

F.No.11-21/2015-IA-III
Government of India
Ministry of Environment, Forest & Climate Change
(IA.III Section)

Indira Paryavaran Bhawan,
Jor Bagh Road,
New Delhi - 3

Dated: 27th November, 2015

To

The Chief Executive Officer,
M/s Kochi Salem Pipeline Private Limited,
3rd Floor, BPCL Kochi Refinery City Office,
Kundannoor, Maradu,
Kochi - 682 304 (Kerala)

Subject: 'Laying of LPG Pipeline' from Puthuvypeen import terminal to Kochi refinery in Kerala by M/s Kochi Salem Pipeline Private Limited - CRZ Clearance - reg.

This has reference to your application submitted the above mentioned proposal to this Ministry for grant of CRZ Clearance in term of the provisions of the Coastal Regulation Zone (CRZ) Notification, 2011 under the Environment (Protection), Act, 1986.

2. The proposal for **'Laying of LPG Pipeline' from Puthuvypeen import terminal to Kochi refinery in Kerala by M/s Kochi Salem Pipeline Private Limited** was considered by the Expert Appraisal Committee (EAC) in the Ministry for Infrastructure Development, Coastal Regulation Zone, Building/ Construction and Miscellaneous projects, in its meeting held on 29th - 31st July, 2015.

3. The details of the project, as per the documents submitted by the project proponents (PP), and also as informed during the above said EAC meeting, are reported to be as under:-

(i) The present proposal is for laying a LPG Pipeline from Puthuvypeen import terminal to Kochi refinery through a closed system at Puthuvypeen (Kerala) by M/s Kochi Salem Pipeline Private Limited. The subject pipeline from Puthuvypeen to Kochi Refinery will be executed by Kochi Salem Pipeline Private Limited (KSPPL), a joint venture formed between Bharat Petroleum Corporation Limited and Indian Oil Corporation Limited with 50-50 participation from each.

(ii) The Indian Oil Corporation Limited was accorded Environmental Clearance vide letter No. 11-21/2010-IA-III dated 05.07.2010 for establishment of LPG Import Terminal at Puthuvypeen for which In order to transport the LPG so received at the Import Terminal, a 12"dia 42 kms long cross country pipeline is envisaged from Import Terminal to Kochi Refinery, where it will join with the pipeline proposed from Kochi Refinery to Kerala Border for which Environmental Clearance was received vide letter No.J-11011/396/2012-IA II(I) dated 03.07.2015.

(iii) This is a cross country pipeline of 12"dia, 42 km long with dispatch facility at Puthuvypeen and receipt facility at Kochi refinery starting from Puthuvypeen import terminal and terminating at Kochi refinery. The pipeline will be laid along NH-47C and road under CPT, ROU of 10 meter wide ROU from Kalamassery to Kochi refinery. The pipeline passes through CRZ-IA (2244 m), CRZ IB (464 m), CRZ-III

(8488 m) & CRZ-IVA (1400 m) in small stretches. Three number of Sectionalising Valve stations will be constructed along the pipeline route. Out of the three only one station will be falling within the CRZ Zone. Pipeline passing through CRZ-I area in 6 patches in Puthuvypeen, Mulavucadu and Eloor villages for a total length of 2244 m.

(iv) The dispatch facility for the pipeline is planned in IOC import terminal. In case of pipeline, alignment selection is passing primarily along road and balance length passing through existing pipeline ROU of GAIL. Therefore no tree felling is required.

(v) No land use change is envisaged at import facility or along the pipeline route. The land use change along the pipeline will be temporary and will be brought back to its normal state after laying of the pipeline.

(vi) Solid will be excavated for making trenches and the same will be replaced after lowering the pipes. Topsoil and subsoil will be stored separately during excavation. Construction materials will be procured from approved and licensed quarries only.

(vii) The design of the pipeline takes care of earthquakes. Pipeline and associated facilities shall be constructed in accordance with ASME B 31.4 and other applicable API standards. Therefore the chances of the pipeline getting affected through natural calamities are very remote.

(viii) Water bodies will be crossed by way of HDD without affecting flow of water and flora fauna. One number of sectionalising valve station will be constructed each at Ch 10.7 km, 21.3 km & 32.00 km in a plot size of 50 m x 50 m after acquiring the land.

(ix) No additional transport infrastructure will be required at the existing LPG import facility. LPG pipeline mostly will run along the existing SHs and NHs and rest through existing ROU. Only ROU will be acquired for laying pipeline.

(x) Major quantity of water to the tune of 4000 KL is required for testing & commissioning which will be arranged from Kochi Refinery.

(xi) Power required at dispatch and receipt terminal will be taken from IOC import terminal and Kochi refinery respectively. The requirement of operating power is (a) Import Terminal - 1000 kVA @ 11 kV and (b) Kochi Refinery RT- 2500 kVA @ 6.6 kV. For construction of pipeline, generators will be used.

(xii) LPG is transported through a closed system with all safety features i.e. (a) SCADA and PLC – based instrumentation & control system (b) suitable leak detection and APPS System for the pipeline; and (c) facilities like cathodic protection system, telecommunication system, CCTV System and video conferencing etc.

(xiii) In the receipt and dispatch stations the following facilities are provided:-

- (a) Various types of fire protection systems vz. Fire Water Storage & Fire Water Pump, Fire hydrant and Monitor System.
- (b) Automatic Medium Velocity Water Spray System.
- (c) Automatic Fire Detection-cum-Alarm System.
- (d) Portable Fire Extinguishers.
- (e) Puthuvypeen dispatch facilities are tap off facility from MSV at CLIT Puthuvypeen of IOCL – CLIT, 2 LPG pump house and substation cum control room (OISD 173,163).

(xiv) Installation of pipeline in trenches are Trench size (750 mm), Trench depth (1600 mm), Pipeline soil cover (1200 mm (min)), No affect on flora & fauna, 15 Nos of HDD planned in CRZ area, Pipeline length is 42 km, 4 Nos. of Railway Crossing, 3 Nos. of NH Crossing, 1 No. of SH Crossing, 4 Nos. of Major River Crossing, 12 Nos. of Minor River Crossing and not passing in Forest land.

(xv) **SCZMA Recommendation:** The Kerala Coastal Zone Management Authority (KCZMA) has recommended the project vide letter No. 4006/A2/14/KCZMA/ S&TD dated 16.01.2015.

(xvi) **Investment/Cost:** The estimated cost of the project is Rs.124.85 Crores and has to be completed in synchronization with Puthuvypeen Import Terminal.

(xvii) **Wildlife issues:** There are no ecological landscapes, cultural or other related sensitive areas around the project site. There are no National Parks, Sanctuaries in the near vicinity of proposed project site. There are no protected or sensitive species of flora and fauna along the pipeline route.

(xviii) **Benefits of the project:** Project will enhance the availability of LPG in the region, thus improve the living conditions of the people. Project will reduce the traffic load on roads in the region. Reduce the movement and risk of transportation of LPG by road.

4. The EAC, after detailed deliberations, has recommended the project in its 150th meeting held on 29 – 31 July, 2015 for grant of CRZ Clearance to the project. As per the recommendations of EAC, the Ministry of Environment, Forest & Climate Change hereby accords CRZ Clearance to the above-mentioned project '**Laying of LPG Pipeline' from Puthuvypeen import terminal to Kochi refinery in Kerala by M/s Kochi Salem Pipeline Private Limited**, under the provisions of the CRZ Notification, 2011 and amendments thereto and circulars issued thereon and subject to the compliance of the following specific and general conditions:

A. SPECIFIC CONDITIONS:

- (i) 'Consent to Establish' shall be obtained from State Pollution Control Board under the Air (Prevention and Control of Pollution) Act, 1981 and the Water (Prevention and Control of Pollution) Act, 1974.
- (ii) All the conditions/recommendations stipulated by KCZMA vide letter no. 4006/A2/14/KCZMA/ S&TD dated 16.01.2015, shall be complied with.
- (iii) The PP shall take all the precautions committed under the Environment Management Plan and earlier clearances.
- (iv) While laying pipeline, there shall be no disturbance of any mangrove area.
- (v) There shall be regular pigging to monitor the health of pipeline and to keep it clean.
- (vi) Horizontal Directional Drilling (HDD) method shall be used to lay pipeline, as committed.
- (vii) The smooth and safe operation of the system shall be ensured by incorporating a computerized SCADA (Supervisory Control And Data Automation) system. Any leakage in the pipeline shall be immediately detected by the Computer system and product pumping shall be immediately cut off.
- (viii) Project Proponent shall obtain all required statutory clearances as applicable.
- (ix) Norms of Oil Industries Safety Directorate (OISD) shall be followed in respect of storage and transport of LPG.
- (x) Oil Spill Contingency Management Plan shall be put in place.
- (xi) Necessary signages shall be installed in both English and local languages wherever the pipeline is passing.

- (xii) All the recommendations of EIA and Disaster Management Plan shall be strictly complied with.
- (xiii) All kinds of safety precautions shall be taken to avoid any sort of accidents during handling of equipments and laying of pipeline. Emergency medical service shall be provided.

B. GENERAL CONDITIONS:

- (i) A six-Monthly monitoring report shall need to be submitted by the project proponents to the Regional Office of this Ministry at Bangalore regarding the implementation of the stipulated conditions.
- (ii) Ministry of Environment, Forest & Climate Change or any other competent authority may stipulate any additional conditions or modify the existing ones, if necessary in the interest of environment and the same shall be complied with.
- (iii) The Ministry reserves the right to revoke this clearance if any of the conditions stipulated are not complied with the satisfaction of the Ministry.
- (iv) 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, Forest & Climate Change.
- (v) 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.
- (vi) 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.
- (vii) Safety provision such as bus bays, service roads intersection improvement etc., will be carried out by the project proponent. The project proponent shall provide adequate facilities as per IRC norms/guidelines.
- (viii) The funds earmarked for environmental protection measures shall be kept in separate account and shall not be diverted for other purpose. Year-wise expenditure shall be reported to this Ministry and its concerned Regional Office.
- (ix) A copy of the CRZ Clearance letter shall also be displayed on the website of the concerned State Pollution Control Board. The Clearance letter shall also be displayed at the Regional Office, District Industries centre and Collector's Office/ Tehsildar's office for 30 days.

5. 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, 2006, including the amendments and rules made thereafter.

6. All other statutory clearances such as the approvals for storage of diesel from Chief Controller of Explosives, Fire Department, Civil Aviation Department, Forest

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Conservation Act, 1980 and Wildlife (Protection) Act, 1972 etc. shall be obtained, as applicable by project proponents from the respective competent authorities.

7. 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 CRZ 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, Forest & Climate Change at <http://www.envfor.nic.in>. The advertisement should be made within Seven 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.

8. This 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.

9. Status of compliance to the various stipulated environmental conditions and environmental safeguards will be uploaded by the project proponent in its website.

10. The project proponent shall also submit six monthly reports on the status of compliance of the stipulated 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 the SPCB.

11. 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 Clearance conditions and shall also be sent to the respective Regional Offices of MoEF&CC by e-mail.

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27/11/2015
(S.K. Srivastava)
Scientist E

Copy to:

1. The Secretary, Department of Environment, Government of Kerala, Thiruvananthapuram
2. The Chairman, Central Pollution Control Board, Parivesh Bhawan, CBD-cum-Office Complex, East Arjun Nagar, Delhi-32
3. The Member Secretary, Kerala State Pollution Control Board, Palamoodu Junction, Pattom Place, P.O. Thiruvananthapuram - 04
4. Additional Principal Chief Conservator of Forests (C), Ministry of Environment, Forests and Climate Change, Regional Office (SZ), Kendriya Sadan, 4th Floor, E&F Wing, 17th Main Road, Koramangala II Block, Bangalore - 34
5. IA - Division, Monitoring Cell, MoEF, New Delhi - 3
6. Guard file

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