

**ENVIRONMENTAL
CLEARANCE****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/IND2/226998/2017 dated 08 Jan 2022. The particulars of the environmental clearance granted to the project are as below.

- | | |
|---|--|
| 1. EC Identification No. | EC22A002AS110311 |
| 2. File No. | J-11011/156/2017 - 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 and production (16 exploratory and 73 developmental drilling wells) in Dibrugarh, Sibsagar and Charaideo Districts under Moran, Moran Extension, Dholiya and some |
| 7. Name of Company/Organization | OIL INDIA LIMITED |
| 8. Location of Project | Assam |
| 9. TOR Date | 31 May 2017 |

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

Date: 28/11/2022

(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.

This is a computer generated cover page.

PARIVESH

*(Pro-Active and Responsive Facilitation by Interactive,
and Virtuous Environment Single-Window Hub)*



This has reference to your online proposal no. IA/AS/IND2/226998/2017 dated 08th January, 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 Onshore Oil & Gas development drilling and production (16 exploratory and 73 developmental drilling wells) in Dibrugarh, Sibsagar and Charaideo Districts under Moran, Moran Extension, Dholiya and some portion of Dumduma (Block A) PMLs located at Villages Bezapather No.2, Rangrangia Gaon, Pukhuri No.2, Naharani, Demowk Bongali, Baghtoli Sonowal, Ophulia, Dighalia No.2, Demow Grant, DehajanHabi, Laok, Teok Gaon, Naphuk Gaon, KhomonPathar, Kakati Bari Pathar, KGaon, Garkush, No.3 SingarijanKhumtai Gaon, Khelmati etc. Tehsil Moran, Tinkhong (Dibrugarh district), Dimow (Sibsagar district), Sonari and Mahmora (Charaideo district, Old Sibsagar District), Districts Dibrugarh, Sibsagar and Charaideo, 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 details of products and capacity as under:

S No	Unit	Product/by product	Existing quantity	Proposed Quantity	Total Quantity
1	Wells	Wells	8	89	97
2	Production Installations	Production Installations	0	9	9

Coordinates of Proposed wells and production installations

S No.	Well Name	Latitude	Longitude
1.	507	27° 1' 12.030" N	94° 58' 24.560" E
2.	511	27° 2' 57.210" N	95° 1' 41.460" E
3.	508	27° 4' 35.490" N	94° 55' 59.290" E
4.	506	27° 5' 38.250" N	94° 57' 54.500" E
5.	261	27° 7' 8.140" N	95° 0' 47.350" E
6.	264	27° 6' 47.590" N	95° 1' 40.850" E
7.	268	27° 6' 42.620" N	95° 1' 56.950" E
8.	MGO	27° 8' 2.930" N	94° 46' 34.600" E
9.	T2	27° 9' 51.047" N	94° 53' 47.328" E
10.	269	27° 8' 19.120" N	95° 1' 55.060" E

S No.	Well Name	Latitude	Longitude
11.	504	27° 6' 0.630" N	94° 48' 59.100" E
12.	258	27° 6' 46.640" N	94° 50' 8.460" E
13.	302	27° 7' 55.600" N	94° 46' 20.720" E
14.	301	27° 8' 25.300" N	94° 45' 55.980" E
15.	MFK	27° 8' 23.900" N	94° 46' 27.330" E
16.	300	27° 8' 22.900" N	94° 46' 55.060" E
17.	299	27° 8' 57.920" N	94° 46' 30.080" E
18.	503	27° 8' 2.160" N	94° 48' 57.480" E
19.	257	27° 8' 0.710" N	94° 49' 35.960" E
20.	259	27° 7' 10.940" N	94° 54' 49.770" E
21.	MEU	27° 8' 9.550" N	94° 53' 35.060" E
22.	505	27° 7' 32.700" N	94° 54' 4.240" E
23.	MEW	27° 8' 25.510" N	94° 52' 37.090" E
24.	MEV	27° 8' 10.540" N	94° 56' 1.960" E
25.	271	27° 8' 52.750" N	94° 55' 23.340" E
26.	272	27° 8' 48.090" N	94° 53' 59.450" E
27.	256	27° 9' 15.860" N	94° 53' 12.490" E
28.	255	27° 9' 3.320" N	94° 53' 51.720" E
29.	296	27° 9' 11.820" N	94° 54' 17.190" E
30.	MFA	27° 9' 20.000" N	94° 54' 40.440" E
31.	293	27° 9' 6.610" N	94° 55' 0.910" E
32.	254	27° 9' 11.370" N	94° 55' 26.220" E
33.	253	27° 9' 24.410" N	94° 54' 32.360" E
34.	295	27° 9' 28.360" N	94° 54' 26.250" E
35.	292	27° 9' 34.460" N	94° 54' 11.860" E
36.	276	27° 9' 33.080" N	94° 53' 57.150" E
37.	277	27° 9' 33.640" N	94° 53' 40.440" E
38.	273	27° 9' 42.780" N	94° 53' 47.100" E
39.	291	27° 9' 53.710" N	94° 53' 55.930" E
40.	274	27° 9' 50.790" N	94° 54' 27.190" E
41.	275	27° 10' 11.840" N	94° 54' 13.430" E
42.	251	27° 10' 17.020" N	94° 54' 26.200" E
43.	252	27° 10' 0.530" N	94° 55' 11.550" E
44.	270	27° 10' 1.270" N	94° 55' 45.060" E
45.	MEQ	27° 9' 54.610" N	94° 56' 19.730" E
46.	A	27° 7' 19.656" N	94° 49' 38.389" E
47.	B	27° 6' 57.724" N	94° 46' 9.240" E
48.	MGV	27° 6' 12.439" N	94° 45' 59.062" E
49.	A	27° 7' 16.921" N	94° 45' 59.475" E
50.	510	27° 12' 11.920" N	94° 58' 6.270" E

S No.	Well Name	Latitude	Longitude
51.	401	27° 12' 28.690" N	95° 0' 37.580" E
52.	402	27° 13' 26.110" N	95° 0' 58.470" E
53.	298	27° 11' 1.920" N	94° 48' 29.610" E
54.	280	27° 11' 2.070" N	94° 48' 44.860" E
55.	MFJ	27° 11' 14.670" N	94° 48' 39.900" E
56.	297	27° 11' 29.950" N	94° 48' 47.070" E
57.	281	27° 11' 25.120" N	94° 48' 26.970" E
58.	282	27° 11' 50.800" N	94° 48' 42.680" E
59.	A1	27° 7' 15.500" N	94° 49' 16.392" E
60.	105	27° 12' 6.570" N	94° 50' 51.790" E
61.	244	27° 11' 53.310" N	94° 51' 17.810" E
62.	MGQ	27° 7' 48.691" N	94° 46' 28.236" E
63.	MGL	27° 5' 56.266" N	94° 45' 22.066" E
64.	MGR	27° 7' 30.575" N	94° 46' 24.299" E
65.	MGN	27° 7' 13.267" N	94° 46' 16.677" E
66.	285	27° 12' 3.040" N	94° 52' 54.370" E
67.	289	27° 11' 56.940" N	94° 53' 8.760" E
68.	MGT	27° 7' 50.598" N	94° 45' 48.655" E
69.	MGU	27° 6' 42.376" N	94° 46' 3.381" E
70.	288	27° 12' 13.620" N	94° 53' 13.650" E
71.	290	27° 12' 19.930" N	94° 52' 52.980" E
72.	MFL	27° 12' 25.550" N	94° 52' 52.810" E
73.	284	27° 12' 48.920" N	94° 53' 21.410" E
74.	DYC	27° 13' 9.510" N	94° 53' 33.300" E
75.	MGP	27° 8' 10.721" N	94° 46' 1.487" E
76.	MGM	27° 7' 26.031" N	94° 45' 49.179" E
77.	278	27° 12' 53.240" N	94° 51' 11.790" E
78.	MFO	27° 13' 11.530" N	94° 51' 4.600" E
79.	MGK	27° 6' 20.597" N	94° 45' 27.783" E
80.	DEC	27° 16' 21.090" N	94° 56' 50.730" E
81.	T1	27° 9' 31.970" N	94° 54' 58.178" E
82.	MGS	27° 7' 39.634" N	94° 46' 6.585" E
83.	B	27° 7' 7.710" N	94° 49' 55.450" E
84.	MFM	27° 13' 53.090" N	94° 51' 29.230" E
85.	MFU	27° 1' 0.400" N	95° 1' 38.570" E
86.	MET	27° 1' 5.600" N	95° 1' 57.660" E
87.	512	27° 6' 33.147" N	94° 45' 40.216" E
88.	513	27° 6' 44.514" N	94° 45' 35.456" E
89.	514	27° 6' 4.332" N	94° 45' 29.308" E

Production Installations

At the production installation the well fluid would be processed where oil, associated gas and water would be separated. Planned oil storage and handling capacity at each production installation based on anticipated production from proposed drilling wells in vicinity of respective production installations. The formation water generated in production installation would be treated in an ETP and would be reused in the system or injected in water injection/water disposal wells. Flare system shall be installed as per the recommended practices of OISD and CPCB guidelines.

S No.	Production Installation Name	Latitude	Longitude
1.	Kardoiguri (OCS)	27° 13' 12.690" N	94° 51' 37.470" E
2.	Borbhuibil (QPS/FGGS)	27° 11' 19.460" N	94° 48' 39.760" E
3.	Lakwagaon (QPS/FGGS)	27° 7' 23.500" N	94° 46' 8.110" E
4.	Kardoiguri(QPS/FGGS)	27° 13' 12.680" N	94° 51' 32.660" E
5.	Tiloinagar (QPS/FGGS)	27° 13' 1.330" N	94° 53' 30.640" E
6.	MFC/116 (QPS/FGGS)	27° 13' 24.480" N	94° 51' 22.620" E
7.	MFP/DKP-2 (QPS/FGGS)	27° 12' 24.700" N	94° 52' 54.200" E
8.	507 (QPS/FGGS)	27° 1' 10.360" N	94° 58' 30.980" E
9.	Tiloinagar West (GCS)	27° 13' 6.530" N	94° 52' 47.900" E

5. The Moran Block is located in Dibrugarh, Sibsagar and Charaideo Districts of Assam. Total area of the Block is extended over 902 sq. km.

6. Ministry has issued Environmental Clearance to the existing capacity of 8 wells vide J-11011/1259/2007-IA-II(I); dated 1st November 2011. Certified Compliance report of existing EC has been obtained from Integrated Regional Office, MoEFCC, Guwahati vide RO-NE/E/IA/AS/MI/54/1273-1275 dated 6th October 2021. Action Taken Report has been submitted to IRO, MOEFCC dated 27.10.2022 for partial compliances and Certified Action Taken Report has been obtained by IRO, MOEFCC, No. RO-NE/E/IA/AS/MI/54/1548-1550 dated 25th November 2021. EAC was satisfied with the response provided by PP.

7. The project proposal was considered by the Expert Appraisal Committee (Industry-2) in its 22nd meeting held during 17th-18th April 2017 and recommended Terms of References (ToRs) for the Project. The ToR has been issued by Ministry vide F. no. J-11011/156/2017-IA.II (I) dated 31st May 2017. It was informed that no litigation Pending against the proposal.

8. Public Hearing for the proposed project had been conducted by the Pollution Control Board of Assam on 24th August, 2022 at Zilla Parishad Bhawan Rajgarh Dibrugarh district, 8th December 2020 at Jyoti Bishnu Cultural Centre Demow for Sibsagar district and 11th December 2020 at Sapekhati Tai Cultural Centre, Sapekhatifor Charaideo district. All the three Public Hearings were chaired by Additional Deputy Commissioners of respective three districts. The main issues raised during the public hearing and their action plan:

Public hearing dated 24.08.2022 for Dibrugarh District

Regarding developmental project for the uplifting of the social-economic condition of locals, Development of neighbouring school, colleges, drinking water facilities, bus sheds, plantation of evacuated drilling sites etc., PP informed that budget allocated for CER plan INR 1.70 crores for 7 years (2022-23 to 2028-29).

Regarding proper barricading of the drill sites to be undertaken, PP informed that barricading the abandoned well sites Rs. 1 lakh per well x 2 wells= Total Rs. 2 lakhs (included in CER plan).

Regarding economic sanction for Tingkhong college and development of library in the area, PP informed that fund to be allocated for development of Tingkhong College, Rs. 10 lakhs (included in CER plan).

Regarding soil, air, noise pollution and water pollution, waste management from drill sites, PP informed that detail of cost breakup of implementation of Environmental Conservation measures for each well would be INR 0.1 crore and for each production installation would be INR 0.062 crore per annum.

Regarding Protection of flora and fauna in the area, OIL prepared Wildlife Conservation plan for Schedule-I species. INR 58 lakhs for 7 years (2022-23 to 2028-29).

Regarding Noise pollution in drilling sites which affects the neighbouring village, PP informed that noise barrier will be used. Regular noise monitoring will be conducted. Cost of noise barrier included in drilling budget.

Regarding Silk worm farms are also affected due to the air pollution caused from these drilling site, PP informed that A complaint was lodged earlier, investigation conducted by OIL through Assam Agricultural University; however no conclusive evidence of impact on silkworms from drilling was established. OIL has earmarked budget as per CER plan for sericulture development in the area, Contributing to sericulture development 0.1 lakhs

per family x 10 families per year x 7 years= Total Rs. 7 lakhs (included in CER plan).

Regarding Use of noise barriers made scientifically to control the noise pollution, OIL will provide noise barriers at drill site to control noise pollution, Cost of noise barrier included in drilling budget

Public hearing dated 08.12.2020 for Sibsagar District

Regarding probable environmental pollution from drill sites and protection of environment, PP informed that OIL has EMP for managing the environmental pollution related issues at the drill sites and production facilities. Detail of cost breakup of implementation of Environmental Conservation measures for each well would be INR 0.1 crore and for each production installation would be INR 0.062 crore per annum.

Regarding protection of the nature and about the plantation programme by Oil India Limited, OIL has earmarked budget for plantation at tea garden areas, degraded forest areas and abandoned drill sites. OIL will also earmark budget for conservation of Schedule-I species. Plantation at Tea Gardens Rs. 1 lakh per year for 7 years= Total Rs. 7 lakhs, Plantation at nearby forest area Rs. 1 lakh per year for 7 years= Total Rs. 7 lakhs, Plantation at abandoned drill sites Rs. 1 lakh per year for 7 years= Total Rs. 7 lakhs (included in CER Plan), INR 58 lakhs for 7 years for Wildlife Conservation Plan (2022-23 to 2028-29).

Regarding Local developments in the area including road construction, PP informed that Development activities to be conducted in the area included in the CER Plan. Budget allocated for CER plan INR 1.08 crores for 7 years (2022-23 to 2028-29).

Regarding Baghjan OIL incident, Management measures for control blowouts developed by OIL. OIL is carrying out separate studies to identify the environmental damage due to Baghjan loss. OIL already initiated bioremediation activities in the area.

Regarding Drill sites which were completed and any maintenance not conducted, PP informed that OIL has a well decommissioning plan. OIL is maintaining and implementing the decommissioning plan and following all the guidelines of PCBA and MoEF&CC.

Public hearing dated 11.12.2020 for Charaideo District

Regarding not to hand over their activities/operations to private companies, OIL is handling all its operation through its staffs. All the drilling other works done by sub-contractors are performed under the supervision of OIL officials.

Regarding Employment and road construction, PP informed that Budget allocated for CER plan INR 1.60 crores for 7 years (2022-23 to 2028-29).

Regarding social welfare, road construction, school development etc. after the completion of drilling process, PP informed that Budget allocated for CER plan INR 1.60 crores for 7 years (2022-23 to 2028-29).

Regarding Measures to control pollutions (air, water, soil etc.) Requested OIL to take precautions to the environment, PP informed that detail of cost breakup of implementation of Environmental Conservation measures for each well would be INR 0.1 crore and for each production installation would be INR 0.062 crore per annum.

Regarding Emergency precaution measures taken by OIL India Ltd to protect the biodiversity, OIL has conducted a detailed study on the risk assessment for their project activity based on the results OIL has developed an Emergency Response Plan. OIL has also prepared Wildlife Conservation Plan for protection of Wildlife Species. INR 58 lakhs for 7 years for Wildlife Conservation Plan (2022-23 to 2028-29).

Regarding Precautions to be taken by OIL during any accidents in their operation/after operation, Management measures for control blowouts developed by OIL. OIL is carrying out separate studies to identify the environmental damage due to Baghjan loss. OIL already initiated bioremediation activities in the area.

Regarding actions regarding proper water supply to public and also provide facilities/protection for Eri Muga production done by the local people, OIL will provide funds for development of drinking water facility and protection of Eri Muga production. Details provided in CER. Drinking water facilities Rs. 0.2 lakh per hand pump x 100 pumps= Total Rs. 20 lakhs Protection Eri Muga production done by local people Rs. 2 lakh per year for 7 years= Total Rs. 14 lakhs. (Included in CER Plan).

9. Total plant area after expansion will be 354 Ha (existing plant area 24 Hectares and additional land required 330 Hectares for proposed capacity). Land for the drill sites will be procured prior to drilling. Oil India Ltd. will develop greenbelt at the proposed production installations having total area of 157500 m². The estimated project cost is Rs 3470 Crores. Capital cost of EMP would be Rs. 2.31 Crores and recurring cost for EMP would be Rs. 2.3479 Crores per annum. Industry proposes to allocate Rs. 9.0 Crores towards extended EMP (Corporate

Environment Responsibility). Total Employment after expansion will be 180 persons as direct & indirect.

10. There are no national parks, wildlife sanctuaries, Biosphere Reserves, Tiger/Elephant Reserves, Wildlife Corridors etc. within 10 km distance of proposed wells and production installations. Diroi RF and Namdang RF located within Moran Block, however, no wells or production installation locate in forest land. The Panidehing Wildlife Sanctuary is located at a distance of 10.6 km from nearest proposed well. ESZ of Panidehing Sanctuary has been finalized on 25.04.2022. Area extent of ESZ is 282.12 square kilometer. The nearest well is located 4.5 km from the notified ESZ boundary. Conservation plan for schedule I species has been submitted to PCCF & Chief Wildlife Warden Assam dated 25.08.2021 and a budget of 0.58 Crores has been earmarked for the same. Buri Dehing River is present within the Block, however, the nearest well is located at a distance of 4.2 km from Burhi Dehing River. Brahmaputra River is located outside the Block as a distance of 4.64 km northwest.

11. Ambient air quality monitoring was carried out at 8 locations during 05.10.2017 to 31.12.2017 and the baseline data indicates the ranges of average concentrations as: PM_{10} (54.79 - 60.88 $\mu g/m^3$), $PM_{2.5}$ (27.83 - 33.71 $\mu g/m^3$), SO_2 (5.92 - 6.40 $\mu g/m^3$) and NO_2 (17.4 - 19.6 $\mu g/m^3$). AAQ modelling study for point source emissions indicates that the maximum incremental GLCs after the proposed project would be 11.03 $\mu g/m^3$, 0.0046 $\mu g/m^3$, 0.037 $\mu g/m^3$ and 0.63 $\mu g/m^3$ with respect to NO_x , SO_2 , PM_{10} and HC. The resultant concentrations are within the National Ambient Air Quality Standards (NAAQS). Additional two weeks ambient air quality monitoring conducted during February-March 2022 the average values ranged between PM_{10} (59.55-68.20 $\mu g/m^3$), $PM_{2.5}$ (28.60-37.54 $\mu g/m^3$), SO_2 (5.79-8.40 $\mu g/m^3$) and NO_2 (14.08-20.39 $\mu g/m^3$).

12. Total fresh water requirement after expansion will be 39 CMD for each well which will be met from groundwater. NOC has been obtained from CGWA vide letter no. CGWA/NOC/MIN/ORIG/2021/10979 dated 17.02.2021. Existing effluent generation is 21.8 CMD (8 CMD domestic wastewater and 13.8 CMD drilling and wash wastewater). Drilling and wash wastewater will be treated through effluent treatment plant. Domestic waste water will be treated in septic tank and soak pits. The committee suggested them to provide mobile STP for treatment of sewage instead of septic tank. Produced formation water is stored in formation water tanks will be disposed to the abandoned wells of OIL after necessary treatment and achieving standards prescribed by the CPCB/SPCB. Separated water from phase separation system will be treated in an ETP and will be reused. The project will be based on Zero Liquid discharge system.

13. 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 will be provided as per CPCB norms to the

proposed DG sets. For Production Installations, Power requirement of production installations will be met through Gas Generator (GG) sets. Natural gas for the GG sets are supplied from the field itself. In general, a 216 KW GG set will be used for power supply at each production facilities.

14. Details of Process emissions generation and its management

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

15. 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.

16. The proposal was earlier considered by the EAC (Ind-2) in its 49th EAC meeting (Agenda 49.9) held during 27th -28th January, 2022 wherein EAC deferred the proposal and desired certain requisite information/inputs. After submission of ADS reply by Project Proponent, proposal was again considered in EAC meeting (Meeting ID: IA/IND2/13360/20/10/2022) held on 20th October, 2022 in the Ministry, wherein the project proponent and the accredited Consultant M/s. ERM India Pvt. Ltd. (NABET certificate no. NABET/EIA/1922/RA 0177 and validity 30.10.2022), presented the case under A category.

17. During deliberations, the committee was satisfied with the response of the PP against the additional details sought. Further, EAC discussed following issues:

- Oil India Limited (OIL) submitted an undertaking stating that the Proposed Oil & Gas Drilling wells, Production Installations and Assorted pipeline under the Project of "Onshore Oil & Gas development drilling and production in Onshore Oil & Gas development drilling and production (16 exploratory and 73 developmental drilling wells) in Dibrugarh, Sibsagar and Charaideo Districts under Moran, Moran Extension, Dholiya and some

portion of Dumduma (Block A) PMLs (Moran Block)" are NOT FALLING WITHIN ANY FORESTLAND AND PANIDEHING BIRD SANCTUARY & ITS NOTIFIED ESZ AREA.

- PP informed that Panidehing Wildlife Sanctuary is located at a distance of 10.6 km from nearest proposed well. ESZ of Panidehing Sanctuary has been finalized on 25.04.2022. Area extent of ESZ is 282.12 square kilometer. The nearest well is located 4.5 km from the notified ESZ boundary.
- PP informed that 9 nos. of production facilities will be created with the area of 17 Ha. In a particular field a Quick Production System (QPS) is set up which is small version of full-fledged OCS. QPS generally require the maximum area i.e. approximately 7 ha.
- Assorted pipelines of 50 mm -300 mm in diameter of total length of 450km will be laid from the proposed development wells to different neighbouring producing facilities. Further, gas pipeline of 100 mm and 250 mm in diameter would be laid. In total 480 km of pipelines would be laid in Moran Block These pipelines will be laid approximately 1.5 m below the ground and land will not be acquired for them. A Right of Use (RoU) of 10m will be maintained by OIL and adequate compensation will be paid to the landowners for the Right to Use.
- Increase CER cost to Rs. 9.0 Crores. PP shall keep separate fund for sericulture activities.
- After detailed deliberation, PP informed that they will consider ground flaring system with all measures (Protected by a shield or embankment/ enclosed flaring) instead of elevated flare as wildlife sanctuary is located at a distance of 10.6 km.

18. The committee was satisfied with the response provided by PP on above information.

19. The proposal was considered by EAC (Ind-2) in its meetings held on 27th January, 2022 and meeting ID: IA/IND2/13360/20/10/2022 held on 20th October, 2022 in the Ministry, wherein the project proponent and their accredited Consultant namely M/s. ERM India Pvt. Ltd. (NABET certificate No. NABET/EIA/1922/RA 0177 and valid till 30.10.2022), presented the case. The Committee **recommended** the project for grant of environmental clearance.

20. 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.

21. 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.

22. 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.

23. 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 to the project for Onshore Oil & Gas development drilling and production in Onshore Oil & Gas development drilling and production (16 exploratory and 73 developmental drilling wells) in Dibrugarh, Sibsagar and Charaideo Districts under Moran, Moran Extension, Dholiya and some portion of Dumduma (Block A) PMLs located at Villages Bezapather No.2, Rangrangia Gaon, Pukhuri No.2, Naharani, Demowk Bongali, Baghtoli Sonowal, Ophulia, Dighalia No.2, Demow Grant, DehajanHabi, Laok, Teok Gaon, Naphuk Gaon, KhomonPathar, Kakati Bari Pathar, KGaon, Garkush, No.3 SingarijanKhumtai Gaon, Khelmati etc. Tehsil Moran, Tinkhong (Dibrugarh district), Dimow (Sibsagar district), Sonari and Mahmora (Charaideo district, Old Sibsagar District), Districts Dibrugarh, Sibsagar and Charaideo, 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 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 Chief Wildlife Warden for approval. The recommendations shall be implemented in consultation with the State Forest/Wildlife Department in a time bound manner.
- (ii). No drilling activities shall be carried out within 500 m from the water bodies.
- (iii). 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. PP shall ensure implementation of action plan proposed to address issues raised during public hearings dated 24.08.2022, 08.12.2022 & 11.12.2020.
- (iv). As proposed, no pipelines or its part shall be laid in the Forest land/Protected Area without prior permission/approval from the concerned Forest Department under Forest Act/Wildlife Act.
- (v). Total fresh water requirement shall not exceed 25 m³/day per well for drilling and will be met through Tankers Supply. Prior permission shall be obtained from the concerned regulatory authority.
- (vi). 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 drilling system. Mobile STP shall also be installed. 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 storm water channel and rainwater shall not be allowed to mix with wastewater. Level of the Drilling site shall be constructed in such way that outside rainwater should not enter into the drilling site. Alternatively, if possible, pit less drilling be practiced instead of the above.
- (vii). As proposed, produced formation water is stored in formation water tanks shall be disposed to the abandoned wells of OIL after necessary treatment. Separated water from phase separation system will be treated in an ETP and will be reused. Treated effluent shall meet the water quality standards

for re-injection well as per the CPCB/SPCB guidelines. PP shall monitor water quality of treated effluent regularly and maintain records.

- (viii). During production, storage and handling, the fugitive emission of methane, if any, shall be monitored using Infra-red camera/ appropriate technology.
- (ix). The project proponent also to ensure trapping/storing of the CO₂ generated, if any, during the process and handling.
- (x). Approach road shall be made pucca to minimize generation of suspended dust.
- (xi). 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.
- (xii). 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.
- (xiii). 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.
- (xiv). 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.
- (xv). 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. Ground flaring system with all measures (Protected by a shield or embankment/ enclosed flaring) instead of elevated flare as wildlife sanctuary is located at a distance of 10.6 km.
- (xvi). 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.

- (xvii). Blow Out Preventer system shall be installed to prevent well blowouts during drilling operations.
- (xviii). 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.
- (xix). As per the Ministry's OM dated 30.09.2020 superseding the OM dated 01.05.2018 regarding the Corporate Environmental Responsibility (Rs. 9.0 Crores), and as per the action plan proposed by the project proponent to address the socio-economic and environmental issues in the study area, the project proponent, as committed, shall provide education funds in technical training centers/ support in nearby village's schools, support in health care facilities, drinking water supply and funds for miscellaneous activities like solar street lights, battery, solar panel etc., in the nearby villages. The action plan shall to be completed within 1 year as proposed.
- (xx). No lead acid batteries shall be utilized in the project/site.
- (xxi). 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.
- (xxii). Oil content in the drill cuttings shall be monitored and report & shall sent to the Ministry's Regional Office.
- (xxiii). 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.

- (xxiv). 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.

24. 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.

25. 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.

26. 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.

27. 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.

28. 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, Sibsagar and Charaideo, Assam
7. Guard File/Monitoring File/ Parivesh Portal /Record File

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

E-mail: aditya.narayan@nic.in
Tel. No. 11-24642176