PROPOSED 12”, 42 KM LPG PIPELINE FROM IMPORT TERMINAL TO KOCHI REFINERY

Kochi Salem Pipeline Private Limited, a joint venture of Indian Oil Corporation Limited and Bharat Petroleum Corporation Limited has envisaged a 12” dia. 42 Km LPG pipeline from Puthuvypeen to Kochi Refinery where it will be connected to the proposed pipeline from Kochi Refinery to Kerala Border connecting Udhayamperoor Terminal. The environment clearance for laying the pipeline from Kochi refinery to Kerala Border connecting Udhayamperoor is obtained vide letter F. No J-11011/396/2012-IA II (I) and a copy of the same is enclosed herein with the application. With respect to the pipeline from Puthuvypeen to Kochi Refinery we had submitted application vide letter REF/BPCL/Kochi/KCZMA/01 dated 06.08.2014 for CRZ Clearance as it was involving CRZ-IA (2244 m), CRZ IB (464 m), CRZ III (8488 m), CRZ IVA(1400 m) and construction of one valve station in the CRZ area. Both the state expert committee and the central MoEF&CC Expert Committee scrutinized the proposal and accorded the CRZ clearance vide their letter F. No 11-21/2015-IA-III dated 27/11/2015. A copy of the same is enclosed for your kind perusal.

While scrutinizing the proposal for CRZ clearance the expert committee has evaluated the total proposal comprehensively from the environment point of view. We further wish to clarify that apart from the CRZ length of 12596 m there are no other eco-sensitive zones. In the above context, we request the said proposal be exempted from the purview of Terms of Reference and considered for accordance of Environment clearance directly.
F. No. J-11011/396/2012- IA II (I)
Government of India
Ministry of Environment, Forest and Climate Change
(I.A. Division)

Indira Paryavaran Bhawan
Aliganj, Jorbagh Road,
New Delhi -110003

E-mail : lk.bokolia@nic.in
Telefax : 011-24695313
Dated 3rd July, 2015

To,
Shri C. Narayanan
Chief Manager Engg.(Pipeline Projects)
M/s Bharat Petroleum Corp. Ltd.
Plot A 5&6,SECTOR-1, Noida 201 301

E-mail: narayanan@bharatpetroleum.in ; Fax No.- 97-2717-661106

Subject: Proposed LPG Pipeline (199 Km) from Kochi Refinery to Kerala Border (near Pallakkad) at District Ernakulam, Kerala by M/s BPCL - Environmental Clearance reg.

Ref.: Your letter no. REF/KCL/MoEF/02 dated 5th September, 2014.

Sir,

This reference to your letter dated 5th September, 2014 alongwith project documents including Form I, Terms of References, Pre-feasibility Report, EIA/EMP Report, public hearing report and subsequent submission of additional information vide letters dated 1st December, 2014 and 25th March, 2015 regarding above mentioned project.

2.0 The Ministry of Environment, Forest and Climate Change has examined the application. It is noted that proposal is for laying of LPG Pipeline from Kochi Refinery to Coimbatore at District Ernakulam, Kerala by M/s BPCL. Pipeline passes through different districts of Kerala (approx. 199 Km) and Tamil Nadu (approx. 39 Km) between take off and terminal point. Transportation of LPG gas through underground pipeline to the bottling terminals. Transportation and distribution of max. 1.53 MMTPA (including 25% additional requirement as per regulations) of LPG from Kochi Refinery to Coimbatore. The flow-rate of LPG will be 328 m³/h. Length of the 12” NB pipeline between takeoff and terminal point of proposed pipeline is 238 km. there will be 3 Nos. mounded storage vessels of capacity 2000 MT each (total 6000 MT) at Coimbatore. Installation of LPG loading facility shall be at Coimbatore. The proposed pipeline passes through various forest stretch for total 1.285 km length in Thrissur district of Kerala state which comprises of reserved forest (Eucalyptus plantation), Kodumbankunnun Reserved Forest and Reserved Forest (Fairly Dense Mixed Jungle) for the length of 0.385 km, 0.368 km & 0.532 km length respectively. The pipeline route acquired total area in forest land is 12849.10 sq. m i.e. 1.2849 ha. BPCL has already obtained for clearance of forest land and stage -1 clearance vide MoEF letter no. 4-KLB998/2014-BAN/4768 dated 31st January, 2014 for diversion of 1.441 ha of forest land. BPCL has also applied for wildlife board clearance as the project is passing at about 5.3 Km distance of Peechi-Vazhani Wildlife Sanctuary. Total cost of project is Rs. 623 Crore. Following facilities to be created:
i. Dispatch terminal at Kochi Refinery with pumping capacity vary from 0.5 MMTPA to 1.53 MMTPA.

ii. Laying 12" dia pipeline, approx. 238 Km, long from KRL, Ambalmugal, Kochi terminal to BPCL's proposed new LPG loading gantry/bottling plant at Coimbatore, Tamil Nadu.

iii. Installation of 3 Tap off points from mainline along with connectivity by pipeline to (i) IOCL's bottling plant, Udayapore, near Kochi Refinery (ii) HPCL's LPG Bottling plant located near Kanjikode, Palaghat in Kerala (near SV-19, Ch 182 Km) and (iii) IOCL's bottling plant at Coimbatore in Tamil Nadu.

iv. Intermediate Pigging Station shall consist of Scrapper Launcher & Scrapper Receiver and Flare System.

3.0 M/s BPCL vide letter E&P.CCPL.MoEF.1 dated 5th March, 2015 has informed that they have approached Tamil Nadu Pollution Control Board for expediting the public hearing. However, they were given to understand that unless they get a formal direction from Tamil Nadu Government about laying of cross country pipelines, which is a policy matter of the Government, they will not in a position to allot public hearing date. Since they were uncertain about when the issue will be cleared by Tamil Nadu Government. BPCL has started looking for alternate land close to Kerala/Tamil Nadu Border and was able to locate one in the Industrial Estate at Kanchikode, Palakkad, Kerala so as to meet its urgent requirement of evacuation of additional LPG post KR expansion which is progressing on schedule. Now, BPCL has requested for reconsideration of EC proposal delinking Tamil Nadu portion. Tamil Nadu portion of the line will be taken up as when we receive clearance from the Government about the routing of the pipeline.

4.0 Pipeline crosses various rivers namely Periyar, Chalakudi, Manali, Mangalam, Gayatri, Kannadi, Koraiyar, Valayar & Kummattipatti. For crossing the major rivers, pipeline shall be installed 2.5 m below scour depth. The pipeline shall be laid underground with minimum 1.2 m cover in normal stretches, additional cover, wherever required, shall be provided depending upon the type of crossings and as per statutory requirements. Stack height and acoustic enclosure for DG will be provided as per CPCB guidelines.

5.0 Public hearing/consultation was conducted by the Kerala State Pollution Control Board on 18.04.2014 for Thrissur District; on 21.05.2014 for Palakkad District; on 22.05.2014 for Kakanad, Kochi District.

6.0 Oil and Gas transportation pipeline (crude and refinery/petrochemical products), passing through national parks/sanctuaries/coral reefs/ ecologically sensitive areas including LNG Terminal is listed at S.N. 6(a) under category 'A' and appraised at Central level.

7.0 The proposal was considered by the Expert Appraisal Committee (Industry) in its 10th, 24th and 38th meetings held during 29th – 31st July, 2013, 29th – 30th September, 2014 and 20th-21st April, 2015 respectively. Project Proponent and the EIA Consultant namely MECON Limited have presented EIA / EMP report as per the TOR. EAC has found the EIA / EMP Report and additional information to be satisfactory and in full consonance with the presented TORs. The Committee recommended the proposal for environmental clearance.

8.0 Based on the information submitted by the project proponent, the Ministry of Environment and Forest hereby accords environmental clearance to above project under
the provisions of EIA Notification dated 14th September 2006, subject to the compliance of the following Specific and General Conditions:

A. SPECIFIC CONDITIONS:

i) Environmental Clearance has been granted for laying of LPG pipeline (199 Km) for Kerala State. In future, in case of change in the scope of the project, a fresh reference shall be made to the Ministry to assess the adequacy of conditions imposed and to add additional environmental protection measures required, if any.

ii) Prior clearance under the Wildlife (Protection) Act, 1972, shall be obtained from the Standing Committee of the National Board for Wildlife as the pipeline project passes through Eco-sensitive Zone of Pech-Vazhani Wildlife Sanctuary.

iii) Forest clearance for the forest land involved in the pipeline project shall be obtained.

iv) The project authority i.e. M/s BPCL shall ensure restoration of the Right of Way to preconstruction level as soon as construction activity completed. To ensure prevention of soil erosion, backfilled areas should be properly compacted.

v) The design, material of construction, assembly, inspection, testing and safety aspects of operation and maintenance of pipeline and transporting the natural gas shall be governed by ASME/ANSI B 31.8/B31.4 and OISD standard 141.

vi) Annual safety audit shall be carried out for the initial three years by an independent agency and report submitted to this Ministry for ensuring the strict compliance of safety regulations on operation and maintenance.

vii) The construction of pipeline particularly at the river and stream crossing shall be done during dry seasons to avoid disturbance of breeding seasons and soil erosion. The riverbed, embankments and / dykes shall be restored adequately after installation of crossings.

viii) Pipeline wall thickness and minimum depth of burial at river crossings and casings at rails, major road crossings shall be in conformity with ANSI/ASME requirements.

ix) The company shall follow horizontal drilling technique for laying of pipeline while passing through major rivers.

x) The project authorities shall install SCADA system with dedicated optical fiber based telecommunication link for safe operation of pipeline and Leak Detection System. Additional sectionalizing valves in the residential areas and sensitive location shall be provided to prevent the leaking of gas going to the atmosphere in the event of pipeline failure. Intelligent pigging facility shall be provided for the entire pipeline system for internal corrosion monitoring. Coating and impressed current cathodic protection system shall be provided to prevent external corrosion.

xi) The project authorities shall patrol and inspect the pipeline regularly for detection of faults as per OISD guidelines and continuous monitoring of pipeline operation by adopting non-destructive method(s) of testing as envisaged in the EMP. Pearson survey and continuous potential survey shall be carried out at regular intervals to ensure the adequacy of cathodic protection system.

xii) All the recommendations mentioned in the risk assessment report shall be implemented.
xiii) All the issues raised during the public hearing/consultation meetings held on 18.04.2014 for Thrissur district, 21.05.2014 for Palakkad district, 22.05.2014 for Kakkanaad Koch district shall be satisfactorily implemented.

xiv) Necessary approvals from Chief Controller of Explosives must be obtained before commission of project. Requisite On-site and Off-site Disaster Management Plans shall be prepared and implemented. It is necessary that integrated DMP should be in place as the pipeline is passing through four Districts.

xv) The acoustic chambers/barriers should be provided for individual units wherever feasible in the compressor stations.

xvi) The workers camp should have arrangement for safe drinking water, hygienic kitchen and sanitation facilities. The wastewater should be properly treated before disposal.

xvii) The company shall obtain all requisite clearances for fire safety and explosives and shall comply with the stipulation made by the respective authorities.

xviii) Occupational health surveillance of worker shall be done on a regular basis and records maintained as per the Factory Act.

xix) The Company shall harvest surface as well as rainwater from the rooftops of the buildings proposed in the project and storm water drains to recharge the ground water and use the same water for the various activities of the project to conserve fresh water.

xx) At least 1% of the total cost of the project should be earmarked towards the Enterprise Social Commitment (ESC) based on local needs and action plan with financial and physical breakup/details should be prepared and submitted to the Ministry’s Regional Office at Chennai. Ms/BPCL shall utilized the earmarked funds for implementation of sanitation program under Swach Bharat Abhiyan. Implementation of such program should be ensured accordingly in a time bound manner.

B. GENERAL CONDITIONS:

i. The project authorities must strictly adhere to the stipulations made by the Kerala State Pollution Control Board (KSPCB), State Government and any other statutory authority.

ii. The National Ambient Air Quality Emission Standards issued by the Ministry vide G.S.R. No. 826(E) dated 16th November, 2009 shall be complied.

iii. The locations of ambient air quality monitoring stations shall be decided in consultation with the State Pollution Control Board (SPCB) and it shall be ensured that at least one stations is installed in the upwind and downwind direction as well as where maximum ground level concentrations are anticipated.

iv. 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 Environment (Protection) Act, 1986 Rules, 1989 viz. 75 dBA (day time) and 70 dBA (night time).

v. Training shall be imparted to all employees on safety and health aspects of chemicals handling. Pre-employment and routine periodical medical examinations for all employees shall be undertaken on regular basis. Training to all employees on handling of chemicals shall be imparted.
vi. Usage of Personnel Protection Equipments (PPEs) by all employees/workers shall be ensured.

vii. The company shall also comply with all the environmental protection measures and safeguards proposed in the documents submitted to the Ministry. All the recommendations made in the EIA/EMP in respect of environmental management, risk mitigation measures and public hearing relating to the project shall be implemented.

viii. The company shall undertake all relevant measures for improving the socio-economic conditions of the surrounding area. CSR activities shall be undertaken by involving local villages and administration.

ix. The company shall undertake eco-developmental measures including community welfare measures in the project area for the overall improvement of the environment.

x. A separate Environmental Management Cell equipped with full fledged laboratory facilities shall be set up to carry out the Environmental Management and Monitoring functions.

xi. The company shall earmark sufficient funds towards capital cost and recurring cost per annum to implement the conditions stipulated by the Ministry of Environment and Forest 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.

xii. A copy of the clearance letter shall be sent by the project proponent to concerned Panchayat, Zila Parisad/Municipal Corporation, Urban local Body and the local NGO, if any, from who suggestions/representations, if any, were received while processing the proposal.

xiii. 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, the respective Zonal Office of CPCB and the Kerala State Pollution Control Board. A copy of Environmental Clearance and six monthly compliance status report shall be posted on the website of the company.

xiv. 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 by e-mail.

xv. 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 at www.moef.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.

xvi. 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.
9.0 The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.

10.0 The Ministry reserves the right to stipulate additional conditions, if found necessary. The company in a time bound manner will implement these conditions.

11.0 The above conditions will be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, Air (Prevention & Control of Water Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous Waste (Management, Handling and Trans-boundary Movement) Rules, 2008 and the Public Liability Insurance Act, 1991 along with their amendments and rules.

12.0 Environmental Clearance is issued to M/s BPCL for LPG Pipeline (199 Km) from Kochi Refinery to Kerala Border (near Pallakad) at District Ernakulam, Kerala.

(Lalit Bokolia)
Additional Director

Copy to:-

1. Principal Secretary, Department of Environment & Forest, Govt. of Kerala, Secretariat Annex Building, Room - 604, C Block, 6th Floor, Government Secretariat, Thiruvananthapuram.
2. Chairman, Kerala State Pollution Control Board, Pattom P.O., Thiruvananthapuram
3. Chairman, Central Pollution Control Board, Parivesh Bhavan, CBD-cum-Office Complex, East Arjun Nagar, Delhi - 110032.
4. The Chief Conservator of Forest, Regional Office (Southern Zone, Bangalore) Kendriya Sadan, 4th Floor, E&F Wing, II Block Koramangala, Bangalore-560034.
5. Monitoring Cell, Ministry of Environment, Forest and Climate Change, Indira Paryavaran Bhavan, Jorbagh Road, New Delhi.
6. Guard File/Record File.

(Lalit Bokolia)
Additional Director
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 (KSPPPL), 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.
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.

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

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.

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
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.

(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

(S.K. Srivastava)
Scientist E