

GAIL (India) Ltd
24/10

F. No. 10-33/2010-IA.III
Government of India
Ministry of Environment & Forests
(IA Division)

Paryavaran Bhawan,
CGO Complex, Lodhi Road,
New Delhi - 110 003.

Dated: 19 October 2011

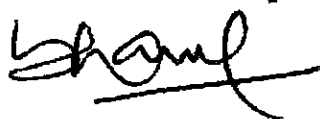
To,

M/s Gail India Ltd
16, Bikaji Cama Place
R.K Puram, New Delhi-110 066

Subject: Environment and CRZ clearance for laying Kochi-Kayankulam subsea pipeline project to transport R-LNG from PLL, LNG terminal, Vyapeen, Kochi to NTPC, Kayankulam, Kerala by GAIL (India) Ltd -Reg..

This has reference to letter No:GAIL/PD-PL/ND/KKPL/EIA/2 dated 24.01.2011 seeking prior Environmental and CRZ Clearance for the above project under the EIA Notification - 2006 and its amendments and Coastal Regulation Zone (CRZ) Notification, 2011. The proposal has been appraised as per prescribed procedure in the light of provisions under the EIA Notification - 2006 and Coastal Regulation Zone Notification, 1991/2011 on the basis of the mandatory documents enclosed with the application viz., the Questionnaire, recommendation of State Coastal Zone Management Authority, EIA, EMP and the additional clarifications furnished in response to the observations of the Expert Appraisal Committee constituted by the competent authority in its meeting held on 17th -19th August, 2011.

2. It is interalia, noted that the proposal involves for laying Kochi-Kayankulam subsea pipeline to transport re-gasified LNG from proposed PLL LNG re-gasification terminal at Vyapeen Kochi to NTPC, Kayamkulam, Kerala. NTPC has planned to setup a 1050 MW gas based power plant at Kayamkulam for which GAIL has to supply R-LNG from PLL terminal at Kochi. The pipeline will be laid from GAIL terminal in the vicinity of nearby area of PLL terminal for around 1.2 km onshore and thereafter it will take offshore route to Kayankulam. The coordinate for the LFP-1 at starting point from PLL LNG terminal Vyapeen is Latitude 9' 58" 54.9 N Longitude 76' 13" 20.59 E and LFP-2 at end point of NTPC Kayamkulam is latitude 9' 14" 18.9 N and Longitude 76' 24" 57.52 E. Pipeline from dispatch terminal at Kochi is aligned westwards toward Vyapeen seashore and is located onshore. It crosses the shore approach area up to a water depth of (-)30 to (-)35 meter and then southward. Pipeline then runs parallel to the shore up to Kayamkulam. It then turns



eastward till Kayamkulam coast. Beyond coast line the pipeline continues in the same direction till it reaches NPTC-Kayamkulam Power Plant. Pipeline length is estimated to be 93.5 km (based on desk top study). Out of this length on-shore portion in each coast is approx. 3.5 km and balance is located onshore (including 2.0 km HDD to cross Kochi shipping channel). The Kayamkulam LFP will further traverse through the National Waterways - III to NTPC. The total cost of the project is Rs. 906.44 Crores.

3. The proposal was examined by the EAC in its 89th meeting held on 21st -23rd July 2010 and the Committee finalized the additional TOR for further study. Public Hearing was conducted on 20.12.2010. The Kerala CZMA has recommended the project vide letter No. 965/A2/10/KCZMA dated 13.01.2011.

4. The Expert Appraisal Committee, after due consideration of the relevant documents submitted by the project proponent and additional clarifications furnished in response to its observations, have recommended for the grant of Environmental and CRZ Clearance for the project. Accordingly, the Ministry hereby accord necessary Environmental Clearance for the above project as per the provisions of Environmental Impact Assessment Notification - 2006 and Coastal Regulation Zone Notification, 2011, subject to strict compliance of the terms and conditions as follows:

5. **SPECIFIC CONDITIONS :**

- (i) "Consent for Establishment" shall be obtained from State Pollution Control Board under Air and Water Act and a copy shall be submitted to the Ministry before start of any construction work at the site.
- (ii) Necessary Safety measures shall be incorporated conforming to the standards. Real time Leak detection system integrated with SCADA system shall monitor and control the pipeline system. Any leakage in the pipeline shall be immediately detected by the Computer system and product pumping shall be immediately cut off.
- (iii) It shall be ensure that the proposed activity shall not cause any disturbance to the Fishing activity.
- (iv) All stake holders including fishermen in the vicinity shall be educated about the project and the details of the control measures and do and don'ts/ precautions to be taken in case of leakages.



- (v) All Necessary Clearance/NOC shall be obtained before the commencement of the work as applicable
- (vi) Regular patrolling of the pipelines needs to be done. This will help in identifying any activity that have the potential to cause pipeline damage or to identify small leaks whose effects are too small to be detected by instrument.
- (vii) All the recommendation of the EMP, DMP shall be complied with letter and spirit.
- (viii) Markers should be installed at regular interval to indicate the position of the pipe line.
- (ix) No construction work other than those permitted in Coastal Regulation Zone Notification shall be carried out in Coastal Regulation Zone area.
- (x) The project proponent shall set up separate environmental management cell for effective implementation of the stipulated environmental safeguards under the supervision of a Senior Executive.
- (xi) The funds earmarked for environment management plan shall be included in the budget and this shall not be diverted for any other purposes.

6. GENERAL CONDITIONS:

- (i) Appropriate measures must be taken while undertaking digging activities to avoid any likely degradation of water quality.
- (ii) Full support shall be extended to the officers of this Ministry/Regional Office at Bengaluru by the project proponent during inspection of the project for monitoring purposes by furnishing full details and action plan including action taken reports in respect of mitigation measures and other environmental protection activities.
- (iii) A six-Monthly monitoring report shall need to be submitted by the project proponents to the Regional Office of this Ministry at Bengaluru regarding the implementation of the stipulated conditions.
- (iv) Ministry of Environment & Forests or any other competent authority may stipulate any additional conditions or modify the

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existing ones, if necessary in the interest of environment and the same shall be complied with.

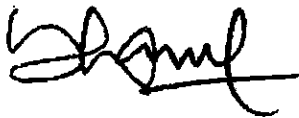
- (v) The Ministry reserves the right to revoke this clearance if any of the conditions stipulated are not complied with the satisfaction of the Ministry.
- (vi) In the event of a change in project profile or change in the implementation agency, a fresh reference shall be made to the Ministry of Environment and Forests.
- (vii) The project proponents 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 land development work.
- (viii) A copy of the clearance letter shall be marked to concerned Panchayat/local NGO, if any, from whom any suggestion/representation has been made received while processing the proposal.
- (ix) State Pollution Control Board shall display a copy of the clearance letter at the Regional Office, District Industries Center and Collector's Office/Tehsildar's office for 30 days.

7. These stipulations would be enforced among others under the provisions of Water (Prevention and Control of Pollution) Act 1974, the Air (Prevention and Control of Pollution) Act 1981, the Environment (Protection) Act, 1986, the Public Liability (Insurance) Act, 1991 and EIA Notification 1994, including the amendments and rules made thereafter.

8. All other statutory clearances such as the approvals for storage of diesel from Chief Controller of Explosives, Fire Department, Civil Aviation Department, Forest Conservation Act, 1980 and Wildlife (Protection) Act, 1972 etc. shall be obtained, as applicable by project proponents from the respective competent authorities.

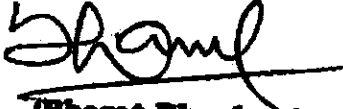
9. The project proponent shall advertise in at least two local Newspapers widely circulated in the region, one of which shall be in the vernacular language informing that the project has been accorded Environmental Clearance and copies of clearance letters are available with the State Pollution Control Board and may also be seen on the website of the Ministry of Environment and Forests at <http://www.envfor.nic.in>. The advertisement should be made within 10 days from the date of receipt of the Clearance letter and a copy of the same should be forwarded to the Regional office of this Ministry at Bangalore.

10. Environmental clearance is subject to final order of the Hon'ble Supreme Court of India in the matter of Goa Foundation Vs. Union of



India in Writ Petition (Civil) No.460 of 2004 as may be applicable to this project.

11. Status of compliance to the various stipulated environmental conditions and environmental safeguards will be uploaded by the project proponent in its website.
12. A copy of the clearance letter shall be sent by the 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. The clearance letter shall also be put on the website of the company by the proponent.
13. The proponent shall upload the status of compliance of the stipulated EC conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the Regional Office of MoEF, the respective Zonal Office of CPCB and the SPCB.
14. The environmental statement for each financial year ending 31st March in Form-V as is mandated to be submitted by the project proponent 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 EC conditions and shall also be sent to the respective Regional Offices of MoEF by e-mail.


(Bharat Bhushan)
Director (IA-III)
(9.10.2011)

Copy to:

1. The Secretary, Department of Environment & Forests, Government of Kerala, Kerala State Coastal Zone Management Authority, Sashtra Bhawan, Pattom, Thiruvananthapuram - 4.
2. The Chairman, Central Pollution Control Board, Parivesh Bhavan, CBD-cum- Office Complex, East Arjun Nagar, Delhi - 110 032.
3. The Chairman, Kerala Coastal Zone Management Authority, Science & Technology (A) Department, Sashtra Bhavan, Pattom, Thiruvananthapuram.
The C.C.F., Regional Office (SZ), Ministry of Environment & Forests, Kendriya Sadan, IV Floor, Environment & Forests Wings, Office (SZ), 7th Main Road, II Block, Koramangala, Bangalore - 560 034.
4. The Chairman, Kerala State Pollution Control Board, Plamoodu Junction, Pattom Palace, Trivandrum 695004, Kerala
5. Director (EI), Ministry of Environment and Forests.