	ENVIRONMENTAL CLEARANCE	Ministry of Environme (Issued by the State E	ernment of India ent, Forest and Climate Change nvironment Impact Assessment y(SEIAA), ASSAM)
	Z	M/s Vedanta Limited(Division	
		Cairn Oil & Gas, Vedanta Limi Gurgaon, Harvana - 122002 C	ited, DLF Atria, DLF Phase-2, DLF City, Cairn Oil & Gas, Vedanta Limited, DLF Atria, aon, Haryana - 122002 -122002
	active, ub)	under the provision of EIA Not	ance (EC) to the proposed Project Activity ification 2006-regarding
	by Intera Vindow Hu	in respect of project submitted	application for Environmental Clearance (EC) to the SEIAA vide proposal number v 2022. The particulars of the environmental below.
	N-N	1. EC Identification No.	EC23B000AS171446
T	ati gle	2. File No.	SEIAA. 3247/2022
S	lita	2. File No. 3. Project Type	Expansion
Ш	S	4. Category	B
Ξ	e Fe	 Category Project/Activity including Schedule No. 	N/A
PARIVESH	and Responsive Facilitation by Interactive, ous Environmental Single-Window Hub)	6. Name of Project	Application for Expansion (additional 6 nos. of E&A wells & 4 nos. of EPUs/QPUs) in "Onshore Oil & Gas Exploration, Appraisal & Early Production in AA-ONHP-2017/4 Hydrocarbon Block", Jorhat District, Assam
	e and uous	7. Name of Company/Organization	M/s Vedanta Limited(Division Cairn Oil & Gas)
	ve	8. Location of Project	ASSAM
	ro-Acti and Vii	9. TOR Date	N/A
	(Pro-Active and Virtu	The project details along with terms and no 2 onwards.	conditions are appended herewith from page
		Date: 05/01/2023	(e-signed) Indreswar Kalita Member Secretary SEIAA - (ASSAM)

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 application for Prior Environmental Clearance **Proposal No.** SIA/AS/IND2/401351/2022 dated 24/11/2022 along with Form-1, Pre-feasibility Report, Project Summary, EMP and the additional clarifications furnished in response to the observations of the SEAC & SEIAA, Assam for further necessary action for proposed Expansion (additional 6 nos. of E&A Wells & 4 nos. of EPUs/QPUs) in "Onshore Oil & Gas Exploration, Appraisal & Early Production in AA-ONHP-2017/4 Hydrocarbon Block", Jorhat District, Assam.

The project proposal asking EC for "Expansion (additional 6 nos. of E&A Wells & 4 nos. of EPUs/QPUs) in "Onshore Oil & Gas Exploration, Appraisal & Early Production in AA-ONHP-2017/4 Hydrocarbon Block", Jorhat District, Assam proposed by M/S Vedanta Limitted is placed before the SEAC for appraisal and deliberation. Necessary documents furnished by the proponent have been scrutinized. Requisite maps etc. are examined. The documents/ records furnished by the proponent as per SOP and in support of their proposal are scrutinized and appraised. The committee deliberated the proposal thoroughly.

The committee after thread bare deliberation recommended approving to issue EC against four nos. of well pad (a) SPN-1, (b) SPN-2, (c) SPN-3 & (d) SPN-4. The other two well pads namely SP-1A & SP-1B falling inside Dissoi Valley Reserved Forests under Jorhat Forest Division and will be considered after receiving due Forest Clearance from the competent authority followed by detail presentation.

1	Category/ Item No. (In Schedule):	1(b) B2
2.	Location of Project	 (a) Plot/ survey/ Khasra No. G46K/1, G46K/5, G46K/2 & G46K/6 (b) Bounded Latitudes (North) From 26⁰ 29' 0" to 26⁰ 50' 0" (c) Bounded Longitudes (East) From 94⁰ 33' 0" to 94⁰ 10' 0" (d) Survey of India Topo Sheet No. G46K/1, G46K/5, G46K/2 & G46K/6 (e) Distant of nearest HFL from the project boundary within the study area 584 meters (f) Seismic Zone - 5
3.	Project Details	Vedanta Limited (Div: Cairn Oil & Gas) proposes expansion of additional 6 Nos. of exploratrory/ appraisal wells drilling and setting up of 4 nos. EPUs/QPUs in AA-ONHP-2017/4 Hydrocarbon Block", Jorhat District, Assam for early production of 8000 BOPD crude oil and 4 MMSCFD natural gas. The AA-ONHP-2017/4 Hydrocarbon Block covers an area of 839 Sq.Km in Jorhat district of Assam. All activities involve in the exploratory process will be restricted within the block area situated in the Jorhat District, Assam. The exploratory wells in the Geographical location has been given in Table-3.2 (Coordinates of proposed well/ well pad locations) are approved for exploration.
4.	Total Project Cost	272.00 Crores.
5.	Water Requirement & source	Water requirement: 87 KLD water per well will be required for drilling of wells and 15 KLD water is required during early production per well. Sourcing of water requirement: water requirement for all the project activities would be sourced by Water Tankers from locally approved/ authorized sources. No Bore 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.
		A

2. Brief details of the Project:

Member Secretar SEIAA, Assam de.

		(a) Quantity (KVA)	6150	
6.	Power Requirement	(b) Source		DG Sets & 1MW GE	EG during early Production
		(c) Upload Agreement	ed Copy of	Not Applicable	19 (1) 19
		(d)Standby A (Details of D	y Arrangement f DG Sets) 3500 KVA		18 1
		(e) Stack Height (in m) 10 for DG and GEC stack		G and 30 meter for Flare	
		Cost of I plantation:- The tentative	Environment Ma budget for impl nd Green/ plant	anagement Plan (EM ementation of the EM	mitted to SEIAA office. (IP) including Greenbelt (IP) including environmenta 20) Lakh per well during
		Sl. No.	Particulars		Approx. budget/ well (INR) in Lakh
		1	Air quality mar	nagement	2
		2	Noise monitoring		10 Lakh per well
		3	Surface and Ground water Quality		
		4 Soil Quality			
		5.	Waste management		
-	Environment Management Plan	6.	Greenbelt/ Plantation		
7.		7.	EMP cost Treatment	for Wastewater	10 Lakh per well
		The tentative monitoring a	and Green/ plant	lementation of the EM ation would be INR	IP including environmenta 22.0 Lakh for each Early
		Production U	nit per year.	1. A. S.	· · · · · · · · · · · · · · · · · · ·
		Production U Sl. No.	Particulars		Approx. budget/ wel (INR) in Lakh
		1	The second second	nagement	
		Sl. No.	Particulars		
		Sl. No.	Particulars Air quality mar Noise monitori		(INR) in Lakh
		Sl. No. 1 2	Particulars Air quality mar Noise monitori	ng	
		Sl. No. 1 2 3	Particulars Air quality man Noise monitori Surface and Gr Soil Quality Waste manager	ng ound water Quality ment	(INR) in Lakh
		Sl. No. 1 2 3 4	Particulars Air quality man Noise monitori Surface and Gr Soil Quality Waste manager Greenbelt/ Plan	ng ound water Quality ment ntation	(INR) in Lakh
		Sl. No. 1 2 3 4 5. 6. 7.	Particulars Air quality man Noise monitori Surface and Gr Soil Quality Waste manager Greenbelt/ Plan EMP cost Treatment	ng ound water Quality ment ntation for Wastewater	(INR) in Lakh 11 Lakh per well 11 Lakh per well
8	CSR /ESR Activities	Sl. No. 1 2 3 4 5. 6. 7. Detailed Out Vedanta Lin MOEF & CO	Particulars Air quality man Noise monitori Surface and Gr Soil Quality Waste manager Greenbelt/ Plan EMP cost Treatment lay of CER (Corp mited (Div: Cair C time to time.	ng round water Quality ment ntation for Wastewater	(INR) in Lakh 11 Lakh per well

Member Secretal SEIAA, Assam

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		Estimated Budgetary Breakup for Labour Welfare: The following provisions will be made towards Labour Welfare during Drilling activities:			
		S. No.	Particulars	Estimated Budget per well (in Lakhs)	
		1.	Safe drinking water for workforce		
	0	2.	Sanitation facilities		
		3	First aid facility and ambulance for emergency medical evacuation		
		4.	PPEs (Safety Boots, Helmet, Mask, ear plugs, gloves, etc.*	6.0 Lakhs/Well (Approx.)	
		5.	Environmental, safety & occupational health and wellness awareness program		
10	Budgetary Breakup for Labour	Production activities:			
		S. No.	Particulars	Estimated Budget per well (in Lakhs)	
		1. 7	Safe drinking water for workforce	-	
		2.	Sanitation facilities		
		3.	First aid facility and ambulance for emergency medical evacuation	2.0 Lakhs/Well (Approx.)	
		4.	PPEs (Safety Boots, Helmet, Mask, ear plugs, gloves, etc.	ej ej	
		100	Environmental, safety & occupational health and wellness		

Accordingly, SEIAA, Assam hereby accords necessary Environmental Clearance for the above project as per the provisions of Environmental Impact Assessment Notification, 2006 and its subsequent amendments, approved for issuance of EC as per conditions laid down by SEAC in respect of the following 4 well sites & 4 nos of EPUs falling in the District Jorhat as shown in the following table subject to strict compliance of the terms and conditions as follows:-

SI	Well name	Longitude (E)	Latitude (N)
No		0.1025111.08001	26 [°] 39'36.0000''
1.	SPN-2	94°25′41.0800″	20 09 000000
2.		94 ⁰ 26'39.2670"	26 [°] 39'56.7037"
	SPN-1	94 20 39.2010	
2	CDN 2	94 [°] 27'15.8000"	26 ⁰ 40'7.1600''
3.	SPN-3	<i>y</i> 12 <i>i</i> 1010101	N
4.	SPN-4	94 [°] 27'39.0972"	26 ⁰ 40'11.1061"

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I. Statutory compliance:

i. The project proponent shall obtain forest clearance under the provisions of Forest (Conservation) Act, 1986, in case of the diversion of forest land for non-forest purpose involved in the project

ii. The project proponent shall obtain clearance from the National Board for Wildlife, if applicable.

iii. The project proponent shall prepare a Site-Specific Conservation Plan & Wildlife Management Plan and approved by the Chief Wildlife Warden. The recommendations of the approved Site-Specific Conservation Plan / Wildlife Management Plan shall be implemented in consultation with the State Forest Department. The implementation report shall be furnished along with the six-monthly compliance report. (in case of the presence of Schedule-I species in the study area)

iv. The Project proponent shall obtain Consent to Establish / Operate under the provisions of Air (Prevention & Control of Pollution) Act, 1981 and the Water (Prevention & Control of Pollution) Act, 1974 from the concerned State Pollution Control Board/Committee.

v. The project proponent shall obtain authorization under the Hazardous and other Waste Management Rules, 2016 as amended from time to time.

vi. The Company shall strictly comply with the rules and guidelines under Manufacture, Storage and Import of Hazardous Chemicals (MSIHC) Rules, 1989 as amended time to time. All transportation of Hazardous Chemicals shall be as per the Motor Vehicle Act (MVA), 1989.

II. Air quality monitoring and preservation.

i. The project proponent shall install 24×7 continuous emission monitoring system at process stacks to monitor stack emission with respect to standards prescribed in Environment (Protection) Rules 1986 and connected to SPCB and CPCB online servers and calibrate these system from time to time according to equipment supplier specification through labs recognized under Environment (Protection) Act, 1986 or NABL accredited laboratories.

ii. The project proponent shall monitor fugitive emissions in the plant premises at least once in every quarter through labs recognized under environment (Protection) Act, 1986.

iii. The project proponent shall install system to carryout Ambient Air Quality monitoring for common/criterion parameters relevant to the main pollutants released (e.g. PM10 and PM25 in reference to PM emission, and SO2 and NOx in reference to SO2 and NOx emissions) within and outside the plant area at least at four locations (one within and three outside the plant area at an angle of 120 each), covering upwind and downwind directions.

iv. To control source and the fugitive emissions, suitable pollution control devices shall be installed to meet the prescribed norms and/or the NAAQS. Sulphur content should not exceed 0.5% in the coal for use in coal fired boilers to control particulate emissions within permissible limits (as applicable). The gaseous emissions shall be dispersed through stack of adequate height as per CPCB/SPCB guidelines.

v. Storage of raw materials, coal etc shall be either stored in silos or in covered areas to prevent dust pollution and other fugitive emissions.

vi. National Emissions Standards for Organic Chemicals Manufacturing Industry issued by the Ministry vide G.S.R. 608(E) dated 21st July, 2010 and amended from time to time shall be followed.

vii. The National Ambient Air Quality Emission Standards issued by the Ministry vide G.S.R. No. 826(E) dated 16th November, 2009 shall be complied with.

Member SEIAA, Assan

III. Water quality monitoring and preservation

i. The project proponent shall provide online continuous monitoring of effluent, the unit shall install web camera with night vision capability and flow meters in the channel/drain carrying effluent within the premises (applicable in case of the projects achieving ZLD).

ii. As already committed by the project proponent, Zero Liquid Discharge shall be ensured and no waste/treated water shall be discharged outside the premises (applicable in case of the projects achieving the ZLD).

iii. The effluent discharge shall conform to the standards prescribed under the Environment (Protection) Rules, 1986, or as specified by the State Pollution Control Board while granting Consent under the Air/Water Act, whichever is more stringent.

iv. Total fresh water requirement shall not exceed the proposed quantity or as specified by the Committee. Prior permission shall be obtained from the concerned regulatory authority/ CGWA in this regard.

v. Process effluent/any waste water shall not be allowed to mix with storm water. The storm water from the premises shall be collected and discharged through a separate conveyance system.

vi. The company harvest rainwater from the roof tops of the buildings and storm water drains to recharge the ground water and utilized the same for different industrial operations within the plant.

vii. The DG sets shall be equipped with suitable Pollution control devices and the adequate stack height so that the emissions are in conformity with the extant regulations and the guidelines in this regard.

IV. Noise monitoring and preservation

Acoustic enclosure shall be provided to DG set for controlling the noise pollution. i.

- The overall noise levels in and around the plant area shall be kept well within the standards by ii. providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation.
- The ambient noise levels should conform to the standards prescribed under E(P)A Rules, 1986 viz, 75 iii. dB(A) during day time and 70 dB(A) during night time.

V. Energy Conservation measures

i. The energy sources for lighting purposes shall preferably be LED based.

VI. Waste management

- Hazardous chemical shall be stored in tanks, tank farms, drums, carboys etc. Flame arresters shall be i. provided on tank farm and the solvent transfer through pumps.
- Process organic residue and spent carbon, if any, shall be sent to cement industries. ETP sludge, process ii. inorganic & evaporation salt shall be disposed off to the TSDF.
- iii. The Company shall undertake waste minimization measures as below:-
- a. Metering and Control of quantities of active ingredients to minimize waste.
- b. Reuse of by-products from the process as raw materials or as raw material substitutes in other processes.
- Use of automated filling to minimize spillage. C. d. Use of Close Feed system into batch reactors.
- Venting equipment through vapors recovery system.
- Use of high pressure hoses for equipment clearing to reduce waste water generation. e.

f.

VII. Green Belt

The green belt of 5-10 m width shall be developed in more than 33% of the total project area, mainly along the plant periphery, in downward wind direction, and along road sides etc. Selection of plant species shall be as per the CPCB guidelines in consultation with the State Forest Department.

Member S SEIAA, Assar

VIII. Safety, Public hearing and Human health issues

- Emergency preparedness plan based on the Hazard identification and Risk Assessment (HIRA) and i. Disaster Management Plan shall be implemented.
- The unit shall make the arrangement for protection of possible fire hazards during manufacturing ii. process in material handling. Fire fighting system shall be as per the norms.
- The PP shall provide Personal Protection Equipment (PPE) as per the norms of Factory Act. iii.
- Training shall be imparted to all employees on safety and health aspects of chemicals handling. Preiv. employment and routine periodical medical examinations for all employees shall be undertaken on regular basis. Training to all employees oh handling of chemicals shall be imparted.
- Provision shall be made for the housing of construction labour within the site with all necessary V. infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, creche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.
- Occupational health surveillance of the workers shall be done on a regular basis and records vi. maintained as per the Factories Act.
- There shall be adequate space inside the plant premises ear marked for parking of vehicles for raw vii. materials and finished products, and no parking to be allowed outside on public places.

IX. Corporate Environment Responsibility

- The project proponent shall comply with the provisions contained in this Ministry's IM vide F.No.22-65/2017-IA III dated 1st May 2018, as applicable, regarding Corporate Environment Responsibility.
- The company shall have a well laid down environment policy duly approve by the Board of ii. Directors. The environment policy should prescribe for standards operating procedures to have proper checks and balances and to bring into focus any infringements/ violation of the environmental/ forest/ wildlife norms/ conditions. The company shall have defined system of reporting infringements / deviation / violation of the environmental/ forest/ wildlife norms/ conditions and / or shareholders / stake holders. The copy of the board resolution in this regard shall be submitted to the MOEF& CC as a part of six-monthly report.
- A separate environmental Cell both at the project and company head quarter level, with qualified personnel shall be set up under the control of senior Executive, who will directly to the head of the iv. organization.
- Action plan for implementing EMP and environmental conditions along with responsibility matrix iv. of the company shall be prepared and shall be duly approved by competent authority. The year wise funds earmarked for environmental protection measures shall be kept in separate account and not to be diverted for any other purpose. Year wise progress of implementation of action plan shall be reported to the Ministry/Regional Office along with the Six Monthly Compliance Report.
- Self environmental audit shall be conducted annually. Every three years third party environmental v. audit shall be carried out.

X. Miscellaneous

- The project proponent shall make public the environmental clearance granted for their project along with the environmental conditions and safe guards at their cost by prominently advertising it at least i. in two local newspapers of the District or State, of which one shall be in the vernacular language within seven days and in addition this shall also be displayed in the project proponent's website permanently.
- ii.
- The copies of the environmental clearance shall be submitted by the project proponents to the Heads of local bodies, Panchayats and Municipal Bodies in addition to the relevant offices of the Government who in turn has to display the same for 30 days from the date of receipt.

Member Secretary SEIAA, Assam

- The project proponent shall upload the status of compliance of the stipulated environment clearance iii. conditions, including results of monitored data on their website and update the same on half-yearly basis.
- The project proponent shall monitor the criteria pollutants level namely; PMio, SO2, NOx (ambient iv. levels as well as stack emissions) or criteria sevtoral parameters, indicated for the projects and display the same at a convenient location for disclosure to the public and put on the website of the company.
- The project proponent shall submit six-monthly reports on the status of the compliance of the v. stipulated environmental conditions on the website of the ministry of Environment, Forest and Climate Change at environment clearance portal.
- The project proponent shall submitted the environmental statement for each financial year in Formvi. V to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently and out on the website of the company.
- The project proponent shall inform the Regional Office as well as the Ministry, the date of financial vii. closure and final approval of the project by the concerned authorities, commencing the land development work and start of production operation by the project.
- The project authorities must strictly adhere to the stipulations made by the State Pollution Control viii. Board and the State Government.
- The project proponent shall abide by all the commitments and recommendations made in the ix. EIA/EMP report, commitment made during Public Hearing and also that during their presentation to the Expert Appraisal Committee.
- No further expansion or modifications in the plant shall be carried out without prior approval of the X. Ministry of Environment Forest and Climate Change (MoEF & CC).
- Concealing factual data or submission of false/fabricated data may result in revocation of this environmental clearance and attract action under the provisions of Environment (Protection) Act, xi. 1986.
- The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions xii. is not satisfactory.
- The Ministry reserves the right to stipulate additional conditions if found necessary. The Company xiii. in a time bound manner shall implement these conditions.
- The Regional Office of this Ministry shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer (s) of the Regional Office by xiv. furnishing the requisite data / information / monitoring reports.
- The above conditions shall 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 XV. Environment (Protection) Act, 1986, Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 and the Public Liability Insurance Act, 1991 along with their amendments and Rules and any other orders passed by the Hon'ble Supreme Court of India / High Courts and any other Court of Law relating to the subject matter.
- Any appeal against this EC shall lie with the National Green Tribunal, if preferred, within a period xvi. of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.

24/21/23

Member-Secretary, SEIAA, Assam Bamunimaidam, Guwahati 781021 Caka

Memo No. SEIAA.3247/2022/EC/ / 9 20 -A

Copy to:-

- The Secretary to the Govt. of Assam, Environmental & Forest Department, Dispur, Guwahati-6 for • favour of kind information.
- The Chairman, PCBA for information. .
- The Integrated Regional Office, MoEF & CC, 4th Floor, Housefed Building, GS Road, . Rukminigaon, Guwahati-22 for favour of information.
- Office Copy. .

Member-Sec. SEIAA, Assam Bamunimaidam, Guwahati 781021. Oleka

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