

Date: 14.11.2024
Ref: KG-OSHP-2017-1/Dec-24/1

Head of Office,
Integrated Regional Office,
Ministry of Env., Forest and Climate Change
Vijayawada Green House Complex,
Vijayawada – 520010, Andhra Pradesh

Sub: Six-monthly Status Report on progressive compliance to Environmental Clearance (EC) conditions for Onshore Oil & Gas Exploration & Appraisal in KG-OSHP-2017/1 in Bay of Bengal, East Godavari District, Andhra Pradesh.

Ref: EC Identification No. - EC21B002AP145759 dated 22.11.2021

Dear Sir,

We are pleased to submit a point wise compliance status report of the conditions stipulated in the Environmental Clearance accorded by SEIAA, Andhra Pradesh for the KG-OSHP-2017/1 Block for the period April 2024 to September 2024.

Thanking you,

Yours faithfully,
For Vedanta Limited (Div.: Cairn Oil & Gas)


Dilip Kumar Bera
DGM- Environment



Enclosures: As above

Copy to:

1. The Member Secretary, Andhra Pradesh Pollution Control Board, Vijayawada.
2. Regional Director, Central Pollution Control Board, Chennai.

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CIN: L13209MH1965PLC291394

SIX-MONTHLY REPORT

ON PROGRESSIVE COMPLIANCE TO ENVIRONMENTAL CLEARANCE CONDITIONS

Project name:	“Offshore Oil and Gas Exploration & Appraisal in KG-OSHP-2017-1 Block” located in Bay of Bengal at East Godavari District, Andhra Pradesh.
Environment Clearance letter no.:	EC Identification No. EC21B002AP145759 dated 22.11.2021
Reporting period:	April 2024 to September 2024
Project activity during reporting period:	No Exploratory & Appraisal activities carried out during this reporting period.
Overall status of activities w.r.t. project defined in EC:	Project defined in EC: • Drilling of Exploratory and Appraisal Wells: 51 Nos.
	Overall Status: No Exploratory & Appraisal activity carried out in the KG-OSHP-2017-1 Block till date.

Part A: Special Conditions:		Compliance
1	The proposal shall not attract the following Acts & Rules	
a	Forest Act 1980	No forest land involved
b	Wildlife (protection) Act 1992	No PAs/ ESZ involved
c	The Eco sensitive areas, as notified under Environment (Protection) Acts,1086	No PAs/ ESZ involved
d	Critically polluted areas as notified by CPCB and also shall not harm live stocks and human beings and disturb their activities.	Not applicable
2	The project proponent shall comply with Bio-Medical Waste management Rules,2016 and its amendments.	Noted for compliance
Part B: Specific Conditions		
Air & Noise Environment:		
1.	The emissions from the Husk fired boiler of capacity 1 x 3.0 TPH (Existing) & 1 x 3.0 TPH (Proposed) shall be routed through cyclones separator followed by bag filters with the stack type and height fixed in consultation with the APPCB, adequate height shall be provided for D.G. sets 1x 2000 KVA as per CPCB	Not applicable.
2.	The process emissions containing the HBr, HCl, NH ₃ , HF, H ₂ S and Mercaptans shall be routed through two stages scrubber system. The packing media in the scrubber is 25 mm poly propylene rings. Scrubbed liquid shall be treated and reused or subjected to MEE.	Not applicable.
3	Strict measures shall be taken to control odour with appropriate odour abatement methods. Sub coolers for brine circulation shall be installed to reduce solvent evaporation losses into the atmosphere. All the solvent storage tanks shall be connected to vent condensers with chilled water circulation to minimize	Not applicable.

	the solvent loss. The proponent shall install VOC meter in the plant to monitor.	
4	The solvents shall be recovered by installing fractional distillation columns. The recovered solvents shall be reused in the process or sold to recyclers authorized by APPCB. The volatile vapours generated during process shall be routed through condensers and the condensate shall be reused in the plant.	Not applicable.
5	The area of the greenbelt shall not be less than 33% of the total area of the site. Greenbelt with tall growing trees shall be developed along the boundary of the site.	Not applicable as this is entirely an Offshore project.
6	Fugitive emissions from storage tanks shall be avoided by providing air condensers.	Not applicable
7	The proponent should provide appropriate PPE to the persons working in the unit and suitable to their workplace environment.	Noted for compliance. However, no activity during the reporting period.
8	The proponent shall establish adequate number of air monitoring stations, including one online station, in consultation with the APPCB and take appropriate measures to ensure that the GLC shall comply with the NAAQM norms notified by MoEF&CC, GoI on 16.11.2009.	Not applicable as the project is approx. 10.7 km away from shoreline.
9	Measures shall be taken to comply with the provisions made under "Noise pollution (Regulation and control) Amendment Rules 2010 dated 11-01-2010 issued by MoEF.	Noted for compliance. However, no activity during the reporting period.
10	The industry shall comply with the conditions stipulated under the CRZ NOC granted by APCZMA vide letter No. 236/CRZ/IND/2020 dtd. 01.02.2021.	Noted for compliance. However, no activity during the reporting period.
11	The Schedule for commencement by the drilling operation should be intimated at least one month in advance to the Wildlife Warden having jurisdiction over the nearest coastal area so as to enable him to monitor its impact, if any, on the wildlife.	Noted for compliance. However, no activity during the reporting period.
12	Approval from DG Shipping under the Merchant Shipping Act prior to commencement of the drilling operations should be obtained. The exact location should be intimated to the Director General of Shipping, Mumbai and the company should abide by any direction he may issue regarding ensuring the safety of navigation in the area.	Noted for compliance. However, no activity during the reporting period.
13	The industry shall comply with MoEF & CC Guidelines for Disposal of Drill Cuttings and Drilling Fluid for Offshore Installation notified as per GSR 546 (E) dated 30th August 2005.	Noted for compliance. However, no activity during the reporting period.
14	The Company should monitor the marine environment / ecology including petroleum hydrocarbons and	Noted for compliance.

	heavy metal concentrations in the marine fish species regularly during drilling campaign and submit report to the authorities.	However, no activity during the reporting period.
15	In case the commercial viability of the project is established, the company will prepare a detailed plan for development of oil and gas fields in the block and obtain fresh environmental clearance for development and production.	Noted.
16	Adequate infrastructural facilities/ equipment arrangement should be provided, so that booms, skimmers and chemical dispersants could be deployed immediately in case of oil spill from the installations/ drilling activities.	Noted for compliance. However, no activity during the reporting period.
17	The project proponent shall also comply with the environmental protection measures and safeguards recommended in the EIA/EMP report.	Noted for compliance. However, no activity during the reporting period.
18	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.	Noted for compliance. However, no activity during the reporting period.
19	No pipelines or its part shall be laid in the Forest land/protected Area without prior permission/ approval from the competent Authority.	Noted for compliance. However, no activity during the reporting period.
20	As proposed by the project proponent, zero Liquid Discharge shall be ensured and no waste/treated water shall be discharged to any surface water body, sea and/or on land. Mobile ETP along with RO shall be installed to treat the wastewater.	The company shall install on board oil water separator for treatment of bilge water and oil contaminated effluent (if any) from drill activities. 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.
21	During production, storage and handling, the fugitive emission of methane, if any, shall be monitored using Infra-red camera/ appropriate technology.	Not applicable
22	The project proponent also to ensure trapping/storing of the CO2 generated, if any, during the process and handling.	Not applicable
23	Approach road shall be made pucca to minimize generation of suspended dust.	Not applicable
24	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 adequate stack height as per CPCB guidelines.	Noted for compliance. However, no activity during the reporting period.
25	The company shall construct the garland drain to prevent runoff of any oil containing waste into the	Not applicable

	nearby water bodies. Separation drainage system shall be created for oil contaminated and non- oil contaminated.	
26	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.	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.
27	Oil spillage prevention and migration 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.	Noted for compliance. However, no activity during the reporting period.
28	The project proponents 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.	Noted for compliance. However, no activity during the reporting period.
29	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.	Noted for compliance. However, no activity during the reporting period.
30	Blow out Preventer system shall be installed to prevent well blowouts during drilling operations.	Noted for compliance. However, no activity during the reporting period.
31	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 viable, a full abandonment plan shall be implemented for the drilling site in accordance with the applicable DGH/ Indian Petroleum Regulations.	Noted for compliance. However, no activity during the reporting period.
32	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	Noted for compliance. However, no activity during the reporting period.

	training centres/ 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 be completed within time as proposed.	
33	No lead acid batteries shall be utilized in the project/site.	Not applicable.
34	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.	Noted for compliance. However, no activity during the reporting period.
35	Oil content in the drill cuttings shall be monitored and report & shall sent to the Ministry's Regional Office.	Noted for compliance. However, no activity during the reporting period.
36	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 crested at each level of the management. All the schedules and results of environmental monitoring of the site should be done.	Noted for compliance. However, no activity during the reporting period.
Water Environment		
37	The total water requirement shall not exceed Process /mud preparation - 1300 m3/well (Water Based Mud (WBM)-1000 m3/well & Synthetic Based Mud (SBM) – 300 m3/well), Drilling water consumption and miscellaneous use – 50 m3/day, Domestic use – 30 m3/day.	Noted for compliance. However, no activity during the reporting period.
Wastewater Environment		
38	The total wastewater generation is Drilling fluids, bilge water and sewage shall be treated and discharged to the marine outfall adjacent to the rig after meeting the discharge norms specified in the EPA Rules / MARPOL. It is expected around 275 m3 /day of wastewater should be generated per day, which should be treated and discharged to marine after meeting the prescribed standards.	Noted for compliance. However, no activity during the reporting period.
39	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 board may be left to accommodate rainwater. There shall be separate strom water channel and rainwater shall not be allowed to mix with wastewater. Alternatively, if possible, pit less drilling be practiced instead of above.	Not Applicable

40	Zero discharge concepts shall be adopted. High COD & Low TDS shall be sent to incinerator, Low COD & Low TDS shall be sent to conventional ETP and the Low COD & High TDS effluents are routed through Stripper with scrubber followed by MEE and rejects of MEE shall be sent to ATFD. The condensate of the MEE shall be sent to RO. The permeate from the RO plant shall be re-used in the plant and rejects to MEE. The domestic wastewater shall be disposed into the septic tank followed by soak pit.	Noted for compliance. However, no activity during the reporting period.
Hazardous/Solid Wastes:		
41	Hazardous waste generated from the industry such as organic residue, salts, spent solvents waste oils, used oils etc., shall be disposed as per the Hazardous and other Wastes (Management and Transboundary movement) Rules, 2016 and its amendments thereof.	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. Waste oil/ used oil & other hazardous waste shall be disposed as per the Hazardous and other Wastes (Management and Transboundary movement) Rules, 2016 and its amendments thereof.
42	The Non-Hazardous / Solid waste and disposal: Residual drilling mud, sludge and other drilling waste, mainly WBM and WBM drill cutting - 750 Tons/ well shall be sent to water based mud (WBM) drill cuttings and leftover WBM shall be intermittently disposed offshore at a rate of 50 barrel/hour/well; Food waste - 30 Kg/day shall be macerated to less than 25 mm size and discharged offshore, as per the requirements of MARPOL Convention; Metal and Non-Metal Scrap - 2 Tons/ well Recyclers on periodic basis. Non-Hazardous Waste: Drill cuttings associated with SBM - 1500 Tons /well shall be Oil content in SBM drill cuttings will be treated to meet <10 g/kg and thereafter will be disposed at a rate of 50 barrel/hour/well. SBM will be collected for re- use in next drilling operation; Used Lubricating oil - 2 Tons / well shall be disposal to authorized recyclers; Wastes or residues containing oil - 100 Kg / well shall be disposal to authorized TSDF facility.	Noted for compliance. However, no activity during the reporting period.
43	The proponent should strictly comply with the E-Waste Management Rules, 2016, and report compliance.	Noted for compliance. However, no activity during the reporting period.
Environment		
44	The Project Proponent shall ensure that the transportation activity of the unit should not cause any inconvenience to the public and comply with the local norms, if any;	Noted for compliance. However, no activity during the reporting period.
45	The project shall implement the commitments, if any, made in the public hearing;	Not applicable.

Part C: General Condition		
1	This order is valid for 7 years.	Noted.
2	No further expansion, increase in production; or change in product mix or technologies/land use shall be made without prior approval of the SEIAA.	Noted.
3	The project proponent shall submit the copies of the Environmental Clearance 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.	Complied. Copies of the environmental clearance has been submitted to the Heads of Local and Municipal Bodies in addition to the relevant government offices vide letter dated 12/01/2023.
4	The project authorities should advertise at least in two local newspapers widely circulated, one of which shall be in the vernacular language of the locality concerned, within 7 days of the issue of the clearance letter informing that the project has been accorded environmental clearance and a copy of the clearance letter is available with the State Pollution Control Board and SEIAA, A.P.	Advertisement has been published in 'The Hindu' and 'The Eenadu' newspapers on 04.09.2022 & 04.09.2022 respectively.
5	The Prior Environmental Clearance issued to this project along with the Approved Environmental Management Plan (EMP) and the Approved DPR should be uploaded in the project's web site and be made available in the public domain.	To be complied with.
6	The PEC main contents be displayed on permanent boards at the main entry of the premises and at other prominent places.	Not applicable.
7	The project proponent shall strictly adhere to its Environmental Policy approved by the SEIAA and shall be made available in their web site.	To be complied with.
8	A separate "Environmental Management Unit" (With a laboratory) shall be set up with all monitoring facilities.	Noted for compliance
9	A Separate Bank account need to be started for the budget allocated for the EMP and the amount committed should be deposited before the project obtains CFE/CFO as the case may be. The amounts allocated should not be diverted for any other purpose.	To be complied with.
10	The funds earmarked for environmental protection measures (Capital cost Rs. 129 Crores & Recurring cost of Rs.129 Crores/Annum) should be kept in separate account and should not be diverted for other purpose. Year wise expenditure should be reported to the Ministry and its Regional Office located at Vijayawada.	To be complied with.
11	The proponent before starting the operations, shall obtain all other mandatory clearances from respective	Not applicable.

	departments, including the CFE and CFO from the APPCB.	The project is entirely an offshore, located at distance of 10.7 km from shoreline. Any project activity beyond 4.8 km from sea, does not falls under jurisdiction of APPCB.
12	The project proponent shall meticulously follow the Form-1/2 of the application; and approved EMP, for the purpose of all compliances.	To be complied with.
13	Four ambient air quality-monitoring stations should be established in the core zone as well as in the buffer zone. Location of the stations should be decided based on the meteorological data, topographical features and environmentally and ecologically sensitive targets and frequency of monitoring should be undertaken in consultation with the State Pollution Control Board.	Not applicable.
14	Data on ambient air quality should be regularly submitted to the Ministry including its Regional Office located at Bangalore and the State Pollution Control Board/ Central Pollution Control Board once in six months.	Not applicable.
15	Personnel working in the industry should be provided with protective respiratory devices and they should also be provided with adequate training and information on safety and health aspects.	to be complied with.
16	Occupational health check-up program for the workers should be undertaken periodically. A separate environmental management cell with suitable qualified personnel should be set-up under the control of a Senior Executive, who will report directly to the Head of the Organization.	To be complied with.
17	The project proponent shall submit Half-yearly 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 Ministry of Environment & Forests, its Regional Office, Vijayawada, SEIAA, A.P., Zonal Office of Central Pollution Control Board, Bangalore, and A.P. Pollution Control Board.	Being complied.
18	The proponent shall upload the status of compliance of the environmental clearance conditions including results of monitored data on their websites and shall update the same periodically.	To be complied with.
19	Officials from the Regional Office of MoEF&CC, Vijayawada / The SEIAA, Andhra Pradesh through the Regional Offices of Andhra Pradesh Pollution Control Board, who would be monitoring the implementation of environmental safeguards, should be given full cooperation, facilities and documents/data by the project proponents during their inspection. A	Noted.

	complete set of all the documents shall be submitted to the CCF, Regional Office to MoEF&CC, Vijayawada.	
20	SEIAA reserves the right to cancel the EC issued at any time, if EC has been obtained by the proponent through suppression of any information or furnishing false information upon which the project is appraised.	Noted.
21	Concealing the factual data in the compliance reports, or failure to comply with any conditions mentioned above may result in withdrawal of the EC and attract action under the provisions of Environment (Protection) Act, 1986.	Noted.
22	The SEIAA reserves the right to alter/modify the above conditions or stipulate any further conditions from time to time, in the interest of environment protection.	Noted.
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.	Noted.
24	The project authority must strictly adhere to the stipulations made by the Central Government as part of the international conventions and Merchant Shipping Act.	To be complied with.
25	The project authorities must strictly adhere to the stipulations made by the APCZMA.	Noted for compliance.
26	No further expansion or modifications in the plant should be carried out without prior approval of the SEIAA. In case of deviations or alterations in the project proposal from those submitted to SEIAA for clearance, a fresh reference should be made to the Ministry to assess the adequacy of conditions imposed and to add additional environmental protection measures required if any.	Noted.
27	The project authorities must strictly comply with the rules and regulations under Manufacture, Storage and Import of Hazardous Chemicals Rules, 1989 as amended on 3rd October 1994. Prior approvals from OISD, PESO, etc. should be obtained wherever applicable.	Noted for compliance. However, no activity during the reporting period.
28	The project authorities must comply with the rules and regulations with regard to handling and disposal of hazardous wastes in accordance with the Hazardous and Other Wastes (Management, Handling and Transboundary) Rules, 2016 wherever applicable.	Noted for compliance. However, no activity during the reporting period.
29	The overall noise levels in and around the rig area should be kept well within the standards (85 dB(A)) by providing noise control measures including	Noted for compliance. However, no activity during the reporting period.

	acoustic hoods, silencers, enclosures etc on all sources of noise generation.	
30	A separate environment management cell to be set up to carry out the environment management & monitoring functions.	Complied.
31	The project authorities will provide adequate funds both recurring and non-recurring to implement the conditions stipulated by the SEIAA as well as the APCZMA, State Government along with the implementation schedule for all the conditions stipulated herein.	Noted for compliance.
32	The implementation of the project vis-à-vis environmental action plans will be monitored by Ministry's regional office, State Pollution Control Board and Central Pollution Control board. A six-monthly compliance status report should be submitted to the monitoring agencies.	Being complied.
33	The project proponent should inform the public that the project has been accorded environmental clearance by the SEIAA and copies of the clearance letter are available with the State Pollution Control Board/Committee and may also be seen at Website of the MOEFCC. This should be advertised in at least two local newspapers that are widely circulated in the region of which one shall be in the vernacular language of the locality concerned.	Advertisement has been published in 'The Hindu' and 'The Eenadu' newspapers on 04.09.2022 & 04.09.2022 respectively.
34 (i)	No further expansion or modifications in the plant, other than mentioned in the EIA Notification, 2006 and its amendment, 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.	Noted.
(ii)	The energy source for lighting purpose shall be preferably LED based, or advanced having preference in energy conservation and environment betterment.	Noted for compliance. However, no activity during the reporting period.
(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).	Noted for compliance. However, no activity during the reporting period.
(iv)	The company shall undertake all relevant measures for improving the socio-economic conditions of the	To be complied with.

	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 stipulates 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 be diverted for any other purpose.	Noted for compliance.
(vi)	The environmental statement for each financial year ending 31 st March in Form-5 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.	Noted for compliance.
(vi i)	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.	Noted.
35	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.	Noted.