



# Petronet LNG Limited

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PLL/ND/D-7/SJ-02

Date: 19<sup>th</sup> January, 2012

The Director (Environment)  
Forests & Environment Department,  
Government of Gujarat,  
Block No. 14, 8<sup>th</sup> Floor, Sachivalaya,  
Gandhinagar – 382 010  
(Fax No.: 079-23252156)

**Kind Attn.: Shri J.K.Vyas**

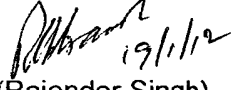
**Subject:** Half-yearly Compliance Report with respect to conditions stipulated by Ministry of Environment & Forests, Govt. of India and Department of Forests, Govt. of Gujarat for Setting up of Second LNG jetty at Dahej, District Bharuch in Gulf of Khambhat, Gujarat as on 31<sup>st</sup> December 2011

**Ref. No.** a) J-17011/11/2000-IA-III, dated 14<sup>th</sup> Nov-2008.  
b) ENV-10-2004-11-E, dated 5<sup>th</sup> Sep-2008

Dear Sir,

The Compliance report as on December 31, 2011 with respect to conditions stipulated by Ministry of Environment & Forests, Govt. of India and Department of Forests, Govt. of Gujarat for Setting up of Second LNG jetty at Dahej, District Bharuch in Gulf of Khambhat, Gujarat is enclosed.

With regards,

  
(Rajender Singh)  
Sr. V.P. (Projects)

Encl.: As above

Copy to:-

Director,  
Ministry of Environment & Forest,  
Paryavaran Bhawan,  
CGO Complex, Lodhi Road,  
New Delhi – 110 003

Joint Director (S)  
Ministry of Environment & Forests,  
Regional Office, Western Region,  
Kendriya Paryavaran Bhavan,  
Link Road No. 3,  
Bhopal – 462 016

G.M.(P)

**Dahej LNG Terminal:**  
GIDC Industrial Estate, Plot No. 7/A, Dahej  
Taluka Vagra, Distt. Bharuch - 392130 (Gujarat)

**Kochi Site:**  
Survey No. 347, Puthuvypu  
P.O. 682508, Kochi

**Half Yearly Compliance Report with respect to conditions stipulated by Ministry of Environment & Forests, Government of India and Department of Forests, Government of Gujarat for setting up of Second LNG jetty at Dahej, District Bharuch in Gulf of Khambhat, Gujarat as on 31.12.2011**

**COMPLIANCE REPORT TO THE CONDITION MENTIONED IN MOE&F LETTER NO. J-17011/11/2000-IA-III, DATED: 14TH NOVEMBER, 2008.**

**(A) Specific Conditions:**

- i) Adequate safety measures for the offshore structure and ship navigation shall be taken in view of the high current in the area.

**Noted.**

- ii) The shore line changes in the area shall be monitored periodically.

**Noted.**

- iii) The recommendation of the Scour study shall be incorporated in the design.

**Noted.**

- iv) The recommendations of the risk assessment shall be implemented. Any change in the design of the project shall come before the committee for seeking necessary approval.

**Noted.**

- v) Mangrove plantation to be done in consultations with the GEER/GEC of Forest Department, a detailed plan shall be submitted within six months from the date of receipt of this letter.

- **Following Mangrove Plantation undertaken/ planned along the Gujarat Coast in consultation with GEC:**

**a. Completed : 156 Hectares (2008-09, 2009-10, 2010-2011)**

**b. Under Progress : 200 Hectares (2011-2012)**

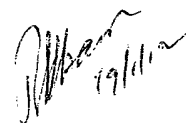
**c. Proposed : 200 Hectares (2012-13)**

- vi) It shall be ensured that during construction and post construction of the proposed jetty the movement fishermen vessels of the local communities are not interfered with.

**Agreed.**

- vii) Relocation of the fishermen community shall be done strictly in accordance with the norms prescribed by the State Government. The relocated fishermen community shall be provided with all facilities including health care, education, sanitation and livelihood.

**Noted.**



- viii) Marine ecology monitoring shall be done regularly during construction of Breakwater and dredging operation.

**Construction of break water / Dredging operation is not envisaged.**

- ix) Regular monitoring of air quality shall be done in the settlement areas around the project site and appropriate safeguard measures shall be taken to ensure that the population is not subjected to higher levels of air pollution.

**Noted & complied.**

- x) Sewage arising in the port area shall be disposed off after adequate treatment to conform to the standards stipulated by Gujarat State Pollution Control Board and shall be utilized/re-cycled for gardening, plantation and irrigation.

**Agreed.**

- xi) Adequate plantation shall be carried out along the roads of the Port premises and a green belt shall be developed.

**Agreed.**

- xii) There shall be no withdrawal of ground water in CRZ area, for this project.

**Noted.**

- xiii) Specific arrangements for rain water harvesting shall be made in the project design and the rain water so harvested shall be optimally utilized. Details in this regard shall be furnished to this Ministry's Regional Office at Bhopal within 3 months.

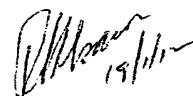
**The LNG terminal is being set up very near to the coast line at Dahej where water table is very high. Moreover the sea water is brackish in that area. Preliminary investigation indicates that it might not be feasible to carry out rain water harvesting in this area. The process water requirement in LNG terminal at Dahej is nil. The sanitary waste water is being used for green belt purpose.**

- xiv) Land reclamation shall be carried out only to the extent that it is essential for this project.

**Noted.**

- xv) No product other than those permissible in the Coastal Regulation Zone Notification, 1991 shall be stored in the Coastal Regulation Zone area.

**Noted.**



## **B. General Conditions:**

- (i) Construction of the proposed structures, if any in the Coastal Regulation Zone area shall be undertaken meticulously conforming to the existing Central/local rules and regulations including Coastal Regulation Zone Notification 1991 & its amendments. All the construction designs / drawings relating to the proposed construction activities must have approvals of the concerned State Government Departments / Agencies.

**Agreed.**

- (ii) Adequate provisions for infrastructure facilities such as water supply, fuel, sanitation etc. shall be ensured for construction workers during the construction phase of the project so as to avoid felling of trees/mangroves and pollution of water and the surroundings.

**Noted for compliance.**

- (iii) The project authorities must make necessary arrangements for disposal of solid wastes and for the treatment of effluents by providing a proper wastewater treatment plant outside the CRZ area. The quality of treated effluents, solid wastes and noise level etc. must conform to the standards laid down by the competent authorities including the Central/State Pollution Control Board and the Union Ministry of Environment and Forests under the Environment (Protection) Act, 1986, whichever are more stringent.

**Noted for compliance.**

- (iv) The proponent shall obtain the requisite consents for discharge of effluents and emissions under the Water (Prevention and Control of Pollution) Act, 1974 and the Air (prevention and Control of Pollution) Act, 1981 from the Gujarat Pollution Control Board before commissioning of the project and a copy of each of these shall be sent to this Ministry.

**Noted for compliance.**

- (v) The sand dunes, corals and mangroves, if any, on the site shall not be disturbed in any way.

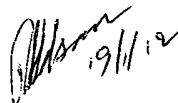
**Agreed.**

- (vi) A copy of the clearance letter will be marked to the concerned Panchayat / local NGO, if any, from whom any suggestion/representation has been received while processing the proposal.

**Noted.**

- (vii) The funds earmarked for environment protection measures shall be maintained, in a separate account and there shall be no diversion of these funds for any other purpose. A year-wise expenditure, on environmental safeguards shall be reported to this Ministry's Regional Office at Bhopal and the State Pollution Control Board.

**Complied.**

 19/11/12

**Rs 33.22 Lacs spent for development of green belt and mangrove plantation during the year 2009-2010.**

**Rs 50 Lacs spent for development of Green belt and Mangrove plantation during the year 2010-2011**

**Rs 109 Lacs budgeted for development of Green belt. /Mangrove plantation during the year 2011-2012**

- (viii) Full support shall be extended to the officers of this Ministry's Regional Office at Bhopal and the officers of the Central and State Pollution Control Boards by the project proponents during their inspection for monitoring purposes. by furnishing full details and action plans including the action taken reports in respect of mitigate measures and other environmental protection activities.

**Agreed.**

- (ix) In case of deviation or alteration in the project including the implementing agency, a fresh reference shall be made to this Ministry for modification in the clearance conditions or imposition of new ones for ensuring environmental protection.

**Noted & Agreed.**

- (x) This Ministry reserves the right to revoke this clearance, if any of the conditions stipulated are not complied with to the satisfaction of this Ministry.

**Noted & Agreed.**

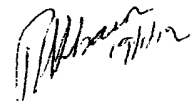
- (xi) This Ministry or any other competent authority may stipulate any other additional conditions subsequently, if deemed necessary, for environmental protection, which shall be complied with.

**Noted & Agreed.**

- (xii) The project proponent shall advertise at least in two local newspapers widely circulated in the region around the project, one of which shall be in the vernacular language of the locality concerned 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 at Website of the Ministry of Environment & Forests at <http://www.envfor.nic.in>. The advertisement shall be made within 7 days from the date of issue of the clearance letter and a copy of the same shall be forwarded to the Regional Office of this Ministry at Bhopal.

**Complied.**

- (xiii) The Project proponents shall inform the Regional Office at Bhopal 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.

**Noted for compliance.**

- (xiv) Any appeal against this environmental clearance shall lie with the National Environment Appellate Authority, if preferred, within a period of 30 days as prescribed under Section 11 of the National Environment Appellate Act, 1997.

**Noted.**

**Compliance to conditions as conveyed by Department of Forests & Environment, Govt. of Gujarat, Letter No. ENV-10-2004-117-E, dated: September 5, 2008.**

1. The provisions of CRZ notification of 1991 and subsequent amendments issued from time to time shall be strictly adhered to by PLL.

**Noted.**

2. All necessary permissions from different Government Departments / Agencies shall be obtained by PLL before commencing the expansion activities.

**Noted.**

3. No effluent or sewage shall be discharged into the sea / creek or in the CRZ area and shall be treated to conform the norms prescribed by the Gujarat Pollution Control Board and would be reused / recycled within the plant premises.

**Noted.**

4. All the recommendations and suggestion given by the NIOT and WAPCOS in their Environment Impact Assessment reports shall be implemented strictly.

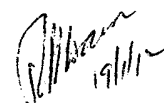
**Noted.**

5. The cost of the external agency that may be appointed by this department for supervision / monitoring of the project activities during construction / operational phases shall be paid by PLL.

**Noted.**

6. The PLL shall have to contribute financially for any common study or project that may be proposed by this Department for environmental management / conservation / improvement for the Gulf of Khambhat or for Dahej region.

**Agreed.**



7. The construction debris and any other type of waste shall not be discharged into the sea / creek or in CRZ areas. The debris shall be removed from construction site immediately after construction is over.

**Agreed.**

8. The construction camps shall be located outside the CRZ area and the construction labor shall be provided with necessary amenities, including sanitation, water supply and fuel and it shall be ensured that the environmental conditions are not deteriorated by construction labor

**Noted & complied.**

9. The PLL shall prepare and regularly update its local oil Spill Contingency plan and Disaster Management Plan in consonance with National Oil Spill and Disaster Contingency Plan

**Complied for operation of Existing LNG Terminal facilities.**

10. The Gujarat Maritime Board shall initiate for the Vessel Traffic Management System for the Gulf of Khambhat and would work out the modus operandi for cost sharing by different players in the Gulf including PLL. The PLL shall contribute for the same as may be decided by Gujarat Maritime Board.

**Agreed**

**General Conditions:**

11. The ground water shall not be tapped to meet with the water requirements in any case.

**Agreed**

12. The PLL shall take up massive mangrove plantation activities in 100 ha. of area on Gujarat Coast line as well as greenbelt development activities in consultation with the Gujarat Institute of Desert Ecology / Forest department.

**Following Mangrove Plantation undertaken/ planned along the Gujarat Coast in consultation with GEC:**

- a. Completed : 156 Hectares (2008-09, 2009-10, 2010-2011)
- b. Under Progress : 200 Hectares (2011-2012)
- c. Proposed : 200 Hectares (2012-13)

13. The PLL shall have to contribute financially for taking up the socio-economic upliftment activities in this region in consultation with the Forest and Environment Department and the District Collector / District Development Officer.

**Noted.**

14. Environmental Audit report indicating the changes, if any with respect to the baseline quality, in the coastal and marine environmental shall be submitted every year.

**Noted.**

15. A six monthly report on compliance of the conditions mentioned in this letter shall have to be furnished by the PLL on regular basis to this Department.

**Noted for compliance.**

16. Any other condition that may be stipulated by this Department from time to time for environmental protection / management purpose shall also have to be complied with by the PLL.

**Noted.**

*R. M. S.*  
19/1/12