



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/2018-19/07

21st November, 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 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 30th September 2018.

Thanking You,

With Regards

(T. N. Neelakantan)

Sr. Vice President (Plant Head)

T. N. NEELAKANTAN
Sr. Vice President (Plant Head)
Petronet LNG Limited
Survey No. 347, Puthuvypu PO
Kochi-682 508, Dist. Ernakulam
Kerala (India)

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: +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.

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 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>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.	Regular mock drills are conducted for both On-site as well as Off-site emergency scenarios. All mock drills are conducted as per ERDMP plan. For Off-site emergencies, an effective Mutual aid arrangement is in place; all parties in the Mutual aid actively participate in Off-site Mock drills. PLL has a Mutual Aid agreement with FACT-UD and BPCL-STF to provide resources during emergency. 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.
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 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 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 .
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, 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.
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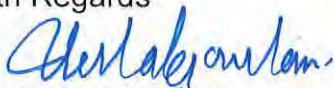
Other Conditions mentioned in the Environment Clearance dated 31st January 2013.

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, ZillaParisad/ 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 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.	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 2017-18 is enclosed as Annexure#3 .

Thanking You,

With Regards



(T. N. Neelakantan)

Sr. Vice President (Plant Head)

T. N. NEELAKANTAN
Sr. Vice President (Plant Head)
Petronet LNG Ltd
Survey No. 347, Puthuvayal
Kochi-682 508, Dist. Ernakulam
Kerala (India)

CORPORATE SOCIAL RESPONSIBILITY - TOUCHING LIVES ... BEYOND BUSINESS!!

Petronet LNG Ltd. as a responsible Corporate Citizen, undertakes Socio-Economic Development Projects to meet priority needs of the marginalised and underserved communities with the aim to make them self-reliant. Petronet LNG Limited (PLL) started its CSR journey from Western Part of India and continued its journey to Southern and Eastern Part of India. Petronet LNG Foundation (PLF), an organisation committed to Sustainable Social Growth leads the CSR Initiatives, dedicated to the cause of humanity was formed dedicated for taking up CSR activities.

The Foundation is focused upon improving quality of lives and promote inclusive growth by way of positioning itself as a parenting force of various Social Change Agents operating at the ground level through the CSR Interventions.

CSR activities are undertaken with adherence to the current mandates of companies Act 2013 (Schedule VII) focusing on enhancing quality of life of the community in the vicinity of business locations as well as across the nation by way of strengthening and contributing in the sectors of Community Healthcare, Water and Sanitation, Education & Skill Development, Infrastructure & Community Asset Generation, Swachh Bharat Abhiyaan, Empowerment of Women, Sports, Art & Culture.

For the Education/Skill Development and Livelihood Generation initiatives a maximum of outreach is targeted and achieved by providing an all-round coverage across the area of operation and taking up initiatives and in several parts of the country directly and in collaboration with several organisations:

- ❑ **Skill Development and Youth Empowerment:** For income generation and bringing rural households out of the vicious cycle of poverty into the virtuous cycle of sustainable livelihoods. In Kerala, Kochi Skill Training Project named "Naipunyam" to train 100 Students in Plastic Technology with CBPST (Centre for Biopolymer Science and Technology), unit of CIPET has been started. The training programme shall focus on building knowledge on plastic product manufacturing, machine operations, trouble shooting and problem solving for different manufacturing process. Similar to this, in Gujarat, "Kaushal Setu" Skill Development Program with CIPET, Ahmedabad initiated to train 100 underprivileged youth from Gujarat. The training programme shall focus on building knowledge on plastic product manufacturing, machine operations.
- ❑ **Education Infrastructure:** Strengthening the educational institutes with infrastructure, Drinking water facilities, , Causality complexes, conducting ideation programmes for the IIT students, basic life support, smart class room facilities and scholarship facilities have been done in the areas of Gujarat and Kerala.

To support the Health and Nutrition related causes several shot and long term projects have been undertaken:

- ❑ **Numma Oonu:** "Numma Oonu" meaning "Our Food" was launched on January 26, 2018 strives to keep alive the dream of a hunger free Kochi by providing one free meal to anyone hungry without sacrificing his/ her dignity in the selected hotels enlisted under KHRA. A Project on providing free food in the District of Ernakulam with Dist. Admin, the Kerala Hotels and Restaurants Association was launched, with an objective of making a hunger free city and ensuring access of food to the needy. More than 13,000 meals served in 5 Months across the City.
- ❑ **Health Camps & Health Infrastructure:** Eye Check-up Camps, Health Camps, Awareness Camps on basic life support, Solid waste management facilities, were organised benefitting about 5,000 people in Bihar, Kerala, Gujarat, Andaman & Nicobar and Delhi.
- ❑ **Swacch Bharat Abhiyan:** Construction and maintenance of around 170 toilet blocks for Boys/ Girls Secondary and Higher Secondary Schools in Assam, Kerala and Gujarat.
- ❑ **Clean Ganga Fund:** Contribution to the Clean Ganga Fund corpus set up by Government of India. The Fund has the objective of contributing to the national effort of cleaning of the river Ganga and will help bring innovation and technological know-how and connect with this national cause.

Towards promotion of sports initiatives have been taken like,

- ❑ **Kabaddi:** With Dist. Kabaddi Association, Ernakulam by providing Kabbadi Mats to Ernakulam District Kabaddi Association and ensuring the strengthening of the Sports Infrastructure in the nearby villages.
- ❑ **Football:** the U-17 FIFA World Cup through developing the Infrastructure (Ground Facility and Water Tank construction).

For better environment and sustainability, in addition of being the importer of the clean fuel the company through CSR initiatives have tried to take up mangrove plantations, afforestation with great zeal and enthusiasm. This includes plantation of about 1000 tress, solid waste management in the nearby schools, and installation of solar lights in the states of Gujarat, Kerala and Rajasthan

Good Samaritan Initiative: Aims to help those who are working with our Contractor and aims to provide support at their time of great need or crisis. Petronet LNG Foundation (PLF) with all the support of the PLL employees is making all efforts to give fresh life to this by engaging deeply with all our contractors to discover genuine cases which are supported.

All of us would fondly recall our dear parents, an aunt, an uncle, a sister, a brother, a neighbour or a friend who supported us in times when we were overwhelmed with our problems. This is an opportunity for us to become that person, again.

The "GIVING" person is always remembered with gratitude and fondness. He or she goes out of their way, as a habit to provide support or help those in need – sometime for a very selfish purpose – to positively invest in the cycle of karma. More often than not these people exude extreme confidence and satisfaction of living a complete life.

❑ Numma Oonu (Providing Free Meals) -

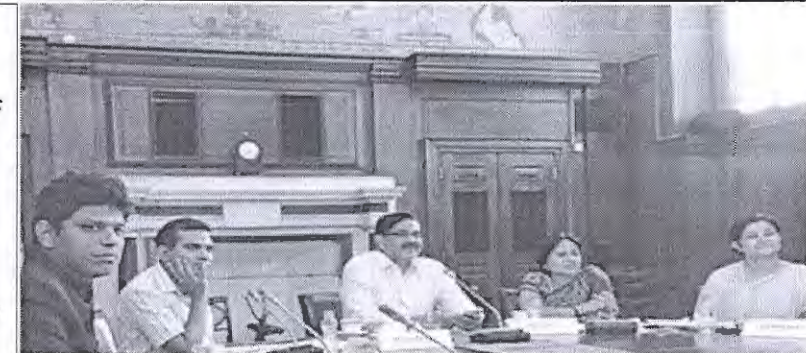
- ✓ Expanded to 20 Locations (500 meals per day at 39 Hotels) with third round of publicity & branding from July 1st 2018.
- ✓ Logo of Petronet Kitchen finalised.
- ✓ Numma Oonu presented before Honourable President's Office with District Collector, Ernakulam.
- ✓ Publicity Video & Numma Oonu Website of the project made.
- ✓ More than 30,000 meals served till date across Ernakulam.

❑ Naipunyam with CBPST (Skill Development) –

- ✓ Kit Distribution, Fire Training & Awareness with periodic monitoring done.
- ✓ Completion of the Valedictory Function of 100 Students.
- ✓ 89 Students placed across several industries.

❑ Flood relief works with employees participation –

- ✓ Relief Materials supply in the Peripheral Villages & Ernakulam (around 20 locations covered) with about Rs 15 Lakh by employee participation.
- ✓ Collection of Rs 4 Lakh in a day for the contract workmen by Kochi Employees.



Numma Oonu – New Centres (Expanded to 20 Locations), Presentation before Secretary to Hon'ble President of India on 30th July 2018



Kit Handover Ceremony & Valedictory Function at CBPST

Highlights

PLANT LEVEL IMPLEMENTED PROJECTS (FY 18-19)

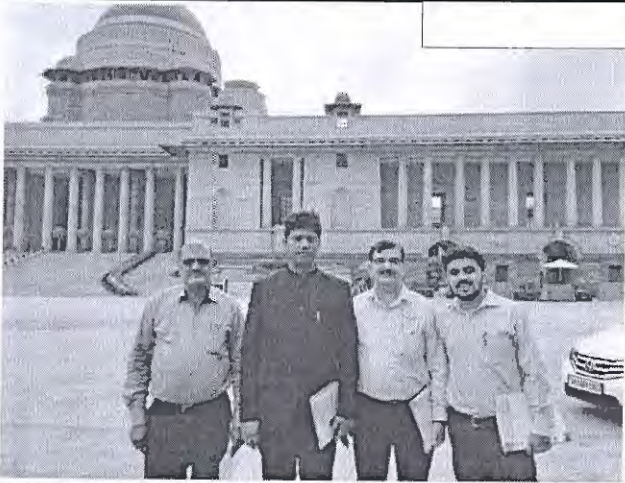
	Amount (INR)
Waste Management facilities at the Taluka Hospital, Permbra, Kozikode	4.90
Construction of Library at Chowva High School, Kannur (Pipeline District)	4.10
Construction of Library & Computer facility at Cheemeni High School, Kasargode	2.33
Installation of three Smart Classrooms at Ernakulam, Kannur and Calicut in L P Schools	3.21
Provision of Study materials support to underprivileged students of Govt. Aided Higher Secondary School for Girls, Venganoor	3.77
Supporting Old age Home with infrastructure & equipment at Guruwayoor	0.87
Implementation of a Vypin programme for Tree Plantation Initiated with Vypin Block Panchayat	5.00
Provision of School Toilets for the month of October 2017 to March 2018	5.00
Support to the art form of Koodiyattam, Ernakulam (Ongoing from FY 17-18)	2.50
TOTAL	31.68



Petronet LNG Foundation
An Organization committed to Sustainable Social Growth

Highlights

NUMMA OONU



നാഴിയൂരി കരുന്ന കൊണ്ട് നാടാകെ സന്തോഷം

‘നൂറുകൾ’ എന്നീ 18 കോശങ്ങളിലേക്ക് എട്ട് നൂറുകിലേയ്ക്ക്...

മാതൃക... ഏകദേശം 18 കോശങ്ങളിലേക്ക് എട്ട് നൂറുകിലേയ്ക്ക്... ഏകദേശം 18 കോശങ്ങളിലേക്ക് എട്ട് നൂറുകിലേയ്ക്ക്...

ഏകദേശം 18 കോശങ്ങളിലേക്ക് എട്ട് നൂറുകിലേയ്ക്ക്... ഏകദേശം 18 കോശങ്ങളിലേക്ക് എട്ട് നൂറുകിലേയ്ക്ക്...



District Collector with Petronet LNG Officials at Rashtrapati Bhavan (Dr Sanjay Kothari, IAS, Secretary of Hon'ble President chaired the meeting)



PLF Team with District Collector Ernakulam

ബിരുദധാരികളുടെ ക്ഷേമം... വിദ്യാർത്ഥികളുടെ പ്രശ്നങ്ങൾ... കേരളം കേന്ദ്രം

Newspaper Clippings of Numma Oonu Expansion

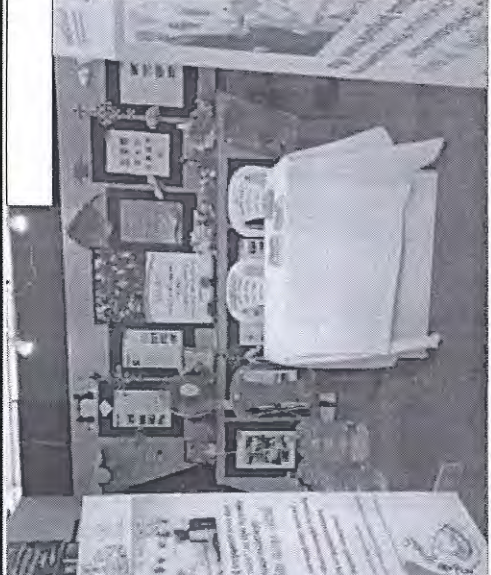
ജില്ലാ ഭരണകൂടത്തിന്റെ നൂറുകൾ ഉണ്ട് പിറവത്തും

Newspaper Clippings of Numma Oonu Expansion

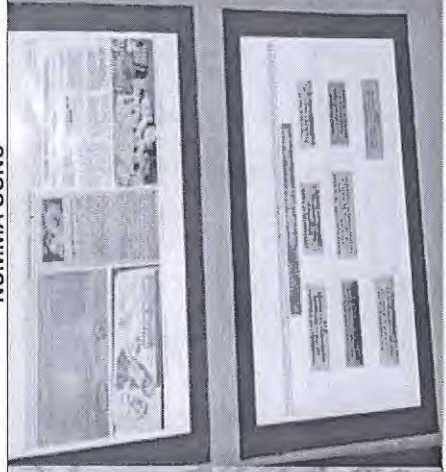


Petronet Kitchen Logo

Highlights

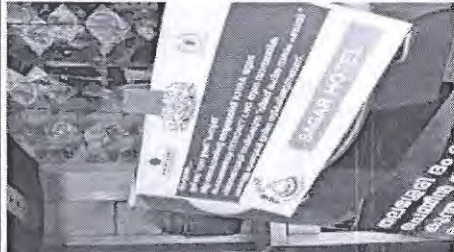


NUMMA OONU



Expansion Meeting and Plan

On the Anniversary of the State Govt. Numma Onnu Stall at Marine Drive



നൂറു കൂടുതൽ: 500 കുടുംബങ്ങൾ ദിവസവും വിതരണം ചെയ്യും

കോട്ടയം • കോട്ടയം ജില്ലയിൽ 500 കുടുംബങ്ങൾക്ക് ദിവസവും 500 കുടുംബങ്ങൾക്ക് വിതരണം ചെയ്യും. കോട്ടയം ജില്ലയിൽ 500 കുടുംബങ്ങൾക്ക് ദിവസവും 500 കുടുംബങ്ങൾക്ക് വിതരണം ചെയ്യും. കോട്ടയം ജില്ലയിൽ 500 കുടുംബങ്ങൾക്ക് ദിവസവും 500 കുടുംബങ്ങൾക്ക് വിതരണം ചെയ്യും.

3862

കോട്ടയം ജില്ലയിൽ 500 കുടുംബങ്ങൾക്ക് ദിവസവും 500 കുടുംബങ്ങൾക്ക് വിതരണം ചെയ്യും. കോട്ടയം ജില്ലയിൽ 500 കുടുംബങ്ങൾക്ക് ദിവസവും 500 കുടുംബങ്ങൾക്ക് വിതരണം ചെയ്യും. കോട്ടയം ജില്ലയിൽ 500 കുടുംബങ്ങൾക്ക് ദിവസവും 500 കുടുംബങ്ങൾക്ക് വിതരണം ചെയ്യും.



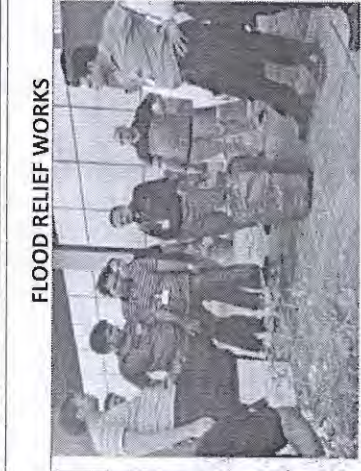


Peironet LNG Foundation
The Oil Spill Response Authority's Non-Profit Partner

Highlights



FLOOD RELIEF WORKS



Highlights



Programme Inauguration



VYPIN PROJECT
AT
K PANCHAYATH,
LAM, KERALA

tion
Rural Growth
- 2018-2019

itha Vypin



Chowva GHSS Library Inauguration



Chowva Library Inauguration



CBPST Visits and Kit Handover Ceremony



Petronet LNG Foundation
"An Organization Committed to Sustainable Social Change"

Highlights

Smart Classrooms at Ernakulam, Kasargode and Kozhikode



Solid Waste Management Plant at Taluka Hospital Perambra, Kozhikode

Highlights



ing At Kunjipara

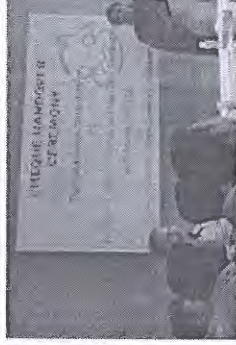


Wash And Toilet Cleaning At Talawchpara

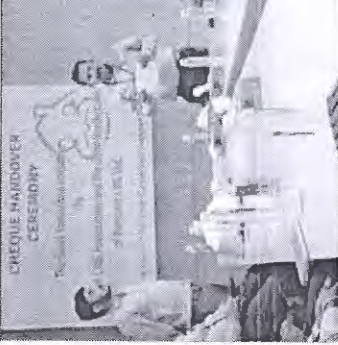


Wash And Toilet Cleaning At Kunjipara

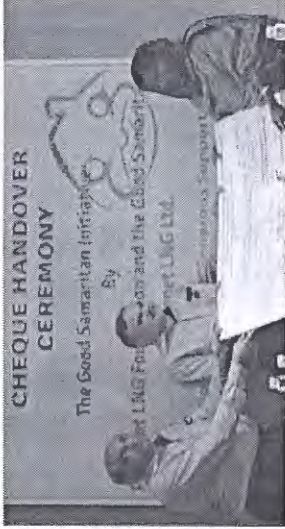
Good Samaritan Support Hand



Good Samaritan Support Hand



Good Samaritan Support Hand



Good Samaritan Support Handed Over To Ms Shakeela



Support Handed Over Mr Vijayan



Ms Shakeela's Daughter - Thanks Card for the Support

ing At Kunjipara



ing At Kunjipara



At Anandamkudy



CSR Expenditure (FY 18-19, KOCHI)

CONSUMED IN FY 18-19

RS 1.3 CRORE

Consumption Summary of Annual CSR Expenditure Approved at Plant Level (PLL + PLF) – 2018-2019

HEADS	AMOUNT (INR)
CONSUMED & UNDER IMPLEMENTATION	30.73 LAKH

Consumption Summary of Annual CSR Expenditure Approved at Corporate (Kochi Terminal) 2018-2019

X RAY UNIT – UNDER IMPLEMENTATION	96.00 LAKH (APPROX)
VELICHAM – UNDER IMPLEMENTATION	
NUMMA OONU – RS 25 LAKH	
FLOOD RELIEF – RS 15 LAKH	
CBPST (NAIPUNYAM) – RS 30 LAKH	

Media & Accolades

ജാ ക്ലാസ്

കുടുംബം, കമ്പനി, സമൂഹത്തിൽ നിലവാരമുള്ളതും സമൂഹത്തിന് സഹായകരമായതും മറ്റും സഹായം നൽകുന്ന ക്ലാസ്സുകളെയാണ് ജാ ക്ലാസ്സുകൾ എന്ന് വിളിക്കുന്നത്. ജാ ക്ലാസ്സുകൾക്ക് പലതരം പ്രയോജനങ്ങൾ ഉണ്ട്. ഇവയ്ക്ക് പലതരം പ്രയോജനങ്ങൾ ഉണ്ട്. ഇവയ്ക്ക് പലതരം പ്രയോജനങ്ങൾ ഉണ്ട്.

Awareness Programme

കുടുംബം, കമ്പനി, സമൂഹത്തിൽ നിലവാരമുള്ളതും സമൂഹത്തിന് സഹായകരമായതും മറ്റും സഹായം നൽകുന്ന ക്ലാസ്സുകളെയാണ് ജാ ക്ലാസ്സുകൾ എന്ന് വിളിക്കുന്നത്. ജാ ക്ലാസ്സുകൾക്ക് പലതരം പ്രയോജനങ്ങൾ ഉണ്ട്. ഇവയ്ക്ക് പലതരം പ്രയോജനങ്ങൾ ഉണ്ട്.

Onnu Project – Hunger City



Future Group Award for Best emerging CSR Brand



Rotary Club Recognition For Committed Services



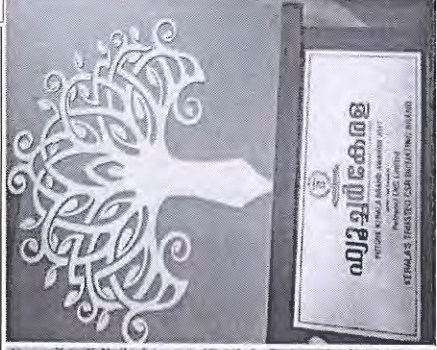
Sr. VP (Plant Head) received from UK



Press Clippings Of The Fire Training provided at the peripheral schools



Rotary Club Memento to PLL CSR



Future Group Trophy to PLL

Press Clipping for t

Test Report No: SEAL/1808/WA/R096	Date: 30.08.2018	Page 1 of 1
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CUSTOMER DETAILS			
Customer Name & Address		M/s Petronet LNG Limited Survey No.347 ,Puthuvypu P.O Kochi - 682 508	
Customer Reference		Test Request Form Dated 24.08.2018	
SAMPLE DETAILS			
Sample Code	SEAAL/1808/WA/S096	Sample Received On	27.08.2018
Sample Name	Water	Sampling Procedure	---
Sample Description	Ground Water- Bore Well	Sampling Location	East Side
Identification By Customer	---	Sampling Condition	Good
Sampled On	24.08.2018	Test Started On	27.08.2018
Sampled By	Laboratory	Test Completed on	30.08.2018

SL NO	TEST PARAMETER	TEST METHOD	UNIT	RESULT	ACCEPTABLE LIMIT (IS 10500 - 2012)
01	pH	IS 3025 Part 11:1983 RA 2012	---	7.21	6.50 - 8.50
02	Total Dissolved Solids	IS 3025 Part 16:1984 RA 2012	mg/L	171	500 (Max)
03	Turbidity	IS 3025 Part 10: 1984 RA 2012	NTU	0.50	1.00 (Max)
04	Chloride (as Cl)	IS 3025 Part 32:1988 RA 2014	mg/L	20.5	250 (Max)
05	Iron (as Fe)	IS 3025 Part 53:2003 RA 2014	mg/L	0.38	1.00 (Max)
06	Fluoride(as F)	APHA 23 rd Edition 4500-F- B D: 2017	mg/L	< 0.10	1.00 (Max)
07	Sulphate (as SO ₄)	IS 3025 Part 24:1986 RA 2014	mg/L	23.4	200 (Max)
08	Electrical Conductivity	IS 3025 Part 14:1984 RA 2013	µS/cm	281	---
09	Mercury (as Hg)	IS 3025 Part 48:1994 RA 2014	mg/L	< 0.001	0.001 (Max)
10	Lead (as Pb)	IS 3025 Part 47:1994 RA 2014	mg/L	< 0.01	0.01 (Max)
11	Copper (as Cu)	IS 3025 Part 42:1992 RA 2014	mg/L	< 0.05	0.05 (Max)
12	Total Chromium (as Cr)	IS 3025 Part 52:2003 RA 2014	mg/L	< 0.05	0.05 (Max)
13*	Zinc (as Zn)	IS 3025 Part 49:1994 RA 2009	mg/L	< 0.20	5.00 (Max)
14	Temperature	IS 3025 Part 9:1984 RA 2006	°C	27.0	---
15*	Salinity	SEAAL/SOP/06	ppm	37.0	---
16	Oil & Grease	IS 3025 Part 39:1991 RA 2014	mg/L	< 5.00	---
17	Dissolved Oxygen	IS 3025 Part 38:1989 RA 2014	mg/L	7.05	---
18	Biochemical Oxygen Demand (3 days at 27 °C)	IS 3025 Part 44:1993 RA 2014	mg/L	< 2.00	---
19	Chemical Oxygen Demand	IS 3025 Part 58:2006 RA 2012	mg/L	< 10.0	---
20*	Cyanide (as CN)	IS 3025 Part 27:1986 RA 2009	mg/L	< 0.01	0.05 (Max)
21	Cadmium (as Cd)	IS 3025 Part 41:1992 RA 2014	mg/L	< 0.003	0.003 (Max)
22*	Pesticide	USEPA 508 : 1995	---	Absent	---
23*	Insecticide	USEPA 508 : 1995	---	Absent	---

*Not Under NABL scope

End of Report

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

Laiju 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 authorization of the Laboratory

Standard^s Environmental & Analytical Laboratories

Accreditation and Approval: NABL as per ISO 17025: 2005 & "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: sealab@gmail.com, info@sealabs.in



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
11.09.2018

PLL/KOCHI/KSPCB/Form-V/2018-19

KSPCB Consent No: PCB/HO/EKM/ICO-R/12/2016.

To,

The Chief Environmental Engineer,
Kerala State Pollution Control Board,
Gandhinagar, Kochi - 682020.

Sub: Submission of Environment Statement (Form-V).

Dear Sir/Madam,

Petronet LNG, Kochi terminal was commissioned on 20th August 2013 and KSPCB Consent number is PCB/HO/EKM/ICO-R/12/2016.

Kindly find Form-V (Environment Statement) of Petronet LNG Ltd, Kochi Terminal for the financial year 2017-2018, as per Environment (Protection) Rules, 1986.

Thanking you,

For, Petronet LNG Ltd.

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

Enclose: Environment Statement (Form-V).

Cc:

The MEMBER SECRETARY,
Kerala State Pollution Control Board,
Pattom P. O.,
Thiruvananthapuram - 695004,
Kerala.

Regd. 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

**ENVIRONMENTAL STATEMENT FORM-V
(See rule 14)**

Environmental Statement for the financial year ending with 31st March 2018

PART-A

1	Name and address of the owner/ Occupier of the industry, operation or process.	:	Mr. Rajender Singh; Director (Technical) Kochi Address: Petronet LNG Limited, Puthuvypu P.O., Ernakulam-382508 Corporate Office: Petronet LNG Limited, World Trade Center, First Floor, Babar Road, Barakamba Lane, New Delhi-110001
2	Industry category	:	Orange
3	Production category. Units.	:	5 Million TPA
4	Year of establishment	:	20 th August 2013
5	Date of the last environmental statement submitted.	:	29-09-2017

PART -B

Water and Raw Material Consumption:

I. Water Consumption (M³/Day)

Process : 10 M³/d
Cooling : Nil
Domestic : 22.74 M³/d

Name of Products	Process water consumption per unit of products	
	During the previous financial year	During the current financial year
1. RLNG	0.010 M ³ /MT	0.006 M ³ /MT

II. Raw material consumption

Name of raw materials	Name of Products	Consumption of raw material per unit of output	
		During the previous financial year	During the current financial year
LNG	RLNG	0.04*	0.017*

*Converted LNG consumed in energy units/ RLNG produced in energy units.

PART-C

Pollution discharged to environment/unit of output
(Parameter as specified in the consent issued)

Pollutants		Quantity of Pollutants discharged (mass/day)	Concentration of Pollutants discharged (mass/volume)	Percentage of variation from prescribed standards with reasons.	
(a) Water		NIL	NIL	NIL	
(b) Air	Equipment	Parameters	Quantity of Pollutants discharged (mass/day)	Concentration of Pollutants discharged (mass/volume)	Percentage of variation from prescribed standards with reasons.
	GTG-A	PM	60.31 Kg/d	63.0 mg/Nm ³	No variation from prescribed standard
		CO ₂	40.43 T/d	2.2 %	
		CO	291.00 Kg/d	243.1 ppm	
		SO ₂	0.0 Kg/d	0.0	
		NO _x	215.65 Kg/d	225.2 mg/Nm ³	
	GTG-B	PM	GTG-B was not running during this period.		
		CO ₂			
		CO			
		SO ₂			
NO _x					
GTG-C	PM	45.89 Kg/d	64.8 mg/Nm ³	No variation from prescribed standard	
	CO ₂	32.67 T/d	2.4 %		
	CO	199.59 Kg/d	225.6 ppm		
	SO ₂	0.0 Kg/d	0.0 mg/Nm ³		
	NO _x	187.27 Kg/d	264.5 mg/Nm ³		
Emergency DG set	PM	0.03 Kg/d	58.5 mg/Nm ³	No variation from prescribed standard	
	CO ₂	0.02 T/d	2.4 %		
	CO	0.06 Kg/d	101.5 ppm		
	SO ₂	0.01 Kg/d	27.4 mg/Nm ³		
	NO _x	0.03 Kg/d	58.4 mg/Nm ³		

b) Air	Fire Pumps-C (Diesel Operated)	PM	0.00 Kg/d	12.8 mg/Nm ³	No variation from prescribed standard
		CO ₂	0.01 T/d	2.4 %	
		CO	0.04 Kg/d	135.8 ppm	
		SO ₂	0.01 Kg/d	29.0 mg/Nm ³	
		NO _x	0.01 Kg/d	48.5 mg/Nm ³	
	Fire Pumps-D (Diesel Operated)	PM	0.00 Kg/d	13.5 mg/Nm ³	No variation from prescribed standard
		CO ₂	0.01 T/d	2.4 %	
		CO	0.03 Kg/d	132.5 ppm	
		SO ₂	0.01 Kg/d	32.8 mg/Nm ³	
		NO _x	0.01 Kg/d	43.3 mg/Nm ³	
	Fire Pumps-E (Diesel Operated)	PM	0.00 Kg/d	12.3 mg/Nm ³	No variation from prescribed standard
		CO ₂	0.01 T/d	2.1 %	
		CO	0.04 Kg/d	131.5 ppm	
		SO ₂	0.01 Kg/d	37.3 mg/Nm ³	
		NO _x	0.01 Kg/d	53.2 mg/Nm ³	
	Fire Pumps-F (Diesel Operated)	PM	0.00 Kg/d	11.3 mg/Nm ³	No variation from prescribed standard
		CO ₂	0.01 T/d	2.2 %	
		CO	0.03 Kg/d	121.0 ppm	
		SO ₂	0.01 Kg/d	36.5 mg/Nm ³	
		NO _x	0.01 Kg/d	59.7 mg/Nm ³	
MSO C	PM	2.27 Kg/d	53.9 mg/Nm ³	No variation from prescribed standard	
	CO ₂	1.88 T/d	2.3 %		
	CO	12.10 Kg/d	229.7 ppm		
	SO ₂	0.00 Kg/d	0.00 mg/Nm ³		
	NO _x	10.74 Kg/d	254.9 mg/Nm ³		

Note: All environmental monitoring activities during the FY 2017-18 was carried out by M/s. Cochin Test House, a KSPCB approved agency.

PART-D
HAZARDOUS WASTES
(As specified under Hazardous Wastes (Management & Handling Rules, 1989))

Hazardous Wastes	Total Quantity (Kg / Nos.)	
	During the previous financial year	During the current financial year
1. Used Oil (Schedule 1, Category: 5.1)	2677.5 Kg	2898.5 Kg
2. Waste residue containing oil (Schedule 1, Category: 5.2)	NIL	254 Kg
3. Discarded containers or barrels used for handling of hazardous wastes or chemicals (Schedule 1, Category 33.3). (used for storing dosing chemicals and used oil)	579 Nos.	753 Nos.
4. Industrial use of paint, plastic and Ink wastes (Schedule 1, Category 21.1)	NIL	3330 Kg
(b) From pollution control facilities	None	None
DCP Powder	NIL	5260 Kg
Insulation waste	NIL	815 Kg
General plastic	NIL	534 Kg

Note:

- (1) We have received approval from KSPCB for storage of Hazardous waste upto 1 year, vide consent No. PCB/HO/EKM/ICO-R/12/2016 dated 28.02.16.
- (2) For converting used oil from KL to Kg, the density of used oil is taken as 850 Kg/m³

PART -E
SOLID WASTES:

Solid Wastes	Total Quantity (Kg)	
	During the previous financial year	During the current financial year
a. From process	NIL	NIL
b. From Pollution Control Facility	NIL	NIL
c. Quantity recycled or re-Utilised within the unit.	NIL	NIL

PART -F

Please specify the characteristics (in terms of concentration and quantum) of hazardous as well as solid wastes and indicate disposal practice adopted for both these categories of wastes.

Sl: No	Hazardous wastes	:	Composition
1	Used oil (Cat 5.1)	:	Organic Matter – 98 – 99 %, Inorganic Matter – 1 – 2 %.
2	Waste residue containing oil (Schedule 1, Category: 5.2)	:	Hydrocarbon
3	Discarded containers / barrels and Plastic/Ink/paint wastes (Cat 33.3)	:	Plastic or metallic barrels containing chemical / oil residue.
4	Industrial use of paint, plastic and Ink wastes (Schedule 1, Category 21.1)	:	Paint pigment, solvents etc.
5	DCP Powder	:	Potassium bicarbonate with urea base
6	Insulation waste	:	Polyisocyanurate (PIR)

Storage and disposal practice:

Hazardous wastes generated inside the terminal is being disposed through an agency, authorized by Kerala state pollution control board (KSPCB). Petronet LNG Limited has made agreement with M/s. Cee Jee lubricants for disposing used oil generated in the terminal. Used oil generated is been collected in MS barrels or other suitable containers at the generation point. Collected waste is stored in hazardous waste storage area designated for the purpose with impervious flooring and proper roofing and handed over to authorized vendor for disposal.

Waste residues containing oil such as oil soaked cotton wastes generated at various locations are collected and kept in designated storage bin located inside hazardous waste storage shed. It is be disposed through an authorized agency.

Discarded containers / barrels and Plastic/Ink/paint wastes are collected & stored in hazardous waste storage area of proper roofing and concrete flooring inside the terminal and is disposed through authorised agency, M/s. KEIL (Kerala Enviro Infrastructure Limited).

Hazardous waste storage area is kept clean and display boards are provided at the site for storing hazardous waste as per the category. Records of hazardous wastes generated in the terminal are maintained in Form 3.

Petronet LNG Ltd, Kochi terminal has arrived at an agreement with Kerala State Social Forestry for a mangrove afforestation project in Ernakulam district, and the total cost of the project is 71.05 lakhs. Petronet LNG Limited have already transferred fund of Rs.45.00 lakh for the Mangrove Afforestation Project which is entitled "Project for Mangrove afforestation in Ernakulam district".


Petronet LNG Limited, Kochi has installed and commissioned one Continuous environment monitoring station with LED display.

PART -I

MISCELLANEOUS:

Any other particulars in respect of environmental protection and abatement of pollution.

Nil

For and on behalf of Petronet LNG Limited	
Sign	: 
Date	:
Approved By : T. N. Neelakantan	
Designation : Sr.VP (Plant Head)	

PART-G

Impact of the pollution control measures taken on conservation of natural Resources and consequently on the cost of production.

We have developed and implemented Environment Management Cell (EMC), the cell is headed by GM (Operations & Maintenance), and other members are the Head of Lab, Civil, Materials, Technical and HSE. Sufficient man-hours are allocated for functioning of EMC. Environment management cell meets once in a month and take review of the situation.

We have adopted Dry low emission burner (DLEB) in our GTG, this system ensures that the stringent emission standards are met.

We have installed Continuous Ambient Air Quality Monitoring Station (CAAQMS) in our terminal, which is linked to CPCB server. CAAQMS is capable of continuous monitoring of ambient air quality and the results are transmitted to CPCB server on a regular basis.

PART -H

Additional measures/investment proposal for environmental protection including abatement of pollution.

Hazardous Waste storage facility is developed with separate compartment and big storage bins for different categories of waste including e-waste, used battery, plastic waste etc. Photo of the storage facility is given below.

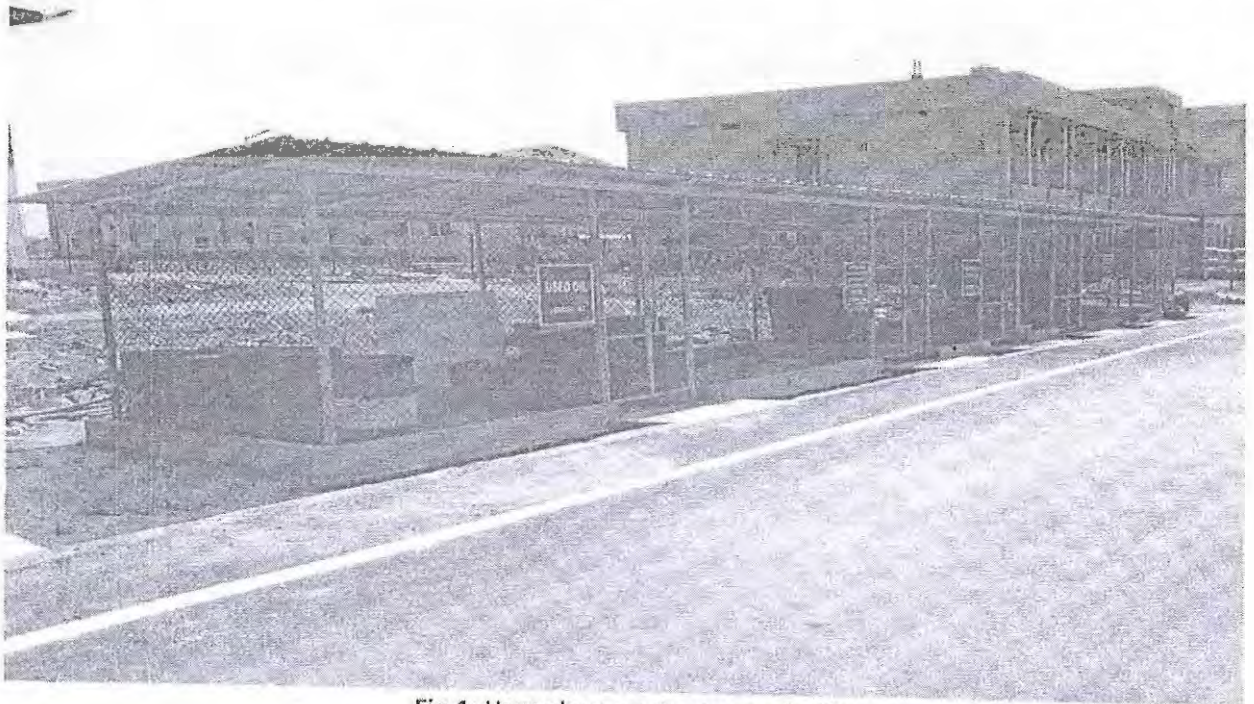


Fig-1: Hazardous waste storage facility.

Petronet LNG Limited, Kochi terminal has entered into an agreement with M/s Kerala Enviro Infrastructure Limited (KEIL) for E-waste disposal on 18th August, 2014 and this agreement is in force for a period of 5 years.

Petronet LNG Limited, Kochi terminal has implemented Environment Management System (ISO: 9001:2008, ISO 14001:2004 & OHSAS 18001:2007) and got certified in DEC-2015.