



Government of India
Ministry of Environment, Forest and Climate Change
(Impact Assessment Division)

To,

The CGM(HSE)

OIL INDIA LIMITED

Safety & Environment Department , Oil India Limited,
Duliajan,,Dibrugarh,Assam-786602

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

Sir/Madam,

This is in reference to your application for Environmental Clearance (EC) in respect of project submitted to the Ministry vide proposal number IA/AS/IND2/248260/2016 dated 02 Feb 2022. The particulars of the environmental clearance granted to the project are as below.

1. EC Identification No.	EC23A002AS198872
2. File No.	J-11011/388/2016-IA II (I)
3. Project Type	Expansion
4. Category	A
5. Project/Activity including Schedule No.	1(b) Offshore and onshore oil and gas exploration, development & production
6. Name of Project	Onshore Oil & Gas development drilling of 73 Nos drilling wells in Tinsukia and Dibrugarh districts under Hugrijan, Naharkatiya & Naharkatiya Extn, Sapkaint and few parts of Dumduma (BlockA & B),Borha
7. Name of Company/Organization	OIL INDIA LIMITED
8. Location of Project	Assam
9. TOR Date	29 Apr 2017

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

Date: 31/07/2023

(e-signed)
A N Singh
Scientist E
IA - (Industrial Projects - 2 sector)

Note: A valid environmental clearance shall be one that has EC identification number & E-Sign generated from PARIVESH. Please quote identification number in all future correspondence.

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This has reference to your online proposal no. IA/AS/IND2/248260/2016, dated 02nd February, 2022 for environmental clearance to the above-mentioned project.

2. The Ministry of Environment, Forest and Climate Change has examined the proposal seeking environmental clearance for Onshore Oil & Gas development drilling and production in Tinsukia and Dibrugarh Districts under Hugrijan, Naharkatia & Naharkatia Extn, Sapkaint and few parts of Dumduma (Block A&B), Borhat and Moran Extension PMLs located at Villages Borjan, Chapatali No.4, Gelipung, Borpathar, Chapatoli Na Gaon, Balimora Cha Bagicha, Galaibangali, Chariali, Naga Gaon, Usha Gao, Uttar Somdar, Borhat Bagicha under Dibrugarh, Charaideo and Tinsukia districts State Assam by M/s. Oil India Ltd.

3. All Offshore and onshore oil and gas exploration, development & production proposals are listed at S.N. 1(b) of Schedule of Environment Impact Assessment (EIA) Notification under category 'A' and are appraised at Central Level by Expert Appraisal Committee (EAC).

4. The Jorajan Block is located in Tinsukia, Dibrugarh and Charaideo districts of Assam. Total area of Jorajan Block is 927 sq. km. The activity area of OIL India within the Block included within the PMLs- Hugrijan, Naharkatia and Naharkatia Extension, Sapkaint, Dumduma (Block A&B), Borhat and Moran Extn PMLs are located within the districts Tinsukia, Charaideo and Dibrugarh. The details of existing and proposed wells to be drilled are as under:

S No	Unit	Product/by product	Existing Drilling	Proposed Drilling	Total Drilling
1	Wells	Wells	7	67	74

Coordinates of Blocks are as given below:

S No.	Proposed Well Name	Latitude	Longitude
1.	524	27° 19' 32.768" N	95° 27' 10.843" E
2.	525	27° 20' 35.703" N	95° 26' 58.988" E
3.	526	27° 20' 53.555" N	95° 26' 41.265" E
4.	527	27° 20' 40.745" N	95° 25' 16.152" E
5.	Loc. DHD (Rev)	27° 20' 49.277" N	95° 27' 56.400" E
6.	Loc. A	27° 20' 41.542" N	95° 27' 51.099" E
7.	Loc. B	27° 20' 53.383" N	95° 27' 44.632" E
8.	531	27° 21' 32.634" N	95° 27' 23.744" E

S No.	Proposed Well Name	Latitude	Longitude
9.	Loc. C	27° 20' 42.380" N	95° 27' 47.808" E
10.	534	27° 17' 14.005" N	95° 26' 5.254" E
11.	536	27° 18' 57.203" N	95° 25' 58.088" E
12.	A2_R	27° 14' 3.059" N	95° 21' 9.014" E
13.	A3	27° 14' 51.199" N	95° 22' 1.276" E
14.	539	27° 19' 52.790" N	95° 26' 12.651" E
15.	D2_R	27° 12' 39.684" N	95° 20' 50.584" E
16.	D1	27° 12' 26.981" N	95° 20' 50.681" E
17.	542	27° 16' 14.657" N	95° 23' 19.460" E
18.	543	27° 18' 4.445" N	95° 18' 22.277" E
19.	D3	27° 12' 57.101" N	95° 21' 1.959" E
20.	544	27° 18' 2.939" N	95° 16' 35.987" E
21.	547	27° 19' 22.127" N	95° 27' 4.498" E
22.	549	27° 18' 37.194" N	95° 26' 39.000" E
23.	546	27° 19' 41.172" N	95° 26' 50.987" E
24.	551	27° 19' 25.185" N	95° 26' 34.560" E
25.	552	27° 19' 59.120" N	95° 26' 44.471" E
26.	553	27° 20' 40.876" N	95° 26' 4.682" E
27.	554	27° 20' 10.849" N	95° 25' 29.869" E
28.	D4_R	27° 13' 29.074" N	95° 20' 51.874" E
29.	557	27° 19' 47.372" N	95° 24' 38.691" E
30.	D5_R	27° 13' 29.074" N	95° 20' 51.874" E
31.	558	27° 21' 28.610" N	95° 24' 43.394" E
32.	559	27° 21' 50.061" N	95° 24' 27.705" E
33.	560	27° 21' 33.135" N	95° 27' 43.292" E
34.	561	27° 21' 16.977" N	95° 27' 44.026" E

S No.	Proposed Well Name	Latitude	Longitude
35.	562	27° 21' 1.077" N	95° 27' 46.730" E
36.	563	27° 20' 59.699" N	95° 27' 25.382" E
37.	564	27° 21' 10.577" N	95° 27' 16.418" E
38.	565	27° 20' 24.992" N	95° 26' 30.670" E
39.	566	27° 19' 36.807" N	95° 26' 3.354" E
40.	567	27° 19' 59.796" N	95° 25' 5.986" E
41.	569	27° 21' 43.583" N	95° 22' 0.392" E
42.	568	27° 21' 11.197" N	95° 22' 28.990" E
43.	570	27° 20' 31.380" N	95° 25' 39.192" E
44.	571	27° 21' 9.161" N	95° 27' 30.429" E
45.	572	27° 21' 25.697" N	95° 27' 32.177" E
46.	573	27° 20' 46.336" N	95° 22' 56.217" E
47.	109	27° 20' 24.463" N	95° 15' 5.096" E
48.	115	27° 22' 25.481" N	95° 12' 3.557" E
49.	D6	27° 14' 9.667" N	95° 22' 50.078" E
50.	307	27° 20' 24.048" N	95° 14' 40.422" E
51.	T-100	27° 18' 52.202" N	95° 17' 56.533" E
52.	D7	27° 21' 32.921" N	95° 18' 3.782" E
53.	501	27° 21' 4.058" N	95° 24' 1.571" E
54.	HYQ	27° 14' 42.948" N	95° 23' 19.644" E
55.	DGR	27° 21' 55.944" N	95° 26' 51.259" E
56.	DGT	27° 15' 43.796" N	95° 23' 15.602" E
57.	DHD	27° 21' 56.040" N	95° 26' 51.370" E
58.	NLK	27° 17' 50.685" N	95° 23' 5.989" E
59.	507-D	27° 21' 12.361" N	95° 26' 11.701" E
60.	T-101	27° 19' 50.731" N	95° 14' 21.309" E

S No.	Proposed Well Name	Latitude	Longitude
61.	Loc. B (KB2)	27° 21' 42.356" N	95° 27' 37.966" E
62.	305	27° 21' 21.575" N	95° 11' 43.118" E
63.	548	27° 18' 46.496" N	95° 27' 0.551" E
64.	K	27° 21' 23.308" N	95° 17' 43.899" E
65.	BH	27° 8' 44.037" N	95° 16' 12.812" E
66.	A	27° 10' 55.376" N	95° 20' 17.080" E
67.	523	27° 21' 27.271" N	95° 27' 46.240" E

5. Ministry has issued Environmental Clearance to the existing capacity of 7 wells vide J-11011/1252/2007-IA-II(I); dated 1st November 2011. Certified Compliance report of existing EC has been obtained from Integrated Regional Office, MoEFCC, Guwahati RO-NE/E/IA/AS/MI/59/1270-1272 on 06.10.2021. Action Taken Report has been submitted to IRO, MOEFCC, by Oil India dated 27.10.2022 for partial compliances. Certified Action Taken Report provided by IRO, MOEFCC, No. RO-NE/E/IA/AS/MI/59/1744-46 dated 27.12.2021. EAC found the information satisfactory.

6. The ToR has been issued by Ministry vide F. no. J-11011/388/2016-IA.II (I) dated 29 April 2017. PP was informed that there is no litigation pending against the proposal.

7. Public Hearing meetings for the proposed project had been conducted by the Pollution Control Board of Assam on 26th August 2022 for Dibrugarh; on 13th March 2020 for Tinsukia District and on 11th December 2020 for Sibsagar (Charaideo) District. All the three Public Hearings were chaired by Additional Deputy Commissioners of respective three districts. The issues were raised regarding baseline monitoring period, oil spillage, pollution prevention practise, dust pollution from vehicle movement, safety of the existing gas gathering centre, development in local area, problems created by the drilling activities/accidents etc and issues wise action plan was deliberated during EAC meetings held on 09th - 10th March, 2023 and 03rd - 04th May, 2023 respectively. The Committee noted that issues have satisfactorily been responded by the project proponent and incorporated in the final EIA-EMP report.

8. Total area after expansion will be 222 Ha (existing area 21 Hectares and additional land required 201 Hectares for proposed capacity). Oil India Ltd. will develop greenbelt at the proposed production installations having total area of 15 ha. EMP Budget includes budget for Public Hearing Action Plan/CER Plan, Wildlife Conservation Plan, Greenbelt Budget and Budget for Environmental Conservation

Measures. Budget for CER Plan for socioeconomic development is planned to be INR 6.847 crores for 2 years for Dibrugarh district, INR 1.2 crores for 2 years for Tinsukia district and INR 2.04 crores for 2 years for Charaideo district. Budget for Greenbelt Plan will be INR 15 lakhs. Budget for Wildlife Conservation Plan for Schedule-I species for 7 year will be INR 58 lakhs. Detail of cost breakup of implementation of Environmental Conservation measures for each well would be INR 11.3 lakhs. Capital cost of EMP would be INR 740.7 lakhs. Recurring cost for EMP would be approximately INR 134 lakhs per annum (for 2 years) for CER and INR 120.25 lakhs per annum (for 7 years) for Wildlife Conservation Plan, Greenbelt Plan and Environmental Control measures for drilling. Capital cost of environmental control measures are included within the budget for drilling.

9. Dihing Patkai national Park is located within the Block and is located at a distance of 1.4km from nearest proposed wells. ESZs of DPNP and Bherjan-Borajan-Padumoni Wildlife Sanctuary (BBPWLS) is located within 10 km of proposed project. Bherjan Borjan Podumoni WLS is located at a distance of 5km from the nearest proposed well. Conservation plan for schedule-I species has been submitted to PCCF & Chief Wildlife Warden Assam dated 25.08.2021 and a budget of 58 lakhs has been earmarked for the same. Buri Dehing River is present within the Block, nearest well is located at a distance of 0.4 km from Burhi Dehing River. However, the Committee suggested that no drilling activities shall be carried out within 500 m from the water bodies. PP informed that no drilling will be carried out in forest land and protected area.

10. Ambient air quality monitoring was carried out at 8 locations and the baseline data indicates the ranges of average concentrations as: PM₁₀ (63.42 – 85.38 µg/m³), PM_{2.5} (34.17 – 45.46 µg/m³), SO₂ (5.66 – 6.38 µg/m³) and NO₂ (17.40 – 21.73 µg/m³). AAQ modeling study for point source emissions indicates that the maximum incremental GLCs after the proposed project would be 11.85 µg/m³, 0.0046 µg/m³, 0.095 µg/m³ and 0.32 µg/m³ with respect to NO_x, SO₂, PM₁₀ and HC. The resultant concentrations are within the National Ambient Air Quality Standards (NAAQS). Additional ambient air quality monitoring data conducted during February-March 2022 indicates the average values ranged between PM₁₀ (58.73-86.98 µg/m³), PM_{2.5} (30.11-48.57 µg/m³), SO₂ (6.19-13.75 µg/m³) and NO₂ (17.52-23.06 µg/m³).

11. Fresh water consumption during drilling and testing of wells will be 25 m³ per day. Fresh water for drilling will be sourced from groundwater. OIL obtained permission from CGWA for groundwater withdrawal vide NOC no. CGWA/NOC/MIN/ORIG/2021/11476 dated 26.03.2021. Existing effluent generation is 21.8 m³ per day (8 m³ per day domestic wastewater and 13.8 m³ per day drilling and wash wastewater). Wastewater generated from drilling process will be treated through effluent treatment plant. Domestic wastewater will be treated in sewage treatment plant. The project will be based on Zero Liquid discharge system.

12. Power requirement of the drill sites will be met through two Diesel Generator Sets of 1250 kVA each. Another 1250 kVA DG set will be kept as standby. Stack height of 7 m above roof top will be provided as per CPCB norms to the proposed

DG sets.

13. Details of Process emissions generation and its management:

- Operation of DG sets,
- Movement of vehicles and machineries during construction and drilling,
- Flaring of natural gas will result in the generation of air pollutants,
- Adequate stacks will be provided with DG sets and flare system as per CPCB norms.

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

- Drill cuttings and spent drilling mud will be disposed to HDPE lined pit within the drill site.
- The kitchen waste will be disposed in nearest municipal/village dumping site on a daily basis through approved waste handling contractors.
- Recyclable wastes will be periodically sold to local waste recyclers.
- Hazardous waste (waste and used oil) will be managed in accordance with Hazardous Waste (Management, Handling & Transboundary Movement) Rules, 2016.

15. The proposal was considered in 50th EAC meeting held on 10th – 11th February, 2022 and in EAC Meeting ID: IA/IND2/13456/09/03/2023 held on 09th – 10th March, 2023 and in Meeting ID: IA/IND2/13493/03/05/2023 held on 03rd – 04th May, 2023 in the Ministry, wherein the project proponent and their accredited Consultant M/s. ERM India Pvt. Ltd. (NABET certificate no. NABET/EIA/1922/RA 0177_Rev 01 and validity 20.06.2024) made a detailed presentation on the salient features of the project. The Committee **recommended** the project for grant of environmental clearance.

16. 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 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.

17. 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.

18. 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.

19. 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 Onshore Oil & Gas development drilling and production in Tinsukia and Dibrugarh Districts under Hugrijan, Naharkatia & Naharkatia Extn, Sapkaint and few parts of Dumduma (Block A&B), Borhat and Moran Extension PMLs located at Villages Borjan, Chapatali No.4, Gelipung, Borpathar, Chapatoli Na Gaon, Balimora Cha Bagicha, Galaibangali, Chariali, Naga Gaon, Usha Gao, Uttar Somdar, Borhat Bagicha under Dibrugarh, Charaideo and Tinsukia districts State Assam by M/s. Oil India Ltd, under the provisions of the EIA Notification, 2006, and the amendments therein, subject to compliance of the terms and conditions as under:-

A. Specific Condition:

- (i). 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-I).
- (ii). 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 as per the Ministry's OM dated 8th August, 2019 and 16th July, 2020. Grant of environmental clearance does not necessarily imply that Wildlife Clearance shall be granted to the project and that their proposal for Wildlife Clearance will be considered by the respective authorities on its merit and decision taken. PP shall also strictly follow the conditions mentioned in existing NBWL clearance.

- (iii). The project proponent shall prepare a Site-Specific Conservation Plan / Wildlife Management Plan and approved by the Chief Wildlife Warden. The recommendations of the approved Site-Specific Conservation Plan / Wildlife Management Plan shall be implemented in consultation with the State Forest Department. The implementation report shall be furnished along with the six-monthly compliance report. (in case of the presence of schedule-I species in the study area).
- (iv). As proposed, no pipelines or its part shall be laid and drilling of exploratory/production/development wells to be carried out in the Forest land/Protected Area without prior permission/approval from the Competent Authority.
- (v). PP shall conduct third party audit of compliance of EC condition at an interval one year and its report shall be submitted to IRO, MoEF&CC.
- (vi). No drilling activities shall be carried out within 500 m from the water bodies.
- (vii). Implementation of Action Plan on the issues raised during the Public Hearing shall be ensured. The Project Proponent shall undertake all the tasks as per the Action Plan submitted with budgetary provisions during the Public Hearing.
- (viii). Total fresh water requirement shall not exceed 25 CMD which will be met from tanker supply. Prior permission shall be obtained from the concerned regulatory authority.
- (ix). The project proponent will treat and reuse the treated water within the drilling site 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 drilling system. Mobile STP shall be installed to treat the domestic sewage. Size of the waste pit shall be equal to the hole volume and volume of drill cutting and volume of discarded mud if any. Two feet free board may be left to accommodate rain water. There shall be separate storm water channel and rain water shall not be allowed to mix with waste water. Alternatively, if possible pit less drilling be practiced instead of above.
- (x). Produce water from the EPS shall be treated in the efficient ETP/ Central ETP of capacity 5000 KLD at Tengakhat/ETP of capacity 7200 KLD at Madhuban and treated effluent shall be disposed off in disposal wells located in the vicinity of the production installation after achieving the water quality standards prescribed by SPSCB/CPCB. Online effluent monitoring system shall be installed and records shall be maintained.

- (xi). During production, storage and handling, the fugitive emission of methane, if any, shall be monitored using Infra-red camera/ appropriate technology.
- (xii). The project proponent also to ensure trapping/storing of the CO₂ generated, if any, during the process and handling.
- (xiii). Approach road to drilling sites shall be made pucca to minimize generation of suspended dust.
- (xiv). 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.
- (xv). 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.
- (xvi). 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.
- (xvii). 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.
- (xviii). 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.
- (xix). 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.

- (xx). Blow Out Preventer system shall be installed to prevent well blowouts during drilling operations.
- (xxi). 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. After completion of drilling of any well, the owner or operator shall restore the well site, remove or fill all pits used to contain produced fluids or industrial waste and remove all drilling supplies and equipment not needed for production.
- (xxii). As per the action plan submitted by the project proponent all activities proposed in extended EMP (CER) for corpus of Rs. 10.087 crores shall be completed within 2 years (Annexure-II).
- (xxiii). 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.
- (xxiv). Oil content in the drill cuttings shall be monitored, if oil-mud is used then its report shall be sent to the Ministry's Regional Office/SPCB.
- (xxv). PP should establish in house (at project site) environment laboratory for measurement of environment parameter with respect to air quality and water (surface and ground). A dedicated team to oversee environment management shall be setup at site which should comprise of Environment Engineers, Laboratory chemist and staff for monitoring of air, water quality parameters on routine basis instead of engaging environment monitoring laboratories/consultants. Any non-compliance or infringement should be reported to the concerned authority.
- (xxvi). 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.
- (xxvii). 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 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.

B. General Condition:

- (i) 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.
- (ii) The energy source for lighting purpose shall be preferably LED based, or advanced having preference in energy conservation and environment betterment.
- (iii) The overall noise levels in and around the plant area shall be kept well within the standards by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise levels shall conform to the standards prescribed under the Environment (Protection) Act, 1986 Rules, 1989 viz. 75 dBA (day time) and 70 dBA (night time).
- (iv) 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.
- (v) 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.
- (vi) 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.
- (vii) 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.

- (viii) 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 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.
- (ix) 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.
- (x) 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.
- (xi) 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.

20. 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.

21. 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 Environment (Protection) Act, 1986.

22. 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.

23. 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.

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

(A. N. Singh)
Scientist-'E'

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, Integrated 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. Monitoring Cell, Ministry of Environment, Forest and Climate Change, Indira Paryavaran Bhawan, Jor Bagh Road, New Delhi – 3
6. District Collector, Dibrugarh, Assam.
7. District Collector, Tinsukia, Assam.
8. District Collector, Charaideo, Assam.
9. Guard File/Monitoring File/ Parivesh Portal /Record File.

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ANNEXURE-I

Details of capital and recurring cost of EMP:

S. No.	Description	Capital Cost in crores	Recurring Cost in Crores /Annum for Wildlife Conservation Plan, Greenbelt Plan and Environmental control measures for Well drilling (for 7 years)	Recurring Cost in Crores /Annum for CER (for 2 years)
1.	Wildlife	-	0.0829	-

S. No.	Description	Capital Cost in crores	Recurring Cost in Crores /Annum for Wildlife Conservation Plan, Greenbelt Plan and Environmental control measures for Well drilling (for 7 years)	Recurring Cost in Crores /Annum for CER (for 2 years)
	Conservation Plan			
2.	Greenbelt Plan	-	0.0214	-
3.	Environmental control measures for Well drilling	-	1.0982	-
4.	CER Cost	7.407	-	1.34
	Grant Total	7.407	1.2025	1.34

Details of cost breakup of Environmental Control measures for drilling presented below:

Sl. No.	Particulars of Work	Budget for 1 well (in lakh Rs.)	Cumulative Budget for 67 wells (in lakh Rs.)
1	Air Quality Management Plan		
	Dust suppression through water sprinkling in the internal unpaved roads Cost of water sprinkling - One truck hiring charge (Rs. 1,00,000 per month X 9 months=Rs. 9,00,000); - Diesel charge (50 km travel per day @ Rs. 45/km X 270 days = Rs. 6,07,500); - Total cost for one year Rs.15,07,500 Total cost for 7 years= Rs. 105,52,500 Maintenance of paved internal road and transport	1.58**	105.53

Sl. No.	Particulars of Work	Budget for 1 well (in lakh Rs.)	Cumulative Budget for 67 wells (in lakh Rs.)
	route (budgetary provision is included in operational cost of drilling)		
b.	Maintenance of paved internal road and transport route (budgetary provision is included in operational cost of drilling)	0	0
c.	Ambient Air Quality Monitoring -3 monitoring locations x 2 weeks per location x Once during site development, twice during drilling and once during decommissioning (@ Rs.7500 x 24 samples)	1.8	120.6
d.	Stack emission monitoring (@ Rs. 5000 per sample x 3 DG sets x twice during drilling)	0.3	20.1
2	Noise Management Plan		
a.	Ambient Noise Monitoring – 3 locations, once during site development, twice during drilling and once during decommissioning (@Rs. 2500 X 12 samples)	0.3	20.1
b.	Workplace noise monitoring -5 locations per well, twice during drilling (@Rs.2500 per location x 5 locations x 2 times)	0.25	16.75
c.	All DG sets would be provided with acoustic enclosures (All DG sets will be procured with in-built acoustic enclosures budget included in drilling budget)	0	0
d.	Erection of noise barrier at drill sites (Budget for erection of noise barrier included in drilling budget)	0	0
3	Water Quality Management Plan		
a.	Construction and maintenance of double chambered sedimentation tank and oily-water separator ETP (Budget included in drilling budget)	0	0
b.	Surface Water Quality Monitoring (@ Rs. 8000 x 4 samples from natural drainages once during site construction, once during drilling, once after decommissioning)	0.96	64.32
c..	Ground Water Quality Monitoring (@ Rs. 8000 x 3 sites, once during site construction, once during drilling, once after decommissioning)	0.72	48.24

Sl. No.	Particulars of Work	Budget for 1 well (in lakh Rs.)	Cumulative Budget for 67 wells (in lakh Rs.)
d.	ETP Treated water quality (@ Rs. 8000 x 2 samples of ETP treated water per month for 4 months)	0.64	42.88
e..	Sample from Oily water separator	0.05	3.35
	(@Rs. 5000 per sample X 1 sample after drilling)		
4	Soil Quality Management Plan		
a.	Soil quality monitoring(@ Rs. 8000 x 2 samples x once before site preparation; once after decommissioning/restoration)	0.32	21.44
b.	Procurement of spill kits at drill sites	0.6	40.2
	(Rs 20,000 per kit X 3 spill kits per site)		
5	Road Safety & Traffic Management		
a.	Signage in the transport route & its maintenance (@Rs. 100,000 + Rs. 10,000)	1.1	73.7
b.	Deployment of traffic personnel in sensitive area – 5 persons (@ Rs. 6000 per month x 6 months)	1.8	120.6
6	Surface Runoff & Soil Erosion Control		
a.	Two chamber sedimentation tank at each drill site (Budgetary provision is already included in the infrastructure development cost)	0	0
7	Municipal Solid Waste		
a.	Provision of two chambered covered collection bins at well site – 2 nos	0.2	13.4
b.	Transport arrangement of waste from well sites to dumping area	0.25	16.75
8	Hazardous waste management		
a.	Construction of dedicated hazardous storage area and record maintenance (construction included under project cost; only maintenance included in this budget)	0.1	6.7
b.	Drill Cutting, waste mud and wash water pits; HDPE lined (budgetary provision in operation cost of drilling)	0	0
c.	Analysis of drill cutting and waste drilling mud	0.3	20.1

Sl. No.	Particulars of Work	Budget for 1 well (in lakh Rs.)	Cumulative Budget for 67 wells (in lakh Rs.)
	(Drill cutting @Rs. 5000 per sample x 1 sample per month x 3 months drilling time;		
	Waste drilling mud @Rs. 5000 per sample x 1 sample per month x 3 months drilling time)		
9	Surface and Ground Water Protection and Management		
a.	Surface runoff control measures for chemical storage area, fuel storage area (budgetary provision is already taken care in earlier section)	0	0
b.	Paved /impervious storage area for chemical storage area, fuel & lubricant storage area (Budgetary provision is already included in the infrastructure development cost)	0	0
c.	Domestic waste water treatment facility through septic tank & soak pits at the drill sites (budgetary provision in operation cost of drilling)	0	0
10	Occupational Health & Safety Management		
a.	Provision of appropriate PPE to all workers and its maintenance (budgetary provision is included in operational cost of drilling)	0	0
b.	Provision of drinking water, sanitation facility for all workers (budgetary provision is included in operational cost of drilling)	0	0
c	Provision First aid facility (budgetary provision is included in operational cost of drilling)	0	0
d	Provision of Ambulance facility OIL has its own ambulance facility)	0	0
e	Regular health checkup facility provided by OIL for workers)	0	0
f	Regular occupational health & safety training (@ 1 lakh per year for 7 years)	0.015**	7
g.	Safety related training for OIL drivers (@ 1 lakh per year for 7 years)	0.015**	7
	Total Cost of Implementation of EMP	11.3	768.76

Note- Capital cost of environmental control measures are included within the budget for drilling

ANNEXURE-II

Details of Extended EMP (CER) activities:

Dibrugarh District

S No.	Proposed Activity	Proposed Budget
1.	Mobile health services	Rs. 0.5 crores per year for 2 years = Total Rs. 1 crore
2.	Drinking water facilities	Rs. 0.005 crore per hand pump x 100 pumps= Total Rs. 0.5 crore
3.	Infrastructure improvement work across schools	50 schools Rs. 0.02 crore per school x 80 schools = Total Rs. 1.6 crore
4.	Training support for skill development among women	Rs. 0.01 crore per training program x 10 training programs in 2 years = Total Rs. 0.1 crores
5.	Industrial training for students	Rs. 0.005 crore per student x 100 selected students = Rs. 0.5 crore
6.	Barricading the abandoned well sites	Rs. 0.001 crores per well x 7 wells= Total Rs. 0.007 crores
7.	Provision for street light at major traffic intersections	Rs. 1 crore
8.	Plantation at abandoned drill sites	Rs. 0.02 crore per site x 7 sites= Total Rs. 0.14 crore
9.	Repair of roads in the area	Rs. 1 crore per year for 2 years= 2 crores
	Grant Total	Rs. 6.847 crores

Tinsukia District

S No.	Proposed Activity	Proposed Budget
1	Mobile health services	Rs. 0.20 crores
2	Infrastructure improvement work in 10 schools including improvement of latrines	Rs. 0.02 crore per school x 10 schools= Total Rs. 0.2 crore
3	Plantation at nearby forest area	Rs. 0.05 crore per year for 2 years= Total Rs. 0.10 crore
4	Repair of local roads	Rs. 0.3 crore
5	Provision for Street light in the area	Rs. 0.2 crore
6	Providing fund to locals villagers for construction of household latrines	Rs. 0.01 crore per unit X 20 units= Rs. 0.2 crore
	Grant Total	Rs. 1.2 crores

Charaideo district

S No.	Proposed Activity	Proposed Budget
1	Mobile health services	Rs. 0.30 crores
2	Infrastructure improvement work in 10 schools	Rs. 0.02 crore per school x 20 schools= Total Rs. 0.4 crore
3	Drinking water facilities	Rs. 0.50 crores
4	Protection Eri Muga production done by local people	Rs. 0.20 crores
5	Plantation at abandoned drill sites	Rs. 0.02 crore per site x 7 sites= Total Rs. 0.14 crore
6	Repair of local roads	Rs. 0.50 crore
	Grant Total	Rs. 2.04 crores

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