

F.No. J-16011/26/2001-IA.III
Government of India
Ministry of Environment & Forests
(IA-III Division)

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

Dated: 31st January, 2013

To
M/s Petronet LNG Ltd.,
World Trade Centre, First Floor, Babar Road,
Barakhamba Lane, New Delhi -110 001

Subject: Environmental and CRZ Clearance for enhancing the re-gasification capacity from 2.5 MMTPA to 5 MMTPA at Puthuvypeen Island, Kochi, Kerala by M/s Petronet LNG Ltd. - Reg.

This has reference to your application No. PLL/KE/MoEF/1 dated 07.06.2011 seeking Environmental and CRZ Clearance under the Environment Impact Assessment Notification, 2006 and Coastal Regulation Zone (CRZ) Notification, 2011. The proposal has been appraised as per prescribed procedure in the light of provisions under the Environment Impact Assessment Notification, 2006 and Coastal Regulation Zone (CRZ) Notification, 2011 on the basis of the mandatory documents enclosed with the application viz., the Questionnaire, EIA, EMP and the additional clarifications furnished in response to the observations of the Expert Appraisal Committee constituted by the competent authority in its meetings held on 13th - 15th July, 2011 and 17th - 18th October, 2011.

2. It is interalia, noted that the Clearance was issued vide No. J-16011/26/2001-IA-III dated 02.06.2003 and dated 13.03.2006 for a dedicated LNG Jetty, Two full containment LNG storage tanks of 155,000 cum net capacity each, ships of 1, 65,000 cum capacity and Re-gasification system of 2.5 MMTPA capacity. An amendment was issued on 16.11.2010 for dredging. The LNG Terminal project at Kochi is under construction for LNG re-gasification capacity equivalent to 2.5 MMTPA, associated LNG storage capacity & utilities. The Terminal is scheduled to be completed in the first quarter of year 2012. PLL has adopted a modular approach for the re-gasification facilities where provision has been kept to install equipments at later stage to increase the re-gasification capacity to 5 MMTPA. Due to change in market scenario, PLL has now decided to install the equipments for 5 MMTPA re-gasification capacities along with the present construction; it shall optimize the construction schedule. Also these equipments (already identified in the drawings/documents submitted to MOEF, plant layout) involve only a small number of pumps & vaporizers. There is no change envisaged in the marine facilities, storage tanks and the utilities including captive power plant. The Quantitative Risk Analysis for the above facilities (i.e. for 5 MMTPA terminal capacities) has already been conducted. It may be mentioned that there is no change envisaged in the environment impact associated with the addition of above equipments, as all facilities like unloading arms, LNG storage tanks, power requirement, utilities etc as enumerated in the Environmental Clearance of Ministry will remain unchanged.



3. The project was examined earlier by EAC its meeting held on 3rd - 4th March, 2011 and finalized additional TOR including Public Hearing. The Public Hearing was conducted on 26.08.2011.

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 accords necessary Environmental and CRZ Clearance for the above project as per the provisions of Environment Impact Assessment (EIA) Notification, 2006 and its subsequent amendments, and Coastal Regulation Zone (CRZ) 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) NOC/Clearance shall be obtained confirming that all the fire fighting provisions are as per standards specified by the Chief Controller of Explosives/Petroleum & Explosives Safety Organization (PESO) for the additional storage tanks.
- (iii) Leak detection/warning system shall be provided at strategic locations. Necessary control measures capable of remote operation to shut down the leakage, if any, should be provided.
- (iv) Appropriate safety devices such as masks should be provided for use by the workers handling the products at the site and their usage by them should be ensured.
- (v) Project proponent should implement all the recommendations stipulated in the EAI, EMP and Risk Assessment reports pertaining to the project.
- (vi) The commitments made during the Public Hearing and as recorded in the Minutes shall be complied with letter and spirit.
- (vii) All the conditions stipulated in the earlier Clearance including the recommendations of Environment Management Plan, Disaster Management Plan shall be strictly complied with.
- (viii) The Committee noted the proponent's statement that augmentation of the capacity from 2.5 MMTPA to 5.0 MMTPA will not induct additional environmental issues and that the planned system will take care of the overall requirements of the facility. However, impacts if any arising out of increased activities to meet the additional capacity shall be brought to the notice of the Ministry with appropriate mitigation measures that will be put in place, to ensure that the given commitment of 'no additional impact' is maintained in letter and spirit.
- (ix) At least 5% of the total cost of the project shall be earmarked towards the Corporate Social Responsibility (CSR) and item-wise details along with time bound action plan shall be prepared and submitted to the Ministry

prior to the commencement of the project. Implementation of such program shall be ensured accordingly in a time bound manner.

- (x) It shall be ensure that the proposed activity shall not cause any disturbance to the Fishing activity.
- (xi) The smooth and safe operation of the system will be ensured by incorporating a computerized SCADA (Supervisor Control And Data Acquisition) system. Any leakage in the pipeline shall be immediately detected by the Computer system and product pumping shall be immediately cut off.
- (xii) 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.
- (xiii) The project shall be carried out as per international standards in vogue and duly certified by competent authorities before commissioning.
- (xiv) Oil Spill Contingency Management Plan shall be put in place along with the dedicated staff to deal with Oil spill in and around the port area shall be provided in the port. No oily wastes shall be discharged into the water bodies/mangrove areas.
- (xv) Regular mock drills shall be conducted to check the effectiveness of the on-site Disaster Management Plan. The recommendations made in the Environmental Management Plan and Disaster Management Plan, as contained in the Environment Impact Assessment and Risk Analysis reports of the project, should be effectively implemented.
- (xvi) No construction work other than those permitted in Coastal Regulation Zone Notification shall be carried out in Coastal Regulation Zone area.
- (xvii) 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.
- (xviii) 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 Bangaluru 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.



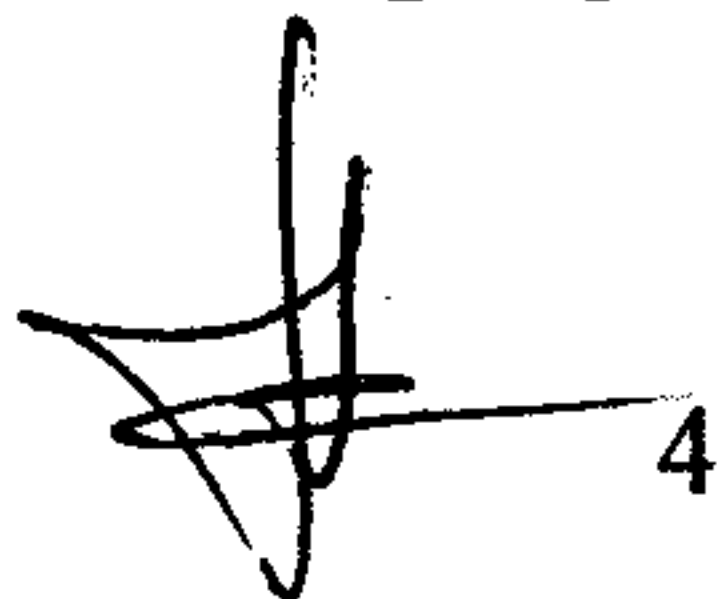
- (iii) A six-Monthly monitoring report shall need to be submitted by the project proponents to the Regional Office of this Ministry at Bangaluru regarding the implementation of the stipulated conditions.
- (iv) Ministry of Environment & Forests or any other competent authority may stipulate any additional conditions or modify the 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 Centre 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 and CRZ Clearance and copies of clearance letters are available with the Kerala 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 Bangaluru.

10. 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.



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

12. Any appeal against this 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.

13. A copy of the clearance letter shall be sent by the proponent to concerned Panchayat, Zilla Parisad/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.

14. The proponent shall upload the status of compliance of the stipulated Clearance 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.

15. 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, the respective Zonal Office of CPCB and the SPCB.

16. 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 by e-mail.


(Lalit Kapur)
Director (IA-III)

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.
4. The Chairman, Kerala State Pollution Control Board, Plamoodu Junction, Pattom Palace, Thiruvananthapuram - 695004, Kerala
5. The CCF, Ministry of Environment and Forests, Regional Office, (WR), Kendriya Paryavaran Bhavan, Link Road No. 3, Ravishankar Nagar, Bangalore - 462016.
6. Director (EI), Ministry of Environment and Forests.
7. Guard File.

(Lalit Kapur)
Director (IA-III)