



Petronet LNG Limited

Survey No. 347, Puthuvypu P.O.
Kochi - 682 508, India.
Tel: 0484 - 2502259 Fax: 0484 2502264
www.petronetlmg.com
CIN L74899DL1998PLC093073

PLL/KOCHI/MOEF/2018-19/04

28th May, 2018

Additional Principal Chief Conservator of Forests (C)

Ministry of Environment, Forest and Climate Change,
Regional Office (SZ),
Kendriya Sadan, 4th Floor, E&F Wings, 17th Main Road,
Koramangala II Block,
Bangalore – 560034.

Sub: Compliance report to Environment Clearance for dredging for the purpose of creating an approach channel for LNG Import Terminal at Puhuvypu, Kochi

Ref: Environment Clearance No: J-16011/26/2001-IA-III vide your letters dated 16th November, 2010

Sir

The six monthly compliance report for the above clearance is attached for the period ending 31st March 2018.

Thanking You,

With Regards

(T. N. Neelakantan)
Sr. Vice President (Plant Head)



CC:

- 1) The Chief Environmental Engineer,
Kerala State Pollution Control Board,
Gandhinagar, Kochi – 682 020.

Regd. Office:

World Trade Centre, First Floor, Babar Road,
Barakhamba Lane, New Delhi- 110 001 (INDIA)
Tel: 011-23472525/23411411 Fax: 011-23472550



Dahej LNG Terminal:

GIDC Industrial Estate, Plot No. 7/A, Dahej
Taluka: Vagra, Dist. Bharuch - 392130 (Gujarat)
Tel.: 02641-257004/05/07, 253182, Fax: 02641-253180

COMPLIANCE REPORT TO YOUR ORDER DT. 16TH NOVEMBER 2010

SPECIFIC CONDITIONS:

- i. The total quantity of the dredged material of 35,00,000 cu.m shall be dumped at the specified offshore dumping site of Cochin Port at outer sea, about 15.6 km from the shore.

The dredging work has been completed. Material were dumped as per above direction.

- ii. The approach channel shall be properly demarcated with lighted buoys for safe navigation and adequate traffic control guidelines shall be framed. The fishermen shall be suitably educated and informed about the traffic guidelines.

The approach channel has been clearly marked with lighted buoys in association with Cochin Port. Cochin port trust provides Vessel Traffic Management Service (VTMS) to all vessels within port area.

- iii. The material dredged by cutter suction dredger will be used for land development work and for beach nourishment approved by Cochin Port Trust. Dredged material from Trailer Suction Dredger will be dumped at the specified offshore dumping site of Cochin Port at outer sea, about 15.6 km from the shore.

The materials dredged from Cutter suction Dredger were dumped on the western side of the terminal as per the instruction of Cochin Port Trust; this area has been allocated by Cochin Port Trust for dumping.

The Dredged material from Trailer Suction Dredger was dumped at the designated dumping site of Cochin Port at outer sea, about 15.6 km from the shore.

- iv. 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.

PLL has set up Environment Management Cell under Sr. Vice President – (Plant Head), other members of the team includes GM (Operations & Maintenance), Head of Operation department, C&P (Contracts & Procurement) department, Technical department, HSE department, Civil Department, Lab operation & a representative from HR department for effective implementing the stipulated environment safeguards. The SOP of the Environment Management Cell was revised on 23/04/2018 and the copy of the same is attached as Annexure-01.

- v. The project proponent shall take up mangrove plantation/green belt in the project area, wherever possible. Adequate budget shall be provided in the Environment Management Plan for such mangrove development.

In FY 2014-2015 Petronet LNG Ltd, Kochi, arrived at an agreement with Kerala State Social Forestry for a mangrove afforestation project in Ernakulum district, the total cost of the project is 71.05 lakhs. Petronet LNG Limited have already transfer fund of Rs.30.00 lakh for the Mangrove Afforestation Project which is entitled “Project for Mangrove afforestation in Ernakulam district” All details with

regard to this project has already been submitted along with six monthly compliance report dated 03th March-2015; and a updated progress report of the project was submitted along with six monthly compliance report dated 02nd June-2016. The latest progress report of the project, dated 07/05/2018, is attached along with this report as Annexure-02.

PLL has also developed green belt along the periphery boundary wall. Green belt is about 10.48% of total area of our site.

- vi. The funds earmarked for environment management plan shall be included in the budget and this shall not be diverted for any other purpose.

Budget allocated for environment safeguard will not be diverted for other purposes.

GENERAL CONDITIONS:

- i. Adequate provision for infrastructure facilities including water supply fuel and sanitation must be ensured for construction workers during the construction phase of the project to avoid damage to the environment.

We have completed the construction and commissioning of our plant. During both the phases, adequate provisions were provided to avoid any damage to the environment.

- 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.

PLL will extend full support to the officers of this ministry's Regional Office, Bengaluru and the officers of the Central and State Pollution Control Board during the inspection for monitoring purpose by furnishing full details and action plans including the action taken reports in respect of mitigate 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.

PLL is submitting required six monthly monitoring reports to the Regional Office of MoEF, Bengaluru.

- 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.

PLL will comply with additional conditions, if any suggested by the ministry or any other competent authority in writing.

- 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.

PLL is aware about the rights of the ministry and have noted this condition.

- 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.

PLL has not carried out any deviation or alteration in the project. PLL will comply with this requirement and will take permit from the Ministry prior to any deviation, alteration and modification in the project.

- 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.

PLL had already informed the Regional Office as well as the Ministry regarding the date of financial closure and final approval of the project vide letter dated 5th Sept-2008, from Director (Technical) addressed to Additional Director, MoEF, Delhi and copy marked to regional officer.

- viii. A copy of the clearance letter shall be marked to concern Panchayat/Local NGO, if any, from whom any suggestion/representation has been made received while processing the proposal.

No specific suggestion/representation has been made/received from any authority while processing the proposal.

- ix. Kerala Pollution Control Board shall display a copy of the clearance letter at the Regional Office, District Industries Centre and Collector's Office/Tahsildar's office for 30 days.

Complied by Kerala State Pollution Control Board.

Thanking You,

With Regards




(T. N. Neelakantan)

Sr. Vice President (Plant Head)



**PETRONET
LNG
LIMITED**

ENVIRONMENT MANAGEMENT CELL

	Prepared By	Approved By	Issued By
 PETRONET LNG LIMITED	Sign- <i>ajayk</i> VIJITH.T.V. Date - 20.04.2018	Sign- <i>Shel</i> Date - 23/4/18	Sign- <i>Shady</i> Date - 23.4.18

REVISION HISTORY

Date of Issue	Revision / Amendment	Details	Page No
10-02-2014	Rev-00		
26-08-2016	Rev-01	Inclusion of Sr.Mgr(Operations) and Change of Head (HSE) and Head (Projects)	02
20-03-2017	Rev-02	Inclusion of Mgr.(Materials) & Mgr.(Technical)	04
03.06.2017	Rev-03	Inclusion of GM (O&M) and Ms. Selsa Rajesh name is replaced with Mr.Biju from Lab	04
01.05.2018	Rev-04	1. VP (O & M) is replaced with Sr VP (plant head) and Inclusion of Sr Officer (HR) 2. Environment management cell structure also reorganised.	04

CONTENTS

1. PURPOSE.....	04
2. SCOPE.....	04
3. Environment Management Cell.....	04
A. Members of Environment management cell.....	04
B. Structure of Environment Management cell	04
C. Roles and responsibility of Environment Management cell	05
D. Functioning of Environment Management cell.....	06
E. List of team members & designation	06

1. PURPOSE:

Purpose of this document is to establish an Environment Management to monitor all plant activities, in order to ensure that they are carried out in an environmentally friendly manner.

2. SCOPE:

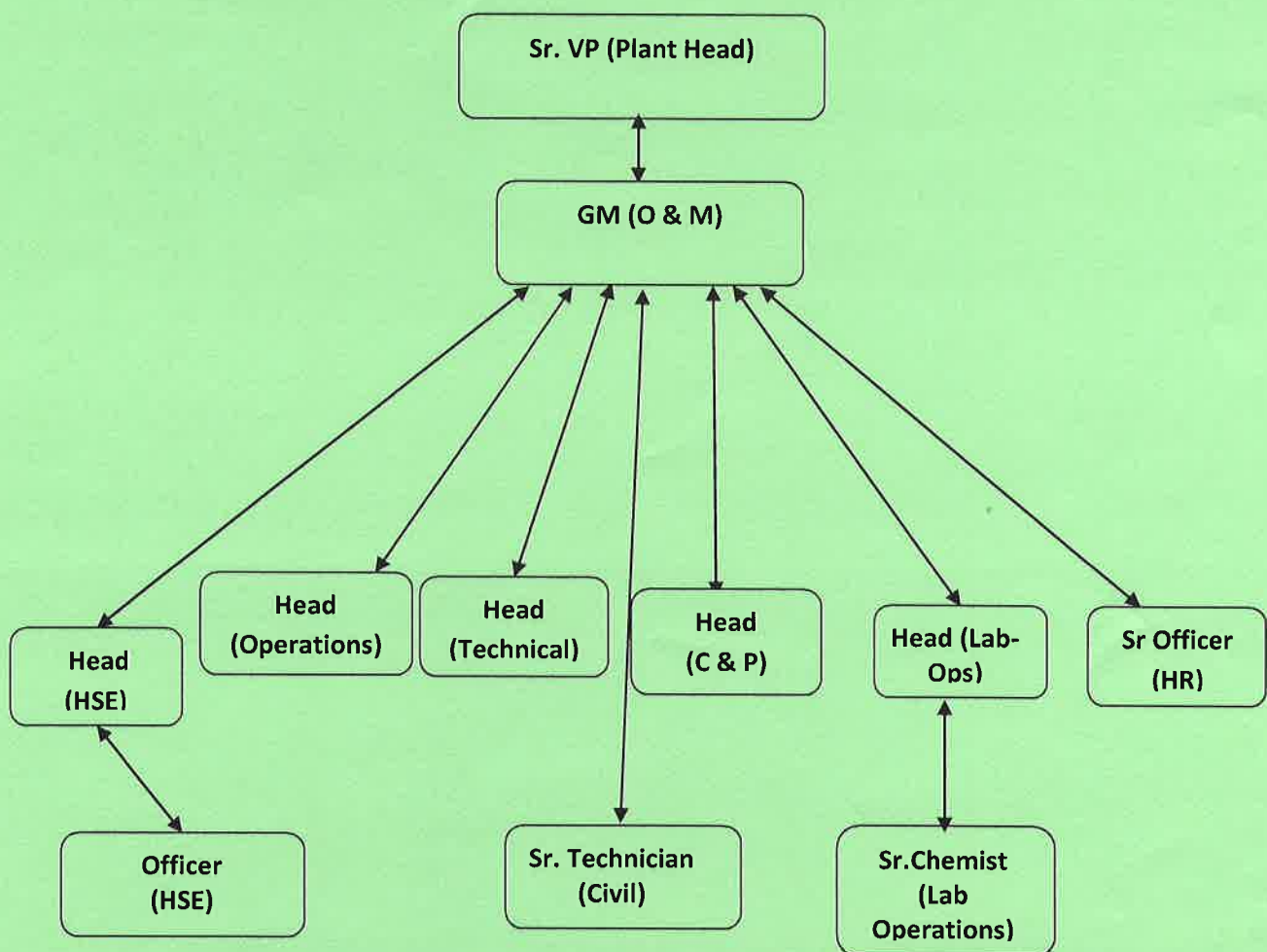
This document outlines the different aspect of the Environment management like its members, structure, roles and responsibility and mode of functioning.

3. ENVIRONMENT MANAGEMENT CELL:

A) Members of Environment Management Cell:

Environment management will be headed by Sr. VP (Plant Head) and other members are Head (Operations), Head (HSE), Head (Technical), Head (C & P), Head of Lab Operations, Sr Officer (HR), Officer (HSE), Chemist (Lab Operations) and Sr. Technician (Civil); the cell will be reporting to Sr.Vice President (Plant Head).

B) Structure of Environment Management Cell:



Environment Management Cell

C) Roles and Responsibility of Environment Management Cell:

Roles and responsibility of Environment management cell are listed below, but not limited to:

- Advice management on issues related to environment.
- Identify activities which have potential to harm environment and to suggest measures to mitigate them.
- Create awareness among employees, contractors, visitors and public regarding the importance of environment protection and means to protect it by conducting tree plantations, campaigns, training programs, posters etc.
- Develop and implement the plans in order to reduce, reuse and recycle wastes.
- Plan, develop and implement environment management projects by coordinating with different departments, government agencies, NGO etc.
- Monitor and review different environment monitoring reports of ambient air, noise, vibration, stack emission, liquid effluents, and will take measures to ensure it is well below the permissible limit prescribed by central/ Kerala state pollution control board.
- Take review of the status of solid waste, hazardous wastes, biological waste, food waste, etc. that are generated either by operation or domestic activities of our plant.
- Ensure all activities of the plant are carried out in an environmentally safe manner and as mentioned in consent to establish and operate.
- Ensure Environment related statutory compliance, i.e. MoEF, CRZ clearance, KSPCB etc.
- Ensure adequate vegetation cover in the premise by develop and maintain green belt.
- Ensure plant and its premises are kept clean from waste.
- Ensure that all liquid effluent generated as a result of operation or domestic activities of our plant should be treated well to the standard as prescribed by central/ Kerala state pollution control board before discharging.
- Take measure to prevent/minimize/control plant fugitive emission, if any.
- Ensures proper handling (collecting and segregating), storage and disposal of hazardous wastes i.e. used oil, solid and biological waste.
- Identifying contactors qualified by central/ Kerala state pollution control board for disposing different categories of waste.
- Carry our work environment/industrial hygiene survey internally or externally for health hazards for employees.
- Arranging World Environment Day (WED) celebrations every year.

D) Functioning of Environment Management Cell:

- Environment management cell shall meet once in a month.
- Date, time, venue and the agenda of the meeting will be identified by Head Operations and the same will be informed to its members, at least one day in advance.
- The meeting shall be convened by the GM (O &M), initial discussion will be on the agenda, then on the progress of the decision taken on the previous meeting.
- Members can share any other information or raise any concern pertaining to the environment and the same will be discussed in detail.
- Minutes of the meeting points shall be recorded and a report for the same will be prepared and documented.
- Meeting minutes shall be reviewed and concluded by the Head of the Environment Management Cell after listing out the outcome of the meeting and setting of goals.
- Members shall be responsible to execute the decision taken in the meeting, by coordinating with different departments, and the progress has to be reported in the next meeting.

E) List of team members & designation:

1. Shri. Yogananda Reddy GM (O&M)
2. Mr.Veerasley Manimaran – Sr.Manager (Operations)
3. Mr. Suresh P – Manager (C & P)
4. Mr.Jaiganesh Dakshinamurthy – Manager (Technical)
5. Mr. L.S.Raja – Dy. Manager (Lab Operations)
6. Mr. Vijith T V – Dy. Manager (HSE)
7. Mr. Hevin Verghese – Sr Officer (HR)
8. Mr. Nishant A – Officer (HSE)
9. Mr. Anish Kumar – Sr.Technician (Civil)
10. Mr. Biju K J– Sr. Chemist (Lab Operations)

Note: EMC group common e mail id emc_kochi@petronetlng.com is created for internal communication.

No. E2-461/18

Office the Assistant Conservator of Forests
Social Forestry Division, Ernakulam
Manimala Road, Edappally.
E-Mail:acf.sf-ekm.for@kerala.gov.in
Ph: 0484-2344761.

Date:07..05..2018

From

Assistant Conservator of Forests
Social Forestry
Ernakulam

To

The Vice President(O&M)
Petronet LNG Limited

Sir,

Sub: Project on mangrove afforestation in Ernakulam District -
Progress report reg.

Ref: That office letter no. PLL/KOCHI/HSE/13-14/C-2.

I am submitting herewith the progress report for mangrove afforestation project funded by Petronet LNG Limited as on 31.03.2018 for your kind perusal and necessary action. The Malippuram mangrove park has been inaugurated and functioning very well. I request your goodself to kindly deposit the next instalment of the project fund so that we ^{can} ~~shall~~ continue our project.

Yours faithfully,



Assistant Conservator of Forests



Social Forestry Division, Ernakulam

Progress report of mangrove afforestation and protection Project funded by Petronet LNG limited up to 31/03/2018

Total outlay of project : 71.50 Lakhs

Amount deposited in A/c. : 45 Lakhs

Expenditure from 31/03/2018 : 44.57 Lakhs

Physical

Sl.N o.	Particulars of work 2015-16, 2016-17 & 2017-18						Expenditure incurred	Remarks
	Name of work	Qty.	Name of work	Qty.	Name of work	Qty.		
1	Production of mangrove seedlings	12500 Nos.	Production of mangrove seedlings	22500			426838	
2	Planting of mangrove seedlings	12500 Nos.	Planting of 15000 mangroves at Kadekurisu River Bit I, Bit II, Pasuvekkar Fish farm, Vijaan Canal, Anjilithara areas, Kadamakkudy ,Sreevaraham fish farm Kumbalangi	27200			1400626	4700 seedlings raised under forest department scheme
3	Habitat improvement including climber cutting, waste and plastic removal etc.	3 sites	Habitat improvement works done at Kumbalangi, Kadekurisu & Malippuram	3 sites			83198	
4	General awareness & extension activities	30 nos.	Awareness class, seminar etc. and other extension activities	15 awareness classes 2 Seminars and procurements of documentisation and aids			204880	

5	Signages	18 nos.	Acrilic board for mangrove conservation message, board of mangrove areas etc.	12 nos.	152600	
6	Silvi-fisheries	LS	Silvi-fisheries	54300	25000	
8	Incentives to existing mangrove owners	LS	Mangrove planting in private land and incentives by supplying fishes	3000 Mangrove plants planted and 14 Kg Crabs given as incentives	267458	
7&9	Eco tourism activities involving the local community and other entry point activities	LS	A mangrove information centre has developed at Malippuram owned by Fisheries Department Mangrove area (2 Acre) Construction of walk way, bridges, entrance arch, toilet, information centre and ticket counter Etc.	1 nos.	1793340	
10	Over head charges and other office expences	LS	TA of staff and other office expences	LS	91105	
11			Engaging Man Mazdoor for conducting survey of Mangrove areas in Ernakulam District	LS	12810	
TOTAL					4457855	

Leela
ASST. CONSERVATOR OF FORESTS
SOCIAL FORESTRY ERNAKULAM

✓