



सत्यमेव जयते

File No: IA-J-11015/31/2024-IA-II  
Government of India  
Ministry of Environment, Forest and Climate Change  
IA Division

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Date 28/10/2024



To,

Sh. Rajeeva Kumar,  
M/s OIL AND NATURAL GAS CORPORATION LIMITED,  
Deendayal Urja Bhavan, 5, Nelson Mandela Marg, Vasant Kunj, SOUTH, DELHI, 110070  
head\_env@ongc.co.in

**Subject: Onshore Development and Production of Oil & Gas from 22 wells in Forest Area in 6 PML blocks, Golaghat district, Assam located at District Golaghat, State Assam by M/s Oil and Natural Gas Corporation Limited – Consideration of Environment Clearance reg.**

Sir/Madam,

This is in reference to your application submitted to MoEF&CC vide proposal number IA/AS/IND2/471560/2024 dated 25/06/2024 for grant of prior Environmental Clearance (EC) to the proposed project under the provision of the EIA Notification 2006 and as amended thereof.

2. The particulars of the proposal are as below :

(i) EC Identification No.	EC24A0303AS5948612N
(ii) File No.	IA-J-11015/31/2024-IA-II
(iii) Clearance Type	Fresh EC
(iv) Category	A
(v) Project/Activity Included Schedule No.	1(b) Off-shore and onshore oil and gas exploration, development and production
(vi) Sector	Industrial Projects - 2
(vii) Name of Project	Onshore development and production of oil & gas from 22 wells in forest area in 6 PML blocks, Golaghat district, Assam
(viii) Name of Company/Organization	OIL AND NATURAL GAS CORPORATION LIMITED
(ix) Location of Project (District, State)	GOLAGHAT, ASSAM
(x) Issuing Authority	MoEF&CC
(xi) Applicability of General Conditions as per EIA Notification, 2006	No

3. The Ministry of Environment, Forest and Climate Change has examined the proposal seeking environmental clearance for Onshore Development and Production of Oil & Gas from 22 wells in Forest Area in 6 PML blocks, Golaghat district, Assam located at District Golaghat, State Assam by M/s Oil and Natural Gas Corporation Limited.

4. All Offshore and onshore oil and gas exploration, development & Production are listed at S.N. 1(b) of the Schedule of Environmental Impact Assessment (EIA) Notification under Category 'A' and are appraised at Central Level by Expert Appraisal Committee (EAC).

5. The details of products and capacity are placed in Annexure II.

6. Ministry/SEIAA has issued Environmental Clearance for development activity vide File No. IA-J-11011/86/2019-IA-II(I) dated 17/03/2017. Certified Action Taken Report has been obtained by IRO, MOEFCC, IRO-GHY/E/IA/AS/MI/02/5357-59 DATED 28/03/2024. EAC found compliance status satisfactory.

7. Standard Terms of Reference have been obtained vide F. No IA-J-11011/ 489/2021-IA-II(I) dated 14th December 2021. It was informed that no litigation is pending against the project.

Public Hearing for the proposed project had been conducted by the Assam Pollution Control Board on 4th of August 2023 at Kalyanpur (Weekly market) Community Hall, Kalaynpur, Golaghat chaired by Ms Orpah Baglary (ACS), DDC Golaghat. The main issues raised during the public hearing and their action plan are placed in Annexure III. EAC found the above action plan for the issues raised satisfactory. Further, PP informed that no written grievances were received for the Public Hearing.

8. The total land area required is 260.09 sq. km. The estimated project cost, including the development and production drilling of 22 development well locations, is approximately Rs 550 Crores. The capital cost of EMP would be Rs. 0.2825 Crores and the recurring cost for EMP would be Rs. 0.331 Crores per annum. Industry proposes to allocate Rs. 2.0 Crores towards Extended EMP (Corporate Environment Responsibility). Total Employment will be 100 persons as direct & indirect.

9. There are no national parks, wildlife sanctuaries, Biosphere Reserves, Tiger/Elephant Reserves, Wildlife Corridors etc. within 10 km distance. The Doyang Reserved Forest is situated north, and the Rengma Reserved Forest is in the south. Nambar Wildlife Sanctuary and the Nambar Reserved Forest are in Western PML Blocks. The nearest PML block, located near the ESZ boundary of Nambar Wildlife Sanctuary, is Kalyanpur PML at approximately 13.08 Km. There are eleven (11) Schedule I species (Small Indian Mongoose, Small Indian Civet, Large Indian Civet, Steppe Eagle, Swamp Francolin, Common hill myna, Chequered Keelback, Rat snake, Russell's viper, Indian Cobra, Monocled cobra) as reported by Divisional Forest Officer, Golaghat, which have reported ranges within the study area. ONGC has submitted Conservation Plan with proposed 10-year budget (INR 5000,000) to the DFO office, Golaghat Forest Division for their approval vide letter No. ONGC/JRT/HSE/SCH-1/22Wells/2024 dated 03.04.2024. Dhansiri is the main river in the Golaghat district and flows from south to north and eventually joins the Brahmaputra River. The river flows on the western side of the PML block boundaries. The nearest distance of Dhansiri River is approximately 3.4 km. from the Golaghat district PML. Rengma River flows from the southern part of the blocks and crosses the Nambar ML, Khoraghat Extn ML, and Khoraghat PML. Further downstream, the Rengma River meets the Doyang River at the western side of the Golaghat PML area. The Doyang River meets the Dhansiri River on the northwestern side of the blocks. The rivers flow in a highly meandering course within the block along the eastern and western sides of the PML boundaries.

Detail of the Forest clearance obtained is placed in Annexure IV.

10. Ambient air quality monitoring was carried out at 8 locations during October 2022 to December 2022 and the baseline data indicates the ranges of concentrations as: PM10 (25 - 81 $\mu\text{g}/\text{m}^3$ ), PM2.5 (9 - 52  $\mu\text{g}/\text{m}^3$ ), SO2 (4.6 - 8.1  $\mu\text{g}/\text{m}^3$ ) and NO2 (19.1 - 30.3  $\mu\text{g}/\text{m}^3$ ). AAQ modelling study for point source emissions indicates that the maximum incremental GLCs after the proposed project would be 0.18  $\mu\text{g}/\text{m}^3$ , 0.63  $\mu\text{g}/\text{m}^3$ , and 2.4  $\mu\text{g}/\text{m}^3$  with respect to PM10, SO2 and NOX. The resultant concentrations are within the National Ambient Air Quality Standards (NAAQS).

11. The total freshwater requirement will be 25 CMD which will be met from tanker during the drilling period. Effluent of 20 CMD quantity will be treated through Effluent Treatment Plant of capacity 25 KLPD. STP of capacity 25 KLPD will

be installed to treat sewage generated from factory premises. The plant will be based on Zero Liquid discharge system and no effluent/treated water will be discharged outside the factory premises.

12. The power requirement during the site preparation and construction phase would be met by 4 Nos. of DG Sets. The power requirement for drilling will be met by using the four Diesel Generator Sets of 750 kVA, 3 working and 1 standby. Stack of 7.7 m will be provided as per CPCB norms to the proposed DG sets.

13. Details of Process emissions generation and its management:

The emission would be generated from activities such as flaring activities, functioning of DG sets etc. The management of emission is given in the following points:

- All vehicles used in the transportation of raw materials and personnel would have valid Pollution under Control Certificate (PUC). The vehicular exhaust would be complying with the CPCB-specified emission norms for vehicular Emission.
- Adequate stack height would be provided to DG sets in accordance with CPCB standards.
- Exhausts of diesel/Gas generators would be positioned at a sufficient height to ensure dispersal of exhaust emissions; engines would not be left running.
- Preventive maintenance of GEG/DG sets would be undertaken;
- Flaring would be undertaken in accordance with the CPCB Guidelines for Gaseous Emissions for Oil & Gas.

14. Details of solid waste/Hazardous waste generation and its management plan are placed in Annexure V.

15. During deliberations, EAC discussed the following issues:

- EAC noted that the PML blocks are falling in one district namely Golaghat District. PH was conducted only in Golaghat District since all the proposed drilling locations are located in Golaghat district only.
- EAC suggested to enhance the budget allocated towards extended EMP to Rs. 2.00 Crores. Accordingly, PP submitted a revised list of activities proposed under extended EMP increasing the budget to Rs. 2.00 Crores.

EAC found the information submitted by PP satisfactory.

16. The proposal was considered by the EAC (Meeting ID: EC/AGENDA/EAC/134190/6/2024) held on 02nd July, 2024 in the Ministry, wherein the project proponent and the accredited Consultant M/s. AECOM Indian Private Limited (NABET certificate no. NABET/EIA/2124/RA 0247 and validity 19th November 2024), presented the case. The Committee recommended the project for grant of environmental clearance.

17. The EAC, constituted under the provision of the EIA Notification, 2006 and comprising of Experts Members/domain experts in various fields, have examined the proposal submitted by the Project Proponent in desired form along with the EIA/EMP report prepared and submitted by the Consultant accredited by the QCI/ NABET on behalf of the Project Proponent. The EAC noted that the Project Proponent has given undertaking that the data and information given in the application and enclosures are true to the best of his knowledge and belief and no information has been suppressed in the EIA/EMP report. If any part of data/information submitted is found to be false/ misleading at any stage, the project will be rejected and Environmental Clearance given, if any, will be revoked at the risk and cost of the project proponent.

18. The Committee noted that the EIA/EMP report is in compliance of the ToR issued for the project, reflecting the present environmental concerns and the projected scenario for all the environmental components. The Committee has found the baseline data is within NAAQ standards. The Committee has deliberated the action plan proposed by the project proponent to arrest the incremental GLC due to the project. The Committee has also deliberated on the CER plan and found to be addressing the issues in the study area. The EAC has deliberated the proposal and has made due diligence in the process as notified under the provisions of the EIA Notification, 2006, as amended from time to time and accordingly made the recommendations to the proposal. The Experts Members of the EAC have found the proposal in order and have recommended for grant of Environmental Clearance.

19. The environmental clearance granted to the project/activity is strictly under the provisions of the EIA Notification 2006 and its amendments. It does not tantamount/construe to approvals/consent/ permissions etc. required to be obtained or standards/conditions to be followed under any other Acts/ Rules/ Subordinate legislations, etc., as may be applicable to



the project. The project proponent shall obtain necessary permission as mandated under the Water (Prevention and Control of Pollution) Act, 1974 and the Air (Prevention and Control of Pollution) Act, 1981, as applicable from time to time, from the State Pollution Control Board, prior to construction & operation of the project.

20. Based on the proposal submitted by the project proponent and recommendations of the EAC (Industry-2), Ministry of Environment, Forest and Climate Change hereby accords environmental clearance for establishment of Onshore Development and Production of Oil & Gas from 22 wells in Forest Area in 6 PML blocks, Golaghat district, Assam located at District Golaghat, State Assam by M/s Oil and Natural Gas Corporation Limited, under the provisions of the EIA Notification, 2006, and the amendments therein, subject to compliance of the terms and conditions.

21. The Ministry reserves the right to stipulate additional conditions, if found necessary at subsequent stages and the project proponent shall implement all the said conditions in a time-bound manner. The Ministry may revoke or suspend the Environmental Clearance, if the implementation of any of the above conditions is not found satisfactory.

22. Concealing factual data or submission of false/fabricated data and failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract action under the provisions of the Environment (Protection) Act, 1986.

23. Any appeal against this environmental clearance shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.

24. The above conditions will be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, the Hazardous Waste (Management, Handling and Transboundary Movement) Rules, 2016 and the Public Liability Insurance Act, 1991 read with subsequent amendments therein.

25. This issues with the approval of the competent authority.

#### **Copy To**

1. The Secretary, Environment & Forest, H-Block, 2ndFloor, Janata Bhawan, Disupr, Guwahati - 781006 (Assam).
2. The Regional Officer, Ministry of Env., Forest and Climate Change, Regional Office, Guwahati, 4th Floor, HOUSEFED Building, G.S. Road Rukminigaon, Guwahati - 781022.
3. The Member Secretary, Central Pollution Control Board, Parivesh Bhawan, East Arjun Nagar, Delhi - 32.
4. The Member Secretary, Pollution Control Board Assam, Bamunimaidam, Guwahati - 21 (Assam).
5. Compliance and Monitoring Division, Ministry of Environment, Forest and Climate Change, Indira Paryavaran Bhawan, Jor Bagh Road, New Delhi – 3.
6. The District Collector, Golaghat, Assam.
7. Guard File/Monitoring File/ Parivesh Portal /Record File.

#### **Annexure 1**

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

#### **1. Off-shore And Onshore Oil And Gas Exploration, Development And Production**

<b>S. No</b>	<b>EC Conditions</b>
<b>1.1</b>	PP shall comply with the conditions stipulated in the Change of Land Use Approvals/Stage-II FCs issued for the proposed 22 wells.
<b>1.2</b>	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 and Stage II

S. No	EC Conditions
	Forest Clearance, as per the Ministry's OM dated 8th August 2019 and 16th July 2020, if any area falls within the limits of wildlife.
1.3	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 the Chief Wildlife Warden for approval. The recommendations shall be implemented in consultation with the State Forest/Wildlife Department in a time-bound manner.
1.4	No drilling activities shall be carried out within 500 m from the water bodies.
1.5	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 (Annexure-VI).
1.6	No pipelines or its part shall be laid in the Forest land/Protected Area without prior permission/approval from the Competent Authority.
1.7	The total freshwater requirement shall not exceed 25 m <sup>3</sup> /day and will be met through Tankers Supply. Prior permission shall be obtained from the concerned regulatory authority.
1.8	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 the drilling system. The size of the waste pit 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 rainwater. There shall be separate stormwater channel and rainwater shall not be allowed to mix with wastewater. Alternatively, if possible, pitless drilling be practiced instead of the above. Produced water generated shall be treated within the premises as per the Standards for Liquid Effluent of Oil Drilling and Gas Extraction Industry notified in The Environment (Protection) Rules 1986 and shall not be discharged untreated anywhere or in any stream.
1.9	During production, storage and handling, the fugitive emission of methane, if any, shall be monitored using Infra-red camera/ appropriate technology. No flaring shall be carried out during the operation phase.
1.10	The project proponent also to ensure trapping/storing of the CO <sub>2</sub> generated, if any, during the process and handling.
1.11	Approach road shall be paved to minimize generation of suspended dust.
1.12	The project proponent shall make all arrangements for the 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.
1.13	The company shall construct the garland drain to prevent runoff of any oil-containing waste into the nearby water bodies. Separate drainage system shall be created for oil contaminated and non-oil contaminated.
1.14	Drill cuttings separated from drilling fluid shall be adequately washed and disposed of in HDPE

S. No	EC Conditions
	lined pit. Waste mud shall be tested for hazardous contaminants and disposed of according to HWMH Rules, 2016. No effluent/drilling mud 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 operations notified vide GSR.546(E) dated 30th August 2005. Industry shall obtain membership of the TSDF site before obtaining CTO and shall dispose of the hazardous waste generated at the drill site to TSDF approved by GPCB.
1.15	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.
1.16	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.
1.17	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.
1.18	Blow Out Preventer system shall be installed to prevent well blowouts during drilling operations.
1.19	On completion of the project, necessary measures shall be taken for the 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.
1.20	PP proposed to allocate Rs. 2.0 Crores towards Extended EMP (CER) which shall be spent as submitted in CER plan (Annexure-VII). Further, all the proposed activities under CER shall be carried out in consultation with the District Administration.
1.21	No lead acid batteries shall be utilized in the project/site.
1.22	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.
1.23	Oil content in the drill cuttings shall be monitored and a report shall sent to the Ministry's Regional Office.
1.24	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 management. All the schedules and results of environmental monitoring shall be available at the project site office. Remote monitoring of the site should be done.
1.25	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 the

S. No	EC Conditions
	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 the concerned authority.

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

**1. General Conditions**

S. No	EC Conditions
1.1	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.
1.2	The energy source for lighting purpose shall be preferably LED based, or advanced having preference in energy conservation and environment betterment.
1.3	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 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).
1.4	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.
1.5	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.
1.6	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.
1.7	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.
1.8	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



S. No	EC Conditions
	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.
1.9	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 <a href="https://parivesh.nic.in/">https://parivesh.nic.in/</a> . 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.
1.10	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.
1.11	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.

## 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)
Crude Oil	Product	180	MT per day	Tankers	
Natural Gas	Product	24800	Standard cubic meter per day	Tankers	



The details of products and capacity are as under:

S. No	Product Details	Existing Quantity	Proposed Quantity	Total quantity (Estimated)
1	Development & production well	None	The estimated production of crude oil is 180 TPD m <sup>3</sup> /day and natural gas of 0.25 Lakh SCMD.	The estimated production of crude oil is 180 TPD and natural gas of 0.25 Lakh SCMD.

The Proposed Well Co-Ordinates are mentioned below:

Sl. No.	Oil Field	Wells to be Drilled/EPS/GGS	Well Coordinate *
1	Khorghat Extn. -I PML	KHDG, KHDS.	KHDG 26°4'47.964"N, 93°56'43.8" E KHDS 26°4'47.964"N, 93°56'43.98" E
2	Khorghat Extn. -I PML	KHDT, KHDL, KHDM	KHDT 26°3'54.072"N, 93°56'8.916" E KHDL 26°3'54.108"N, 93°56'8.556" E KHDM 26°3'53.856"N, 93°56'8.88" E
3	Khorghat PML	KHDN	KHDN 26°3'18"N, 93°54'37.404" E
4	Kasomarigaon PML	KSDF, KSDG, KSDH	KSDF 26°17'59.532"N, 94°3'26.676" E, KSDG 26°17'59.388"N, 94°3'26.784" E, KSDH 26°17'38.29"N, 94°2'48.37" E
5	Kasomarigaon (Add) (Area-IV) PML	DPDS, DPDT	DPDS 26°13'16.428"N, 94°0'38.7" E DPDT 26°13'16.284"N, 94°0'38.412" E
6	Golaghat District	DPEA, DPEB, DPEC, DPED,	DPEA

	PML	DPEE	26°12'9.936"N, 93°59'46.212" E DPEB 26°12'9.648"N, 93°59'46.176" E DPEC 26°12'9.684"N, 93°59'45.996" E DPED 26°12'9.396"N, 93°59'46.14" E DPEE 26°12'9.432"N, 93°59'45.96" E DPEF 26°12'9.288"N, 93°59'45.924" E
7	Kalayanpur PML	KPDA, KPDB, KPDC, KPDD, KPDE	KPDA 26°20'22.128"N, 94°6'40.248" E KPDB 26°20'22.416"N, 94°6'40.248" E KPDC 26°20'22.416"N, 94°6'40.464" E KPDD 26°20'22.704"N, 94°6'40.248" E KPDE 26°20'22.704"N, 94°6'40.464" E

\*all well coordinates can be shifted to  $\pm 500$  m of radius subject to availability of land.

### Annexure –III

#### **The main issues raised during the public hearing and their action plan:**

S . N .	Name of the attendee	Concerns raised during Public Hearing	Response to the concerns/issues raised in public hearing	Mitigation Measures	Responsibility	Timeline	Cost Allocation
1	Sri Pritambar Barua, Gao Pradhan of	Proper compensation to the stakeholders of the land acquired	All the landowners will be compensated by a competent authority,	All the locations covered under this project are being drilled in the	In Charge LAQ, ONGC Jorhat	NA as its already existing site.	NA as its already existing site.

	Kalyan pur Village, Sarupani Gaon Panchayet, Dist.-Golaghat, State-Assam	for project activities.	according to the land valuation rate, decided by the Assam State Government.	already existing and diverted forest land. Therefore, no new land is being acquired for this project.			
2	Sri Pritambar Barua, Gao Pradhan of Kalyan pur Village, Sarupani Gaon Panchayet, Dist.-Golaghat, State-Assam	Proper Implementation of Corporate Social Responsibility (CSR) Scheme.	<ol style="list-style-type: none"> <li>1. Development of schools or teaching institution for betterment of local children. Infrastructure development in project area for betterment of educational facilities.</li> <li>2. Proper guidance to the local people to avail CSR scheme benefits.</li> </ol>	<ol style="list-style-type: none"> <li>1. ONGC will aid in funding to the existing Government Primary Schools for upgradation to Secondary Level.</li> <li>2. ONGC will take the initiative to build new primary schools, middle schools, and higher secondary schools, so that the villagers don't have to travel long distance for educational</li> </ol>	In charge HR-ER, ONGC Jorhat	<ol style="list-style-type: none"> <li>1. ONGC has taken up the job of upgradation of Milon Jyoti Middle School in the project area. The work is under progress and will tentatively finish by September'2024.</li> <li>2. Further the project of reconstructing and upgrading the Simantu Sarupani High School Building is also being taken up</li> </ol>	<ol style="list-style-type: none"> <li>1. The project cost is 24 lakhs.</li> <li>2. The tentative proposal cost is 10 lakhs.</li> </ol>

				facilities.		by ONGC, the same is expected to be started by August'2024. 3. More proposals will be taken up and will be completed within 03 years of commencement of project.	
3	Deven Knowar, Retired teacher of Kalyanpur Village, Sarupani Gaon Panchayet, Dist.-Golaghat, State-Assam	Construction of roads around the land acquired for projects activities.	The development of roads will be done periodically, provided these roads are not maintained by State Public Works Department (PWD), National Highway Authority, State Highway Authority and Gaon Panchayats.	ONGC has an Annual Rate Contract (ARC) in place for construction of new roads and repair and maintenance of existing roads that are damaged by the vehicle movement, owned by ONGC, during construction, operation & decommissioning phase of oil wells.  ONGC will alert vehicle management for	In charge Civil, ONGC Jorhat	During Construction, operational and decommissioning phase of oil wells.	Rs. 50 lakhs



				<p>maintaining the speed limits of vehicles involving in transportation of drilling rig and raw material.</p> <p>ONGC will cooperate, in the organization of several road safety programs/campaign with concerned authorities.</p> <p>ONGC will provide parking facility outside the drilling location.</p>			
4	Deven Knowar, Retired teacher of Kalyanpur Village, Sarupani Gaon Panchayet, Dist.	Poor condition of network coverage for communication through mobile.	Network coverage will be strengthened by installing mobile towers in the project area. In this regard a request letter will be sent to Bharat Sanchar Nigam Limited (BSNL), informing the current condition of	ONGC officials will send the request letter to BSNL for permission, regarding installation of mobile networking tower on those areas where network condition is poor.	In charge INFOCOM, ONGC Jorhat	December' 2024	Network Towers are being laid by BSNL.

			network coverage on that area.				
5	Sri Santos h Ganjn, residen t of Harupa ni Village, Ratanp ur Gaon Pancha yet, Dist.- Golagh at, State- Assam	Contamin ation of pollutants in project area due to oil spillage during operation of drilling wells on similar type of project, sanctione d previously , at SUAB site.	Bioremediat ion of petroleum contaminat ed environmen ts. In this process, microorgani sms are used to break down oils and to change their structure from large harmful particles to smaller, harmless substances such as fatty acids or CO2. Financial help to the victims affected due to contaminati on of pollutants for any kind of Oil spillage.	ONGC has a Centralised Rate Contract with M/s OTBL (ONGC TERI Biotech Ltd.) for in situ and ex situ Bioremediati on of Oily Sludge and oil contaminate d soil. This job of Bioremediati on is being done at regular basis after the drilling operations are completed, in order to maintain cleaner well site.  As inquired no such contaminatio n of pollutants has occurred and no harm has been caused to the local public due to ONGC's operations. However in case of any contaminatio n, ONGC will identify the victims due to	Head HSE, ONGC Jorhat	Post Drilling Operations	90 lakhs

				contamination of pollutants for any kind of oil spillage and give a lumpsum compensation to them.			
6	Sri Santosh Ganjn, resident of Harupani Village, Ratanpur Gaon Panchayet, Dist.-Golaghat, State-Assam	Employment opportunities for the family of landowner compensated during land acquisition required for project construction and operation.	Generation of direct recruitment of different roles, required for project operation. Generation of qualification-based job-opportunities, according to vacancies in projects operation.	The apprenticeship programme is being conducted by ONGC Jorhat every year and the hired Apprentices got involved in all the field operations. Also regular postings for hiring of local people are being done at District level under various disciplines.	In charge HR - ER	During drilling, production and demolition phase.	Skill development and training. Rs. 50 lakhs
7	Sri Diganta Tasha, resident of Kalyanpur Village, Sarupani Gaon Panchayet, Dist.-Golaghat, State-Assam	Employment opportunities for Women	Under Corporate Social Responsibility (CSR) Scheme, small scales projects like mushroom cultivation, handloom livelihood projects, will empower women to raise funds and contribute to their families.	ONGC has taken up a Mushroom Cultivation Project in Sarupathhar District wherein the women are being trained for the Mushroom Cultivation. ONGC has also taken up 03 nos .	In Charge HR-ER ONGC Jorhat	Based on requirement during drilling, production and demolition phase.  Within 03 years of commencement of project.	Total Budget for skill development i.e. Mushroom Cultivation and Handloom Livelihood, is kept as Rs. 50

				<p>of Handloom projects in Uttar Nagheri, Gabrajan and Gandh Korai areas of Kasomarigao n</p> <p>ONGC will arrange more such training programs for mushroom cultivation &amp; handloom livelihood projects, specifically for women to give practical exposure to them and make them understand the framework of the small-scale industry before getting into work. ONGC will also help in funding for the growth of small business and encourage them to work with enthusiasm.</p>			Lakhs.
8	Sri Digant a Tasha, Kalyan pur Village, Sarupani	Medical Facilities for the local people	Establishment of proper health check-up facilities within the project area.	Regular eye check-up camps and Health Check-up camps are being conducted by ONGC Jorhat	In Charge HR-ER, ONGC Jorhat	During construction, operational and decommissioning	Upto 50 lakhs



	Gaon			under CSR scheme. Also more such camps are under planning and 8 to 10 camps wherein specialised will be conducted.		phase	
9	Mrs. Dipika Phulcan, Kalyanpur Village, Sarupani Gaon Panchayet, Dist.- Golaghat, State-Assam	Fulfilment of commitments given by M/S ONGC Ltd. In Public Hearing	ONGC representatives have assured to fulfil all commitments and will also guide the local people regarding CSR scheme in future.	ONGC is working in these PMLs since years and as a responsible Corporate ONGC takes due care of the stakeholders in all the aspects i.e. employment, wellbeing, developing infrastructure, skill development along with the due compensations, as per the policies and guidelines.	ONGC	During drilling, production and demolition phase.	Provided in above columns .

#### Annexure - IV

#### Details of Forest clearance obtained are given below:

PMLs Name	Area of forest land (Ha)	Proposed Location Name	Distance from Sanctuary/	Change of Land Use Details issued by Forest
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			<b>ESZ bound ary</b>	
<b>Khoraghat Extn.-I PML</b>	3.01	KHDG, KHDS,	22.27	FG.27/FCA/Change of Land Use/Drill site/KHAI/ONGC dated 13.02.2024
<b>Khoraghat Extn.-I PML</b>	2.24	KHDL, KHDM, KHDT	31.16	FG.27/FCA/Change of Land Use/Drill site/KHDD/ONGC dated 18.05.2024
<b>Khoraghat PML</b>	3.50	KHDN	28.25	FG.27/FCA/Change of Land Use/Drill site/KHE/ONGC dated 13.02.2024
<b>Kasomarigaon PML</b>	2.55	KSDF,KS DG, KSDH	18.56	FG.27/FCA/Change of Land Use/KSDA,KSDB,KSDF,K SDG &KSDH from KSAC/ONGC dated 20.12.2022
<b>Kasomarigaon(Ad d.) PML</b>	1.69	DPDS, DPDT	17.35	FG.27/FCA/Change of Land Use/DPDS, DPDT & Surface Facility from Suphayam dated 20.12.2022
<b>Golaghat District PML</b>	2.16	DPEA, DPEB, DPEC, DPED, DPEE, DPEF	17.29	FG.27/FCA/Change of Land Use/DPDA,DPEA,DPEB etc. from SUAA/ONGC dated 03.02.2023
<b>Kalyanpur PML</b>	1.735	KPDA, KPDB, KPDC, KPDD, KPDE	13.08	FG.27/FCA/Change of Land Use Drill site KPAA/ONGC dated 13.02.2024
<b>TOTAL</b>	<b>16.885 ha</b>			

## **Annexure - V**

### **Details of Solid and Hazardous waste generated is given below:**

<b>Waste type</b>	<b>Quantity</b>	<b>Characteristics</b>	<b>Management measures</b>
Kitchen waste	10- 15 kg/day	Organic waste (non- HW)	Will be stored in compost pits on daily basis.
Drill cuttings	225	Mainly inert material	Drill cuttings would be disposed

	m <sup>3</sup> /well	consisting of shales, sands, and clay; about 1% of drilling mud. (Non HW)	off in a well-designed pit lined with impervious liner located on site as per SI No. 72 C.1.a Schedule I Standards for Emission or Discharge of Environmental Pollutants from Oil Drilling and Gas Extraction Industry of CPCB as modified in 2005.
Waste Drilling Mud (Fluid)	700 m <sup>3</sup>	Barite, Bentonite and Traces of Heavy metals (HW).	The mud would be tested for hazardous contaminants and will be disposed as per SI No. 72 C.1.a Schedule I Standards for Emission or Discharge of Environmental Pollutants from Oil Drilling and Gas Extraction Industry of CPCB as modified in 2005
Acid – Lead batteries	-	Lead – Acid (HW)	Will be recycled through the vendors supplying acid – lead batteries as required under the Batteries (Management & Handling) Rules, 2001.
Oily sludge	1-2 tons/well	Used & waste oil	Used oil will be sent to CPCB authorized recyclers.
Recyclables viz. plastic packaging, paper waste etc.	-	Depending on usage	Proper segregation and storage of recyclable waste in designated bins onsite. Recyclable waste will be periodically sold to local waste recyclers.

## Annexure - VI

### **Capital cost and recurring cost of EMP are given below:**

Sr. No.	Mitigation/Management measures	Total Capital Cost, Rs	Recurring Cost, Rs
1	Wastewater and effluent Management Modular STP Water Quality Monitoring	10,00,000	40,000 40,000
2	Fuel, Lubricant and Chemical Management	15,00,000	65,000
3	Noise and Vibration Mitigation Acoustic Enclosure and Personal Protective Equipment	1,75,000	35,000 58,000

	Noise Monitoring Maintenance cost of equipment		
4	Solid Waste Management	1,50,000	50,000
5	Air emission mitigation Maintenance of D.G. sets Air monitoring	-----	10,00,000 1,25,000
6	Soil Quality	-----	43,000
7	Training to Staff	-----	1,25,000
8	General Awareness in Local Public	-----	1,75,000
<b>Total</b>		<b>28,25,000</b>	<b>3,31,000</b>

### Annexure - VII

#### **Details of extended EMP (CER) with proposed activities and budgetary allocation:**

S. no.	District	Particulars	Activity	Timeline	Total
1	Golaghat	Community infrastructure	<ul style="list-style-type: none"> <li>School buildings renovation and upgradation</li> <li>Capacity building and skill development projects for women to set up small scale business.</li> </ul>	Within 3 years from the commencement of the project	<ul style="list-style-type: none"> <li>0.50 Crores</li> <li>0.50 Crores</li> </ul>
3		Health	Health and Eye Check-up Camp		0.50 Crores
4		Infrastructure	Road Preparation		0.50 Crores
<b>Total funds under CER</b>					<b>Rs. 2.0 Crores</b>