



सत्यमेव जयते

File No: J-11011/389/2006-IA.II(I)
Government of India
Ministry of Environment, Forest and Climate Change
IA Division



Date 28/02/2025



To,

Sh. G Janakiraman,
M/s GEOENPRO PETROLEUM LIMITED
Insignia Tower, 2nd Floor 1D, Sector-126, Noida UTTAR PRADESH, 201303
gjanakiraman@hoec.com

Subject: Drilling of Development wells (40 nos.) and Exploratory / Appraisal wells (5 Wells) in the Kharsang Oil Field at District Changlang, Arunachal Pradesh by M/s Geo Enpro Petroleum Limited – Grant of Environmental Clearance under the provision of the EIA Notification 2006 reg.

Sir/Madam,

This is in reference to your application submitted to MoEF&CC vide proposal number IA/AR/IND2/489413/2024 dated 25/07/2024 for grant of prior Environmental Clearance (EC) to the proposed project under the provision of the EIA Notification 2006 and as amended thereof.

2. The particulars of the proposal are as below :

| | |
|--|---|
| (i) EC Identification No. | EC24A0303AR5736457N |
| (ii) File No. | J-11011/389/2006-IA.II(I) |
| (iii) Clearance Type | Fresh EC |
| (iv) Category | A |
| (v) Project/Activity Included Schedule No. | 1(b) Off-shore and onshore oil and gas exploration, development and production |
| (vi) Sector | Industrial Projects - 2 Drilling of Development wells (40 Nos.) and Exploratory wells (5 Wells) in the Kharsang Oil Field at District - Changlang, Arunachal Pradesh by M/s. GeoEnpro Petroleum Ltd. |
| (vii) Name of Project | GEOENPRO PETROLEUM LIMITED |
| (viii) Name of Company/Organization | CHANGLANG, ARUNACHAL PRADESH |
| (ix) Location of Project (District, State) | MoEF&CC |
| (x) Issuing Authority | No |
| (xi) Applicability of General Conditions as per EIA Notification, 2006 | |

3. The Ministry of Environment, Forest and Climate Change has examined the proposal seeking Environmental Clearance for the drilling of development wells (40 Nos.) and Exploratory wells (5 Wells) in the Kharsang Oil Field at District Changlang, Arunachal Pradesh by M/s Geoenpro Petroleum Ltd.

4. All proposed Onshore Oil and Gas Development & Exploratory Drilling activities are listed at S. N. 1(b) Schedule of Environment Impact Assessment (EIA) Notification under Category 'A' and is appraised at the Central Level by Expert Appraisal Committee (EAC).

5. The details of products and capacity are given in Annexure 2 and the Co-ordinates of Proposed wells are given in Annexure 3.

Proposed 40 development wells and 5 exploratory wells will be drilled from proposed identified 24 plinths (83.412 Ha area) using cluster drilling technology. All 45 wells will be taken up for drilling under different drilling campaigns in a phase-wise manner.

6. The Ministry has issued Environmental Clearance to the existing capacity exploratory drilling of 40 new wells vide File No. J-11011/389/2006-IA II (I) dated: 15th November 2007. A certified Compliance report of existing EC has been obtained from the Integrated Regional Office, MoEFCC, Shillong, vide File no- RO/NE/E/IA/AP/MI/35/5253-55, dated: 23.02.2024. Action Taken Report has been submitted to IRO, MOEFCC, Shillong GEPL/MoEF/2024/02, dated: 27th February, 2024 for 6 nos. partial compliances. EAC found compliance status satisfactory.

7. Standard ToR has been issued by the Ministry vide letter F. No. J-11011341/2014-IA II(I) dated 29.04.2015. It was informed that no litigation is pending against the project.

Public Hearing for the proposed project had been conducted by the Arunachal Pradesh State Pollution Control Board on 26.11.2024 at G.B Hall, Kharsang, District Changlang, Arunachal Pradesh chaired by the District Commissioner (DC). The main issues raised during the public hearing and the action plan is given in Annexure 4.

It was informed by PP that no written representations/ objections/ grievances/ complaints have been received during public hearing.

8. The Total Block area is 994 Ha and no additional land required for the proposed expansion project as the same will be done within the existing plant premises. The estimated project cost is Rs. 720.0 Crores. The capital cost of EMP would be Rs. 0.3704 Crores for each well site during Pre-drilling & drilling and 1.48552 Crores for Production unit/ OCS and the recurring cost for EMP would be Rs. 0.5332 Crores per annum. Industry proposes to allocate. Rs. 5.76 Crores towards extended EMP. Total Employment after expansion will be 60 persons as direct & indirect during production.

9. There are no National Parks, Wildlife Sanctuaries, Biosphere Reserves, Tiger / Elephant Reserves, Wildlife Corridors etc. within 10 km distance of the Block Boundary, hence NBWL is not applicable. Reserve forests/protected forests: The whole project block is in Namchik Reserve Forest Region. GeoEnpro has obtained forest clearance vide F. No. 8-33/2019-FC I/67871/2024 from MoEF&CC for 83.412 Ha of forest land for drilling of oil wells from 24 plinths on 15.03.2024. Conservation plan for Schedule-I species has been submitted to PCCF (Wildlife & BD) & CWLW, dated: 19.02.2024 and a Budget of Rs. 0.28 Crores has been earmarked for the same. Namphuk River is passing through the block in the North direction.

10. Ambient air quality monitoring was carried out at 08 locations during 15th April 2024 to 30th May 2024 and a baseline survey was conducted by an NABL-accredited laboratory from 15th September 2023 to 15th December 2023. The baseline data indicates the ranges of concentrations as: PM10 (37.7 – 55.5 µg/m³), PM2.5 (21.1 – 30.9 µg/m³), SO₂ (5.4 – 10.3 µg/m³) and NO_x (16.7 – 27.4 µg/m³). AAQ modeling study for point source emissions indicates that the maximum incremental GLCs during the drilling phase would be 12.5 µg/ m³, 2.18 µg/ m³, 2.76 µg/ m³ and 0.65 µg/ m³ with respect to PM, SO_x, NO_x and HC. The resultant concentrations are within the National Ambient Air Quality Standards (NAAQS).

11. Total freshwater requirement after expansion will be 950 CMD during production which will be met from Namphuk River. During drilling freshwater requirement will be 25 CMD which will be met from Namphuk River. Existing effluent

generation is 167.5 CMD which is treated through existing ETP of capacity 200 CMD. Proposed Effluent generation will be 11 CMD including formation water (18 CMD formation water will be generated from which 8 CMD will be used for Brine preparation and 10 CMD be treated in existing 200 CMD effluent treatment plant) which will be treated through the existing Effluent Treatment Plant of capacity 200 CMD and treated water will be reused in rig washing, fire fighting, gardening, dust suppression etc. Domestic wastewater is being/will be sent to the Septic tank/soak pit system during the production phase. During the drilling phase 2.5 CMD generated domestic wastewater will be treated in Mobile STP and treated water will be used for Floor/ equipment washing/ firefighting. During drilling phase 22 CMD generated effluent will be treated in Mobile ETP and treated water will be used for Floor/ equipment washing/ firefighting.

12. Power requirement will be 1.00 MW for the proposed drilling of development wells and 5.25 MW for the proposed drilling of exploratory wells, which will be met from D.G. Sets during drilling. At present power requirement is met through 0.95 MW gas based genset. Stack height (11 m) will be provided as per CPCB norms to the DG sets. Existing facility has 02 Nos. of Gas fired Boiler having capacity 2 MT/hr (Wester work) and 01 No. of Gas fired Boiler having capacity 4 MT/hr (Indcon). Existing facility has additional 0.36 MW gas based genset and 0.17 MW diesel fired genset.

13. Details of Process emissions generation and its management:

- There will be no process gas emission from proposed activities.

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

During Drilling:

- Hazardous waste like Spent/waste oil (4.0 MT/well), Wastes or Residues containing Oil (1.0 tons/well) and Discarded containers/ barrels (4MT/well) will be generated. Non-Hazardous waste i.e. Drill curring & drilling mud (227 MT/Well).
- Disposal of wastes will be as per prior approval of the Arunachal Pradesh Pollution Control Board (APPCB) and as per Hazardous and Other Wastes (Management & Transboundary Movement) Rules, 2016.

During Production:

- Discarded containers/ barrels (5 MT/year), ETP sludge (5-10 MT/year), Used oil (01 Ton/year), Spent/waste oil (5.0 MT/year), Waste / Residues Containing Oil (01 MT/year) will be generated.

15. Forest clearance has been obtained vide F. No. 8-33/2019-FC I/67871/2024 from MoEF&CC for 83.412 Ha of forest land for drilling of oil wells from 24 plinths on 15.03.2024. Further, the State Government of Arunachal Pradesh vide letter no. FOR.572/Cons/2014/23840-90 dated 23.04.2024 communicated the same to GeoEnpro and allowed to use the diverted forestland.

Capital cost EMP Budget for Pre-Drilling & drilling Activity per well are given in Annexure 5.

EMP Budget during Production (each Production Unit/ OCS) are given in Annexure 6.

Details of Extended EMP with proposed activities and budgetary allocation are given in Annexure 7.

16. The proposal was considered in the 03rd EAC meeting held on 18th - 19th January, 2016, wherein the committee recommended the proposal for Environmental Clearance subject to submission of stage-1 Forest Clearance for the proposed diversion of 94.712 Ha forest land involved. The proposal was again considered in the 16th EAC meeting held on 08th - 09th December, 2016. During the presentation PP informed that Forest Clearance has not been received yet, therefore committee suggested to delist the proposal from the pending list of proposals till the Stage-1 Forest Clearance gets submitted.

PP has submitted Stage-I FC approval through Parviesh Portal on 09.03.2023 for diversion of 83.12 ha (originally proposed 94.712 ha) granted by the MoEF&CC vide letter dated 14.02.2023. Subsequently, the proposal was considered in the EAC Ind-2 meeting held on 15.03.2023 wherein EAC deferred the proposal for want of additional information. PP has submitted the desired information on the Parivesh portal on 01.03.2024.

The proposal was earlier considered by the EAC (Ind-2) in the meeting held during 14.03.2024 wherein EAC returned the proposal in present form and desired certain requisite information/inputs from the project proponent.

The proposal was re-considered by the EAC (Ind-2) in the meeting held during 22.08.2024 wherein EAC deferred the proposal and desired certain requisite information/inputs.

17. During deliberations, EAC discussed the following issues:

- EAC desired explanation for higher max incremental increase in GLC of PM10 which is 12.5 $\mu\text{g}/\text{m}^3$. The project proponent has informed that the value of incremental PM has arrived due to operation of all DG sets at all four locations at the same time considering the worst-case scenario, hence cumulative resultant concentration is higher at downwind direction in Logtom village as per input data for air modeling.
- PP shall replace the older Diesel Gensets with new DG Sets complying with the latest norms of CPCB. PP agreed for the same.
- EAC suggested that no sensitive structures/settlements like schools, hospitals, habitations or any historical/heritage site recognised by Archaeological Survey of India should not be within 500 m of any proposed well location. PP submitted an undertaking for the same.
- PP shall submit an undertaking that no well to be drilled under the forest area for which NOC was not granted (diversion proposed 94.712 ha for whereas granted for of 83.412 ha) by Forest Department.
- PP has informed that most prevalent language in the project area is only English and no major newspapers are in circulation in local language. Hence, PH advertisement has been made in prominent papers in English which are the times of India and Arunachal Front.

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

18. The proposal was considered by the EAC (ID: EC/AGENDA/EAC/382912/1/2025) meeting held on 09th – 10th January, 2025 in the Ministry, wherein the project proponent and the accredited Consultant M/s Eco Chem Sales & Services (NABET Certificate No.: NABET/EIA/2326/RA 0292 and Validity: 15th March 2026), presented the case. The Committee recommended the project for grant of Environmental Clearance.

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

20. 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.

21. 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.

22. 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 drilling of development wells (40 nos.) and Exploratory / Appraisal wells (5 Wells) in the Kharsang Oil Field at District Changlang, Arunachal Pradesh by M/s Geo Enpro Petroleum Limited**, under the provisions of the EIA Notification, 2006, and the amendments therein, subject to compliance of the terms and conditions.

23. 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.

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

25. 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.

26. 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.

27. This issues with the approval of the Competent Authority.

Copy To

1. The Principal Secretary, Forests & Environment Department, Government of Arunachal Pradesh, Itanagar-791111.
2. The Regional Officer, Ministry of Env., Forest and Climate Change, Regional Office, Guwahati, 4th Floor, HOUSEFED Building, G.S. Road Rukminigaon, Guwahati - 781022
3. The Chairman, Central Pollution Control Board Parivesh Bhavan, CBD-cum-Office Complex, East Arjun Nagar, Delhi - 32.
4. The Member Secretary, Arunachal Pradesh Pollution Control Board, Paryavaran Bhawan, Yupia Road, Papu Nalah, Naharlagun, Arunachal Pradesh 791110.
5. Compliance and Monitoring Division, Ministry of Environment, Forest and Climate Change, Indira Paryavaran Bhawan, Jor Bagh Road, New Delhi.
6. The District Collector, Changlang, Arunachal Pradesh.
7. Guard File/Monitoring File/Parivesh portal/Record File.

Annexure 1

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

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

| S. No | EC Conditions |
|--------------|--|
| 1.1 | The company shall comply with all the environmental protection measures and safeguards proposed in the documents submitted to the Ministry. |
| 1.2 | All the recommendations made in the EIA/EMP in respect of environmental management, and risk mitigation measures relating to the project shall be implemented. |

| S. No | EC Conditions |
|-------|--|
| 1.3 | As committed no drilling activities shall be carried out within 500 m from the water bodies, schools, habitations, historical/heritage monuments recognised by Archaeological Survey of India. |
| 1.4 | The project authorities shall obtain Stage-II FC before commencement of any activity on the project site. All conditions specified in Stage-I FC approval granted vide letter dated 24.04.2023 for diversion of 83.412 ha shall be followed. No pipelines or its part shall be laid in the Forest land / Protected Area without prior permission/approval from the Competent Authority. No flood lights shall be used for operation in in night time. |
| 1.5 | Total fresh water requirement shall not exceed 25 m ³ /day per each drilling well location and will be met from Namphuk river. Prior permission shall be obtained from the concerned regulatory authority. |
| 1.6 | 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. 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 waste water. Alternatively, if possible, pit less drilling be practiced instead of above. Produced water generated shall be treated with in the premises as per the Standards for Liquid Effluent of Oil Drilling and Gas Extraction Industry notified in The Environment (Protection) Rules 1986 and shall not be discharged untreated anywhere or in any stream. |
| 1.7 | During production, storage and handling, the fugitive emission of methane, if any, shall be monitored using Infra-red camera/ appropriate technology. No flaring shall be carried out during operation phase. |
| 1.8 | The project proponent also to ensure trapping/storing of the CO ₂ generated, if any, during the process and handling. |
| 1.9 | Approach road shall be paved to minimize generation of suspended dust. |
| 1.10 | 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. PP shall replace the old Diesel Gensets with new Sets complying with the latest norms of DG sets notified by CPCB. |
| 1.11 | The company shall construct the garland drain to prevent runoff of any oil containing waste into the nearby water bodies. Separate drainage system shall be created for oil contaminated and non-oil contaminated. |
| 1.12 | 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. Industry shall obtain membership of TSDF site before obtaining CTO and shall dispose the hazardous waste generated at drill site to TSDF approved by GPCB. |
| 1.13 | Oil spillage prevention and mitigation scheme shall be prepared. In case of oil spillage/ |

| S. No | EC Conditions |
|-------|--|
| | contamination, action plan shall be prepared to clean the site by adopting proven technology. The recyclable waste (oily sludge) and spent oil shall be disposed of to the authorized recyclers. |
| 1.14 | Gas produced during testing shall be flared with appropriate flaring device as prescribed by the CPCB. The flare shall be designed as per good oil field practices and OISD guidelines. The stack height shall be provided as per the regulatory requirements and emission from the stacks will meet MOEFCC/CPCB guidelines. |
| 1.15 | The project proponent shall take necessary measures to prevent fire hazards, containing oil spill and soil remediation as needed. At fixed installations or plants use of ground flare shall be explored. At the place of ground flaring, the overhead flaring stack with knockout drums shall be installed to minimize gaseous emissions during operation. |
| 1.16 | The project proponent shall develop a contingency plan for H2S release including all necessary aspects from evacuation to resumption of normal operations. The workers shall be provided with personal H2S detectors in locations of high risk of exposure along with self-containing breathing apparatus. |
| 1.17 | Blow Out Preventer system shall be installed to prevent well blowouts during drilling operations. |
| 1.18 | 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. |
| 1.19 | PP proposed to allocate Rs. 5.76 Crores towards extended EMP which shall be spent as submitted as per plan. Further, all the proposed activities under extended EMP shall be completed before the commissioning of the plant in consultation with District Administration. All the commitments made in Public Hearing shall be completed within the timeline as per action plan submitted. |
| 1.20 | No lead acid batteries shall be utilized in the project/site. |
| 1.21 | Occupational health surveillance of the workers shall be carried out as per the prevailing Acts and Rules. All workers & employees shall be provided with required safety kits/mask for personal protection. |
| 1.22 | Oil content in the drill cuttings shall be monitored and report & shall sent to the Ministry's Regional Office. |
| 1.23 | 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. |
| 1.24 | 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 MoEF&CC 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 |

| S. No | EC Conditions |
|-------|--|
| | concerned authority. |
| 1.25 | The project proponent shall ensure the compliance of the Ministry's OM dated 14th January 2025 w.r.t. streamlining the implementation of Notifications G.S.R. 702 and G.S.R. 703 dated 12th November 2024. |

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

1. General Conditions

| S. No | EC Conditions |
|-------|---|
| 1.1 | No further expansion or modifications in the plant, other than mentioned in the EIA Notification, 2006 and its amendments, shall be carried out without prior approval of the Ministry of Environment, Forest and Climate Change/SEIAA, as applicable. In case of deviations or alterations in the project proposal from those submitted to this Ministry for clearance, a fresh reference shall be made to the Ministry/SEIAA, as applicable, to assess the adequacy of conditions imposed and to add additional environmental protection measures required, if any. |
| 1.2 | The energy source for lighting purpose shall be preferably LED based, or advanced having preference in energy conservation and environment betterment. |
| 1.3 | The overall noise levels in and around the plant area shall be kept well within the standards by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise levels shall conform to the standards prescribed under the Environment (Protection) Act, 1986 Rules, 1989 viz. 75 dBA (day time) and 70 dBA (night time). |
| 1.4 | The company shall undertake all relevant measures for improving the socio-economic conditions of the surrounding area. CER activities shall be undertaken by involving local villages and administration and shall be implemented. The company shall undertake eco-developmental measures including community welfare measures in the project area for the overall improvement of the environment. |
| 1.5 | The company shall earmark sufficient funds towards capital cost and recurring cost per annum to implement the conditions stipulated by the Ministry of Environment, Forest and Climate Change as well as the State Government along with the implementation schedule for all the conditions stipulated herein. The funds so earmarked for environment management/ pollution control measures shall not be diverted for any other purpose. |
| 1.6 | A copy of the clearance letter shall be sent by the project proponent to concerned Panchayat, Zilla Parishad/Municipal Corporation, Urban local Body and the local NGO, if any, from whom suggestions/ representations, if any, were received while processing the proposal. |
| 1.7 | The project proponent shall also submit six monthly reports on the status of compliance of the stipulated Environmental Clearance conditions including results of monitored data (both in hard copies as well as by e-mail) to the respective Regional Office of MoEF&CC, the respective Zonal Office of CPCB and SPCB. A copy of Environmental Clearance and six monthly compliance status report shall be posted on the website of the company. |

| S. No | EC Conditions |
|-------|--|
| 1.8 | The environmental statement for each financial year ending 31st March in Form-V as is mandated shall be submitted to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of environmental clearance conditions and shall also be sent to the respective Regional Offices of MoEF&CC by e-mail. |
| 1.9 | The project proponent shall inform the public that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with the SPCB/Committee and may also be seen at Website of the Ministry and at https://parivesh.nic.in/ . This shall be advertised within seven days from the date of issue of the clearance letter, at least in two local newspapers that are widely circulated in the region of which one shall be in the vernacular language of the locality concerned and a copy of the same shall be forwarded to the concerned Regional Office of the Ministry. |
| 1.10 | The project authorities shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities and the date of start of the project. |
| 1.11 | This Environmental clearance is granted subject to final outcome of Hon'ble Supreme Court of India, Hon'ble High Court, Hon'ble NGT and any other Court of Law, if any, as may be applicable to this project. |

Annexure 2

Details of Products & By-products

| Name of the product /By-product | Product / By-product | Existing | Proposed | Total | Unit | Mode of Transport / Transmission |
|---------------------------------|----------------------|----------|----------|-------|------|----------------------------------|
| Crude Oil | Product | 400 | 2400 | 2800 | BOPD | Road |
| Natural Gas | Product | 13000 | 75579 | 88579 | SCMD | Pipe Conveyer |

Annexure 2

The details of products and capacity as under:

| S. No. | Unit | Product/by-product | Existing Quantity | Proposed Quantity | Total Quantity |
|--------|--|--------------------|--------------------------|--------------------------|--------------------------|
| 1. | Development & Exploration drilling for Production of oil and gas at Kharsang Oil Field | Product | Crude Oil - 400 BOPED | Crude Oil - 2400 BOPED | Crude Oil - 2800 BOPED |
| | | | Natural Gas - 13000 SCMD | Natural Gas - 75579 SCMD | Natural Gas - 88579 SCMD |

Annexure 3

Co-ordinates of Proposed wells#:

| S. No. | Drilling Plinth | Latitude | Longitude |
|--------|-----------------|------------|------------|
| 1. | NL 01 | 27°24'21"N | 96°01'25"E |
| 2. | NL 02 | 27°24'01"N | 96°01'26"E |
| 3. | NL 03 | 27°23'42"N | 96°01'26"E |
| 4. | NL 05 | 27°24'21"N | 96°01'47"E |
| 5. | NL 06 | 27°24'02"N | 96°01'48"E |
| 6. | NL 07 | 27°23'42"N | 96°01'48"E |
| 7. | NL 09 | 27°24'22"N | 96°02'09"E |
| 8. | NL 10 | 27°24'02"N | 96°02'10"E |
| 9. | NL 11 | 27°23'43"N | 96°02'10"E |
| 10. | NL 12 | 27°23'23"N | 96°02'11"E |
| 11. | NL 13 | 27°23'04"N | 96°02'11"E |
| 12. | NL 14 | 27°24'03"N | 96°02'31"E |
| 13. | NL 15 | 27°23'43"N | 96°02'32"E |
| 14. | NL 16 | 27°23'24"N | 96°02'32"E |
| 15. | NL 17 | 27°24'03"N | 96°02'53"E |
| 16. | NL 18 | 27°23'44"N | 96°02'54"E |
| 17. | NL 19 | 27°23'24"N | 96°02'54"E |
| 18. | NL 20 | 27°24'04"N | 96°03'15"E |
| 19. | NL 21 | 27°23'44"N | 96°03'16"E |
| 20. | NL 22 | 27°23'25"N | 96°03'16"E |
| 21. | NL 24 | 27°23'04"N | 96°02'38"E |
| 22. | NL 25 | 27°23'05"N | 96°03'11"E |
| 23. | NL 26 | 27°24'22"N | 96°02'42"E |
| 24. | NL 27 | 27°24'23"N | 96°03'04"E |

#Actual geo-graphical surface coordinates of wells locations would be strictly within 500 m radius buffer from the proposed co-ordinates.

Annexure 4

The main issues raised during the public hearing and the action plan is as follows:

| S. No | Issue in brief | Action plan in brief | Budget allocated and timeline |
|--|--|---|--|
| Issue of public hearing during PH interaction | | | |
| 1. | Shri Lomlu Lungphi, GB, Longtam -II Village | | |
| | Local village people had to face problem due to damage of road as a result of flood. | We will collaborate with local authorities to assess the condition of the roads in the project affected villages and take action to maintain and repair. Our project will also allocate funds to improve the resilience of local infrastructure, including road repair works for the long-term well-being of the affected communities. | - |
| | GeoEnpro should bring development through the project and benefits must reach all the four project affected villages | GeoEnpro is committed to ensuring that this project contributes positively to the socio-economic development of the region. We plan to invest in infrastructure, healthcare, and education, while also creating employment opportunities, with priority given to local residents. We will ensure that and the project brings long-term, sustainable benefits to everyone in the affected communities. | Rs. 90 Lakhs has been allocated as a part of CER. |
| | We hope and believe that the company will look after the school education for children in the four affected villages | GeoEnpro is interested in supporting and improving school education in the project affected communities. As part of our social development initiatives, we will work closely with local authorities to enhance existing educational infrastructure, providing | Rs. 150 Lakhs has been allocated as a part of CER. |

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| | | resources such as learning materials and support for quality education. | |
| 2. | Shri Danglong Tonglim, GB Longtam – Village | | |
| | Till date no benefits has been given to the four affected villages. There are only 03 labourers from the land affected villages. For any benefits first preference should be given to four affected villages. | GeoEnpro is committed to prioritizing local employment and will ensure that the unskilled and semi-skilled job requirement for the project are filled by local residents. | - |
| | There is a water problem in the four affected villages and request the company to survey the problems faced by four project affected villages and redress the same. | GeoEnpro will work closely with local authorities to conduct a survey of the water availability and quality in each of the affected villages to assess the specific challenges being faced. Based on the findings, we will work closely with local authorities to implement solutions to water problems, such as improving water supply infrastructure, enhancing water storage facilities, and access to clean and safe drinking water. | - |
| 3. | Shri K.S.Lunphi, Public Leader, Injan Village | | |
| | Company should carry out development activities in the four project affected villages irrespective of the villages being under reserve or de reserve area. | GeoEnpro is committed to all the affected communities, regardless of their status, benefit from the development brought by this project. Our development initiatives, including infrastructure improvement, healthcare, education, and employment opportunities, will be implemented in all four | - |

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| | | villages. We will work closely with local authorities and community leaders to identify specific needs in each village for the benefits. | |
| | No person has been absorbed in jobs from the four project affected villages. | Company has employed 44 personnel from the local villages and from the Arunachal Pradesh State. GeoEnpro is committed to prioritizing local employment and will ensure that the unskilled and semi-skilled positions for the project are filled by local residents. | - |
| 4. | Shri Noklim Latam, public leader, kharsang | | |
| | I request the company to fulfill the demands put forward by the project affected villages. GeoEnpro made lots of promises, but failed to fulfill in toto. This should not be repeated. | We understand the importance of ensuring that the benefits of the project extend to all the affected villages. To this end, we will work closely with local leaders, community representatives, and relevant authorities to prioritize and fulfill the demands, including infrastructure improvements, employment opportunities, healthcare, and educational support. Our approach will be guided in transparent and fair manner. | - |
| | Power should be delegated to GeoEnpro operational office at kharsang to take decision in tender works for benefits of local people | GeoEnpro values local participation and is committed to ensuring that the communities surrounding the project are given priority in the tendering process. We will review the possibility of empowering the Kharsang office to make | |

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| | | decisions related to local tenders after reviewing company policies and procedures. | |
| | There are many educated youth in the areas. Officer jobs should be given to the youths of project affected area. | GeoEnpro is committed to prioritizing local employment and will ensure that 100% of the unskilled and semi-skilled positions for the project are filled by local residents. A letter in this context has already been published in SDO office Kharsang. | Rs. 150 Lakhs for education and skill base development program has been allotted as a part of CER. |
| | Local senior officer working in the company for long should be promoted and the vacancy should be filled by PRO from land affected villages | GeoEnpro values the contributions of all its employees and recognizes the importance of promoting individuals who have demonstrated dedication and long-term commitment to the company. Regarding the filling of vacancies, we will consider providing job opportunities to qualified individuals from the land-affected villages. | - |
| 5. | Shri Ngungsam Tech, General Secretary, self-employed association (SEA) | | |
| | The business of crude oil transportation should be given to unemployed youth and local contractors of kharsang area | We would like to clarify that the transportation of crude oil from the Kharsang Oil Field to the Digboi Refinery is managed by Oil India Limited as notified by Government of India and it is outside the scope of the Kharsang Oil Field PSC (Production Sharing Contract). As the operator of the Kharsang Oil Field, GeoEnpro does not have any influence over the transportation process. | - |

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| | | However, we shall intimate Oil India regarding the same. | |
| 6. | Shri Sanjay Kimsing, president, kharsang socio economic Development society | | |
| | <p>He presented a memorandum for entire kharsang area for proper implementation of CSR fund, formation of CSR committee, Business opportunity to the project affected village, authorization of cheque power upto 10 Lacs and for floating of tender and awarding of contract works by GeoEnpro kharsang Office, recruitment of local youths with 100% reservations for skilled, semi skilled, unskilled jobs, regularization and promotion of local employees, promotion of nutrition and child welfare and empowerment of women, school infrastructure support and scholarship for school students for JEE mains / IIT advance and NEET exams, scholarship for civil service aspirants, skill development and training programs, Apprenticeship programs, capacity building workshops, promotion of sports for youth and contribution towards relief and rehabilitation, skill development program for local un employed youth and school drop outs / ITI degree holders, Health</p> | <p>We will consider the points listed in the memorandum. GeoEnpro will establish a CSR Committee to oversee the proper allocation of funds, ensuring business opportunities for affected villages for transparent financial management. We will prioritize local employment to qualified and eligible personnel for skilled, semi-skilled, and unskilled jobs, as well as promote the regularization and career advancement of local employees. GeoEnpro will make all the efforts to honour and implement the point laid down in the memorandum submitted in a fair and comprehensive manner</p> | <p>Rs. 90 Lakhs has been allotted for the school infrastructure as a part of CER.</p> <p>Rs. 90 Lakhs has been allotted for the health care, promotion of nutrition and child welfare as a part of CER.</p> <p>Moreover GeoEnpro had deposited total Rs. 15,31,15,863 (Fifteen Crore Thirty One Lakh Fifteen Thousand Eight Hundred and Sixty three only) to Arunachal Pradesh Compensatory Afforestation Fund Management and Planning Authority (CAMPA) for compensatory afforestation.</p> |

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| | <p>care centre with competent medical professionals, lab test facilities, free ambulance service and health awareness camp, upgradation of present health care centre with more specialist doctor and modern diagnostic equipment, Deaddiction centre for drug addict , compensatory afforestation, sludges of drilling waste should not be disposed untreated into natural environment , ground water monitoring on monthly basis, company should have advanced accident prevention and monitoring system, providing funding to local artisans, small business owners, sponsor local festivals, event and community celebration, allocation of village development fund, Routine maintenance and Namphuk nala bridge, appointment of Public Relation Officer</p> | | |
| <p>7. Shri Samson Ngemu , President, Tangsa Youth Association</p> | | | |
| | <p>There is a concern of death of fishes due to presence of oil in the Namphuk Nalla river. The fish from Namphuk Nalla when eaten boiled gives oily smell.</p> | <p>GeoEnpro takes the concerns regarding the contamination of Namphuk Nala and its fish population very seriously. To address these concerns, we have tested the water samples from the area in question through an NABL-approved laboratory, and the results indicate that all the parameters of river</p> | <p>-</p> |

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| | | <p>water including oil & grease are within the specified permissible limits. We also want to highlight that there is no seepage of oil & grease in river. We also regularly monitor the probable drain leading to Namphuk Nala for any potential oil contamination, and no issues have been detected so far. We will continue to monitor the river water quality regularly and work with the local authorities to ensure the health of the water and aquatic life is protected.</p> | |
| | <p>I suggest the project proponent to conduct training workshops for the unemployed project affected youths and thereafter absorbed by the company.</p> | <p>We understand the importance of skill development for the local workforce. To support this, GeoEnpro will implement internship and training programs aimed at developing skilled local personnel, enabling them to qualify for higher-skilled positions in the future. In this regard application for internship programme for skill development of educated technical graduates has been invited through local administration</p> | <p>Rs. 150 Lakhs for education and skill base development program has been allotted as a part of CER.</p> |
| | <p>I suggest formation of CSR committee to oversee the implementation of CSR activities in transparent way.</p> | <p>We appreciate the suggestion regarding the formation of a CSR committee. GeoEnpro is committed to fostering transparency and ensuring that the local community benefits from the company's operations. In response to this suggestion, we will take the necessary steps</p> | <p>A budget of Rs. 360 Lakhs has been allocated as part of CER.</p> |

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| | | to form a CSR committee, which can coordinate with the local community representatives for better implementation of CSR projects. | |
| 8. | Shri Sambo Changmi, President, Kharsang Circle unemployed youth Association (KCUYA) | | |
| | All the demands put forwarded by local public has been put forth in the memorandum. This memorandum must be signed with representatives of local project affected villages with project proponent in witness of District Administration within 2 months | GeoEnpro acknowledges the demands put forward by the local village community in the memorandum during the Environmental Public Hearing. We understand the importance of addressing these concerns and we will work closely with the representatives of the affected villages. To ensure transparency and accountability, we agree to formalize the memorandum to oversee that all commitments are adhered to for the benefit of the local population. | - |
| 9. | Shri Chatu Longri, Kharsang | | |
| | Benefits to the locals to be provided as per prevailing rule so that there is no misunderstanding between immediate project affected families and general project affected families | GeoEnpro will consult local administration and ensure that all benefits are provided in accordance with prevailing rules and regulations to maintain fairness and transparency to both immediate project affected families and general project affected families. | - |
| | Emergency Response Plan (ERP) should be put in place to tackle any | GeoEnpro has developed an comprehensive ERP for the proposed drilling project This plan will | Rs. 2 Lakhs as capital cost and Rs. 2 Lakhs per annum as recurring cost. |

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| | untoward incidents in the project affected villages | outline clear procedures for responding to emergencies, ensure quick coordination with local authorities, and provide necessary resources such as trained personnel, equipment, and communication systems. Our goal is to complete the project in a safer manner and to ensure the safety and well-being of the local communities. | |
| | The road connecting SDO office to GeoEnpro campus is in a dilapidated condition since many years. This road should be properly maintained and looked after by the company. | We would like to inform the local community that the road repair work has already commenced under our CSR initiatives. The repair job is progressing as planned and is expected to be completed within approximately 4 months. | GeoEnpro allocated a budget of 45 lakhs for the repair of road. (Approximately Rs. 10 Lakhs is already spent till date). |
| | Fourth grade jobs like barber, washerman and cobblers etc. should be recruited from the people residing in kharsang village | We are interested in prioritizing local employment and will make every effort to recruit individuals from Kharsang village for these roles, in line with our policy of supporting the local community. These opportunities will be made available to qualified candidates, ensuring that local residents benefit directly from the employment opportunities created by the project. | - |
| 10. | Smt. Boonhap Zongsam Yanchang, Zilla Parishad Member, Kharsang | | |
| | For long term goal the company should work alongside with the local people. | GeoEnpro acknowledges the demands put forward by the local village community in the | - |

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| <p>A memorandum of Understanding must be signed with representatives of local project affected villages with project proponent in witness of District Administration within 2 months</p> | <p>memorandum during the Environmental Public Hearing. We understand the importance of addressing these concerns and we will work closely with the representatives of the affected villages. To ensure transparency and accountability, we agree to formalize the memorandum to oversee that all commitments are adhered to for the benefit of the local population.</p> | |
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Annexure 5

Capital cost EMP Budget for Pre-Drilling & drilling Activity per well:

| S. No. | Particular | Approx. Budget/ Well Drilling (INR) in Lakhs. |
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| 1 | Air Quality Monitoring | 12.00 |
| | Air Quality Management | 0.50 |
| 2. | Noise and Vibration Mitigation (Acoustic Enclosure and Personal Protective Equipment) | 2.50 |
| | Noise Monitoring | 3.0 |
| | Maintenance cost of equipment | 0.50 |
| 3. | Wastewater and effluent Management <input type="checkbox"/> Mobile STP on rent <input type="checkbox"/> Mobile ETP on rent | 3.00 |
| | Water Quality Monitoring (SW + GW + WW) | 2.32 |
| | Soil Quality Monitoring | 0.72 |
| 4. | Hazardous Waste Management | 2.00 |
| 6. | Occupational Health & Safety (Training, Awareness in public and PPE's) | 5.50 |
| 7. | Miscellaneous | 5.00 |
| Total | | 37.04 |

EMP Budget during Production (each Production Unit/ OCS):

| S. No. | Particular | Capital Budget in Lakhs. | Recurring Cost in Lakhs/ Annum as per EAC presentation 09.01.2025 |
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| 1. | Air Quality Monitoring (Ambient & Stack) | 0.000 | 15.000 |
| | Air Quality Management | 0.000 | 10.000 |
| 2. | Noise Monitoring | 0.000 | 2.0000 |
| | Maintenance cost of equipment | 0.000 | 0.500 |
| 3. | Wastewater and effluent Management | 1.000 | 5.000 |
| | Water Quality Monitoring (SW + GW + WW) | 0.000 | 8.000 |
| 4. | Soil Quality Monitoring | 0.000 | 4.320 |
| 5. | Hazardous Waste Management | 1.000 | 0.500 |
| 6. | Occupational Health & Safety (Training, Awareness in public and PPE's) | 2.000 | 2.000 |
| 7. | Plantation & Afforestation | 5.000 | 2.000 |
| 8. | Wildlife Conservation | 133.552 | 4.000 |
| 9. | Miscellaneous | 6.000 | 0.000 |
| | Total | 148.552 | 53.32 |

Details of Extended EMP with proposed activities and budgetary allocation:

| S. No. | Particular | Description | Year wise Budget (In Lakhs) | | | | | Total in Lakhs |
|--------|----------------|---|-----------------------------|----|----|----|----|----------------|
| | | | 1 | 2 | 3 | 4 | 5 | |
| 1. | Infrastructure | Contribution in construction of facility in Health care and school, etc. | 35 | 35 | 35 | 35 | 46 | 186 |
| 2. | Health | <input type="checkbox"/> Up gradation of Existing Hospital and/or Aarogya Kendra, Organize free health medical check-up, eye camp, blood donation camp. Provide first aid box and training. <input type="checkbox"/> Health care, promotion of nutrition and child welfare | 20 | 20 | 20 | 20 | 20 | 100 |
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| 3. | Environment | Promoting main crops/ horticultural plantation & production by distributing seeds/ saplings and organic fertilizer & Tree plantation activity | 10 | 5 | 5 | 5 | 5 | 30 |
| 4. | Education | <input type="checkbox"/> Necessary equipments and Kits distribution in shools/ Pre-primary schools. <input type="checkbox"/> Training and workshops for youths, women empowerment. <input type="checkbox"/> Skill and business development program | 30 | 30 | 30 | 30 | 30 | 150 |
| | | | 20 | 20 | 20 | 20 | 30 | 110 |
| | | Total | 115 | 110 | 110 | 110 | 131 | 576 |

