting	Kelhari Bhaiyathara	Balshiv, Musara, Deviganj, Biharpur, Bairagi, Tarabahara, Ghodbandha, Bhanwarkhoh, Rampur, Indarpur, Paldanauti, Parsiya	15	1	15
	4	Health care/ PHCs improvement in local villages	Sonhat	Dhanpur-Rajoli, Palaridand, Kishori	4	0.64	2.56
	5	Skill development of local people for enhancing their livelihood opportunities, etc. (training e.g. fitter, welders, tailoring, electronics item repairing, electrical,	Kelhari	Balshiv, Musara, Deviganj, Biharpur, Bairagi, Tarabahara, Ghodbandha	40	0.0025	0.10

S. No	EC Conditions
	masonry wok, etc.) of unskilled villagers Total 47 Grand Total CER Summary Total Project Cost (IN CRORE INR) 53.14 Total CER Cost (IN CRORE INR) (5 years) 0.47 CER Cost per year (IN CRORE INR) 0.09

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

1. Nbwl Conditions

S. No	EC Conditions
1.1	**Comments from CECB:** **Following comments received from CECB via Letter no. 1291/RO/CECB/2025 dated 06.11.2025 incompliance of the Office Memorandum issued by MoEF&CC dated 14.01.2025:-** **S.No. Particulars Details** 1. Project Site Details Core Hole C1 :- Nearest Habitation – Dhanpur- Rajoli Nearest Forest – Amhar PF Distance outside the forest – 0.052 km Core Hole C2 :- Nearest Habitation – Palari dand Nearest Forest – Tanjara RF – 0.45 km River – Gokhnai Distance outside the forest – 0.65 km Core Hole E1 :- Nearest Habitation – Bhanwarkhoh Nearest Forest –CP No. 1586 Anandpur Distance outside the forest – 0.56 km Core Hole E2 :- Nearest Habitation – Rampur Nearest Forest – CP No. 1593 Rampur Distance outside the forest – 0.49 km Core Hole E3 :- Nearest Habitation – Parsia Nearest Forest – CP No. 1592 Parsia Distance outside the forest – 3.0 km

S. No	EC Conditions		
			Core Hole E4 :- Nearest Habitation – Indarpur Nearest Forest – CP No. 1579 Indarpur Distance outside the forest – 0.6 km River – Gokhnai – 0.48 km Core Hole E5 :- Nearest Habitation – Paldanauli Nearest Forest – CP No. 1528 Paldanauli Distance outside the forest – 0.5 km Core Hole W1 :- Nearest Habitation – Balshiv Nearest Forest – CP No. 813 Biharpur Inside the forest Core Hole W2 :- Nearest Habitation – Mausra Nearest Forest – CP No. 734 Manendragarh Inside the forest Core Hole W3 :- Nearest Habitation – Deviganj Nearest Forest – Ratoura RF Distance outside the forest – 0.3 km Core Hole W4 :- Nearest Habitation – Biharpur Nearest Forest – Nangwa RF Distance outside the forest – 0.03 km Core Hole W5 :- Nearest Habitation – Kishori Nearest Forest – Paradol PF Distance outside the forest – 2.36 km Core Hole W6 :- Nearest Habitation – Bairagi Nearest Forest – Nangwa RF Distance outside the forest – 0.56 km Core Hole W7 :- Nearest Habitation – Tarbahra Nearest Forest – Biharpur RF Distance outside the forest – 0.45 km Core Hole W8 :- Nearest Habitation – Godbandha Nearest Forest – Dehuli RF Distance outside the forest – 0.06 km Core Hole W9 :- Nearest Habitation – Berauridand Nearest Forest – Devra RF Distance outside the forest – 0.5 km
	2.	Project Site is feasible or not	Site is feasible for proposed activities.
	3.	Environment Safeguards	1. Mine Management shall comply all the SOP/ Directions issued by CPCB.

S. No	EC Conditions
	2. Mine Management shall comply the Water (Prevention and Control of Pollution) Act, 1974 and Air (Prevention and Control of Pollution) Act, 1981.

2. Specific Conditions

S. No	EC Conditions
2.1	**Specific Conditions:-** 1. 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. 2. The project proponent shall strictly comply the provisions of all applicable Rules, Regulations like Petroleum and Natural gas Rules 2003, Oil mines Regulations 1984, agreement made with Central government in Revenue sharing contract and State government in petroleum exploration license (PEL). 3. The project proponent shall comply the Environment Protection Act 1986 and Rules, Hazardous and other waste (Management and Trans boundary movement) Rules 2016, Guidelines for disposal of solid waste by oil drilling and gas extraction industry as notified, Manufacture, Storage and Import of Hazardous Chemical 1989, The Public Liabilities Insurance Act 1991, The Petroleum Act 1934, The Water (Prevention and control pollution) Act 1974, The Standards for Liquid discharge by Oil drilling and Gas extraction Industry as Notified, The Air (Prevention and Control of Pollution) Act 1981, Standards for gaseous emission by Oil drilling and Gas extraction Industry as Notified, The Environment (Protection) Second amendment Rules 2002 – Emission Standard for New Gen sets, The Noise (Regulation & Control) Rules 2000. 4. The project proponent shall strictly adhere the all provisions made in submitted environment management Plan (EMP), Risk mitigation measures, and Pre- feasibility report, w.r.t. safety and pollution control measures. 5. 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. 6. The project proponent shall strictly comply the provisions of all applicable Rules, Regulations like Petroleum and Natural gas Rules 2003, Oil mines Regulations 1984, agreement made with Central government in Revenue sharing contract and State government in petroleum exploration license (PEL). 7. The project proponent shall comply the Environment Protection Act 1986 and Rules, Hazardous and other waste (Management and Trans boundary movement) Rules 2016, Guidelines for disposal of solid waste by oil drilling and gas extraction industry as notified, Manufacture, Storage and Import of Hazardous Chemical 1989, The Public Liabilities Insurance Act 1991, The Petroleum Act 1934, The Water (Prevention and control pollution) Act 1974, The Standards for Liquid discharge by Oil drilling and Gas extraction Industry as Notified, The Air (Prevention and Control of Pollution) Act 1981, Standards for gaseous emission by Oil drilling and Gas

S. No	EC Conditions
	extraction Industry as Notified, The Environment (Protection) Second amendment Rules 2002 – Emission Standard for New Gen sets, The Noise (Regulation & Control) Rules 2000. 8. The project proponent shall strictly adhere the all provisions made in submitted environment management Plan (EMP), Risk mitigation measures, and Pre- feasibility report, w.r.t. safety and pollution control measures. 9. No pipelines or its part shall be laid in the Forest land/Protected Area without prior permission/approval from the Competent Authority. 10. Total fresh water requirement shall not exceed 39 m3/day will be met from groundwater. Prior permission shall be obtained from the concerned regulatory authority. 11. The project proponent will treat and reuse the treated water within the factory and no waste or treated water shall be discharged outside the premises. Mobile ETP coupled with RO shall be installed to reuse the treated water in drilling system. Size of the waste shall be equal to the hole volume+ volume of drill cutting and volume of discarded mud if any. Two feet free board may be left to accommodate rain water. There shall be separate storm water channel and rain water shall not be allowed to mix with waste water. Alternatively, if possible pit less drilling be practiced instead of above. 12. During production, storage and handling, the fugitive emission of methane, if any, shall be monitored using Infra-red camera/ appropriate technology. 13. The project proponent also to ensure trapping/storing of the CO2 generated, if any, during the process and handling. 14. Approach road shall be made pucca to minimize generation of suspended dust. 15. 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. 16. 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. 17. 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. 18. 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. 19. Blow Out Preventer system shall be installed to prevent well blowouts during drilling operations. 20. 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

S. No	EC Conditions
	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. 21. 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. 22. As per the Ministry's OM dated 30.09.2020 superseding the OM dated 01.05.2018 regarding the Corporate Environmental Responsibility, and as per the action plan proposed by the project proponent to address the socio-economic and environmental issues in the study area, the project proponent, as committed, shall provide education funds in technical training centers/ support in nearby village's schools, support in health care facilities, drinking water supply and funds for miscellaneous activities like solar street lights, battery, solar panel etc., in the nearby villages. The action plan shall to be completed within time as proposed. 23. No lead acid batteries shall be utilized in the project/site. 24. 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. 25. 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. 26. 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 MOEFCC on 12th 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. 27. Oil content in the drill cuttings shall be monitored and report & shall sent to the Ministry's Regional Office. **General Conditions :-** 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. 2. The energy source for lighting purpose shall be preferably LED based, or advanced having preference in energy conservation and environment betterment. 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

S. No	EC Conditions
	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). 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. 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. 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. 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. 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. 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 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. 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. 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. **NBWL Conditions :-** 1. The environmental clearance is subject to obtaining prior clearance from the wildlife angle, including clearance from the Standing Committee of the National Board for Wildlife, as applicable, as per the Ministry's OM dated 8th August, 2019. Grant of environmental clearance

S. No	EC Conditions
	does not necessarily imply that Wildlife Clearance shall be granted to the project and that their proposal for Wildlife Clearance will be considered by the respective authorities on its merit and decision taken. PP shall also strictly follow the conditions mentioned in existing NBWL clearance. 2. 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.

Annexure 2

Details of Products & By-products

Name of the product /By-product	Product / By-product	Quantity	Unit	Mode of Transport / Transmission	Remarks (eg. CAS number)
Core Hole Drilling	Core Hole Drilling	16	Nos.	None	

M/s Vedanta Limited (Division: Cairn Oil & Gas)
Mr. Dilip Kumar Bera, Sr. Manager Vedanta Environment
Coalbed Methane (CBM) Exploration
Block SR-ONHP (CBM)-2021/6
Village - Dhudhabahara, Rautsarai, Paldanauli and others
Tehsil - Manendragarh, Sonhat, Oudgi and others
District – Korea, Surajpur and Manendragarh-Chirimiri-Bharatpur
(File No. – 4468)

Subject	Details related to the Applied Case
Online Application	EC Proposal no. - 528182 Applied Date – 03/06/2025
Name of the Project	Exploration (Core Hole Drilling) of Coal Bed Methane (CBM) in block SR-ONHP(CBM)-2021/6
Description of Project	The proposed project activities mainly involve to drill 16 Nos of exploratory Corehole/well for intensive exploration for CBM discovery in Chhattisgarh. The specific project activities consist of drilling of Coreholes, Test Wells.

Total cost of the project	Rs 53.14 Cr
Category of the project	As per the Amendment in EIA Notification 2006 vide S.O. no. 236 (E) dated 16/01/2020 S. No. 1 (Mining, extraction of natural resources and power generation), Project activity “1 (b)”- Offshore and onshore oil and gas exploration, development & production; Category - B2
Applied Area & Capacity	Area – 584.71 sq. km Name of product - CBM Exploration Wells Capacity/Quantity – 16 Numbers
Details of Meeting	Intimation Email for Presentation Date : 23/06/2025 659th Meeting of SEAC-1 Dated 30/06/2025
Representatives present for presentation	Mr. Ankit Sharma, (Manager Environment) Mr. Aneesh Jha, (Manager Strategy) Ms. Sholini Meena, (Engineer Environment) Consent of Authorized representative – Not Submitted EIA Coordinator – Ms. Sandhya Kondaveety from AECOM India Pvt. Ltd. Gurgaon
Name of blocks	SR-ONHP(CBM)-2021/6
Area of blocks	584.71 Sq. Km.
Number of Wells & Type	16 Nos. of exploratory Core hole/wells (MCB – 8 nos., Koriya – 3 nos., Surajpur – 5 nos.)
Depth of wells	500-1500 meter, True vertical depth (TVD)
Quantity of Drilling Fluid	200-500 m3/well (Drilling mud will be disposed of in accordance with Notification & CPCB guidelines dated April, 2021 - S.R 72 point no C, Pg. 311-313. “Guidelines for Disposal of Solid Waste, Drill Cutting and Drilling Fluids for Offshore and Onshore Drilling Operation”).
Type of Drilling Mud	Water based Bentonite mud
Drill cutting	The drill cuttings associated with WBM from the drilling operations will be temporarily stored in well-designed HDPE lined pit and will be further used as subgrade material for construction; backfilling in low lying areas; etc.
Land	Private and Government
Land Required	Approx. 50m X 50m (~0.25 Ha.) land will be required for each Core Hole drilling
Duration	20-30 days (per site)
Revenue Sharing Contract (RSC)	Revenue Sharing Contract between The Government of India and Vedanta Limited under Hydrocarbon Exploration and Licensing policy with respect to contract area identified as block SR-ONHP (CBM)-2021/6. Basin Name – South Rewa Onshore Area – 584.71 sq. km
Petroleum Exploration Licence (P	Letter from Chhattisgarh Govt., Mineral Resources Department, Mahanadi Bh

EL)	awan, Nava Raipur Atal Nagar of serial no. F 2-3/2022/12, Atal Nagar dated 15 September 2023 is submitted. 28 locations of exploration activities is mentioned.
Environmental Settings of the Area	Reserve Forest - Amhar PF, Tanjara RF, Paradol PF, Kanai RF, Chapda PF, Kudargarh RF, Biharpur RF, Ratoura RF, Nangwa RF, Dehuli RF are within the block area.
Connectivity	The project location is situated in Korea, Surajpur and Manendragarh-Chirmiri-Bharatpur, Chhattisgarh. Nearest village-Rajauli & Parsiya are adjacent to Block Boundary. SH-3 & SH-15 passing through the block. Nearest Airport – Raipur 250 km Baikunthpur railway station - 20 Km Gokhnai Rivers is passing through the block.
Well Drilling Process	The exploitation of hydrocarbons requires the construction of a conduit between the surface and the reservoir, which is achieved by the drilling process. Core Holes will be drilled using a Mechanical/Electric/Hydraulic Land Rig (Truck Mounted) of up to 500 HP capacity, equipped with a Rotary/Top Drive System. To support drilling operation, the following systems and services will be included at the rig: • Portable Living Quarters (Porta Cabin) – to house essential personnel on site on a 24 hr basis. These units are provided with Bath/Washroom. • Crane-age - cranes for loading/offloading equipment and supplies. Additionally, there will be other ancillary facilities like Drilling mud system, waste pit, freshwater pit, Drill Cementing equipment etc. and utilities to supply Power (DG sets), water, fuel (HSD) to the drilling process and will be set up as a part of the project. The following shows the various phases of the drilling activities and model of drilling process respectively. 1. Site selection after prospect Identification 2. Temporary land acquisition on lease 3. Site and access road preparation 4. Drilling activities 5. Complete the well and suspend for production in case of hydrocarbon find 6. Decommissioning & closure of wells in case no success
Ecology/Biodiversity Area	No Inter-state border, national park, sanctuary, critically polluted area declared by the Central Pollution Control Board, ecologically sensitive area or declared biodiversity area located within its 5 km perimeter.

Raw materials required and source

Initial Well Construction

Wells will be drilled in sections, with the diameter of each section decreasing with increasing depth. Before commencing the actual drilling, large diameter pipe (Conductor) will be lowered into a hole and cemented/grouted. Conductor pipes provide a conduit for the return fluid during drilling next section and also prevent unconsolidated material falling into hole and potential washout problems. Typical depths of such pipes are 6m. The lengths and diameters of each section of the well will be determined prior to the starting of the drilling activities and are dependent on the geological conditions through which the well is to be drilled. Once each section of the well is completed, the drill string is lifted and protective steel pipe or casing lowered into the well and cemented into place. The casing helps to maintain the stability of the hole and reduce fluid losses from the well bore into surrounding rock formations. It is a representative of a 1000 m core well; Depths will change as per requirements. Coring is carried out in entire coal zone

with bit size ~96 mm and core size of ~63.5 mm.

Drilling

During drilling activities, materials like HSD, Steel (in the form of casings & tubulars) and chemicals like barite, cement and bentonite will be required. Other production equipment like tubular (Casing and tubings), packer etc., and chemicals for mud and cementing required for the drilling operations and shall be procured by the company from within the country and from abroad before the commencement of operations. Water based mud/ Compressed air will be used for drilling.

WBM typically consists of water, bentonite, polymers and barite. Other chemical additives, viz. glycols and salts, may be used in conjunction to mitigate potential problems related to hydrate formation.

Requirement WBM (approx.): 200-500 m3/well.

Resource optimization / recycling and reuse envisaged in the project

Maximum care will be taken for resource optimization, wherever possible with an aim of

- Resource Conservation.
- Elimination of Waste Streams.
- Minimizing Waste.
- Reuse /Recycle of Wastes
- The drill cuttings associated with WBM from the drilling operations will be temporarily stored in well-designed HDPE lined pit and will be further used as sub grade material for construction; backfilling in low lying areas; etc.

Water Based Mud composition:

S.No.	Composition	Qty. each core hole drilling
1.	Polymer	0.5 MT
2.	Bentonite Powder	4 MT
3.	CMC Powder	0.1 MT
4.	Caustic Soda	0.025 MT
5.	Mud Lube	0.4 MT
6.	Lost Circulation Material (LCM)	2 MT

Water Requirement

S. No.	Description	Quantity
1.	Water for domestic use	2 KLD/Well
2.	Drilling water consumption for mud preparation	8 KLD/Well (Approx.)
3.	Drilling Rig operation	
a)	Jet wash – washing of drill cuttings at shale shaker	5 KLD/Well
b)	Preparation of cementing materials	2 KLD/Well
c)	General housekeeping/ washing	1 KLD/Well
d)	Miscellaneous use (cooling, dust suppression, etc.)	2 KLD/Well
Total Water Requirement		20 KLD/well

Water requirement will be sourced by Water Tankers from locally approved/ authorized sources. No Ground Water

Wells shall be drilled for extraction of water specifically for the above-mentioned project as the water requirement is very minimal and only for short period of time.

Pollution control measures Drilling Operations

Air Emissions and Control Measure: Air emissions from the core hole drilling operations shall be from the diesel engines. Appropriate air emission control measures like adequate stack height etc. will be taken & periodic stack monitoring will be carried out.

Noise Emissions and Control Measure: The source of noise generation during core hole drilling would be the operation of rig, diesel generator sets and pumps of Liquid Mud Plant. The noise generation work, however, is transient and limited to the drilling period only. Acoustic enclosures & periodic monitoring and control measures will be taken.

Waste treatment and disposal: Around 08 KLD of wastewater will be generated from each core hole drilling because of rig wash and dewatering of spent mud, effluents from washing of drill cuttings, pump, seal leakages etc. Wastewater generated will be recycled/ reused for mud preparation after settling of Suspended Solids (i.e. mud) in HDPE lined pits. Domestic wastewater generated during each core hole drilling (about 1.5 KLD) will be treated through septic tank & soak pit system.

Drill Cuttings associated with WBM (Water Based Mud) 500 tons from drilling of each core hole will be generated. This will be temporarily stored in well-designed HDPE lined pit and will be further used as sub grade material for construction; back-filling in low lying areas; site restoration, etc. The expected hazardous waste generation from each Core Hole drilling as follows

Quantity of Hazardous waste generation from each Core Hole drilling

S.N.	Type/Name of Hazardous waste	Specific Source of generation (Name of the Activity, Product etc.)	Category and Schedule as per HW Rules.	Quantity	Mode of Disposal
1	Used or Spent Oil	Drilling	HW Sc-I cat. 5.1	5 KL/well	Will be sent to Authorize recyclers.
2	Spent Chemical	Drilling	HW Sc-I cat. 32.1	10 tons/well	Collection in HDPE lined pit and disposal in Co processing in cement kiln/ common Hazardous waste TSDF/ HW processing facility
3	Empty barrels/containers/liners contaminated with hazardous chemicals /wastes	Drilling	HW Sc-I cat. 33.1	100 nos./well	Will be sent to authorized recyclers
4	Contaminated cotton rags or other cleaning materials	Drilling	HW Sc-I cat. 33.2	10 tons/well	Will be stored at designated area and disposal as per Hazardous waste Rules, 2016 (co processing in cement kiln as fuel substitute, common Hazardous waste TSDF, HW processing facility).

Non Hazardous waste generation & Disposal

S. No.	Name of Waste	Source	UOM	Quantity	Treatment
1	Biomedical Waste	Drilling	Kg/day/well	10-15	Will be disposed off in accordance with the requirements of CPCB/SPCB

2	Drill Cuttings associated wi th WBM	Drilling	Tons/well	500	Will be temporarily stored in well-desig ned HDPE lined pit and will be further u sed as subgrade material for constructio n; back-filling in low lying areas; site re storation, etc.
3	Spent WBM	Drilling	Tons/well	500	Will be temporarily stored in well-desig ned HDPE lined pit and will be further u sed as subgrade material for constructio n; back-filling in low lying areas; site re storation, etc.

Waste water treatment and disposal

Around 08 KLD of wastewater will be generated from each core hole drilling because of rig wash and dewatering of spent mud, effluents from washing of drill cuttings, pump, seal leakages etc. Wastewater generated will be recycled/ reused for mud preparation after settling of Suspended Solids (i.e. mud) in HDPE lined pits.

Domestic wastewater generated during each core hole drilling (about 1.5 KLD) will be treated through septic tank & soak pit system.

Wastewater generation from each Corehole drilling

Wastewater Generation	Quantity (m3/well/day) (fro m drilling of each well)	Treatment
Domestic wastewater generati on during drilling.	1.5	Will be treated in Septic tank & Soak pit system
Effluent from drilling operatio n	08	Recycled/ reused for mud preparation after settli ng of Suspended Solids (i.e. mud) in lined pits.
Total	9.5	

Storm Water Management

- Necessary measures would be undertaken during site preparation phase to prevent earth and stone material from blocking cross drainage structures.
- Periodic cleaning will be undertaken to cross drainage structures and road drainage system to maintain uninterrupted storm water flow.
- Rain Water Harvesting: No provision for rain water harvesting is envisaged. Drilling operation will be at remote locations and usually are of 30-35 duration only. There will be no permanent building structures or accommodation facility available at site.

Power Requirement & Supply/Source – For drilling of a Core Hole, power requirement will be sourced through Diesel Generators of 2 x 320 kVA (one working + one standby) for Camp site, 2 x 500 kVA (1working and 1 standby) for drilling site and 2 x 500 KVA (1 working + 1 standby) for Liquid Mud Pump (LMP).

The power requirement in the drilling site and the campsites will be provided through diesel generator (DG) sets. The rated capacity of the DG sets required for onshore drilling site is provided in following:

Details of DG sets on each Drilling Site:

Location	DG Capacity	Fuel Requirement (KLD)
Camp Site	2 x 320 KVA (1W + 1S)	HSD- 2-4 KLD
Drilling Site	2 x 500 KVA (1W + 1S)	HSD- 3-5 KLD
Drilling Site (LMP)	2 x 500 KVA (1W + 1S)	HSD- 3-4 KLD

Project Cost	Rs. 53.14 Cr
CER Details	Rs. 0.47 Cr (5 Years)

S.No.	CER Activities	Taluka/ Tehsil	Village Name	Units (Number/Kilometers)	Unit Cost (In lacs INR)	Cost Allocation (INR Lacs)	CER Budget (In Lacs INR)				
							Y1	Y2	Y3	Y4	Y5
Public Health											
	Safe drinking water supply through installation of RO plant (Capacity 500 l/d)	Odgi Bhaiyathan	Bhanwarkhoh, Rampur, Indarpur, Paldanauti, Parsiya	5	4	20	4.0	4.0	4.0	4.0	4.0
Environment											
2	sanitation facility (community toilet complex with four seat with septic tank and soak pit)	Kelhari	Balshiv, Musara, Deviganj, Biharpur, Bairagi, Tarabahara	6	1.5	9	1.8	1.8	1.8	1.8	1.8
Renewal Energy											
3	Solar Lighting	Kelhari Bhaiyathan	Balshiv, Musara, Deviganj, Biharpur, Bairagi, Tarabahara, Ghodbandha, Bhanwarkhoh, Rampur, Indarpur, Paldanauti, 2.56Parsiya	15	1	15	3	3	3	3	3
Health Care											
4	Health care/ PHCs improvem	Sonhat	Dhanpur-Rajoli, Palaridand,	4	0.64	2.56	1	1	1	1	1

	ent in local villages		Kishori								
Skill Development											
5	Skill development of local people for enhancing their livelihood opportunities, etc. (training e.g. fitter, welders, tailoring, electronics item repairing, electrical, masonry wok, etc.) of unskilled villagers	Kelhari	Balshiv, Musara, Deviganj, Biharpur, Bairagi, Tarabahara, Ghodbandha	40	0.0025	0.10	0.02	0.02	0.02	0.02	0.02
Total						47	9.3	9.3	9.3	9.3	9.3
Grand Total											

CER Summary	
Total Project Cost (IN CRORE INR)	53.14
Total CER Cost (IN CRORE INR) (5 years)	0.47
CER Cost per year (IN CRORE INR)	0.09

Signature Not Verified
Digitally Signed by : Shri Raju Agasimani
Member Secretary, SEIAA
Date: 30/01/2026