

F. No. J-11011/116/2018-IA-II (I)
Government of India
Ministry of Environment, Forest & Climate Change
(IA-II Section)

By speed post/Online

Indira Paryavaran Bhavan
Vayu Wing, 3rd Floor, Aliganj
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Dated: 7th January, 2020

To

M/s Oil India Limited
Plot No. 19, Sector 16-A
Noida, Uttar Pradesh – 201 301
Email: safety@oilindia.in

Sub: Onshore Oil & Gas exploration & development drilling and production in Ningru Oil & Gas Field in Districts Changlang and Namsai for Ningru PML Block (Arunachal Pradesh) by M/s Oil India Ltd - Environmental Clearance - reg.

Sir,

This has reference to your proposal No.IA/AR/IND2/123232/2018 dated 8th November, 2019 for environmental clearance to the above project.

2. The Ministry of Environment, Forest and Climate Change has examined the proposal for environmental clearance to the project for Onshore Oil & Gas exploration & development drilling and production in Ningru Oil & Gas Field by M/s Oil India Ltd in a total area of 427.058 sqkm of Ningru PML Block in Districts Changlang and Namsai (Arunachal Pradesh).

Details of 33 wells proposed to drill in Ningru PML block

S.No	Name of Drilling Location	Existing Well Plinth and land area	FC Details	Remarks
1	KUP	KUP & KUL: 7.111 ha in Chnaglang District	Letter No 8-556/89-FC dated 8 th July, 1991	Stage-II Final FC
2	KUAU			
3	KUAV			
4	KUAX			
5	Loc-G			
6	KUL			
7	KUAW			
8	Loc-E			
9	Loc-F			
10	KUAT			
11	KUC Production Installation No.3 &	KUC : 3.96 ha in Changlang district (earlier known as Tirap District)	Letter No 8-246/86-FC dated 18 th February, 1987 & NFD/62/83/520-65 13 th March, 1987	Stage-II Final FC for two Locations- KUC (3.96 ha) & KHY (1.66 ha) , where location KHY is in Kharsang block of Ge-Enpro
12	KUAG	Stage-I FC for 29.32 ha in Changlang District	No 8-95/92-FC dtd 20 th August, 1992	Stage-I FC - No drilling activities/ construction activities

				will be taken up, till Stage-II Final FC is obtained
13	KUAJ	Stage-I FC for 29.32 ha in Changlang District	No 8-95/92-FC dtd 20 th August, 1992	Stage-I FC- No drilling activities/ construction activities will be taken up till Stage-II Final FC is obtained
14	KUZ			
15	KUX			
16	KUR & Production Installation No-1			
17	KUAC			
18	KUAE			
19	KUO	Land already diverted for existing Well Plinths (KUO, KMC-5, KMC-6, KMC-7, KMC-8, KMC-9, KMC-10, KMC-11, KMC-12, KMC-13 & KMC-14) involving 34.508 ha forest lands	Land diverted prior to enactment of FC Act, 1980	FC not required as there is no requirement of additional land
20	KMC-2,			
21	KMC-13 & Production Installation no-2			
22	KMC-5			
23	KMC-6			
24	KMC-7			
25	KMC-8			
26	KMC-9			
27	KMC-10			
28	KMC-11			
29	KMC-12			
30	KMC-14			
31	KUAZ			
32	KUAR	Existing drilling plinths of KMC-1 & KMC-4	Non-Forest Land	FC not Required
33	KUAS			

3. Total project cost is estimated to be Rs.1431.90 crores. The recurring cost (O&M) would be about Rs. 0.79 crore per annum. Total employment will be for approximately 60 persons directly & 120 persons indirectly. There are no National parks, Wildlife sanctuaries, Biosphere Reserves, Tiger/Elephant Reserves, Wildlife Corridors etc. within 10 km of the well locations. Kumchai river flows at a distance of 0.5 km in East-West direction.

4. Total fresh water requirement of 50 m³/day will be met from tube well. Effluent of 16.76 m³/day shall be treated through mobile effluent treatment plant and domestic effluent of 8 m³/day shall be treated in septic tank/soak pit.

5. Power requirement for drilling is 2500 kVA, sufficed through Diesel Generator sets. One 1250 KVA DG set is will kept as standby. Stack (height 7 m) will be provided as per CPCB norms to the proposed DG sets.

6. The project/activity is covered under category A of item 1(b) 'Offshore and onshore oil and gas exploration, development & production' of schedule to the Environment Impact Assessment (EIA) Notification, 2006, and requires appraisal at central level by sectoral Expert Appraisal Committee (EAC).

7. The standard ToR for the project was granted by the Ministry on 4th May, 2018. Public hearing was conducted by the State Pollution Control Board on 18th June, 2019 at Namsai under the Chairmanship of Deputy Commissioner and on 19th June, 2019 at Changlang District under the Chairmanship of Additional Deputy Commissioner.

8. The proposal was considered by the Expert Appraisal Committee (Industry-2) in its meeting held on 20-22 November, 2019, wherein the project proponent and their accredited consultant presented the EIA/EMP Report. The Committee found the EIA/EMP report to be satisfactory, complying with the ToR, and recommended the project for grant of environmental clearance.

9. 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 to the project for **Onshore Oil & Gas exploration & development drilling and production in Ningru Oil & Gas Field in Districts Changlang and Namsai for Ningru PML Block (Arunachal Pradesh)**, under the provisions of the EIA Notification, 2006, and the amendments therein, subject to compliance of the terms and conditions as under:-

- (i) 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 applicable. 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.
- (ii) Drilling in forest areas shall be started after getting prior permission under the Forest (Conservation) Act, 1980.
- (iii) 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, shall be obtained from the State Pollution Control Board.
- (iv) To control source and the fugitive emissions, suitable pollution control devices shall be installed to meet the prescribed norms and/or the NAAQS. The gaseous emissions shall be dispersed through stack of adequate height as per CPCB/SPCB guidelines.
- (v) Necessary authorization required under the Hazardous and Other Wastes (Management and Trans-Boundary Movement) Rules, 2016, Solid Waste Management Rules, 2016 shall be obtained and the provisions contained in the Rules shall be strictly adhered to.
- (vi) Ambient air quality shall be monitored at the nearest human settlements to ensure conformity with the National Ambient Air Quality Emission Standards issued by the Ministry vide GSRNo.826(E) dated 16th November, 2009 for PM₁₀, PM_{2.5}, SO₂, NO_x, CO, CH₄, HC, Non-methane HC etc.
- (vii) During exploration, production, storage and handling, the fugitive emissions of methane, if any, shall be monitored using Infra-red camera/ appropriate technology.
- (viii) The project proponent also to ensure trapping/storing of the CO₂ generated, if any, during the process and handling.
- (ix) Approach road shall be made pucca to minimize generation of suspended dust.
- (x) The company shall make all arrangements for control of noise from the drilling activity. Acoustic enclosure shall be provided for the DG sets along with the adequate stack height as per CPCB guidelines.
- (xi) Total fresh water requirement shall not exceed 40 cum/day/well proposed to be met through tankers. Mobile ETP shall be installed to treat the waste water and efforts shall be made for gradual reduction in daily intake of water (to reduce fresh water foot print) by suitable mechanism or by putting RO facility in place coupled with onsite mobile ETP. Size of the waste 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 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.

- (xii) The company shall construct the garland drain all around the drilling site 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. Effluent shall be properly treated and treated wastewater shall conform to CPCB standards.
- (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/drill cutting 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 Company shall take necessary measures to prevent fire hazards, containing oil spill and soil remediation as needed. Possibility of using ground flare shall be explored. At the place of ground flaring, the overhead flaring stack with knockout drums shall be installed to minimize gaseous emissions during operation.
- (xvi) The company 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) Emergency Response Plan shall be based on the guidelines prepared by OISD, DGMS and Govt. of India.
- (xix) After completion of drilling process, suitable measures shall be taken for well plugging and secured enclosures, and drilling site shall be restored to the original condition. In case of the hydrocarbon not found economically viable, a full abandonment plan shall be implemented for the drilling site in accordance with the applicable Indian Petroleum Regulations.
- (xx) All the commitments made to the public during public consultation/hearing shall be satisfactorily implemented.
- (xxi) At least Rs 5 crore shall be allocated for Corporate Environment Responsibility (CER) and item-wise details along with time bound action plan shall be prepared and submitted to the Ministry's Regional Office.
- (xxii) Occupational health surveillance of the workers shall be carried out as per the prevailing Acts and Rules.
- (xxiii) Company shall prepare operating manual in respect of all activities, which would cover all safety & environment related issues and measures to be taken for protection. One set of environmental manual shall be made available at the drilling site/ project site. Awareness shall be created at each level of the management. All the schedules and results of environmental monitoring shall be available at the project site office. Remote monitoring of site should be done.

10. The project proponent shall strictly comply the sector specific conditions as mentioned in the Ministry's Office Memorandum No. 22-34/2018-IA.III, dated 9th August,

2018. The said OM is available at the Ministry's website (PARIVESH portal i.e. 'www.parivesh.nic.in'). The grant of Environmental Clearance is further subject to compliance of generic conditions as mentioned in the Ministry's Office Memorandum No. 22-34/2018-IA.III, dated 9th August, 2018.

11. The Regional Office of this Ministry shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer(s) of the Regional Office by furnishing the requisite data / information/monitoring reports.


12. 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.

13. 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.

14. 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.

15. 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 and also any other orders passed by the Hon'ble Supreme Court of India/ High Court of Arunachal Pradesh/NGT and any other Court of Law relating to the subject matter.

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


(Dr. R. B. Lal)
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Copy to: -

1. The DGF (C), (North Eastern Zone), Ministry of Environment, Forest and Climate Change, Regional Office, Law-U- Sib, Lumbatngen, Near MTC Workshop, Shillong-793021 (Meghalaya)
2. The Principal Secretary (Office), Department of Environment & Forest, Itanagar-791111 (Arunachal Pradesh)
3. The Member Secretary, Central Pollution Control Board Parivesh Bhavan, East Arjun Nagar, Delhi - 32
4. The Member Secretary, Arunachal Pradesh State Pollution Control Board, Govt of Arunachal Pradesh, Department of Environment & Forests, Paryavaran Bhawan, Yupia Road, Papu Nalah, Naharlagun-791110 (Arunachal Pradesh)
5. The District Collector, Districts Changlang and Namsai (Arunachal Pradesh)
6. Guard File/ Record File/ Monitoring File/ Website of MoEF&CC


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