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File No: IA-J-11011/202/2021-IA-II(I)
Government of India
Ministry of Environment, Forest and Climate Change
IA Division



Date **05/02/2024**



To,

Sh. AJIT CHANDRA HALOI
M/s. OIL INDIA LIMITED
OIL INDIA LIMITED DULIAJAN District : Dibrugarh , Duliajan, DIBRUGARH, ASSAM, Behind
Duliajan Thana, 786602
safety@oilindia.in

Subject: **Onshore Oil and Gas Exploration, Development Drilling and Production of Hydrocarbons in AA/ONDSF/Tulamara/2018 DSF Block in Gomati and South Tripura Districts of Tripura in an Area of 47.23 Sq.Km located at Silachari, Sukanchari Village, Taluk Teliamura, District South Tripura and Gomati, State Tripura by M/s. Oil India Limited – Consideration of Environment Clearance reg.**

Sir/Madam,

This is in reference to your application submitted to MoEF&CC vide proposal number IA/TR/IND2/447446/2023 dated 09th December, 2023 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.	EC23A0303TR5670523N
(ii) File No.	IA-J-11011/202/2021-IA-II(I)
(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 Oil and Gas Exploration, Development Drilling and Production of Hydrocarbons In AA/ONDSF/TULAMARA/2018 DSF Block In Gomati And South Tripura Districts of Tripura in an Area of 47.23 Sq.Km.
(viii) Name of Company/Organization	OIL INDIA LIMITED

(ix) Location of Project (District, State)	Gomati, TRIPURA
(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 Oil and Gas Exploration, Development Drilling and Production of Hydrocarbons in AA/ONDSF/Tulamara/2018 DSF Block in Gomati and South Tripura Districts of Tripura in an Area of 47.23 Sq.Km located at Silachari, Sukanchari Village, Taluk Teliamura, District South Tripura and Gomati, State Tripura by M/s. Oil India 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. Co-ordinates of proposed wells for 1(b) projects are placed at **Annexure-III**.

7. The Ministry has issued Environmental Clearance vide letter No. J-11011/633/2007-IA II (I) dated 22.10.2007 to the project exploratory Drilling (15 nos. of well) for Oil & Gas at Assam Arakan Fold Belt Block in Baramura- Gojalia-Tulamara Area, South Tripura District, Tripura in the favour of M/s. ONGC. Out of which one well (TMD) has been transferred in favour of Oil India Limited by ONGC along with TULAMARA #1 within the block area. Certified Compliance report of EC dated 22.10.2007 of M/s. ONGC has been issued by Integrated Regional Office, MoEF&CC, vide letter RONE/E/IA/TR/MI/20/3368-70 dated 07.03.2023 wherein it was mentioned that one well (TMD) has transferred favour of Oil India Limited. EAC found information satisfactory.

8. Standard ToR have been issued by Ministry vide IA-J-11011/202/2021-IA-II(I), dated 30.07.2021. Amendment in ToR has been granted by Ministry vide letter IA-J-11011/202/2021-IA-II(I) dated 30.08.2022. It was informed that no litigation is pending against the project.

Public Hearing for the proposed project had been conducted by the Tripura State Pollution Control Board on 17.08.2023 at 10.00 am at Silachari Community Hall, Silachari, Gomati District chaired by Shri Sumit Lodh, Additional District Magistrate & Collector, Gomati district of Tripura and on 18.08.2023 at 11:00 AM at Jolaibari BDO office chaired by Shri. Jogesh Reang, Additional District Magistrate & Collector, South Tripura district of Tripura. The main issues raised during the public hearings and their action plan are placed in **Annexure-IV**.

9. Total land area required for the drilling site is 24.93 hectares. Greenbelt will be developed with reference to the conditions provided in forest clearance of each well. Additionally, One Production installation will be constructed in available 3.02 Ha forest land associated with the existing well plinth of TULAMARA #1 within the block area, which was drilled by ONGC in 2008(EC No. J-11011/633/2007-IA II (I) dated 22.10.2007) after obtaining necessary Forest Clearance under purview of FCA, 1980 (FC approval on 29.08.2007 (Stage-I FC) and 06.12.2007 (Final FC)) and ONGC has transferred the same in favour of Oil India Limited. The estimated project cost is Rs. 150 Crores. Capital cost of EMP would be Rs. 1,01,50,000 and recurring cost for EMP would be Rs. 7,95,000 per annum. Industry proposes to allocate Rs. 3,00,00,000 towards Extended EMP (Corporate Environment Responsibility). Total Employment will be 80 persons as direct & indirect.

10. There are no national parks, wildlife sanctuaries, Biosphere Reserves, Tiger/Elephant Reserves, Wildlife Corridors etc. within 10 km distance from the proposed development location. Reserve forests/protected forests: Baramura Deotamura RF Within DSF Field and Muharipur RF at a distance 8.14 km in W direction. The project area falls within Baramura Deotamura RF, for which Stage-I as well as Stage-II / Final FC already accorded by the Ministry after deposition of a sum of Rs 1.65 crores (approx.) towards "Wildlife Conservation and Conflict Management Plan" for conservation of Schedule-I Species in pursuant to OM from Forest Conservation Division of MoEF&CC: FC-11/43/2021-FC dtd 08.06.2022. In addition to this, OIL has kept a budgetary provision of Rs 15 Lakhs for spending towards conservation of Schedule-I

species under purview of the Wildlife (Protection) Act, 1972 during execution of the project.

Water bodies: Within DSF Block 2nos. of water bodies i.e., Pagla Chara and Taimuktu Chara are located. Fenny River is at a 0.05Km distance of E direction, Kaphang Chhara is at a 0.53Km distance of W direction, Kala Chhara is at a 0.64Km distance of N direction, Muhari River is at a 1.34Km distance of W direction, Pati Chhara is at a 1.43Km distance of N direction, Manu Gang is at a 2.56Km distance of WSW direction, Chhota Patirai Chhara is at a 2.76Km distance of WNW direction, Sabrum Chhara is at a 2.87Km distance of S direction, Chaula Chhara is at a 3.03Km distance of W direction, Pilak Chhara is at a 3.25Km distance of W direction, Abhanga Chhara is at a 3.7Km distance of W direction, Bara Patirai Chhara is at a 4.27Km distance of W direction, Kalasi Chhara is at a 6.56Km distance of W direction, Singboa Chhara is at a 7.14Km distance of NNW direction, Chharakbai chhara 8.78Km distance of WNW direction, Baikhora Chhara is at a 9.47 Km distance of WNW direction, Mokhong Chhara is at a 9.88Km distance of NW direction, Ludhua Chhara is at a 9.91Km distance of S direction, Bidhya Chhara is at a 9.93Km distance of W direction, Ek Chhari is at a 9.98Km distance of N direction.

The details of Forest clearance have been given below:

- Stage-II Forest Clearance has been obtained for the development location named TULA for the area of 5.24 Ha as vide F.No.3-TR B 029/2022- SHI/1332-33 dated 03.08.2023.
- Stage-II Forest Clearance has been obtained for the development location named TULB for the area of 4.82 Ha as vide F.No.3-TR B 030/2022- SHI/1264-65 dated 31.07.2023.
- Stage-II Forest Clearance has been obtained for the development location named TULC for the area of 9.4 Ha as vide F.No.3-TR B 027/2022- SHI/1266-67 dated 31.07.2023.
- Stage-II Forest Clearance has been obtained for the development location named TULD for the area of 5.47 Ha as vide F.No.3-TR C 028/2022- SHI/1268-69 dated 31.07.2023.

The well Tulamura-1 (TD-2403M) was the first well drilled in this structure during the year 2008 by ONGC and it produced gas from a shallow reservoir (665 m Sand) belonging to Upper Bhuban Formation- After detailed production testing, the well was temporarily killed/plugged

Workover operation will be undertaken in ONGC's well Tulamara-I and One Production installation will be set up in the available 3.02 ha plinth area, where forest land has already been diverted by ONGC in 2008 itself after obtaining due FC approval on 29.08.2007 (Stage-I FC) and 06.12.2007 (Final FC). ONGC vide letter dated 27.05.2022 has transferred the said FC in favour of OIL. The details of Forest clearance table are placed in **Annexure-V**.

11. Ambient air quality monitoring was carried out at 8 locations during Mid February 2022 to Mid May 2022 and the baseline data indicates the ranges of concentration as: minimum and maximum levels of PM10 (34.9 to 59.4g/m³), PM2.5 (16.6 to 29.9g/m³), SO₂ (4.7 to 9.2 g/m³), NO₂(10.8 to 18.9g/m³). AAQ modelling study for point source emissions indicates that the maximum incremental GLCs after the proposed project would be 60.11g/m³, 9.86g/m³, 19.31 g/m³ with respect to PM10, SO₂ and NO_x, the resultant concentrations are well within the National Ambient Air Quality Standards (NAAQS).

12. Total water requirement will be 25 KLPD which will be met from Tube Well 100-150 ft in depth to be drilled inside well plinth. M/s has submitted applications for extraction of groundwater for all proposed 4 wells to Central Ground Water Authority (CGWA). Effluent generation will be 9 KLPD which will be treated through proposed mobile Effluent Treatment Plant of capacity 10KLPD. Domestic wastewater will be 4.5 KLPD which will be treated through proposed mobile Sewage Treatment Plant of capacity 10KLPD. The plant is based on Zero Liquid discharge system and hence treated effluent will not be discharged outside the premises.

Produced Water Management

The well was subdued with water due to which the generation of produced water will be Nil. In case of identification of their presence in minor level the same will be sent to nearby Surface Facilities system in Assam for the treatment and disposal table is placed at **Annexure-VI**.

One number of Surface Facilities (TULAMARA 1 well plinth area) of Capacity 0.3 MMSCMD is proposed which was transferred from ONGC where Gas and Liquid (Two Phase) separation will be done.

After separation the liquid (Condensate and Produced water) will be sent to Oil India Limited, Duliajan, Assam through bowser by road

The produced water will be separated and treated in Secondary Tank Farm(STF) in Oil India Limited, Duliajan, Assam having ETP of Capacity 7200KLD and after treatment it will be disposed into Injection Well (13no. are available)

Objective of Secondary Tank Farm(STF) in Duliajan:

- To provide safe storage of crude oil and to reduce the BS&W content to allowable level
- To facilitate gravity separation of formation water from crude oil
- To provide the infrastructure for separation of emulsified water from crude oil
- To process the separated formation water from the dehydration package in the Effluent Treatment Plant (ETP)
- To dispose the clarified water out of ETP at Water disposal wells table is placed at **Annexure-VII**.

13. The power requirement will be 2286 kVA which will be sourced from Diesel Generators having capacity, 2 nos. x 1143 kVA (running). No Boilers are available. 1 x 1143 kVA DG set will be used as standby during power failure and stack height 13 m above ground level will be provided as per CPCB norms to the proposed DG sets. Horizontal Flare is proposed for Flaring purpose which will be done only during testing period.

14. Details of Process emissions generation and its management:

- The source of stack are 3 nos. of 1143kVA Diesel Generator (1no will be standby) having a stack height of 13m having emission per stack for PM10, SO2 and NOx are to be 0.0876g/s, 0.0819g/s and 1.2455g/s for each stack respectively.
- Selective Catalytic Reduction (SCR) is recommended as an air pollution control measure for the reduction of Nox emission (90% reduction for SCR) from DG.
- The cumulative incremental concentrations of after implementation of SCR(APC Measure for Nox) PM10, SO2 and NOx are observed to be 0.71g/m3, 0.66g/m3 and 0.40g/m3 respectively. The total pollutant concentrations of PM10, SO2, NOx and CO are 60.11g/m3, 9.86g/m3, 19.3g/m3 respectively.

15. Details of solid waste/Hazardous waste generation and its management:

During the Construction Phase, 13.5kg/day of Organic Municipal Solid Waste and 9kg/day of Inorganic Municipal solid waste will be generated in which the Organic Waste will be Disposed off nearby municipal disposal site via local vendors. Inorganic waste will be properly segregated and storage of recyclable waste in designated bins onsite. Recyclables will be periodically sold to local waste recyclers.

During Drilling Phase, 5.4 kg/day of Organic Municipal Solid Waste and 3.6kg/day of Inorganic Municipal solid waste will be generated in which the Organic Waste will be Disposed off nearby municipal disposal site via local vendors. Inorganic waste will be properly segregated and storage of recyclable waste in designated bins onsite. Recyclables will be periodically sold to local waste recyclers.

During Production Phase, 2.7kg/day of Organic Municipal Solid Waste and 1.8kg/day of Inorganic Municipal solid waste will be generated in which the Organic Waste will be Disposed off nearby municipal disposal site via local vendors. Inorganic waste will be properly segregated and storage of recyclable waste in designated bins onsite. Recyclables will be periodically sold to local waste recyclers.

Hazardous Waste Generation - Used/ spent oil (Category 5.1) of quantity 0.04TPA will be collected in HDPE drums in secured dyked area and Disposed to CPCB/ TSPCB registered used oil recyclers/ facilities via authorized vendor(s)/transporter(s). In addition, Batteries of quantity 2-3nos will be Stored in secure manner in covered/ isolated area and Will be recycled through the vendors supplying batteries as required under the Batteries Rules 2001. The ETP sludge leftover will be sent to TSDF or TSPCB approved secured Landfill.

16. During deliberations, EAC discussed the following issues:

- PP has clarified that in the proposed block area of 47.23 Sq m DSF, OIL has not undertaken any Oil & Gas E&P

activities so far since after allotment of the Block by GoI on 07.03.2019. Tulamara- 1 well existing in the allotted block of OIL was drilled by ONGC only and OIL has no other well in the 47.23 Sq Km DSF Project Block, as OIL is going to enter the State of Tripura for first time.

- As suggested by EAC, PP committed that Mobile ETP shall be installed at site to avoid road transportation of produced water from project site in Tripura to STF plant of OIL in Assam.
- As desired by EAC, PP has provided the mechanism of SCR (Selective Catalytic Reduction) for NOx reduction.
- EAC noted that the eastern boundary varies from 50 m to 4 km away to Bangladesh from OIL's Tulamara DSF block. In this regard, OIL submitted an undertaking that, the spillage or discharge of any liquid waste will not be allowed to flow towards Bangladesh.

The committee was satisfied with the response provided by PP on the above information. Further, the Committee desired to submit the above information in writing. Accordingly, PP has submitted the desired information and EAC found the information/commitments satisfactory.

17. The proposal was considered by the EAC (Meeting ID: EC/AGENDA/EAC/900152/12/2023) held on 18th December, 2023 in the Ministry, wherein the project proponent and the accredited Consultant M/s. Hubert Enviro Care Systems (p) Limited (NABET certificate no. NABET/EIA/2224/SA0190 and validity 27.07.2024), presented the case. The Committee **recommended** the project for grant of environmental clearance.

18. 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 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.

19. 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.

20. 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.

21. Based on the proposal submitted by the project proponent and recommendations of the EAC (Industry-2), the Ministry of Environment, Forest and Climate Change hereby accords environmental clearance for the establishment of **Onshore Oil and Gas Exploration, Development Drilling and Production of Hydrocarbons in AA/ONDSF/Tulamara/2018 DSF Block in Gomati and South Tripura Districts of Tripura in an Area of 47.23 Sq.Km located at Silachari, Sukanchari Village, Taluk Teliamura, District South Tripua and Gomati, State Tripura by M/s. Oil India Limited**, under the provisions of the EIA Notification, 2006, and the amendments therein, subject to compliance of the terms and conditions.

22. 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 implementation of any of the above conditions is not found satisfactory.

23. 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.

24. 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.

25. 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.

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

Copy To

1. The Chief Secretary, Government of Tripura, State Civil Secretariat, New Capital Complex. PO- Kunjaban, Agartala, Tripura(West), PIN – 799010
2. The Regional Officer, Ministry of Env., Forest and Climate Change, Integrated Regional Office, Law-U-Sib, Lumbatngen, Near MTC Workshop, Shillong
3. The Chairman, Central Pollution Control Board Parivesh Bhavan, CBD-cum-Office Complex, East Arjun Nagar, Delhi -32
4. The Member Secretary, Tripura State Pollution Control Board, Parivesh Bhawan, PO-Kunjaban, Gorkhabasti, Agartala, Tripura 799006
5. The Compliance and Monitoring Division-IA Division, Ministry of Environment, Forest and Climate Change, Indira Paryavaran Bhawan, Jor Bagh Road, New Delhi
6. The District Collector, South Tripura and Gomati, Tripura
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. Sector Specific

S. No	EC Conditions
1.1	<p>1. PP shall comply with the conditions stipulated in the Stage-II Forest clearances granted below:</p> <ul style="list-style-type: none">• Stage-II Forest Clearance has been obtained for the development location named TULA for the area of 5.24 Ha as vide F.No.3-TR B 029/2022- SHI/1332-33 dated 03.08.2023.• Stage-II Forest Clearance has been obtained for the development location named TULB for the area of 4.82 Ha as vide F.No.3-TR B 030/2022- SHI/1264-65 dated 31.07.2023.• Stage-II Forest Clearance has been obtained for the development location named TULC for the area of 9.4 Ha as vide F.No.3-TR B 027/2022- SHI/1266-67 dated 31.07.2023.• Stage-II Forest Clearance has been obtained for the development location named TULD for the area of 5.47 Ha as vide F.No.3-TR C 028/2022- SHI/1268-69 dated 31.07.2023 <p>2. The project proponent shall prepare a site-specific conservation plan and wildlife management</p>

S. No	EC Conditions
	<p>plan in case of the presence of Schedule-1 species in the study area, as applicable to the project, and submit to Chief Wildlife Warden for approval. The recommendations shall be implemented in consultation with the State Forest/Wildlife Department in a time bound manner.</p> <p>3. No drilling activities shall be carried out within 500 m from the water bodies.</p> <p>4. Mobile ETP shall be installed at site to avoid road transportation of produced water from project site in Tripura to STF plant of OIL in Assam.</p> <p>5. PP shall ensure that no drilling wastewater or any other waste is allowed to escape transboundary i.e. to Bangladesh under any circumstances since the location of the proposed drilling wells are at hilly terrains and within close proximity to international boundary.</p> <p>6. 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 - VIII).</p> <p>7. No pipelines or its part shall be laid in the Forest land/Protected Area without prior permission/approval from the Competent Authority.</p> <p>8. Total fresh water requirement shall not exceed 25 m³/day and will be met through Tankers Supply. Prior permission shall be obtained from the concerned regulatory authority.</p> <p>9. (a) The project proponent will treat and reuse the treated water within the premises and no waste or treated water shall be discharged outside the premises.</p> <p>(b) Mobile ETP coupled with RO shall be installed to reuse the treated water in drilling system.</p> <p>(c) Size of the waste water pit shall be determined in such way that it can accommodate drilling waste water equal to the hole volume + volume of drill cutting and volume of discarded mud if any. In addition two feet free board may be left to accommodate rain water. Construction of large pits be avoided.</p> <p>(d) There shall be separate storm water channel and rain water shall not be allowed to mix with waste water.</p> <p>(e) Alternatively, if possible pit less drilling be practiced instead of above.</p> <p>10. During production, storage and handling, the fugitive emission of methane, if any, shall be monitored using Infra-red camera/ appropriate technology.</p> <p>11. The project proponent also to ensure trapping/storing of the CO₂ generated, if any, during the process and handling.</p> <p>12. Approach road shall be made pucca to minimize generation of suspended dust.</p> <p>13. The project proponent shall make all arrangements for control of noise from the drilling activity. Acoustic enclosure shall be provided for the DG sets along with the adequate stack height as per CPCB guidelines.</p> <p>14. The company shall construct the garland drain to prevent runoff of any oil containing waste into</p>

S. No	EC Conditions
	<p>the nearby water bodies. Separate drainage system shall be created for oil contaminated and non-oil contaminated waste water.</p> <p>15. 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.</p> <p>16. 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.</p> <p>17. The project proponent shall take necessary measures to prevent fire hazards, containing oil spill and soil remediation as needed. At fixed installations or plants use of ground flare shall be explored. At the place of ground flaring, the overhead flaring stack with knockout drums shall be installed to minimize gaseous emissions during operation.</p> <p>18. The project proponent shall develop a contingency plan for H2S release including all necessary aspects from evacuation to resumption of normal operations. The workers shall be provided with personal H2S detectors in locations of high risk of exposure along with self-containing breathing apparatus.</p> <p>19. Blow Out Preventer system shall be installed to prevent well blowouts during drilling operations.</p> <p>20. On completion of the project, necessary measures shall be taken for safe plugging of wells with secured enclosures to restore the drilling site to the original condition. The same shall be confirmed by the concerned regulatory authority from environment safety angle. In case of 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.</p> <p>21. PP proposed to allocate Rs. 3.00 Crores towards CER to address issues raised in Public Hearings conducted on 17.08.2023 & 18.08.2023 which shall be spent as submitted in CER plan (Annexure - IX). The action plan shall to be completed within timeline proposed.</p> <p>22. No lead acid batteries shall be utilized in the project/site.</p> <p>23. 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.</p> <p>24. Oil content in the drill cuttings shall be monitored and report & shall sent to the Ministry's Regional Office.</p> <p>25. The project proponent shall prepare operating manual in respect of all activities, which would cover all safety & environment related issues and measures to be taken for protection. One set of environmental manual shall be made available at the drilling site/ project site. Awareness shall be created at each level of the management. All the schedules and results of environmental monitoring shall be available at the project site office. Remote monitoring of site should be done.</p> <p>26. PP shall sensitize and create awareness among the people working within the project area as</p>

S. No	EC Conditions
	well as its surrounding area on the ban of Single Use Plastic in order to ensure the compliance of Notification published by MOEFCC on 12th August, 2021. A report along with photographs on the measures taken shall also be included in the six-monthly compliance report being submitted to concerned authority.

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

S. No	EC Conditions
	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.
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 https://parivesh.nic.in/ . This shall be advertised within seven days from the date of issue of the clearance letter, at least in two local newspapers that are widely circulated in the region of which one shall be in the vernacular language of the locality concerned and a copy of the same shall be forwarded to the concerned Regional Office of the Ministry.
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.

Additional EC Conditions

N/A

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)
Gas	Product	0.3	MMSCMD	Pipeline	

The details of products and capacity as under:

S. No.	Description	Proposal	Remarks
1	Development Drilling	4 nos. - TULA, TULB, TULC, TULD	Forest Clearance obtained
2	Production Setup	1 no. - TULAMARA#1 for which ToR Ammendment obtained	Transferred from ONGC to OIL
3	Existing Drilled Well	1 no. Drilled Well by ONGC in 2008 (Temporary Abandoned) Within TULAMARA#1	Transferred from ONGC to OIL
4	Proposed Activity by OIL in Existing Drilled Well transferred by the M/s ONGC which is mentioned in the above S.No. 3	workover operations/ servicing of wells for activation	To check the possibility of Hydrocarbon Availability
5	Pipeline	40 km interconnecting 4nos of proposed well and TULAMARA#1	For Two Phase Separation (Gas+Liquid)

S. No.	Field	Name of development location	Target Depth, (m TVD)	Seismic Reference (2D line)	Area (Ha)
1	Discovered Small Fields (DSF)	TULA	800	Close to 2D line TRJ-03A,CDP-108	5.24
2		TULB	1400	2D line TRJ-04A,CDP-38	4.82
3		TULC	2300	235m offset towards 076° true bearing from 2D line TR52-05 CDP 530	9.40
4		TULD	3200	2D line TR52-05,CDP-578	5.47
5	Production Site	Tulamara#1(TMD)	-		3.02
Total					27.95

Note:

- 4 Nos of development Wells-24.93 Ha.
- One Production installation will be constructed in available 3.02 Ha forest land associated with the existing well plinth of TULAMARA #1 within the block area, which was drilled by ONGC in 2008 (EC No.J-11011/633/2007-

IA II (I) dated 22.10.2007) after obtaining necessary Forest Clearance under purview of FCA, 1980 (FC approval on 29.08.2007 (Stage-I FC) and 06.12.2007 (Final FC) and ONGC Has transferred the same in favour of Oil India Limited.

- The associated certified compliance report form RO, MoEF&CC as vide No.RONE/E/IA/TR/MI/20/3368-70 dated 07.03.2023 Has been obtained for the transferred TMD Well in TULAMARA Site.
- Workover/ Service operation will be undertaken by OIL in ONGC's well Tulamara-I for the activation of hydrocarbon and also associated pipeline of 40km will be laid to interconnect the proposed development location and production setup for which ToR Amendment Has been obtained.

Annexure –III

Co-ordinates of proposed wells for 1(b) projects:

Coordinates of the proposed development location (4nos)

S. No.	Field	Name of development location	Latitude	Longitude
1	Discovered Small Fields (DSF)	TULA	23°14'07.87"N	91°44'45.24"E
2		TULB	23°14'44.22"N	91°44'59.97"E
3		TULC	23°12'51.30"N	91°45'10.50"E
4		TULD	23°12'32.35"N	91°45'10.30"E

Coordinates of the DSF Block

Blocks	Latitude	Longitude
A	23°16'00"E	91°44'00"N
B	23°16'00"E	91°46'00"N
C	23°14'00"E	91°46'00"N
D	23°14'00"E	91°47'00"N
E	23°11'00"E	91°47'00"N
F	23°11'00"E	91°48'00"N
G	23°10'00"E	91°48'00"N
H	23°10'00"E	91°45'00"N
I	23°12'00"E	91°45'00"N
J	23°12'00"E	91°44'00"N

The production setup coordinates in Tulmara-1 (Drilled by ONGC in 2008)

Blocks	Latitude	Longitude
A	23°14'30.20"N	91°44'32.93"E
B	23°14'32.68"N	91°44'33.59"E

C	23°14'31.78"N	91°44'36.33"E
D	23°14'29.68"N	91°44'34.39"E
Centre	23°14'31.04"N	91°44'34.22"E

Annexure –IV

The main issues raised during the public hearings and their action plan:

S.No	Issue Raised by	Issue	Reply by OIL	Commitment on fund allocation	Timeline
Minutes of Public Hearing in the Gomati district at Silachari Community Hall, Silacharion 17/08/2023 at 10:00am					
1.	Shri Amit Mog. from Kenjori Mog Para village under Barabil Gram Panchayat of Gomati district	He Has raised the demand for suitable local employment.	<p>Skill development training, Swabalamban for villages in and around operational areas in Gomati & South Tripura</p> <p>20 Canditaes per 3-month Residential course in GHY @ Rs.66,014 per student for 3years.</p> <p>Rs.66,014 x 20canditates x 4Wells = Rs.52,81,120</p> <p>For 3years, Rs.52,81,120 x 3 = Rs.1,58,43,360 ~ 1.584336 Crores</p>	Rs. 1,58,43,360	2023-24 2024-25 2025-26
2.	Shri Amal CHakma, from Gunomoni Sardar Para village under Barabil Gram Panchayat of Gomati district	He Has raised the query for compensation process for any damages if occurs- It was clarified that if any damages occurs due to Oil & Gas E&P activities to houses, roads etc, will be taken care by Oil India Ltd.	Already Agreed.	-	-
3.	Shri Jaba moHan Tripura, 2nd Officer of ShilacHari Police Statioin of	He Has raised the demand for renovation of Kali Mandir of ShilacHari Police	Agreed as the Police Station is near to the project site.	Rs. 10,00,000	2024-25, 2025-26

S.No	Issue Raised by	Issue	Reply by OIL	Commitment on fund allocation	Timeline
	Gomati district	Station			
4.	Shri Biswajit Das, Constable of Shilachari PS	Requested for repairing of Barrack and Toilet in the PS.			
5.	Shri Dulal CHakma, from Gajendra Karbari Para village under Silachari RD Block of Gomati district	Has raised the demand for drinking water issue and also raised the query for getting compensation for the Pattadars in forestlands - It was clarified that same will be considered based on records forwarded by the Forest Dept.	1. Agreed to solve the drinking water issue 2. OIL to pay surface compensation to the forest dweller whose Harvest will be affected due to E&P activities	Rs. 20,00,000	2024-25, 2025-26
6.	Shri Kiran Kumar CHakma. Ranger officer, Shilachari of Gomati district	Has raised the demand for a) Children play station and construction of one natural park	Submitted by Gomati Forest Range Officer & already agreed.	Rs.12,60,000	2024-25, 2025-26
		b) Office equipment for Forest Office.		Rs.5,40,000.00	
		c) Solar lights for rural areas like Ghorakappa area for which Official letter already submitted to Oil India Limited for a total amount of Rs 20 Lakhs		Rs.20,00,000	
7.	Shri Malay Kanti Tripura, Ghorakappa	Has raised the demand for repairing of road from Ghorakappa to Duluchari	Road from Ghorakappa to Duluchari is long length outside the block area which will not cover under OIL scope and will be under Highway department. So it is unable to do.	-	-
8.	Shri Malin Kumar Jamatia	Extended his best wishes to Oil India Limited for the upcoming project in Tulamara block	Welcomed the project	-	-

S.No	Issue Raised by	Issue	Reply by OIL	Commitment on fund allocation	Timeline
		and in the State of Tripura and assured to give full support for the project.			
9.	Shri Hiralal Das from Ghorakappa	Has raised the demand for construction of one community Hall in Ghorakappa.	Construction of one community Hall in Ghorakappa which will be coming under the Panchayat board. OIL will coordinate with them for the implementation.	-	-
10.	Shri Samir Das, from Ghorakappa	Has raised the demand for Road connectivity from Ghorakappa to Dhokpur	Road connectivity from Ghorakappa to Dhokpur is long length outside the block area which will not cover under OIL scope and will be under Highway department. So it is unable to do.	-	-
		Repairing of Ailmara to Silachari Road.	Agreed	5,00,000.00	2024-25, 2025-26
		He also requested for construction of one Motor Stand, Bank and Degree College at Silachari	Construction of one Motor Stand will not cover under OIL scope and will be under PWD department. So it is unable to do. Construction of College & Bank will not cover under OIL scope and will be under state government department. So it is unable to do.	-	-
11.	Shri SiddHartHa CHakma from Gunomoni Sardar	He Has requested for generation of local employment	Skill development training,	Rs. 1,58,43,360	2023-24 2024-25 2025-26

S.No	Issue Raised by	Issue	Reply by OIL	Commitment on fund allocation	Timeline
	Para village under Barabil Gram Panchayat of Gomati district	in connection with the project.	Swabalamban for villages in and around operational areas in Gomati & South Tripura		
12.	Shri Nonigopal Tripura, from Sukhnachari village	He Has raised the demand for community Hall for Sukhnachari.	Community Hall for Sukhnachari which will be coming under the Panchayat board. OIL will coordinate with them for the implementation.	-	-
13.	Shri Gopal Tripura, from Ghorakappa ADC village	He Has raised the demand for employment for local people and construction of some Stalls in the Ghorakappa market	Skill development training, Swabalamban for villages in and around operational areas in Gomati & South Tripura Construction of Stall(Huge Markets) will not cover under OIL scope. So it is unable to do.	Rs. 1,58,43,360	2023-24 2024-25 2025-26
14.	Shri Dharendra Tripura, from Ghorakappa ADC village	He Has raised the demand for construction of one Ladies/Gents Toilet & repair of Market shed in Ghorakappa Market.	Agreed	Rs. 10,00,000	2024-25, 2025-26
15.	Shri Moran Das, Silachari village	He Has requested to consider for recruiting skilled manpower for the project like Electrician, Mechanics etc which are readily available in Silachari area. He also requested to construct a room for the priest in Jagannath Mandir in Silachari Bazar.	Skill development training, Swabalamban for villages in and around operational areas in Gomati & South Tripura In regards to construct a room for the priest will be not able to do since it is religious structure.	Rs. 1,58,43,360	2023-24 2024-25 2025-26
16.	Shri Mongboli Mog from Hazachari village	He raised the demand for water supply for agricultural	Water supply for agricultural purposes will not cover under	-	-

S.No	Issue Raised by	Issue	Reply by OIL	Commitment on fund allocation	Timeline
		purposes and also requested for construction of one Pagoda in BuddHa Mandir at Haza CHari, Jogendra Para.	OIL scope and will be under Gram Panchayat. So it is unable to do and the query was also not in specific location.		
			Construction of one Pagoda in BuddHa Mandir at Haza CHari, Jogendra Para will be not able to do since it is religious structure.	-	-
17.	Shri Sunam CHakma from Silacbari village committee	Requested for construction of one boundary wall in Village Committee Office.	construction of one boundary wall in Village Committee Office will be done	3,00,000.00	2024-25, 2025-26
Sub-Total for Gomati district				Rs.2,44,43,360.00	
Minutes of Public Hearing in the South Tripura district at Jolaibari B.D.O office, Jolaibari on 18/08/2023 at 11:00a.m					
1.	Shri PaisanMog. from CHandrakanta Para under Jolaibari RD Block of South Tripura district	He Has raised the demand for improvement of road from Khowaifang to Lampacbara.	Improvement of road from Khowaifang to Lampacbara is long length outside the block area which will not cover under OIL scope and will be under Highway department. So it is unable to do.	-	-
2.	Shri SaikulLodh, from Jolaibari Police Station under Jolaibari RD Block of South Tripura	He Has raised the demand for CC road of 100m at SHantirbazar, & boundary fencing of 2.5km to stop ongoing encroachments in the area	CC road of 100m at SHantirbazar is outside the block area which will not cover under OIL scope and will be under Highway department. So it is unable to do.	-	-
		CC road construction of 200m at Sakulia	CC road of 200m at Sakulia will be done	Rs.5,00,000	2024-25
		Boundary fencing	Construction of one Boundary	Rs.20,00,000	2024-25

S.No	Issue Raised by	Issue	Reply by OIL	Commitment on fund allocation	Timeline
		of 2.5km to stop ongoing encroachments in the area	fencing of 2.5km will be done		
3.	Shri DHanmoHan Tripura, from Srikanta Para village under Jolaibari RD Block of South Tripura district	He raised a demand for treatment of contaminated water which was done during some project carried out in 2012 & he also requested for engagement of local people in connection with the project & arrangement for drinking water in the area	Treatment of contaminated water was done in proper manner in block operator Jubliant		
			Arrangement for drinking water i.e., Hand Pump will be done	Rs. 20,00,000	2024-25
			Skill development training, Swabalamban for villages in and around operational areas in Gomati (3 village) & South Tripura (1 village)	Rs. 1,58,43,360	2023-24 2024-25 2025-26
4.	Sri PratimoHan Tripura, CHairman Srikanta Bari VC level Forest right committee	Demanded the following items: a) Construction of one submersible pump at ABHED PanchHajug Longdrai Shiv Seva Asram and HarimoHan Para Anganwari centre(AWC) b) Construction of new 3.5km road from Kayram Para NBCC to Ailmara BuddHa mandir c) Construction of new 8 km road from Anna CHandra Para to Dev Kumar Para via Jolaibari-	Construction of one submersible pump will be not able to do since it is amenities to religious bodies.	-	-
			Construction of new 3.5km road is long length outside the block area which will not cover under OIL scope and will be under Highway department. So it is unable to do.	-	-
			Construction of new 8 km road is long length outside the block area which will not cover under OIL scope and will be under Highway department. So it is unable to do.	-	-
			200 nos.	Rs. 5,28,320	2024-25

S.No	Issue Raised by	Issue	Reply by OIL	Commitment on fund allocation	Timeline
		Ailmara PWD road. d) 200 nos. benches for the village school e) Construction of community toilet at Srikanta Bari VC. f) Construction of new 2 nos. of buildings for A WC for Srikanta Bari & Haribakta Para	benches for the village school will be provided Construction of community toilet at Srikanta Bari VC will be done Construction of new 2 nos. of buildings is not in specific building requirement and will not cover under OIL scope and will be under PWD department. So it is unable to do.	 Rs. 5,28,320 -	 2024-25 -
Sub-Total for South Tripura district				Rs.55,56,640	
Grand Total (Gomati & South Tripura district)				Rs.3,00,00,000.00	

Annexure - V

S. No.	Field	Name of development location	Area (Ha)	Target depth (m TVD)	Forest Clearance file no.	Dated	Approval Status
1	Discovered Small Fields (DSF)	TULA	5.24	800	F.No.3-TR C 029/2022-SHI/2791-92	30.12.2022	Stage-I Approval issued
					F.No.3-TR B 029/2022-SHI/1332-33	03.08.2023	Stage-II Approval issued
2		TULB	4.82	1400	F.No.3-TR B 030/2022-SHI/2795-96	30.12.2022	Stage-I Approval issued
					F.No.3-TR B 030/2022-SHI/1264-65	31.07.2023	Stage-II Approval issued
3		TULC	9.4	2300	F.No.3-TR C	10.02.2023	Stage-I

S. No.	Field	Name of development location	Area (Ha)	Target depth (m TVD)	Forest Clearance file no.	Dated	Approval Status
4		TULD	5.47	3200	027/2022-SHI/3185-86		Approval issued
					F.No.3-TR B 027/2022-SHI/1266-67	31.07.2023	Stage-II Approval issued
					F.No.3-TR C 028/2022-SHI/2793-94	30.12.2022	Stage-I Approval issued
					F.No.3-TR C 028/2022-SHI/1268-69	31.07.2023	Stage-II Approval issued
5	Production Site	Tulamara#1 (TMD)	3.02	-	F.No.3-TR B 041/2006-SHI/788-90	21.09.2023	Final Approval

Annexure - VI

Development Location Name	Surface Facilities Name	Capacity
TULA	TULAMARA 1 well plinth area	0.3 MMSCMD
TULB		
TULC		
TULD		

Annexure - VII

Development Location Name	Surface Facilities Name	Produced Water Treatment Location	Mode of Transfer of Produced water to ETP	Disposal of Treated Produced Water from ETP	Mode of Transfer of Treated Produced Water from ETP to ED Wells
TULA	TULAMARA 1 well plinth area	Secondary Tank Farm(ST F) in Oil India	Bowser	Effluent Disposal Well (ED Wells)	Pipeline

		Limited, Duliajan, Assam			
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Annexure - VIII

Capital cost and recurring cost of EMP are given below:

Sl. No.	Particulars	Budget in Lakhs per well	
		Capital cost (Lakhs)	Operating cost (Lakhs)
1	Construction of waste pit for collection and storage of drill cuttings and drilling waste	20	2
2	Installation of HDPE Liner in the waste pit to prevent soil contamination	50	2
3	Bund construction / garland drain around drill site	3	0.5
4	Dust suppression through water sprinkling in the internal roads at drill sites (@Rs. 2000 per day x 30 days construction phase, 15 days decommissioning phase per well)	0.9	0.2
5	Emission monitoring and sample analysis of Ambient air quality, Noise emission, stack monitoring, Effluent wastewater, etc	0.5	0.25
6	Monitoring of ground water quality at drill sites (2 locations in each drill site)	0.3	-
7	Monitoring- surface water quality (3 locations in each drill site)	0.3	-
8	Monitoring- treated runoff at drill sites (1 location, once during drilling phase -monsoon period)	0.25	-
9	Soil quality monitoring - 1 location in each drill site	0.25	-
10	Engagement of Sewage Treatment Plant	15	-
11	Disposal of treated Drill Cuttings	8	2
12	Construction of Chemical Storage shed with Spill Containment Provision	3	1
Total		101.5	7.95

Annexure - IX

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

S.No.	Activities	Budget	Timeline
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Activities on Public Hearing issues in the Gomati district			
1	Increasing scope of local employment through skill development and training program	₹ 1,58,43,360.00	2023-24 2024-25 2025-26
2	Renovation of Kali Mandir of Shilachari Police Station Repairing of Barrack and Toilet in the PS	₹ 10,00,000.00	2024-25
3	Demand for drinking water issue in 2 villages by providing 40nos of Hand Pump	₹ 20,00,000.00	2024-25
4	Children play station and construction of one natural park Office equipment for Forest Office as estimated by State Forest department.	₹ 12,60,000.00	2024-25 2025-26
5	Office Equipment for Forest office as estimated by State Forest department.	₹ 5,40,000.00	2024-25 2025-26
6	Solar lights (100nos) for rural areas like Ghorakappa area near to Market Places	₹ 20,00,000.00	2024-25 2025-26
7	Repairing of Ailmara to Silachari Road	₹ 5,00,000.00	2024-25
8	Construction of one Ladies/Gents Toilet & repair of Market shed in Ghorakappa Market.	₹ 10,00,000.00	2024-25
9	Construction of one boundary wall in Silachari Village Committee Office	₹ 3,00,000.00	2024-25
Activities on Public Hearing issues in the South Tripura district			
10	CC road of 200m at Sakulia as estimated by State Forest department.	₹ 5,00,000.00	2024-25 2025-26
11	Boundary fencing of 2.5km to stop ongoing encroachments in the area as estimated by State Forest department.	₹ 20,00,000.00	2024-25 2025-26
12	Arrangement for drinking water in 2 villages by providing 40nos of Hand Pump	₹ 20,00,000.00	2024-25 2025-26
13	200 nos. benches for the village schools	₹ 5,28,320.00	2024-25 2025-26
14	Construction of community toilet at Srikanta Bari VC	₹ 5,28,320.00	2024-25 2025-26
Total		₹ 3,00,00,000.00	