



Petronet LNG Limited

Survey No. 347, Puthuvypu P.O.

Kochi - 682 508, India.

Tel: +91-484-2502259 Fax: +91-484-2502264

www.petronetlng.com

CIN L74899DL1998PLC093073

PAN: AAACP8148D. GST: 32AAACP8148D1ZP

PLL/KOCHI/MOEF/2020-21/03

25th May, 2020

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 accorded to the LNG Terminal at Puthuvypu, Kochi.

Ref: Environment Clearance No. J-16011/26/2001-IA-III vide your letters dated 31st January 2013.

Sir,

The Six monthly compliance report for the above clearances are attached for the period ending 31st March 2020.

Thanking You,

With Regards

Y Reddy
25.5.20



(Yogananda Reddy)

General Manager (Plant Head)

CC:

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



Registered & Corporate Office:

World Trade Centre, First Floor, Babar Road, Barakhamba Lane, New Delhi- 110 001 (INDIA)
Tel: +91-11-23411411 / 23472525 Fax: +91-11-23472550

Dahej LNG Terminal:

GIDC Industrial Estate, Plot No. 7/A, Dahej Taluka: Vagra, Dist. Bharuch - 392130 (Gujarat)
Tel: +91-2641-257249 Fax: +91-2641-257252

COMPLIANCE REPORT of CRZ Clearance no. J-16011/26/2001-IA-III vide your letters dated 31st JANUARY 2013 for enhancing the re-gasification capacity from 2.5 to 5 MMTPA at Puthuvypeen Island, Kochi, Kerala by M/s Petronet LNG Ltd. for the period October 2019 to March 2020.

Point-wise compliance to stipulated terms and conditions of the above CRZ Clearance is as follows:

	SPECIFIC CONDITIONS	PLL Remark
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.	"Consent to Establish" Consent No. PCB/HO/EKM/ICE-R/03/2013 obtained from KSPCB and a copy of the same has already been submitted to the Ministry along with the six monthly compliance report dated 30 th September-2013.
II	NOC/Clearance shall be obtained confirming that all the firefighting provisions are as per standards specified by the Chief Controller of Explosives/Petroleum & Explosives Safety Organization (PESO) for the additional storage tanks.	No additional LNG storage tank is envisaged for this enhancement. We have got Approval of PESO for the existing LNG Storage Tanks and a copy of the same has already been submitted to the Ministry along with the six monthly compliance reports dated 05 th April-2013.
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.	Complied. State of the art automated FGS & shutdown system is installed to mitigate any such incidents.
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.	Complied. Safety Helmets, Safety Shoes, Safety Goggles, SCBAs, Cryogenic suits are provided to all relevant workers and Dust mask are provided to the workers involved in activities which has potential to generate dust.
V	Project proponent should implement all the recommendations stipulated in the EIA, EMP and Risk Assessment reports pertaining to the project.	PLL is complying with all the recommendation stipulated in the EIA, EMP and Risk Assessment reports pertaining to our project.
VI	The commitments made during the Public Hearing and as recorded in the Minutes shall be complied with letter and spirit.	Noted. Public Hearing commitments are incorporated in Final EIA Report for further necessary implementation. Public hearing commitments are fulfilled and the details has already been submitted along with the six monthly compliance report dated 02 nd June-2016.
VII	All the conditions stipulated in the earlier Clearance including the recommendations of Environment Management Plan, Disaster Management Plan shall be strictly complied with.	Complied. All the conditions stipulated in the earlier clearance including the recommendations of EMP and DMP are strictly complied with.

VIII	<p>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.</p>	<p>Noted. However, Augmentation of the capacity from 2.5 MMPTA to 5.0 MMTPA will not induct additional environmental issues.</p>
IX	<p>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.</p>	<p>5% of the total cost of augmentation of the capacity from 2.5 MMTPA to 5.0 MMTPA project is earmarked towards community development and other infrastructure related as well as CSR projects. A separate fund for CSR is kept aside by PLL and we have carried out various activities for the community development and welfare, a brief description of our CSR activities with photographs are enclosed as Annexure # 1.</p>
X	<p>It shall be ensure that the proposed activity shall not cause any disturbance to the Fishing activity.</p>	<p>The proposed augmentation/enhancement of plan capacity do not involve any modification in current marine facilities. Hence will not cause disturbance to fishing activity.</p>
Xi	<p>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.</p>	<p>Complied. Computerized SCADA (Supervisor Control And Data Acquisition) system, FGS (Flame, Gas and Spill) detection system and ESD (Emergency Shutdown system) system has already been installed to ensure smooth and safe operation, for early detection of any leak and for safe shutdown in case of any emergency respectively. Regasified NG pipeline belong to GAIL and cut off of the gas supply is ensured by them and on intimation to PLL, we may stop the supply.</p>

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.	Complied. Regasified NG pipeline belong to GAIL and PLL has no any role related to these pipelines. However, the pipelines within the terminals are equipped with temperature and pressure sensors designed to raise alarm in case of abnormalities, in additions to this all pipelines are continuously guarded with relevant detectors capable of activating ESD if situation demands.
Xiii	The project shall be carried out as per international standards in vogue and duly certified by competent authorities before commissioning.	Complied. The project was carried out in accordance with relevant international and national standards. All equipments have been inspected and certified by competent third party or by competent authorities as per requirements.
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.	<p>Oil spill contingency plan is formulated to take care of the eventualities; a copy of the same has already been submitted with six monthly compliance reports dated 05th April-2013.</p> <p>PLL is having one FIFI 1 tug with required boom barrier and other oil spill control related equipments. PLL jetty falls under the Cochin Port Trust (CPT), and the Oil Spill Contingency Management Plan is prepared by CPT. PLL has provided the information required from the terminal to be incorporated in the Oil Spill Contingency Management Plan. Coast guard is also part of the Oil spill contingency plan.</p> <p>No oil waste will be discharged in to water bodies/mangrove areas. Oily waste will be collected and send to Hazardous waste handling agency.</p> <p>We have entered in to agreement with KEIL (Kerala Enviro Infrastructure Ltd) for handling and treatment of our Hazardous waste and the latest agreement copy has already been submitted along with six monthly compliance report for the period ending March -2018.</p>

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.	<p>Regular mock drills are conducted for different emergency scenarios. All mock drills are conducted as per ERDMP plan. An effective Mutual aid arrangement is in place with neighboring industries, which will ensure active participation of mutual aid organizations in Mock drills. PLL has a Mutual Aid agreement with FACT-UD and BPCL-STF to provide resources during an emergency.</p> <p>All 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 are covered while preparation of ERDMP (Emergency Response and Disaster Management Plan) which is effectively implemented.</p>
xvi	No construction work other than those permitted in Coastal Regulation Zone Notification shall be carried out in Coastal Regulation Zone area.	Noted. No any other construction work will be done in CRZ 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.	PLL has set up Environment Management Cell under General Manager – (Plant Head), other members of the team includes 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 has already been submitted along with six monthly compliance report for the period ending March-2018.
xviii	The funds earmarked for environment management plan shall be included in the budget and this shall not be diverted for any other purposes.	The funds earmarked for environment management plan is included in the budget and will not be diverted for other purposes.

6.	GENERAL CONDITIONS	PLL Remark
I	Appropriate measures must be taken while undertaking digging activities to avoid any likely degradation of water quality.	Noted. PLL have taken appropriate measure while undertaking digging activities. We conduct ground water analysis periodically and latest report is enclosed as Annexure#2 .
li	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, Bangalore and the officers of the Central and State Pollution Control Board during the inspection for monitoring purpose by furnishing full details of analysis reports and action plans for environmental protection.
lii	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.	Noted. Six monthly reports regarding the implementation of the stipulated conditions are regularly been submitted to regional MoEF office for all CRZ Clearance obtained for Kochi LNG Terminal project.
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 of the Ministry's right to revoke clearance for not complying with the conditions stipulated in the clearance.
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.	Noted.
Vi i	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.	Site appraisal clearance obtained on 28 th Feb 2011. No separate land developmental work was required, as this involved only augmentation of equipment in the same land.
Vi ii	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.	PLL has written letter to concerned Gram Panchayat vide letter no. PLL/Kochi/MoEF/GP/2013/001 dated 07 th March-2013; A copy of the letter has already been submitted with six monthly compliance reports dated 05 th April-2013.

ix	State 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.	Action need to be taken by State Pollution control board.
----	--	---

Other Conditions mentioned in the Environment Clearance dated 31st January 2013.

7	These stipulation's 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.	Noted.
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.	Noted. Copies of all relevant approvals/NOCs have already been submitted along with the six monthly compliance reports dated 05 th April-2013.
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 Bengaluru.	PLL had advertised regarding environmental clearance accorded by the Ministry of Environment & Forest in two local newspapers widely circulated in the region around the project. Copy of the advertisement given in the two local newspapers has already been submitted along with the six monthly compliance report dated 30 th September-2013.
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.	Noted.
11	Status of compliance to the various stipulated environmental conditions and environmental safeguards will be uploaded by the project proponent in its website.	Status of the compliance, of various stipulated environmental conditions and environmental safeguards are uploaded in PLL's 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.	Noted.
13	A copy of the clearance letter shall be sent by the proponent to concerned Panchayat, Zilla Parishad/ 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.	PLL has written letter to concerned Gram Panchayat vide letter no. PLL/Kochi/MoEF/GP/2013/001 dated 7 th March-2013, we have already submitted a copy of the letter with six monthly compliance report dated 5 th April 2013.
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.	This is uploaded in the website. www.petronetlng.com .
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.	Noted.
16	The environmental statement for each financial year ending 31 st 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.	We have uploaded Form-V (Environment Statement) along with the status of compliance of clearance conditions in our company's website. Compliance of the clearance conditions is regularly sent to MoEF's regional office by e-mail. The latest Form-V (Environment Statement) for the period of FY 2018-19 is submitted along with six monthly compliance report dated 18.11.2019.

Thanking You,

With Regards

Reddy



(Yogananda Reddy)
General Manager (Plant Head)

Annexure -1



CSR UPDATE KOCHI

**Major Highlights
Oct 2019- Mar 2020**

Environment

Green Shore Event as part of "Haritha Vypin" Project



REDMI NOTE 5 PRO
MI DUAL CAMERA



ഹരിതതീരം പദ്ധതിയുടെ ഭാഗമായി എൽഎൻജി പെട്രോനെറ്റ് പ്രതിനിധി എ.ചിപ്പി പ്രധാനാധ്യാപിക എം.എസ്.ബിന്ദുവിനു തൈകൾ കൈമാറുന്നു. മിനി പുരുഷോത്തമൻ, കെ.കെ.ജോഷി, കെ.വേണു തുടങ്ങിയവർ സമീപം

Healthcare



Disability Assessment camp & Distribution of medical equipment for divyangjans through M/s. ALIMCO



Education

Infrastructure development of schools in Vypin, Kannur, Alappuzha



Education (contd..)

Tobacco Awareness Campaign in SNUP School, Thrikkakara



Education (contd..)

Free bicycles distributed to 544 girl students of fisher folk community across 3 districts in Kerala



Continuous Field Visits for Community Need Assessment

Visits to schools & old age homes



Interview with faculties of SCMS



Visit to Mahatma Buds school in Elankunnapuzha





T
H
A
N
K
S



TEST REPORT

Test Report No: TC540219000004305P	Date: 26.12.2019	Page 1 of 1
------------------------------------	------------------	-------------

CUSTOMER DETAILS			
Customer Name & Address		M/s Petronet LNG Limited Survey No.347, Puthuvypu P.O Kochi , Ernakulam District	
Customer Reference		Test Request Form Dated 20.12.2019	
SAMPLE DETAILS			
Sample Code	19000004305	Sample Received On	20.12.2019
Sample Name	Water	Sampling Procedure	SEAAL/ENL/GEN/SOP/01& SEAAL/MBL/SOP/06
Sample Description	Ground Water Bore Well	Sampling Location	East Side - Green Belt
Identification By Customer	---	Sampling Condition	Good
Sampled On	20.12.2019	Test Started On	21.12.2019
Sampled By	Laboratory	Test Completed on	26.12.2019

SL NO	TEST PARAMETER	TEST METHOD	UNIT	RESULT
01	pH	IS 3025 Part 11:1983 RA 2017	---	7.22
02	Total Dissolved Solids	IS 3025 Part 16:1984 RA 2017	mg/L	403
03	Turbidity	IS 3025 Part 10: 1984 RA 2017	NTU	0.80
04	Chloride (as Cl)	IS 3025 Part 32:1988 RA 2014	mg/L	98.9
05	Iron (as Fe)	IS 3025 Part 53:2003 RA 2014	mg/L	0.50
06	Fluoride(as F)	APHA 23 rd Edition 4500-F- B D: 2017	mg/L	0.60
07	Sulphate (as SO ₄)	IS 3025 Part 24:1986 RA 2014	mg/L	135
08	Electrical Conductivity	IS 3025 Part 14:1984 RA 2013	µS/cm	1085
09	Mercury (as Hg)	APHA (23 rd Edition) 3112-B: 2017	mg/L	< 0.002
10	Lead (as Pb)	APHA (23 rd Edition) 3111-B: 2017	mg/L	< 0.20
11	Copper (as Cu)	IS 3025 Part 42:1992 RA 2014	mg/L	< 0.05
12	Total Chromium (as Cr)	IS 3025(Part 52):2003	mg/L	< 0.40
13	Zinc (as Zn)	APHA 3111B 23 rd Edn, 2017	mg/L	< 0.025
14	Temperature	IS 3025 Part 9:1984 RA 2006	°C	29.0
15	Salinity	SEAAL/SOP/06	ppm	0.18
16	Oil & Grease	IS 3025 Part 39:1991 RA 2014	mg/L	42.0
17	Dissolved Oxygen	IS 3025 Part 38:1989 RA 2014	mg/L	5.78
18	Biochemical Oxygen Demand (3 days at 27 °C)	IS 3025 Part 44:1993 RA 2014.	mg/L	69.7
19	Chemical Oxygen Demand	IS 3025 Part 58:2006 RA 2012	mg/L	594
20	Cyanide (as CN)	IS 3025 (Part-27):1986 (Reaff.2003)	mg/L	< 0.01
21	Cadmium (as Cd)	APHA (23 rd Edition) 3111-B: 2017	mg/L	< 0.03
22	Pesticide	SEAAL/INS/RWM/SOP/01	---	Absent
23*	Insecticide	USEPA 508 : 1995	---	Absent

*Not Under NABL scope

Note: Values given for test parameters Mercury, Lead, Copper, Chromium, Zinc, Cyanide, Cadmium are our MDL (Minimum Detection Level) values as per NABL Scope.

End of Report

For and on behalf of
Standard^S Environmental & Analytical Laboratories



Authorized Signatory

Lalitha P. N.
Laboratory Head

The results are related only to the samples submitted for analysis and this test report shall not be reproduced except in full, without the written approval of the laboratory.

Standard^S Environmental & Analytical Laboratories

Accreditation and Approval: NABL as per ISO 17025: 2017 & "A" Grade Laboratory of KSPCB

K.J. Tower, Pathalam, Udyogamandal P.O., Ernakulam-683 501, Tel. 0484-2546660, 93 87 27 24 02, 90 74 34 14 43

Web: www.sealabs.in, E-mail: seaalab@gmail.com