



Government of India  
Ministry of Environment, Forest and Climate Change  
(Issued by the State Environment Impact Assessment  
Authority(SEIAA), RAJASTHAN)

To,

The Dy. General Manager (ES & HSE)  
OIL INDIA LTD RAJASTHAN PROJECT  
2A-District Shopping Centre, Saraswati Nagar, Jodhpur -342005

**Subject:** Grant of Environmental Clearance (EC) to the proposed Project Activity under the provision of EIA Notification 2006-regarding

Sir/Madam,

This is in reference to your application for Environmental Clearance (EC) in respect of project submitted to the SEIAA vide proposal number SIA/RJ/IND2/447547/2023 dated 24 Nov 2023. The particulars of the environmental clearance granted to the project are as below.

- |  |   |
|--|---|
| 1. EC Identification No.                   | EC24B002RJ126504  |
| 2. File No.                                | 848   |
| 3. Project Type                            | New   |
| 4. Category                                | B   |
| 5. Project/Activity including Schedule No. | 1(b) Offshore and onshore oil and gas exploration, development & production   |
| 6. Name of Project                         | Proposed Onshore Exploratory drilling of 5 no.s of wells in OALP-V Block RJ-ONHP-2019/3 (Nagrassar) situated in Bikaner & Jaisalmer Districts of Rajasthan By M/s. Oil India Limited, Rajasthan Basin |
| 7. Name of Company/Organization            | OIL INDIA LTD RAJASTHAN PROJECT   |
| 8. Location of Project                     | RAJASTHAN   |
| 9. TOR Date                                | N/A   |

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

Date: 26/02/2024

(e-signed)  
Ms. Khyati Mathur  
Member Secretary  
SEIAA - (RAJASTHAN)

*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.*

PARIVESH

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and Virtuous Environmental Single-Window Hub)



State Level Environment Impact Assessment Authority, SEIAA, Rajasthan  
10, Bhawani Singh Lane, Sahkar Marg, Jaipur-302001.  
E-mail:- [seiaams2021@gmail.com](mailto:seiaams2021@gmail.com)

No. F1 (4)/SEIAA/SEAC-Raj/Sectt/Project /Cat.1(b) **B1**(24057)/2021-22

Jaipur, Dated: **26 FEB 2024**

M/s-Oil India Ltd Rajasthan Project,  
Shri Tabrez Akhtar Ansari,  
Dy. General Manager (ES & HSE),  
Address-2A-District Shopping Centre,  
Saraswati Nagar, Basni, Jodhpur, Rajasthan.

Sub:-EC for Proposed Onshore Exploratory drilling of 5 no.s of wells in OALP-V Block RJ-ONHP-2019/3 (Nagrassar) situated in Bikaner & Jaisalmer Districts of Rajasthan (**Proposal No- 447547**).

This has reference to your application dated 24.11.2023 seeking environmental clearances for the above project under EIA Notification 2006. The proposal has been appraised as per prescribed procedure in the light of provisions under the EIA Notification 2006 on the basis of the mandatory documents enclosed with the application viz. the questionnaire, EIA, EMP and additional clarifications furnished in response to the observation of the State Level Expert Appraisal Committee Rajasthan, in its meeting held on 4<sup>th</sup> & 5<sup>th</sup> January, 2023.

**2. Brief details of the Project:**

1.	Category/Item no.(in Schedule)	Sector 1(b) & Category B2																														
2.	Location of Project	OALP-V Block RJ-ONHP-2019/3 (Nagrassar) covering an area of 1819.48 Sq.Km under Bikaner & Jaisalmer districts of Rajasthan																														
3.	Project Details M.L. No./Production capacity	<p>Total 5 wells Coordinates of Corner Points of RJ-ONHP-2019/2</p> <table border="1" style="margin-left: 40px;"> <thead> <tr> <th>Boundary Point</th> <th>Longitude (E)</th> <th>Latitude (N)</th> </tr> </thead> <tbody> <tr> <td>A</td> <td>72°20'00.00"</td> <td>28°00'00.00"</td> </tr> <tr> <td>B</td> <td>72°50'00.00"</td> <td>28°00'00.00"</td> </tr> <tr> <td>C</td> <td>72°50'00.00"</td> <td>27°40'00.00"</td> </tr> <tr> <td>D</td> <td>72°20'00.00"</td> <td>27°40'00.00"</td> </tr> </tbody> </table> <p>Tentative well co-ordinates to be drilled in block RJ-ONHP-2019/3 (Nagrassar)</p> <table border="1" style="margin-left: 40px;"> <thead> <tr> <th>Well</th> <th>Longitude</th> <th>Latitude</th> </tr> </thead> <tbody> <tr> <td>P1N</td> <td>72°28'42.04"E</td> <td>27°44'3.06"N</td> </tr> <tr> <td>P2N</td> <td>72°34'58.48"E</td> <td>27°49'56.86"N</td> </tr> <tr> <td>P3N</td> <td>72°26'47.79"E</td> <td>27°47'55.61"N</td> </tr> <tr> <td>P4N</td> <td>72°40'23.59"E</td> <td>27°51'36.91"N</td> </tr> </tbody> </table>	Boundary Point	Longitude (E)	Latitude (N)	A	72°20'00.00"	28°00'00.00"	B	72°50'00.00"	28°00'00.00"	C	72°50'00.00"	27°40'00.00"	D	72°20'00.00"	27°40'00.00"	Well	Longitude	Latitude	P1N	72°28'42.04"E	27°44'3.06"N	P2N	72°34'58.48"E	27°49'56.86"N	P3N	72°26'47.79"E	27°47'55.61"N	P4N	72°40'23.59"E	27°51'36.91"N
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		P5N	72°39'45.37"E	27°44'59.29"N		
4.	Project Cost	Rs. 7,500 Lakhs for 5 wells (Rs. 1500 Lakh for 1 well)				
5.	Water Requirement & Source	Sl. No	Description	Quantity of Water Requirement	Quantity of Wastewater generation	Disposal method
		1	Water for domestic use	5 KLD/Well	4 KLD/Well	The domestic sewage will be treated and disposed through septic tanks.
		2	Drilling water consumption for mud preparation	22 KLD/Well	--	Waste drilling mud stored in HDPE lined pits for solar evaporation
		3	Drilling Rig operation			
		a.	Jet wash – washing of drill cuttings at shale shaker	3 KLD/Well	7 KLD/Well	The water will be adequately treated in a mobile ETP to ensure conformance to the S No. 72 A (ii) Schedule I Standards for Emission or Discharge of Environmental Pollutants from Oil Drilling and Gas Extraction Industry of CPCB. The treated water will be recycled back for mud preparation purposes/drilling equipment washing/ dust suppression/etc.
		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		
			<b>Total</b>	<b>35 KLD/well</b>		
		Source of water: Surface water from IGNP (Indira Gandhi Nahar Pariyojana) water supply				
6.	Fuel & Energy	HSD will be used as fuel 4 KLD of fuel per day at each well during drilling period will be required. DG Sets of 600 KVA – 2 Nos. (One number of DG Set standby) during site preparation and drilling phase.				
7.	Environment Management Plan	EMP budget per Well				
		Sl. No.	Pollution Control Measures	Cost in Rs.		
		1	Wastewater Effluent Management	Capital	Recurring	
			<i>Septic Tank</i>	50,000	10,000	
			<i>Water Quality Monitoring</i>	-	10,000	
		2	Use of Mobile ETP	-	3,00,000	
		3	Noise and Vibration Mitigation	-	-	
	<i>Noise Monitoring</i>	-	5,000			
	<i>Maintenance &amp; Cost of Equipment</i>	-	5,00,000			

		4	Solid Waste Management	2,50,000	-
			<i>HDPE Lined waste Pit</i>	3,00,000	-
		5	Air Emission Mitigation	-	-
			<i>Approach Road construction (For new Road having 7.0 m Width and 1.0 km length)</i>	40,00,000	4,50,000
			<i>Air Monitoring</i>	-	50,000
		6	Other civil constructions like Cutting Pit / waste pit / Garland Drain / fire water reservoir	10,00,000	-
		7	Water Spray to prevent Dusting	-	10,000
		8	Training to staff	-	1,30,000
		9	General Awareness in local public	-	35,000
		10	Site restoration in case of abandoned well (token amount)	20,00,000	-
	<b>Total</b>	<b>76,00,000</b>	<b>15,00,000</b>		
8.	CSR/ESR Activities	Sl. No	CER Activities	Unit (Number) for 3 yrs.	
		1	Safe drinking water supply through installation of RO plant (Capacity 1000 Liter/ day)	4 Nos.	
		2	Sanitation facility (Construction of Community Toilets with Septic Tank and Soak pit, Construction of Individual Household Latrines (IHHLs), Individual Sanitation in Rural Areas	3 Nos.	
		3	Procurement of Medical Equipment, Strengthening of Eye Care Infrastructure and providing Mobile Medical Ambulance in the Rural Health Centre, Financial Assistance etc.	3 Nos.	
		4	Installation of Deep Bore Wells with High Platform in villages	4 Nos.	
		5	Promoting Eco-friendly behaviour through use of Green Energy in 2 schools	3 Nos.	
		6	Skill development of local people for enhancing their livelihood opportunities, etc. of unskilled villagers	5 Nos.	
9.	Green Belt/Plantation	The periphery around the drill site of approximated imensions160mx160 misnecessarily planted with local saplings (approximately120saplings) and there after maintained till the rigmoves to the next location after 60 to 90 days of operations.			

10.	Budgetary Breakup for Labour	The following provisions will be made towards labour welfare during drilling:		
		Sl. No	Particulars	Estimated Budget per well (in lakhs)
		1	Safe drinking water for Workforce	6 Lakhs/per well
		2	Sanitation facilities	
		3	First aid facility and ambulance for emergency medical evacuation	
		4	PPEs (Safety Boots, Helmet, Mask, ear plugs, gloves, etc.)	
5	Environment, Safety & Occupational health and wellness awareness program			

3. The SEAC Rajasthan after due considerations of the relevant documents submitted by the project proponent and additional clarifications/documents furnished to it have recommended for Environmental Clearance with certain stipulations. The SEIAA Rajasthan after considering the proposal and recommendations of the SEAC, Rajasthan in its 5.112<sup>th</sup> Meeting held on .02.2024 hereby accord Environmental Clearance to the project as per the provisions of Environmental Impact Assessment Notification 2006 and its subsequent amendments, subject to strict compliance of the terms and conditions as follows:

**Specific conditions:**

Proper testing of the waste discharged from drilling will be done at prescribed each level through accredited labs. The PP will ensure that proper disposal of the Hazardous discharge if found during the drilling and exploration process will be done as per norms.

**I. Statutory compliance:**

- i. The project proponent shall obtain forest clearance under the provisions of Forest (Conservation) Act,1980, 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. Necessary authorization required under the Hazardous and Other Wastes (Management and Trans-Boundary Movement) Rules, 2016, Solid Waste Management Rules, 2016 shall be obtained and the provisions contained in the Rules shall be strictly adhered to.
- vi. The PP shall inform concerning RO of RSPCB before drilling operation for exploration of Oil & Gas.

**II. Air quality monitoring and preservation**

- i. 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
- ii. 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.

- iii. The locations of ambient air quality monitoring stations shall be decided in consultation with the State Pollution Control Board (SPCB) and it shall be ensured that at least one station each is installed in the up wind and down wind directions as well as where maximum ground level concentrations are anticipated.
- iv. Ambient air quality shall be monitored at the nearest human settlements as per the National Ambient Air Quality Standards issued by the Ministry vide G.S.R. No. 826(E) dated 16th November, 2009 for PM10, PM2.5, SO2, NOX, CO, CH4, HC, Non-methane HC etc.
- v. During exploration, production, storage and handling, the fugitive emission of methane, if any, shall be monitored using Infra-red camera/ appropriate technology.
- vi. The project proponent also to ensure trapping/storing of the CO2 generated, if any, during the process and handling.
- vii. Approach road shall be made pucca to minimize generation of suspended dust

### **III. Water quality monitoring and preservation**

- i. 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. Domestic sewage shall be disposed of through septic tank/soak pit.
- ii. 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.
- iii. 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.
- iv. The company shall construct the earthen drain all around the drilling site to prevent runoff of any oil containing waste into the nearby water bodies. Separated rainage system shall be created for oil contaminated and non-oil contaminated. Effluent shall be properly treated and treated wastewater shall conform to CPCB standards.
- v. 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/drill cutting shall be discharged/disposed of 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.

### **IV. Noise monitoring and prevention**

- i. The company 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.
- ii. 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.
- iii. The ambient noise levels shall conform to the standards prescribed under Environment (Protection) Act, 1986 Rules, 1989 viz. 75 dB (daytime) and 70 dB (night time).

### **V. Energy Conservation measures**

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

### **VII. Waste management**

- i. Oil spillage prevention and mitigation scheme shall be prepared. In case of oil spillage/contamination, action plan shall be prepared to clean the site by adopting proven technology. The recyclable waste (oily sludge) and spent oil shall be disposed of to the authorized recyclers.
- ii. Oil content in the drill cuttings shall be monitored by some Authorized agency and report shall be sent to the Ministry's Regional Office

#### VIII. Safety, Public hearing and Human health issues

- i. Emergency preparedness plan based on the Hazard identification and Risk Assessment (HIRA) and Disaster Management Plan shall be implemented.
- ii. Blow Out Preventers system shall be installed to prevent well blowouts during drilling operations. BOP measures during drilling shall focus on maintaining well bore hydrostatic pressure by proper pre-well planning and drilling fluid logging etc.
- iii. Company 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.
- iv. On completion of drilling, the company has to plug the drilled well safely and obtain certificate from environment safety angle from the concerned authority
- v. The company shall take measures after completion of drilling process by well plugging and secured enclosures, decommissioning of rig upon abandonment of the well and drilling sites shall be restored to the area in original condition. In the event that no economic quantity of hydrocarbon is found a full abandonment plan shall be implemented for the drilling site in accordance with the applicable Indian Petroleum Regulations
- vi. The Company shall take necessary measures to prevent fire hazards, containing oil spill and soil remediation as needed. Possibility of using 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.
- vii. Training shall be imparted to all employees on safety and health aspects of chemicals handling. Pre-employment and routine periodical medical examinations for all employees shall be undertaken on regular basis. Training to all employees on handling of chemicals shall be imparted.
- viii. The company shall develop a contingency plan for H<sub>2</sub>S release including all necessary aspects from evacuation to resumption of normal operations. The workers shall be provided with personal H<sub>2</sub>S detectors in locations of high risk of exposure along with self-containing breathing apparatus
- ix. Provision shall be made for the housing of construction labour within the site with all necessary 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.
- x. Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.
- xi. The Company shall carry out long term subsidence study by collecting base line data before initiating drilling operation till the project lasts. The data so collected shall be submitted six monthly to the Ministry and Regional Office.

#### IX. Corporate Environment Responsibility

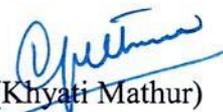
- i. The project proponent shall comply with the provisions contained in this Ministry's OM vide F.No. 22-65/2017-IA.III dated 1st May 2018, as applicable, regarding Corporate Environment Responsibility.
- ii. The company shall have a well laid down environmental policy duly approved by the Board of Directors. The environmental policy should prescribe for standard operating procedures to have proper checks and balances and to bring into focus any infringements/ deviation/ 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 share holders/ 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.
- iii. A separate Environmental Cell equipped with full-fledged laboratory facilities shall be set up to carry out the Environmental Management and Monitoring functions, with qualified personnel shall be set up under the control of senior Executive, who will directly report to the head of the

organization.

- iv. Action plan for implementing EMP and environmental conditions along with responsibility matrix 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 alongwith the Six Monthly Compliance Report.
- v. Self environmental audit shall be conducted annually. Every three years third party environmental audit shall be carried out.

**X. Miscellaneous**

- i. The project proponent shall make public the environmental clearance granted for their project along with the environmental conditions and safeguards at their cost by prominently advertising it at least 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.
- iii. The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website and update the same on half-yearly basis.
- iv. The project proponent shall submit six-monthly reports on the status of the compliance of the stipulated environmental conditions on the website of the ministry of Environment, Forest and Climate Change at environment clearance portal.
- v. The Environment Clearance shall be valid for a maximum of ten years which may be further extended by another one year, beyond ten years, subject to the condition as per MoEF&CC Notification dated 12.04.2022.

  
(Khyati Mathur)  
Member Secretary,  
SEIAA, Rajasthan.

No. F1 (4)/SEIAA/SEAC-Raj/Sectt/Project/Cat.1(b)B1(24057)/2021-22 Dated:

**Copy to following for information and necessary action:**

1. Deputy Director, Integrated Regional Office, Jaipur, Ministry of Environment, Forest & Climate Change, Govt. of India, A- 209 & 218, ARANYA BHAWAN, Mahatma Gandhi Road, Jhalana Institutional Area, Jaipur – 304002 (Raj.).
2. Additional Chief Secretary, Environment Department, Rajasthan, Jaipur.
3. Sh. Rajeeva Swarup, IAS (Retd.), Chairman, SEIAA, Room No. 101, Aravalli Bhawan, Jhalana Institutional Area, Jaipur.
4. Dr. Suresh Chandra, IFS (Retd.), Member, SEIAA, Room No. 103, Aravalli Bhawan, Jhalana Institutional Area, Jaipur.
5. Member Secretary, Rajasthan State Pollution Control Board, Jaipur.
6. Member Secretary, SEAC Rajasthan.
7. Environment Management Plan- Division, Monitoring Cell, Environment, Forest & Climate Change, Govt. of India, Indira Paryavaran Bhawan, Jor Bagh Road, Aliganj, New Delhi-110003.
8. I.A, SEIAA, Jaipur with the direction to upload the copy of this Environment Clearance on the website.

  
M.S. SEETHA, (Raj.)  
Digitally signed by: Ms. Khyati Mathur  
Designation: Member Secretary  
Date and Time: 2/26/2024 11:09:13 AM