



# Petronet LNG Limited

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CIN L74899DL1998PLC093073

PLL/KOCHI/MOEF/2018-19/01

28<sup>th</sup> May, 2018

## Additional Principal Chief Conservator of Forests (C)

Ministry of Environment, Forest and Climate Change,  
Regional Office (SZ),  
Kendriya Sadan, 4<sup>th</sup> Floor, E&F Wings, 17<sup>th</sup> 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 2<sup>nd</sup> June 2003.

Sir,

The Six monthly compliance report for the above clearances are attached for the period ending 31<sup>st</sup> 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.

**COMPLIANCE REPORT of CRZ Clearance no. J-16011/26/2001-IA-III vide your letters dated 02nd JUNE 2003 for the Construction of LNG Import Terminal at Puthuvypeen Island, Kochi, Kerala by M/s Petronet LNG Ltd.**

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

i. All the conditions stipulated by the Science Technology and Environment Department, Government of Kerala vide their Letter No. 4215/B1/2000/STED, dated 9<sup>th</sup> February-2001 should be effectively implemented.

- **Conditions mentioned in the Letter No. 4215/B1/2000/STED, dated 9<sup>th</sup> February-2001 does not specifies and conditions for compliance.**
- **Conditions mentioned in the Letter No. 1143/A2/2005/STED dated 14<sup>th</sup> October-2005 from Kerala coastal Zone Management Authority are and PLL compliance remarks are as under:**

Sr. No.	Conditions mentioned	PLL Compliance remarks
1.	No activities will be undertaken in the Mangrove area or in the buffer zone of the mangrove. The route of the pipeline and other activities shall have minimum of 50m from the nearby mangroves and forest land if any in the CRZ area.	PLL's plot is not in the mangrove area, it is about 100 m away from the buffer zone. All activities including the laying of pipelines are confined within the PLL's plot.
2.	Expansion of existing service road in the Costal Regulation Zone-I shall not be carried out.	Expansion of the existing service road in the Costal Regulation Zone-I belongs to Panchayat and PLL will not do any expansion of the service road.
3.	No groundwater shall be tapped for the project	PLL will not tap any ground water during operation of the terminal as water requirement will be met from the condensed water from air. During construction stage, requirement of water was met by outsourcing. At present the water requirement is met by procuring the water from vendors.
4.	The proponent shall obtain necessary No Objection Certificate (NOC) from Kerala State Pollution Control Board.	PLL has obtained required NOC from Kerala State Pollution Control Board in 1999 vide NOC No. PCB/NOC/EK/117/98 dated

		<p><b>17<sup>th</sup> September-1999</b> which was renewed every time (mostly 2 years) before expiry of its validity period. We have obtained Consent to Operate with <b>No. PCB/HO/EKM/ICO-R/12/2016 dated 28<sup>th</sup> February 2016, and was valid up to on 31<sup>st</sup> March 2018</b>, a copy of the same was submitted along with the six monthly compliance report for the period of October-2016 to March-2017. We have applied for the renewal of our Consent to Operate and we expect to receive the same very soon.</p>
5.	EIA document including risk analysis and disaster management plan should be submitted directly to MoEF for environment clearance, under intimation to this office.	Comprehensive EIA of 2.5 MMTPA Terminal and EIA with QRA and Site emergency response plan of 5 MMTPA terminal has already been submitted with vide letter ND/LNG/K22/2K1 dated 16 <sup>th</sup> Feb-2001 and letter dated 22 <sup>nd</sup> Sept-2011 respectively.

ii. All the conditions stipulated by Kerala Pollution Control Board in their NOC No. PCB/NOC/EK/117/98 dated 17.9.99 should be effectively implemented.

- **Conditions mentioned by KSPCB in the CTE No. PCB/NOC/EK/117/98 dated 17.9.99 are and PLL compliance remarks are as under:**

Sr. No.	Conditions mentioned	PLL Compliance remarks
1	No.3: The applicant shall comply with the instructions that the Board may issue from time to time regarding prevention and control of air, water, land and sound pollution.	PLL will comply with any such instructions from the Board regarding prevention and control of air, water, land and sound pollution.
2	No.4: The effluent treatment facilities proposed namely sewage treatment plant/septic tank, oil traps, hot water cooling facilities etc. shall be provided before commissioning the industry. Addition facilities required, if any to	PLL is generating only sewage waste and is being handled through septic tank and soak pit in individual building; details of STP have been submitted to KSPCB.

	achieve the effluent standards laid down by the Board under section 17(1)(g) of Water (Prevention and Control of Pollution) Act' 1974 shall also be made along with.	PLL will comply with effluent standard of Water Act and if additional facilities are required then PLL will provide those facilities for treatment of effluent.
3	No.5: Air pollution control devices required shall be installed before commissioning the industry for controlling air pollution. Minimum stack/chimney height shall be as detailed below:	PLL is using Natural Gas as fuel for GTGs. GTGs are inbuilt with DLE burner (Low NOx burners) and CEMS.
	69.0 m above ground level for flare stack	PLL had received letter from KSPCB dated 18-10-2010 regarding change in this condition, wherein the flare stack height reduced from 69.0 m to 43.2 m, a copy of this letter had already been submitted with six monthly report dated 30 <sup>th</sup> September-2013.
	5.5 meter above the roof level of Generator room for the Gensets of capacity 750KVA	PLL has provided the stack discharge at 3.5 meter above the roof level of Generator room.
4	No.6: For bringing into use any outlet to discharge and for the discharge of sewage/trade effluent, the applicant shall obtain consent to discharge from the Board under the Water (Prevention and Control of Pollution) Act'1974 before commissioning the industry.	PLL is generating only sewage waste and is being handled through individual building's septic tank and soak pit. PLL has obtained Consent to Operate with <b>No. PCB/HO/EKM/ICO-R/12/2016 dated 28<sup>th</sup>February 2016, and was valid up to on 31<sup>st</sup> March 2018</b> , a copy of the same was submitted along with the six monthly compliance report for the period of October-2016 to March-2017. We have applied for the renewal of our Consent to Operate and we expect to receive the same very soon.
5	No.7: The applicant shall obtain the "Consent to Operate" from the Board under the Air (Prevention and Control of Pollution) Act'1981 before commissioning the industry.	PLL has obtained Consent to Operate with <b>No. PCB/HO/EKM/ICO-R/12/2016 dated 28<sup>th</sup>February 2016, and was valid up to on</b>

		<b>31<sup>st</sup> March 2018</b> , a copy of the same was submitted along with the six monthly compliance report for the period of October-2016 to March-2017. We have applied for the renewal of our Consent to Operate and we expect to receive the same very soon.
6	No.8: The sign board showing the name of the industry shall be displayed at the entrance of the site.	PLL has displayed the sign board showing name of the industry at the entrance of the site.
7	No.9: Suitable species of trees shall be planted and maintained within and along the periphery of the factory premises, forming a green belt to improve the environment.	Green Belt area has been developed along the periphery of the factory premises with trees like Gulmohar, Amaltas, Neem etc.
8	No.10: The date of commissioning of the industry shall be intimated to the Head Office and Regional office concerned of the Board at least one month in advance.	PLL had informed the date of commissioning of the industry vide letter no PLL/KOCHI/KSPCB/2013-14/C-06 dated 07 <sup>th</sup> August-2013, A copy of this letter has already been submitted with six monthly report dated 30 <sup>th</sup> September-2013.
9	No.11: There shall not be any fugitive emission from the plant/premises.	There will not be any fugitive emission from the plant/premises.
10	No.12: The location of the industry shall be as shown in the drawing attached. No change or alteration to the above shall be made.	There is no change made in the location of the industry, Location of the industry is as per the drawing.
11	No.13: The temperature difference between cooling water discharged and the receiving water body (sea water) temperature shall not be more than 50C and monitoring arrangements for the same shall be provided.	PLL will not discharge cooling water into sea or any other water body.
12	The ambient sound level measured at a distance of 1 m away from the boundary shall not exceed 65 dB (A) during day time and 55 dB (A) during night time.	Ambient sound levels measured at a distance of 1 m away from the boundary walls are well within the limits. Ambient sound level monitoring is done every month by KSPCB approved agency and the compiled

		report for the period of October-17 to March-18 is enclosed as <b>Annexure#1</b> .
13	Consent to establish shall be obtained prior to setting up of captive power plant in futures.	PLL has incorporated the details of GTG, used for captive power generation, in the subsequent application of the renewal for Consent to Establish.

iii. No change in scope of work shall be made without prior approval of this Ministry.

- **Any change in scope would be carried out only with the prior approval of the Ministry.**

iv. Project proponent shall take all safety measures and take into account the dynamics of the marine/coastal area before constructing the break waters. The recommendations made by CWPRS shall be duly implemented. The dredged materials shall be disposed of as per the recommendations by CWPRS.

- **The location and size of the basin has been arrived at after detailed model studies conducted by CW&PRS and further revalidated by HR Wallingford. The dredged material is being disposed off at the prescribed off-shore dumping ground identified as per CWPRS recommendations for Cochin Port Trust.**
- **The Cutter suction Dredger's dredging material is dumped on the western side of the terminal as per the Cochin Port Trust allocated area for dumping. The Trailer Suction Dredger's dredging material is being dumped at the designated dumping site of Cochin Port at outer sea, about 15.6 km from the shore.**

v. No activities will be undertaken in the mangrove area or in the buffer zone of the mangroves. The route of the pipeline and other activities shall have minimum of 50 meters distance from the nearby mangrove and forest lands, if any, in the CRZ area. Expansion of existing service road into Coastal Regulation Zone-I (I) shall not be carried out.

- **PLL plot is not in the mangrove area and is at about 100m from the buffer zone. All activities and pipelines are confined to this plot. The existing service road which belongs to Panchayat has not been expanded into the Coastal Regulation Zone-I (i) area.**

vi. The laying and commissioning of the pipelines shall be in accordance with the established procedures; practices and rules. LNG facilities shall be designed, constructed and operated as per existing international standards. The pipelines shall be provided with in-built gas



leakage detection and warning system. Adequate measures for monitoring pressures in excess of those for which the pipeline is designed shall be ensured to prevent leakage of gas.

- **The terminal construction complies with all existing International codes and best practices. Sufficient safety measures and warning systems are being built into the system for detection of gas leakage, overpressure and other deviations in operating parameters. Details regarding the same has already been submitted with six monthly report dated 30<sup>th</sup> September-2013.**
  - **Standards such as OISD-194, EN: 1473, NFPA 59A and others are followed during the terminal construction.**
- vii. Design and alignment of the pumping platform/jetty and other structures should be chosen in such a way that it causes minimum resistance to the flow of tidal waters.
- **Jetty structure was designed and constructed after due consideration of this aspect. Jetty foundation is built on piles structure to cause minimum disturbance to tidal waters.**
- viii. The pipelines related to effluent discharge, sea water intake and pumping of LNG should be laid on sea floor after trenching. Trenching operations should be restricted to minimum area to minimize damage to benthic fauna.
- **PLL has already submitted to MoEF the change of the regasification process of the terminal and Sea water intake is not required in Shell and Tube Vaporizers (STVs). It may be noted that PLL will not use sea water in any manner nor will discharge any effluent into the sea during operation of the terminal. Pipelines for LNG pumping from jetty to tanks are laid above ground along with trestle.**
- ix. Disposal facilities should be completed prior to the commissioning of project activities. As per the thermal Plume Studies by NIO, Goa, the return water should be discharged at a location having water depth of about 3 m. Post monitoring should be carried out at definite intervals in order to ensure mid-course corrections, if any, for maintenance of environmental quality.
- **PLL has already submitted to MoEF the change of the regasification process of the terminal and Sea water intake is not required in Shell and Tube Vaporizers (STVs). It may be noted that PLL will not use sea water in any manner nor will discharge any effluent into the sea during operation of the terminal. As PLL is not using sea water in any manner this condition is not applicable.**

- x. Fish eggs, larvae and small fish as well as plant and animal plankton pass through the water intake screen and at times through the trash bars. Accordingly, the water intake for regasification purpose is to be provided with a velocity cap, trash bars, and low intake velocity be maintained to minimize the entry of debris and fish.
- **PLL has already submitted to MoEF the change of the regasification process of the terminal and Sea water intake is not required in Shell and Tube Vaporizers (STVs). As PLL is not using sea water in any manner this condition is not applicable.**
- xi. No groundwater shall be tapped for the project.
- **PLL did not tap groundwater during construction stage and will not during operation phase. Water requirement during operation of the terminal will be generated and met from the condensed water from air. At present the water requirement is met by procuring the water from vendors due to running of terminal at low output.**
- xii. Specific arrangement for rainwater harvesting should be made in the project design and the rainwater so harvested should be optimally utilized.
- **Rainwater collection system is in place for LNG storage tanks top and the water collected is being used in the terminal.**
- xiii. The Bathymetric survey of the dredged material disposal site should be carried out regularly and it should be ensured that there is no navigational hazard due to reduction of navigational depth as a result of project activities. Location of dumping site should be informed to all concerned.
- **The dredged material disposal site is Common dumping site at outer sea, 15.6 km away from shore and managed by Cochin Port Trust. The survey is being carried out by Cochin Port Trust.**
- xiv. Regular surveys shall be conducted to identify changes in the channel morphology so that navigational hazards are minimal.
- **The channel belongs to Cochin Port and its Morphology survey is done by Cochin Port Trust.**
- xv. Mangrove afforestation will be promoted in consultation with the expert agencies and the local NGOs in the area. A detailed plan shall be worked out in this regard and submitted to this Ministry within 3 months.



- A Detailed plan for Mangrove afforestation has already been submitted with six monthly report dated 30<sup>th</sup> September-2013.
  - 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.45.00 lakh for the Mangrove Afforestation Project which is entitled “Project for Mangrove afforestation in Ernakulam district” All details with regard to this project had already been submitted with six monthly compliance report dated 30<sup>th</sup> March-2015. An updated progress report of the project is enclosed as Annexure # 2.
- xvi. Marine environment shall be periodically monitored to assess changes, if any, in the ecology and suitable remedial measures, if any required, shall be taken.
- PLL is conducting marine water sampling and analysis by a KSPCB approved third party M/s. Cochin test house and the report suggest no adverse change in the marine environment.
  - Latest copy of the marine water sampling report dated December-17 is enclosed as Annexure # 3.
- xvii. The budget allocated for environment safeguard measures shall not be diverted for any other purpose.
- Budget allocated for environment safeguard is not diverted for any other purposes. PLL has provided budget for the environment safeguard and details of the expenditure is enclosed as Annexure# 4.
- xviii. The comprehensive Environmental Impact Assessment report shall be completed early and the final report submitted to this Ministry within one year from the date of this clearance letter. Based on the comprehensive EIA report, additional environmental safeguards, as required, shall be implemented by the proponents.
- Comprehensive EIA of 2.5 MMTPA Terminal and EIA with QRA and Site emergency response plan of 5 MMTPA terminal has already been submitted with vide letter ND/LNG/K22/2K1 dated 16<sup>th</sup> February-2001 and letter dated 22<sup>nd</sup> September-2011 respectively.
- xix. Based on the risk analysis, Disaster Management Plan should be prepared and submitted to this Ministry within 6 months. Necessary safety norms for the movement of LNG ships are to be laid down by Cochin Port Trust Authorities within their jurisdiction and communicated to the project proponent for strict compliance with a view to prevent collision, grounding or ramming or any other major accidents.

- EIA with QRA and site emergency response plan (for 5 MMTPA terminal) submitted to MoEF vide letter dated 22<sup>nd</sup> September-2011 for EAC recommendations.
- Emergency Response and Disaster Management Plan of Petronet LNG Ltd, Kochi terminal was submitted with six monthly compliance report dated 05<sup>th</sup> April-2013.

5. **GENERAL CONDITIONS:**

i.	Construction of the proposed structure should be undertaken meticulously conforming to the existing Central/local rules and regulations including Coastal Regulation Zone Notification, 1991 and its amendments. All the construction designs/drawings relating to the proposed construction activities must have approvals of the concerned State Government Departments/ Agencies.	The construction drawings have been approved by the concerned State Government Department/Agencies like Department of Factories and Boilers, Fire and rescue Services etc. Copy of the approvals of Factories and Boiler, Fire rescue services has already been submitted with six monthly compliance report dated 05 <sup>th</sup> April-2013.
ii.	The proponent shall ensure that as a result of the proposed constructions, ingress of the saline water into the groundwater does not take place. Piezometers shall be installed for regular monitoring for this purpose at appropriate locations on the project site.	<ul style="list-style-type: none"> <li>▪ PLL is continuously ensuring that there is no ingress of saline water into the ground water by periodic analysis of ground water, and for the same we have installed two Piezometers at appropriate locations.</li> <li>▪ Sampling of the water drawn from Piezometers is being carried out by approved third party. The latest Ground water analysis report for the month of February-18 is enclosed as <b>Annexure#5.</b></li> </ul>
iii.	Handling, manufacturing, storage and transportation of all hazardous chemicals should be carried out in accordance with MSIHC Rules, 1989 and subsequent amendments, All approvals from State and Central nodal agencies including OISD, Chief Controller of Explosives, Chief Inspectorate of Factories must be obtained. A comprehensive contingency plan in collaboration with the concerned authorities must be formulated before commissioning of the project to meet any eventuality in case of an accident	<ul style="list-style-type: none"> <li>▪ We have applied for NOTIFICATION OF SITES to Factories &amp; Boilers department vide letter no. PLL/KOCHI/F&amp;B/2012-13/C-04 dated 28th November 2012 as per requirement of MSIHC rules 1989. The same has already been submitted with six monthly compliance report dated 05<sup>th</sup> April-2013.</li> <li>▪ We have received final clearance from Chief Controller of Explosive for commissioning of Jetty, LNG unloading line, LNG tanks, and Regasification facilities with letters dated 04<sup>th</sup> February-2013. We have already submitted the same with six monthly compliance reports, dated 05<sup>th</sup> April-2013.</li> </ul>

		<ul style="list-style-type: none"> <li>▪ Permit to construct and plan approvals were obtained from Director of Factories and Boilers. We have already submitted the details regarding the same with six monthly compliance report, dated 05<sup>th</sup> April-2013.</li> <li>▪ We have received the renewed factory license dated 30<sup>th</sup> January 2018, valid till 31<sup>st</sup> December-2018; a copy of the same is enclosed as <b>Annexure#6</b>.</li> <li>▪ We have prepared Emergency response and Disaster Management Plan and it was submitted to District collector office vide letter no. PLL/KOCHI/ERDMP/DC/2014-15/C-01 dated 5th April-2014.</li> <li>▪ A comprehensive contingency plan was prepared in collaboration with the concerned authorities before commissioning of the project to meet any eventuality in case of an accident</li> <li>▪ All approvals as necessary were obtained before the commissioning of the project. Terminal was commissioned on 20<sup>th</sup> August-2013 and all activities related to commissioning were completed by 10<sup>th</sup> September 2013.</li> </ul>
iv.	<p>Minor oil spills are likely to be caused due to ship movement in the port. Engine room waste, oil ballast and tank wash water have to be discharged to the shore reception for treatment by port authorities or by certified contractors. In case of major oil spills due to accidents. Petronet LNG Limited should interact with Kochi Port to ensure full preparedness to undertake all combat operations.</p>	<p>Oil spill Contingency plan is formulated to take care of such eventualities. We have already submitted details regarding the same with six monthly compliance report dated 05<sup>th</sup> 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>
v	<p>Control room/tower should be equipped with modern communication and control device to act instantaneously if spill/leakage occurs. At the jetty, loading arm</p>	<ul style="list-style-type: none"> <li>▪ Control room is equipped with modern communication and control facilities including emergency shut-down systems in the event of spill occurring.</li> <li>▪ Loading arms are equipped with latest</li> </ul>

	should be equipped with latest Emergency Release Systems (ERS) and monitoring device for LNG services. Articulated cargo transfer arm should be used at the unloading jetty. It shall be ensured that LPG and LNG tankers are scheduled properly to avoid bunching and also that LPG will not be unloaded from the ship when the LNG tanker is at berth.	Emergency Release System (ERS). <ul style="list-style-type: none"> <li>▪ We do not handle LPG at our jetty so the condition stand complied.</li> </ul>
vi.	Dry chemical firefighting extinguishers should be provided at all levels of the jetty to permit personnel to fight small fires. Water spray for dispersing un-ignited vapour clouds should be kept as standby. Full- fledged firefighting facilities should be provided at jetty.	<ul style="list-style-type: none"> <li>• Full-fledged firefighting facilities is provided in the jetty to handle any emergencies in the event of a fire.</li> <li>• DCP extinguishers are provided at every level of jetty. Water curtain system is also provided at required locations.</li> </ul> <p>Brief note on Fire protection facilities have already been submitted with six monthly compliance report dated 30<sup>th</sup> September-2013.</p>
vii.	A well-equipped laboratory with suitable instruments to monitor the quality of air and water shall be set up as to ensure that the quality of ambient air and water conforms to the prescribed standards. The laboratory will also be equipped with qualified manpower including a marine biologist so that the marine water quality is regularly monitored in order to ensure that the marine life is not adversely affected as a result of implementation of the said project. The quality of ambient air and water shall be monitored periodically in all the seasons and the results should be properly maintained for inspection of the concerned pollution control agencies. The periodic monitoring reports at least once in 6 months must be sent to this Ministry (Regional Office at Bangalore) and State Pollution Control Board.	<ul style="list-style-type: none"> <li>▪ A well-equipped laboratory with suitable Equipments for monitoring the quality of air and water is in place, with Qualified and competent personals. However, PLL is carrying out periodic monitoring of environmental parameters by KSPCB approved agency.</li> <li>▪ Ambient air monitoring is carried out once in a month at four different locations and analysis report for the month of October-17 to March-18 is enclosed as <b>Annexure # 7</b>.</li> <li>▪ PLL is conducting marine water quality analysis, once in six month. The latest test report, dated December-17 is enclosed as <b>Annexure # 3</b>.</li> </ul>
viii.	Adequate provisions for infrastructure facilities such as water supply, fuel for cooking, sanitation, etc must be provided for the laborers during the construction period in order to avoid damage to	<ul style="list-style-type: none"> <li>▪ During the construction phase, PLL has provided adequate infrastructure facilities such as water supply, fuel for cooking, sanitation, etc. to the labourers.</li> <li>▪ Labour colonies were not located in</li> </ul>

	the environment, Colonies for the laborers should not be located in the Coastal Regulation Zone area. It should also be fuel wood purpose	Costal Regulation Zone area.
ix.	To prevent discharge of sewage and other liquid wastes into the water bodies, adequate system for collection and treatment of the wastes must be provided. No sewage and other liquid wastes without treatment should be allowed to enter into the water bodies.	Individual Septic tanks with soak pits have being provided for collection of sewage. The collected sewages are regular disposal through authorized agency of Cochin corporation.  No sewage or waste from PLL will be allowed to enter water bodies
x.	Appropriate facility should be created for the collection of solid and liquid wastes generated by the barges/vessels and their safe treatment and disposal should be ensured to avoid possible contamination of the water bodies	Vessels and tugs will dispose their garbage as per the guidelines of Annex V of Marpol (IMO). We have already submitted the related details with six monthly compliance report dated 05 <sup>th</sup> April-2013.
xi.	Necessary navigational aids such as channel markers should be provided to prevent accidents. internationally recognized safety standards shall be applied in case of barge/vessel movements	PLL has provided 4 Nos. of Buoys as instructed by cochin post trust. In future, if required, more navigation aids will be provided as per instruction/guidance of Cochin Port Trust. All required safety standards will be applied to vessel movements as per directions of Cochin Port Trust.
xii.	The project authorities should take appropriate community development and welfare measures for villagers in the vicinity of the project site, including drinking water facilities. A separate fund should be allocated for this purpose.	A separate fund for CSR is kept aside by PLL and we have carried out various activities for the community development and welfare of villagers. PLL is carrying out community development and welfare measures for villagers of nearby village; Rs 78.24 Lakhs was spent on CSR activity for the Financial year 2017-2018. Details regarding the CSR activity is enclosed as <b>Annexure # 8.</b>
xiii.	The quarrying material required for the construction purpose shall be obtained only from the approved quarries/borrow areas. Adequate safeguard measures shall be taken to ensure that the overburden and rocks at the quarry site do not find their way into water bodies.	PLL sourcing of quarrying material is only from Government approved quarries. We have already submitted the details regarding the same with six monthly compliance report on dated 05 <sup>th</sup> April-2013.
xiv.	The dredging operations to be undertaken with the prior approval of this Ministry, shall be executed with appropriate safeguard measures to	PLL has obtained Environmental clearance from the MOEF vide their order No. J-16011/26/2001-IA-III dated 16th November-2010 for undertaking

	prevent turbidity conditions in consultation with the expert agencies such CWPRS/NIO.	dredging operations of the basin. Dredging operations is completed and PLL has handed over the basin to M/s Cochin Port Trust for maintenance.
xv.	For employing unskilled, semi-skilled and skilled workers for the project, preference shall be given to local people.	During the project, PLL had given preference to locals while employing unskilled, semi-skilled and skilled worker wherever possible based on their qualification and merits.
Xvi.	The recommendations made in the Environment Management Plan and Disaster Management Plan, as contained in the Environmental Impact Assessment and Risk Analysis Reports of the project shall be effectively implemented.	All recommendations made in Environment Management Plan and Disaster Management Plan, as contained in Environment Impact Assessment and Risk Analysis Report of the project are effectively implemented.
Xvii.	A separate Environment Management Cell with suitably qualified staff to carry out various environment issues should be set up under the charge of a Senior Executive who will report directly to the Chief Executive of the Company.	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 <b>Annexure#9</b>
Xviii.	The project affected people, if any should be properly compensated and rehabilitated.	No people affected directly as the project was on uninhabited land. Some Land was acquired by Cochin Port Trust for constructing new access road for the project and those affected were provided with infrastructure like road, drain, electricity and water as per guideline by authorities.
xix.	The funds earmarked for environment protection measures should be maintained in a separate account and there should be no diversion of these funds for any other purpose. A year wise expenditure on environmental safeguards should be reported to this Ministry.	Budget allocated for environment safeguard will not be diverted for other purposes.
xx.	Full support should be extended to the officers of this Ministry's Regional	PLL will extend full support to the officers of this ministry's Regional Office,



	Office at Bangalore 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 mitigative measures and other environmental protection activities.	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.
<b>xxi.</b>	In case of deviation or alteration in the project including the implementing agency, a fresh reference should be made to this Ministry for modification in the clearance conditions or imposition of new ones for ensuring environmental protection. The project proponents should be responsible for implementing the suggested safeguard measures.	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.
<b>xxii.</b>	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.	PLL is aware of the Ministry's right to revoke clearance for not complying with the conditions stipulated in the clearance.
<b>xxiii.</b>	This Ministry or any other competent authority may stipulate any additional conditions subsequently, if deemed necessary for environmental protection, which shall be complied with.	PLL will comply with any additional conditions stipulated by the ministry or any other competent authority.
<b>xxiv.</b>	The project proponent should 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 Committee and may also be seen at Website of the Ministry of Environment & Forests at <a href="http://www.envfornic.in">http://www.envfornic.in</a> . The advertisement should be made within 7 days from the date of issue of the clearance letter and a copy of the same should be forwarded to the Regional Office of this Ministry at Bangalore.	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 along with the six monthly compliance report dated 30 <sup>th</sup> September-2013.

<b>xxv.</b>	The Project proponents should 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 <sup>th</sup> Feb 2011. No separate land developmental work was required, as this involved only augmentation of equipment in the same land.
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Thanking You,

With Regards



**(T. N. Neelakantan)**

Sr. Vice President (Plant Head)

## Ambient Noise Monitoring Report, October-17 to March-18

Sr. No.	Average, Month Location	Oct-17		Nov-17		Dec-17		Jan-18		Feb-18		Mar-18	
		Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night
1	East side Gate Outside boundary wall	65.00	55.00	65.00	55.00	65.00	55.00	65.00	55.00	65.00	55.00	65.00	55.00
	Limit	53.80	45.40	52.90	44.80	51.70	43.70	52.10	44.30	50.90	43.40	49.10	42.20
2	North side Gate Outside boundary wall	56.10	44.50	55.80	43.90	54.30	42.50	53.00	41.90	52.70	42.80	51.20	40.30
3	West side Gate Outside boundary wall	54.60	45.90	55.10	46.30	56.10	45.20	55.70	46.70	54.10	45.20	53.60	41.80
4	South side Gate Outside boundary wall	54.80	45.70	53.90	45.30	54.50	43.90	52.90	45.60	53.00	43.90	52.90	41.00
	<b>Avg (Year)</b>	<b>54.83</b>	<b>45.38</b>	<b>54.43</b>	<b>45.08</b>	<b>54.15</b>	<b>43.83</b>	<b>53.43</b>	<b>44.63</b>	<b>52.68</b>	<b>43.83</b>	<b>51.70</b>	<b>41.33</b>

  
 Officer HSE

  
 Dy. Manager HSE

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 <sup>can</sup> ~~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	
<b>TOTAL</b>					<b>4457855</b>	

*Leela*  
ASST. CONSERVATOR OF FORESTS  
SOCIAL FORESTRY ERNAKULAM





# COCHIN TEST HOUSE

Annexure-03

## ANALYTICAL SERVICES & TESTING LABORATORY

V / 78, Kollanpady, Murungaliparambu Road, Irumpanam P.O., Kochi - 682 309

Mob.: 9446332556, 9387381780, 9846551014, Tel. : 0484 - 2782672

E-mail: cochintesthouse1@gmail.com, Web : ww.cochintesthouse.in

Laboratory Approved by Kerala State Pollution Control Board

## TEST REPORT

Report No : CTH/LR/17/NN/1809

Issue Date: 23.12.2017

Name and Address of customer

: M/s. Petronet LNG Limited, Survey No. 347,  
Puthuvypu, Kochi-682 508

Sample Drawn By

: Cochin Test House

Particulars of the sample

: Water Sample

Sample code

: 17/NN/1809

Date of receipt of sample

: 15.12.2017

Dates of Analysis

: 15.12.2017 - 23.12.2017

Description of the sample by the customer

: Marine Water

Sl.No.	Parameters	Unit	Method	Result
1	pH	-	IS : 3025 (Pt.11)	7.66
2	Total Dissolved Solids	mg/l	IS :3025 (Pt.16)	23600
3	Turbidity	mg/	IS :3025 (Pt.10)	5.1
4	Chloride	mg/l	IS : 3025 (Pt. 32)	17246
5	Iron (as Fe )	mg/l	IS :3025 (Pt.53)	BDL(MDL-0.08)
6	Fluoride	mg/l	APHA 22 <sup>nd</sup> Ed 4500F D	3.17
7	Sulphate as SO <sub>4</sub>	mg/l	APHA 22 <sup>nd</sup> Ed 4500 SO <sub>4</sub> <sup>2-</sup> E	1894
8	Conductivity	µs/cm	IS : 3025 (Pt .14)	52300
9	Mercury	mg/l	APHA 22 <sup>nd</sup> Ed 3112 B	BDL(MDL-0.01)
10	Lead	mg/l	APHA 22 <sup>nd</sup> Ed 3111 B	0.96
11	Copper	mg/l	APHA 22 <sup>nd</sup> Ed 3111 B	0.06
12	Hexavalent Chromium	mg/l	APHA 22 <sup>nd</sup> Ed 3500 Cr. B	BDL(MDL-0.1)
13	Zinc	mg/l	APHA 22 <sup>nd</sup> Ed 3111 B	0.09
14	Temperature	°C	IS : 3025 (Pt.9)	27.1
15	Salinity	ppt	CTH/SOP/55	28.43
16	Oil and Grease	mg/l	IS : 3025 (Pt. 39)	BDL(MDL - 4.0)
17	Dissolved Oxygen	mg/l	IS : 3025 (Pt.38)	5.98
18	BOD at 27°C, 3 days	mg/l	IS : 3025 (Pt. 44)	5.9
19	COD	mg/l	IS : 3025 (Pt. 58)	32
20	Cyanide as CN	mg/l	IS : 3025 (Pt. 27)	BDL(MDL-0.02)
21	Cadmium as Cd	mg/l	APHA 22 <sup>nd</sup> Ed , 3111 B	BDL(MDL-0.1)
22	Insecticide	µg/l	APHA 22 <sup>nd</sup> Ed , 6630 c	ND
23	Pesticide	µg/l	CTH/SOP/56	ND
24	Color	Colour units	IS :3025 (Pt.4)	2
25	TSS	mg/l	IS :3025 (Pt.17)	7.2
26	Arsenic	mg/l	APHA 22 <sup>nd</sup> Ed , 3114 C	BDL(MDL-0.01)
27	Nickel	mg/l	APHA 22 <sup>nd</sup> Ed , 3111 C	0.42
28	Total Bacterial Count	cfu/ml	IS:1622:1981	5100
29	Faecal Coliform	MPN/100ml	IS:1622:1981	22
30	E.coli	MPN/100ml	IS:1622:1981	14

ND: Not Detected, BDL- Below Detection Limit; MDL-Minimum Detection Limit.

End of report.

Verified By 

  
Rajitha K B  
Authorised Signatory  
Microbiology  
COCHIN TEST HOUSE



  
K.P. Yacob  
Authorised Signatory  
Chemical  
COCHIN TEST HOUSE

NOTE : This test results relate only to the sample submitted for analysis.

The test report shall not be reproduced except in full without the written approval of the laboratory.

**Annexure-04**

<b>Environment Expenditure For FY 2017-2018 in Rupees</b>		
<b>Particulars</b>	<b>Budget</b>	<b>Consumed</b>
Environment Monitoring	680,076.00	1,349,076.00
Training & Awareness	87,875.00	87,875.00
Hazardous Waste Handling & Disposal	126,481.00	126,481.00
Licence Fees	8,682,083.00	8,682,083.00
Audits	895,500.00	895,500.00
Afforestation	1,500,000.00	1,500,000.00
Other		
<b>Total</b>	<b>11,972,015.00</b>	<b>12,641,015.00</b>





# COCHIN TEST HOUSE

Annexure-05

## ANALYTICAL SERVICES & TESTING LABORATORY

V / 78, Kollanpady, Murungaliparambu Road, Irumpanam P.O., Kochi - 682 309  
Mob.: 9446332556, 9387381780, 9846551014, Tel. : 0484 - 2782672  
E-mail: cochintesthouse1@gmail.com, Web : ww.cochintesthouse.in

Laboratory Approved by Kerala State Pollution Control Board

## TEST REPORT

Report No : CTH/LR/18/NN/395 Issue Date : February 27, 2018  
Name and Address of customer : M/s. Petronet LNG Limited, Survey No. 347,  
Puthuvypu, Kochi-682 508  
Sample Drawn By : Cochin Test House  
Particulars of the sample : Water Sample  
Sample code : 18/NN/395  
Date of receipt of sample : 22.02.2018  
Dates of Analysis : 22.02.2018 - 27.02.2018  
Description of the sample by the customer : Bore Well Water


Sl.No.	Parameters	Unit	Method	Result
1	pH	----	IS : 3025 (Pt.11)	7.04
2	Total Dissolved Solids	mg/l	IS :3025 (Pt.16)	75
3	Turbidity	mg/l	IS :3025 (Pt.10)	2.3
4	Chloride	mg/l	IS : 3025 (Pt. 32)	23.42
5	Iron (as Fe ).	mg/l	IS :3025 (Pt.53)	0.08
6	Fluoride	mg/l	APHA 22 <sup>nd</sup> Ed 4500F D	0.12
7	Sulphate as SO <sub>4</sub>	mg/l	APHA 22 <sup>nd</sup> Ed 4500 SO <sub>4</sub> <sup>2-</sup> E	21.4
8	Conductivity	µs/cm	IS : 3025 (Pt .14)	154
9	Mercury	mg/l	APHA 22 <sup>nd</sup> Ed 3112 B	BDL(MDL-0.01)
10	Lead	mg/l	APHA 22 <sup>nd</sup> Ed 3111 B	BDL(MDL-0.05)
11	Copper	mg/l	APHA 22 <sup>nd</sup> Ed 3111 B	BDL(MDL-0.1)
12	Chromium	mg/l	APHA 22 <sup>nd</sup> Ed 3500 Cr. B	BDL(MDL-0.05)
13	Zinc	mg/l	APHA 22 <sup>nd</sup> Ed 3111 B	BDL(MDL-0.05)
14	Temperature	°C	IS : 3025 (Pt.9)	27
15	Salinity	ppm	CTH/SOP/55	38.85
16	Oil and Grease	mg/l	IS : 3025 (Pt. 39)	BDL(MDL- 4.0)
17	Dissolved Oxygen	mg/l	IS : 3025 (Pt.38)	6.1
18	BOD at 27°C 3 days	mg/l	IS : 3025 (Pt. 44)	BDL(MDL- 2.0)
19	COD	mg/l	IS : 3025 (Pt. 58)	12
20	Cyanide as CN	mg/l	IS : 3025 (Pt. 27)	BDL(MDL-0.02)
21	Cadmium as Cd	mg/l	APHA 22 <sup>nd</sup> Ed , 3111 B	BDL(MDL-0.1)
22	Insecticide	µg/l	APHA 22 <sup>nd</sup> Ed , 6630 c	ND
23	Pesticide	µg/l	CTH/SOP/56	ND

ND: Not Detected, BDL- Below Detection Limit; MDL-Minimum Detection Limit.

End of report

  
Verified By



  
K.P. Yacob  
Authorised Signatory  
Chemical  
COCHIN TEST HOUSE

NOTE : This test results relate only to the sample submitted for analysis.

The test report shall not be reproduced except in full without the written approval of the laboratory.



**GOVERNMENT OF KERALA**  
**DEPARTMENT OF FACTORIES AND BOILERS**

Form-4

(Prescribed under Rule 5)

License is hereby granted to Shri/Smt. RAJENDER SINGH, DIRECTOR (TECHNICAL)( ) for the premises detailed hereunder for the use as a factory within the limits specified in the Permit (s) and for the manufacturing process stated herein after subject to the provision of the Factories Act 1948 and the Kerala Factories Rules 1957.

The license shall remain in force till the 31st day of December 2018.

1.	Registration No	<b>D09/CHN/03/286/2013</b>	5.	Permit No & Date	175/2012 (17-07-2012)
2.	Name & Address of the Factory	PETRONET LNG LTD PUTHUVYPU P.O,ERNAKULAM, KOCHI, KERALA - 682 508.	6.	Name of the Region	Ernakulam
3.	Registration Date	09-05-2013	7.	Name of the Division	Kochi
4.	Details of the premises		8.	Manufacturing Process & NIC Code	
	Panchayat	Elamkunnappuzha			
	Village	Puthuvaippu			
	Survey No	347			
	Taluk	Kochi			
	District	Ernakulam			
					1. STORING PUMMPING AND RE- GASIFICATIO OF LIQUIFIED NATURAL GAS AND DISTRIBUTION OF COMPRESSED NATURAL GAS (52109)

Place : Ernakulam

Date : 30-01-2018

(Issued under Rule 5, renewed under Rule 7)

<b>License Details</b>									
Calendar Year	No. of Workers	Power	Fees	Additional Fee	Excess Fee	Remittance Date	Renewed Date	Sign of Official	
<b>2018</b>	<b>290</b>	<b>67834.97 KW +18249.99 KVA</b>	<b>194350.00</b>			<b>16-10-2017</b>	<b>30-01-2018</b>		
<b>Amendment Details</b>									
Factory Name		No. of Workers	Power(KW)	Fees	Additional Fee	Remittance Date	Amendment Year	Amendment Date	Sign of Official
PETRONET LNG LTD		195	66804.19 (18249.99 KVA)	750	0.0	10-10-2014	2014	10-12-2014	
PETRONET LNG LTD		195	66832.58 (18249.99 KVA)	750	0.0	14-10-2015	2015	02-02-2016	
PETRONET LNG LTD		290	67834.97 (18249.99 KVA)	1500	11500.0	18-07-2016	2016	06-09-2016	
<b>Transfer Details</b>									
Transferred From	Transferred To		Transfer Fee	Remittance Date	Year of Transfer	Transfer Date		Sign of Official	

*(License Renewal application for 2019 should be submitted on or before 31-10-2018)*

*\* This is a computer generated certificate.Hence there is no need for a Physical Signature*

*\* Third Party Verification is enabled for Digitally Signed License.Please visit <https://idms.fabkerala.gov.in/fabnet/verifyLicense.do>*



# Annexure-07

Ambient Air Monitoring Report, (October 2017 to March 2018)

LOCATION NO.	Location of Ambient Air Sampling	Month & Date of Sampling	PM (<10 microns) in Micrograms/m <sup>3</sup> ; Limit 100 Micrograms/m <sup>3</sup>	PM (<2.5 microns) in Micrograms/m <sup>3</sup> ; Limit 60 Micrograms/m <sup>3</sup>	SOx as SO <sub>2</sub> in Micrograms/m <sup>3</sup> ; Limit 80 Micrograms/m <sup>3</sup>	NOx, Oxides of Nitrogen in Micrograms/m <sup>3</sup> ; Limit 80 Micrograms/m <sup>3</sup>	Carbon Monoxide (CO); mg/m <sup>3</sup> 4.0 mg/m <sup>3</sup>	OZONE Micrograms/m <sup>3</sup> ; Limit 180 Micrograms/m <sup>3</sup>	Hydrocarbons (HC); Micrograms/m <sup>3</sup>		
1	(Watch tower-2) near MGH building	Oct-17	35.18	14.16	9.37	17.08	0	6.76	0		
		Nov-17	31.82	10.65	11.72	14.54	0	9.76	0		
		Dec-17	35.16	16.43	14.8	12.92	0	10.52	0		
		Jan-18	51.32	21.32	13.41	13.81	0	7.47	0		
		Feb-18	48.32	20.32	10.21	12.15	0	6.23	0		
		Mar-18	47.34	19.35	9.15	13.25	0	4.34	0		
		Average	41.52	17.04	11.44	13.96	0.00	7.51	0.00		
		Oct-17	39.15	11.67	16.41	14.18	0	10.52	0		
		Nov-17	34.16	12.72	13.57	15.27	0	9.01	0		
		Dec-17	31.08	10.55	12.02	17.22	0	6.76	0		
2	Near Fire Station Building	Jan-18	48.52	18.53	11.01	16.07	0	5.98	0		
		Feb-18	45.72	16.71	9.28	14.27	0	4.27	0		
		Mar-18	46.79	18.71	8.18	14.78	0	3.32	0		
		Average	40.90	14.82	11.75	15.30	0.00	6.64	0.00		
		Oct-17	36.14	16.22	12.89	16.07	0	8.26	0		
		Nov-17	38.16	15.52	15.23	18.37	0	7.51	0		
		Dec-17	33.11	13.79	10.55	14.17	0	8.26	0		
		Jan-18	49.58	20.68	9.17	16.16	0	8.22	0		
		Feb-18	47.16	18.45	9.58	15.12	0	7.49	0		
		Mar-18	47.85	19.36	7.35	14.35	0	4.35	0		
Average	42.00	17.34	10.80	15.71	0.00	7.35	0.00				
3	Fire water Reservoir+	Oct-17	31.82	12.73	14.06	11.86	0	9.01	0		
		Nov-17	35.11	17.15	9.87	16.15	0	11.27	0		
		Dec-17	37.08	18.11	16.41	13.77	0	11.27	0		
		Jan-18	50.35	20.18	9.06	12.36	0	6.72	0		
		Feb-18	48.35	18.15	8.75	12.58	0	6.15	0		
		Mar-18	48.95	19.25	6.13	13.75	0	5.15	0		
		Average	41.94	17.60	10.71	13.41	0.00	8.26	0.00		
		4	Watch tower-3 near Tank T-101	Oct-17	35.18	14.16	9.37	17.08	0	6.76	0
				Nov-17	31.82	10.65	11.72	14.54	0	9.76	0
				Dec-17	35.16	16.43	14.8	12.92	0	10.52	0
Jan-18	51.32			21.32	13.41	13.81	0	7.47	0		
Feb-18	48.32			20.32	10.21	12.15	0	6.23	0		
Mar-18	47.34			19.35	9.15	13.25	0	4.34	0		
Average	41.52			17.04	11.44	13.96	0.00	7.51	0.00		
Oct-17	39.15			11.67	16.41	14.18	0	10.52	0		
Nov-17	34.16			12.72	13.57	15.27	0	9.01	0		
Dec-17	31.08			10.55	12.02	17.22	0	6.76	0		



Officer HSE



Dy. Manager HSE

CSR EXPENDITURE SHEET, KOCHI						
FY 17-18 ( April to March )						
Petronet LNG Limited						
Sl. No.	Name of the Project	Vertical	Location	Approved & Committed ( Rs )	Consumed ( Rs )	Remarks
1	Supporting the Vypin Fire Station for ensuring Fire Safety to the Villages	Rural Development Projects	Vypin, Ernakulam	500,000.00	500,000.00	Completed
2	Promoting Kabaddi by Providing Kabbadi Mats to Ernakulam District Kabaddi Association	Sports, Art & Culture	Njaracckel, Ernakulam	300,000.00	300,000.00	Completed
3	Construction of School Toilets and Construction of Bore wells respectively	Health & Sanitation	Kothamangalam, Ernakulam	28,857.00	28,857.00	Completed
4	Ensuring Drinking water facility through the construction of Bore well and Installation of Water Filter at the Govt. at the Aided L P School, Puthur	Education	Puthur, Kannur	150,000.00	129,000.00	Completed
5	Construction of Causality Complex at Thrikakara Municipal Co-operative Hospital, Kakkannad	Health & Sanitation	Thrikakara, Ernakulam	1,571,900.00	1,571,900.00	Completed
<b>Total</b>				<b>2,550,757.00</b>	<b>2,529,757.00</b>	
Petronet LNG Foundation (PLF)						
1	Providing School Bus at the E K Nayanar Smaraka, Govt. H S S School	Education	Vengad, Kannur	1,740,000.00	1,740,000.00	Completed
2	Supporting the FIFA World Cup through the Ground Facility and Water Tank	Promoting Sports	Fort Kochi, Ernakulam	1,946,544.00	1,946,544.00	Completed
3	Supporting the Scholarship Programme (Unarvu - Akshaya Educational Programme)	Education	Kalamessery, Ernakulam	500,000.00	500,000.00	Completed
4	Maintenance of the School Toilets Constructed under Swachh Bharath (Vidyalaya) Abhiyan	Health & Sanitation	Kothamangalam, Ernakulam	500,000.00	-	Approved, Under Implementation ( To be Paid on receipt of Invoice /Bills) - Provisioning Kept
5	Skill Development Training Programme for 100 Youths of the Ernakulam District in convergence with Centre for Biopolymer Science & Technology (CBPST - A UNIT OF CIPET), Kochi	Education	Ernakulam	7,310,000.00	63,130.00	Approved, Under Implementation ( To be Paid on receipt of Invoice /Bills) - Provisioning Kept ( Rs 28.60 Lakh Payment to be Made, Bill at HO )
6	<b>Construction of Smart Classroom at -</b> 1. GMUP School, Poonoor, Kozhikode 2. Govt. L P School, Vayakode, Kasargode 3. Govt. L P School Perumpadanna, Parur, Ernakulam	Education	Kozhikode, Kasargode and Ernakulam	321,000.00	0.00	Approved, Under Implementation ( To be Paid on receipt of Invoice /Bills) - Provisioning Kept
7	Organization of Medical Camp at Nyarambalam Bhagvati Vilasam High School	Health & Sanitation	Nayarambalam, Ernakulam	500,000.00	500,000.00	Completed
8	Approval to implement the project to feed the needy people of the Ernakulam District (Numma Oonu) in convergence with District Administration - A Pilot Project for two Months	Health & Sanitation	Ernakulam	360,000.00	235,469.00	Completed
9	Support to the art form of Koodiyattam, Ernakulam	Art, Culture and Heritage	Ernakulam	500,000.00	250,000.00	Completed ( 2nd Installment in December 2018)- - Provisioning Kept
10	Installation of Incinerator at the Taluka Hospital, Pemabra ( Calicut )	Health & Sanitation	Perambra, Kozhikode	500,000.00	0.00	Approved, Under Implementation ( To be Paid on receipt of Invoice /Bills) - Provisioning Kept
11	Providing Drinking Water Facility at Kendriya Vidyalaya, CPT	Education	Ernakulam	60,000.00	59,960.00	Completed
<b>Total</b>				<b>14,237,544.00</b>	<b>5,295,103.00</b>	
<b>PLL + PLF</b>				<b>16,788,301.00</b>	<b>7,824,860.00</b>	

# CSR UPDATE

## FY 2017-18

### MAJOR HIGHLIGHTS

## KOCHI



**Petronet LNG Foundation**

"An Organisation committed to Sustainable Social Growth"  
(A wholly owned subsidiary of Petronet LNG Limited)

# CONTENTS

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**Major Initiatives of FY 2017-18 - Highlights**

**PLF and Execution Meetings**

**Way Forward – Proposals for FY 18-19**

**Media and Accolades**

**Budget VS Spent**



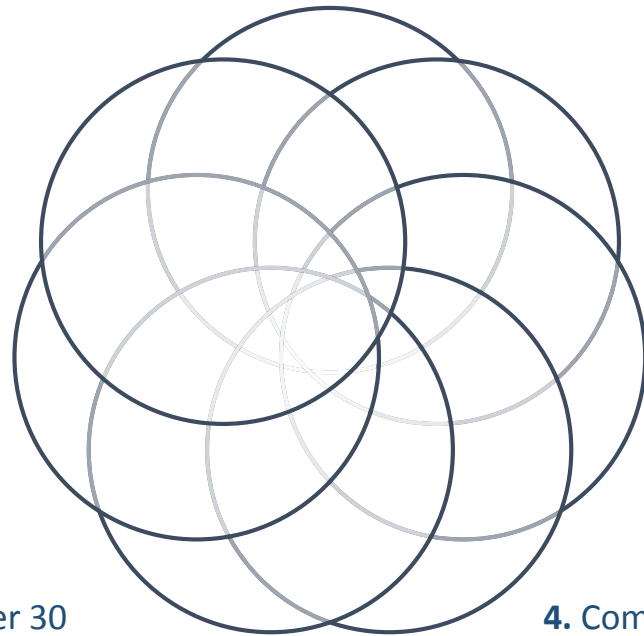
# Major Highlights of FY 17-18

1. Construction of School Toilets across the 8 Locations by Wockhardt Foundation ( Completion of the Job ) – Under SBA ( *Health and Sanitation* )

7. FIFA U 17 World Cup - Water Storage facility through construction of the Water Tank at Fort Kochi ( *Sports* )

6. School Bus to the E K Nayanar Smaraka, Govt. H S S School, Vengad, Kannur ( *Education* )

5. Kashmir Super 30 Students Success and felicitation at MoPNG, PMO, Chairman PESB, OIL India Chairi at Delhi ( *Education* )



2. Ayurveda Dispensary at Edavandakad - Completion & Inauguration ( *Health* )

3. Promotion of Kabaddi with Dist. Kabaddi Association, Ernakulam ( *Sports* )

4. Completion of Survey in the 30 Villages of Ernakulam District for Petronet Eyes Project & Deehat Project by PWC ( *Health* )



The Ayurveda Dispensary Constructed at Edavanakad – A Project of the District Health Dept, Block Panchayath and PLL



Around 100 Students get trained under the District Kabaddi Association at Njaracckel



# Major Highlights of FY 17-18



Joint Inspection at the Interior Locations



Medicines under Subsidised rates for the Public



Inauguration of the Ayurveda Dispensary



Students during a practice match



Completion of the Pending Activities by Wockhardt Foundation and Field Visits



Inauguration of the Ayurveda Dispensary with a total cost of Rs 15 Lakh at Edavanakad



Handing over of the Kabaddi Mats ( Equipment ) to the Ernakulam Dist. Kabaddi Association in a Ceremony, Matches were also played during the Programme





# Major Highlights of FY 17-18



Cleaning of the Toilets at the interior 7 Schools in the Ernakulam District ( Kuttampuzha Block ) by Wockhardt Foundation



Support to Nodal Officer FIFA by MD & CEO for Water Tank and Practice Ground



Completed Water Tank at Fort Kochi Parade Ground



Good Samaritan Interaction with a Beneficiary



Good Samaritan Awareness Sessions with Contract Workmen



Passes for Employees as a noble gesture provided by FIFA



# Major Highlights of FY 17-18

**Kashmir Super 30 Students Felicitation Glimpses....**



**Interaction of the Kashmir Super 30 Students with Dr Jitendra Singh, Maj Gen. Kalita and PLL Officials at PMO, North Block**

**Team PLL at Shastri Bhavan, MoPNG**



**Interaction of the Kashmir Super 30 Students with Dr Jitendra Singh, Maj Gen. Kalita and PLL Officials at PMO, North Block**

**Interaction of the Kashmir Super 30 Students at Shastri Bhavan, MoPNG**



# Major Highlights of FY 17-18

8. Construction of **Causality Complex** at Thrikakara Municipal Cooperative Hospital (Inaugurated by Hon'ble CM Kerala) ( **Health** )



Casualty Complex at the TMHCL, Inaugurated



Casualty Complex at the TMHCL, Inaugurated

9. **AMC** of the Constructed Toilets carried out at 7 Schools with WASH Programme as per MHRD & MoPNG Notifications to PSUs ( **Education** )



Handing over of School Bus at High School Kannur



Students and Teachers at the E K Nayanar High School Kannur

10. **Good Samaritan Project** Launched and Identification of Cases ongoing time to time ( At Kochi 2 Cases Supported, 2 undergoing )



Handing over the Support for the Meritorious Students

11. Support to the 560 A+ Scoring talented meritorious students of project Unarvu - Akshaya - Initiative of the District Administration and at the Annual Meet 2017 at Kalmessery ( **Education** )



Around 560 Students from vernacular medium and CSBE Schools were on the list



# Major Highlights of FY 17-18



Wash And Toilet Cleaning At Kunjipara



Wash And Toilet Cleaning At Kunjipara



Wash And Toilet Clening At Anandamkudy



Wash And Toilet Cleaning At Talawchpara



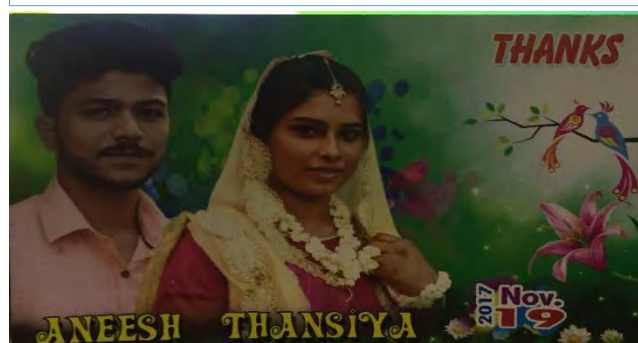
Wash And Toilet Cleaning At Kunjipara



Good Samaritan Support Handover To Ms Shakeela



Support Handover Mr Vijayan



Ms Shakeela's Daughter - Thanks Card for the Support



Good Samaritan Support Handover Programme



Good Samaritan Support Handover Programme



Good Samaritan Support Handover Programme



# Major Highlights of FY 17-18



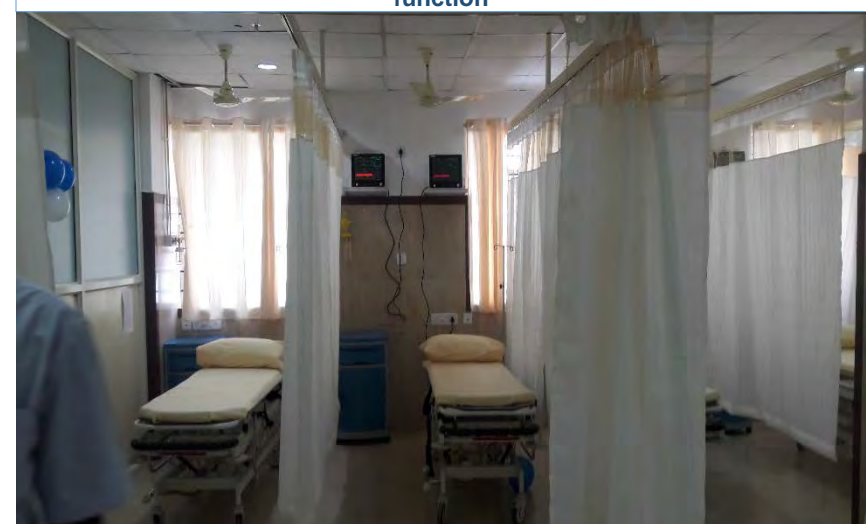
Shri T N Neelakantan addressing the assemblage on the inaugural function



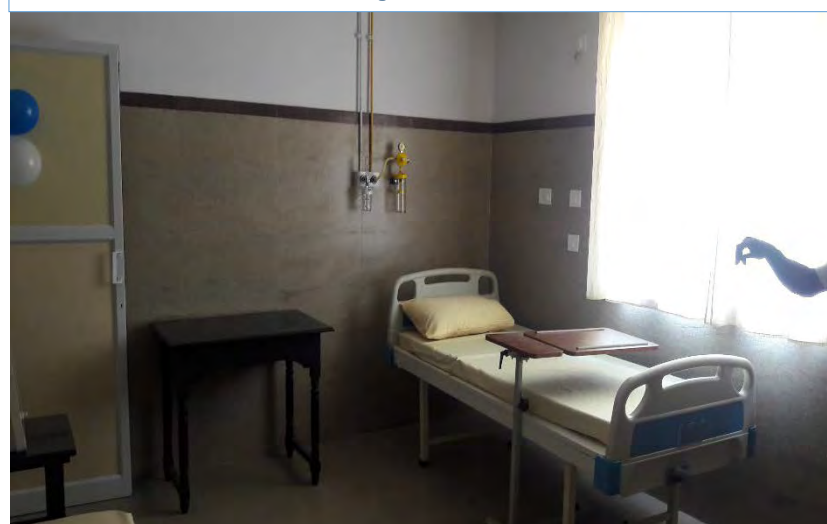
Shri Pinarayi Vijayan, Honble CM Kerala with Shri Manoj Pawa at the Inaugural function



Petronet LNG Supported with an amount of around Rs 30 Lakh



Casualty Complex to cater to a majority population of Migrant Labours



Equipped with Modern Treatment Facilities



Casualty Complex at the TMHCL - Facilities



# Major Highlights of FY 17-18

## “Ideation of National Agenda Initiative” (Education)

27 IITians from the top 5 IITs were engaged in the process of developing the blue ocean thinking.

8 Flagship programmes by Government of India were selected.

Subject Matter Experts from PLL participated with MD & CEO.

Field Visits, Representation in front of Govt. Officials and Secretaries to GOI of concerned Ministries by the Students on findings

Students visited existing/potential beneficiaries including ladies, children and *divyangs* in Villages

Existing beneficiaries/ potential beneficiaries, social and educational institutions, sanitation facilities – Individual Household Toilets, ITI, Poly Technique College, small entrepreneurs and 110 (approx.) inhabitants of the Villages

Interaction session with LSG Officials in order to understand their concerns in the presence of villagers at large in Atal Seva Kendra of village Manka, Alwar, Rajasthan was done.

Presentation in front of MOS ( I/C ) and Secretary MoPNG was by the students.

Felicitations and Certificates to the students as well as Interaction with Sh. Sanjay Kothari ( Secretary, Honble President Of India )



IITians during Discussion Sessions with Govt. Officials



Interaction of the Students with Shri Sanjay Kothari, Secretary to the Hon'ble President of India, Shri Prabhat Singh and Other PLL Officials



Photo of the Participants ( Students ) & PLL Management at GTI, Noida



Dr Jitendra Singh ( MOS) with the Students and PLL Management at PMO



# Major Highlights of FY 17-18

## Ideation Programme – Planning to Execution ( Photo Gallery )



Planning Meeting of the Programme



Brainstorming sessions



IITans at the Gail Training Institute Noida



Field Visits by the IITans at Alwar, Rajasthan



A Visit to an ITI by the Students, who were divided into groups



Interaction session of the students with the village representatives



Presentations and Interaction by the students before the LSG Officials



Yoga Sessions were conducted for the Students



Presentations on the findings by the students



Presentations on the findings by the students – GOI representatives guided them



# Major Highlights of FY 17-18

12. **“Naipunyam”** – Skill Training Project to 100 Students in Plastic Technology ( 2 Courses ) With CBPST ( Centre for Biopolymer Science and Technology ) ( **Education** )

13. **Health Camp** at Nayarambalam with Dist. Hospital & MLA with **940 Patients** ( **Health** )

14. **Eye Check Up Camp** at Community Health Centre, Malipuram organised with **503 Patients, 421 Spectacles Distributed** ( **Health** )

15. **Numma Onnu-** The Pilot Project on providing free food in the District of Ernakulam with Dist. Admin, KHRA is launched, with an objective of making a hunger free city and ensuring access of food to the needy.



MoA Inking between PLF and CBPST for Naipunyam



Director CBPST and Director PLF – Signing the MOA



Selection Interview for the Courses of Machine Operator – Injection Moulding and Machine Operator-Plastic processing



Batch of 50 Students – Selected for Machine Operator – Injection Moulding



# Major Highlights of FY 17-18

**MEDICAL CAMP AT NAYARAMBALAM PRIMARY SCHOOL**



**Pathological Facilities Provided In The Camp**

**EYE CAMP AT COMMUNITY HEALTH CENTRE MALIPURAM**



**Free Eye Check Up Camp with consultation. Medicines and spectacles conducted**



**A total of 503 Patients were enrolled in the registration process**

**Medical Camp At Nayarambalam Primary School**



**940 Patients Attended With Different Ailments And Regular Check Up As Well**



**Jointly Organised By PLF, BPCL AND DIST HOSPITAL**



**Women members participated at large across several strata of the society from the nearby areas**



# Major Highlights of FY 17-18

## Numma Onnu – Project Details



District Collector's Meetings - To roll out the Project on 26<sup>th</sup> January 2018 ( KHRA, Railway, Collectorate and PLL Officials were present )



Committee Formation under the chairmanship of Dy. Collector, Collectorate, KHRA and Petronet LNG Officials



Meetings on the Pilot Project with KHRA at KHRA Office and Collectorate Officials with Petronet LNG



Designs of the Coupons, Mechanism Worked Out for the Project and locations for coupons distribution finalised



Launch of Numma Onnu on 26<sup>th</sup> January by Shri A K Moideen, Minister of Industries in presence of District Collector and officials of KHRA, PLL and Collectorate



A beneficiary on the first day getting a food coupon at the Collectorate



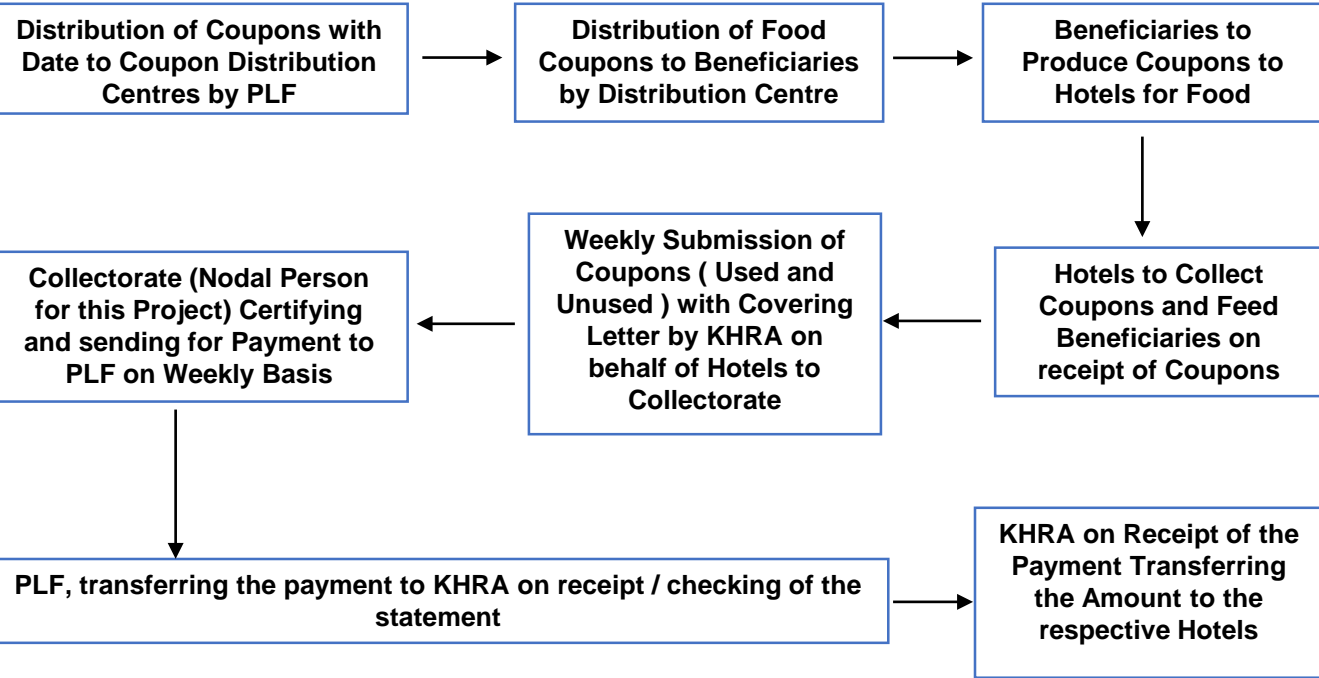
Several Beneficiaries at Hotels and Coupon Distribution centres



# Major Highlights of FY 17-18

## Numma Onnu – Process Flow Chart

### NUMMA ONNU - CURRENT PROCESS FLOWCHART



The Seven Hotels at the Collectorate & South Railway Station Region currently providing the Numma Oonu Food ( All photos ).



Another location in addition is the Collectorate Canteen because of the closure of one of the 8 selected Hotels.



# Major Highlights of FY 17-18

## Numma Onnu – Highlights

WEEKLY STATEMENT REGARDING FOOD COUPONS  
SUBMISSION DATE :19/02/2018

DATE	NUMBER OF COUPONS RECEIVED IN HOTELS						TOTAL COUPONS	
	ALAKAPURI	CANTEEN	LIBA	GALAXY	ARYABHAVAN	ARYAS	ALFALAH	MUGHAL
12.02.2018	4	10	1		6	3	6	10
13.02.2018					6	1		3
14.02.2018	4	8			8	6	4	7
15.02.2018	6	10			8	3		5
16.02.2018	3	8	2	3	6	4		2
17.02.2018	8	7			7	6	2	6
18.02.2018					13			5
	25	43	3	3	54	23	12	38
GRAND TOTAL								201

For KERALA HOTEL & RESTAURANT ASSOCIATION

Secretary  
 AUTHORISED SIGNATORY  
 KHERA HOTEL & RESTAURANT ASSOCIATION  
 M.G. ROAD  
 ERNAKULAM  
 ERNAKULAM DIST. COMMITTEE

SECRETARY  
 AUTHORISED SIGNATORY  
 COLLECTORATE ERNAKULAM  
 എറണാകുളം ജില്ലാ ഭരണകമ്മീഷൻ

SECRETARY  
 AUTHORISED SIGNATORY  
 PETRONET LNG

A Statement Sample Submitted by KHRA for the Reimbursement of Coupons



A Sample of the Food Coupon



### നൂമ്മ ഊണ് വിശപ്പുരഹിത നഗരം

വിശന്നുപോതിയുന്ന ഒരാളും ജില്ലയിൽ ഉണ്ടാവരുത്. ഭക്ഷണം എല്ലാവർക്കും ലഭ്യമാകണം. ജില്ല ഭരണ കൂടത്തിന്റെ ഈ മഹത്തായ ചിന്തയിൽനിന്നാണ് വിശപ്പുരഹിത നഗരം പദ്ധതിക്ക് തുടക്കമാകുന്നത്. ജില്ല കലക്ടർ കെ. മുഹമ്മദ് റൈ. സഫീനുള്ള മുൻകൈയെടുത്ത് ആവിഷ്കരിച്ച നൂമ്മ ഊണ് വിശപ്പുരഹിത നഗരം പദ്ധതിയിലൂടെയാണ് സൗജന്യമായി ഉച്ചയുണ്ട് നൽകാനുള്ള തീരുമാനമായത്. തെരഞ്ഞെടുത്ത ഹോട്ടലുകളിൽനിന്ന് ഉച്ചയുണ്ട് ലഭിക്കും. പദ്ധതിക്ക് പെട്രോനെറ്റ് എൽ.എൻ.ജി ഫൗണ്ടേഷനും കേരള ഹോട്ടൽ ആൻഡ് റെസ്റ്റോറന്റ് അസോസിയേഷൻ ജില്ല കമ്മിറ്റിയും വലിയ പിന്തുണയാണ് നൽകുന്നത്. കാക്കനാട് കലക്ടറേറ്റിലും എറണാകുളം സൗത്ത് റെയിൽവേ സ്റ്റേഷനിലും നൂമ്മ ഊണ് കൗണ്ടറുകൾ പ്രവർത്തിക്കും. ഇവിടെനിന്ന് ലഭിക്കുന്ന ക്യൂപ്പണുകൾ നൽകിയാൽ കാക്കനാട്ടെയും സൗത്തിലെയും തെരഞ്ഞെടുത്ത ഹോട്ടലുകളിൽനിന്ന് സൗജന്യമായി മികച്ച നിലവാരത്തിലുള്ള ഭക്ഷണം ലഭിക്കും. രണ്ട് സ്മലങ്ങളിലുമായി നാലുവിതം ഹോട്ടലുകൾ ഇതിന് ഹോട്ടൽ ആൻഡ് റെസ്റ്റോറന്റ് അസോസിയേഷൻ കണ്ടെത്തിയിട്ടുണ്ട്. കാക്കനാട് കലക്ടറേറ്റ് സമീപം അളകാപുരി, ലീബ, അയോധ്യ, വാഴക്കാലയിൽ ഗാലക്സി എന്നീ ഹോട്ടലുകളിലാണ് ക്യൂപ്പൺ നൽകി ഭക്ഷണം കഴിക്കാനാകുക. സൗത്തിൽ ആര്യവേർ, അൽസഫ, ആര്യവേർ, മുഗൾ എന്നീ ഹോട്ടലുകളിലാണ് സൗജന്യ ഭക്ഷണം.

Press Clippings

### കൈയിൽ പണമില്ലെങ്കിൽ ഇനി വിശന്നിരിക്കേണ്ട

## 'നൂമ്മ ഊണ്' പദ്ധതിയുമായി ജില്ലാ ഭരണകൂടം

Press Clippings

പദ്ധതി കാക്കനാട്ടും സൗത്ത് റെയിൽവേ സ്റ്റേഷൻ പരിസരത്തും നിലവിൽ വരും

### പദ്ധതി ഫെബ്രുവരി ഒന്നുമുതൽ

ഫെബ്രുവരി ഒന്നുമുതലാണ് പദ്ധതി പ്രാവർത്തികമാകുക. കാക്കനാട് കളക്ടറേറ്റിലും എറണാകുളം സൗത്ത് റെയിൽവേ സ്റ്റേഷനിലും 'നൂമ്മ ഊണ്'ന്റെ

കൗണ്ടറുകൾ പ്രവർത്തിക്കും. ഈ കൗണ്ടറുകളിൽ നിന്നു ലഭിക്കുന്ന ക്യൂപ്പണുകൾ നൽകിയാൽ കാക്കനാട്ടെയും സൗത്തിലെയും തെരഞ്ഞെടുത്ത ഹോട്ടലുകളിൽനിന്ന് സൗജന്യമായി മികച്ച നിലവാരത്തിലുള്ള ഭക്ഷണം ലഭിക്കും.

ത്ത് ആവിഷ്കരിച്ച പദ്ധതിക്ക് പെട്രോനെറ്റ് എൽ.എൻ.ജി. ഫൗണ്ടേഷനും കേരള ഹോട്ടൽ ആൻഡ് റെസ്റ്റോറന്റ് അസോസിയേഷൻ ജില്ലാ കമ്മിറ്റിയുമാണ് പിന്തുണ നൽകുന്നത്. കാക്കനാട്ടും സൗത്തിലും നാലുവിതം ഹോട്ടലുകൾ ഇതിനായി ഹോട്ടൽ ആൻഡ് റെസ്റ്റോറന്റ് അസോസിയേഷൻ കണ്ടെത്തിയിട്ടുണ്ട്. കാക്കനാട് കളക്ടറേറ്റിനു സമീപം അളകാപുരി, ലീബ, അയോധ്യ, വാഴക്കാലയിൽ ഗാലക്സി എന്നീ ഹോട്ടലുകളിലാണ് ക്യൂപ്പണുകൾ നൽകി ഭക്ഷണം കഴിക്കാനാകുക. സൗത്തിൽ ആര്യവേർ, അൽസഫ, ആര്യവേർ, മുഗൾ എന്നീ ഹോട്ടലുകളിലാണ് സൗജന്യ ഭക്ഷണം.

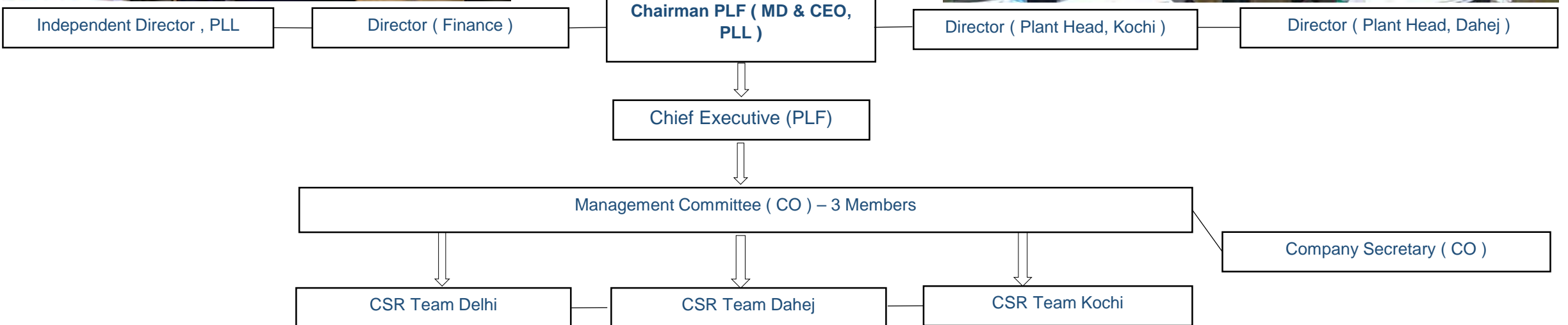


Hon'ble District Collector addressing the gathering on the launch of the Programme on 26th January at Collectorate



# PLF and Execution Meetings

- ❑ Petronet LNG Foundation ( PLF ) [ *An Organisation Committed to Sustainable Social Growth* ] – A separate Company under Sec 8 of Companies Act Formed ( CSR Arm of PLL )
- ❑ 1<sup>st</sup> 2<sup>nd</sup> and 3<sup>rd</sup> Board Meeting of PLF held on 21.04.2017, 15.06.2017 and 3.11.2017 at New Delhi





# Media & Accolades

## പ്രഥമ ശുശ്രൂഷാ ക്ലാസ്

വൈപ്പിൻ • ചെറായി സഹോദരൻ മെമ്മോറിയൽ എൽപി സ്കൂളിൽ പെട്രോനെറ്റ് എൽ എൻ ജിയുടെ നേതൃത്വത്തിൽ അത്യാഹിത പ്രഥമ ശുശ്രൂഷാ ക്ലാസ് നടത്തി. ഡോ.എ.പി.വർമ ക്ലാസെടുത്തു. കമ്പനി പ്രതിനിധി ദീപാൻ ജൻ ബന്ദോപായായ, മാത്യു സംഗമം അധ്യക്ഷൻ ചെയ്ത. പ്രധാനാധ്യാപിക കെ.അനൂപ, ഹൃദയസ്നാനിഗം, സി.ബി.ഇണ്ണിക്കൽ ഷണ്ണൻ എന്നിവർ പ്രസംഗിച്ചു.

Press Clippings - First Aid Awareness Programme



ഇല്ലാ ഭരണകൂടം നല്ലൊരു സൗഖ്യമുള്ള ഉച്ചകേളി പദ്ധതി 'നൂമ്മ ഊണ്' എന്ന് ഉദ്ദേശിക്കുന്നു. മറ്റൊരു ഏ.സി. മോയിൽ നിർവഹിക്കുന്നു. അറി. കലക്ടർ ഉദ്യോഗാ പ്രിയ. സിപിടി കൗസൽപ്പതി, പെട്രോനെറ്റ് എ.സി. ടി.എൻ. സി.കെ.ജോൺ, ജോൺ ചെറുവത്തോൾ എ.എസ്.എ. കലക്ടർ മൃദാഞ്ജന സി.പി. ടി. തോമസ് എ.എസ്.എ. കെ. അസിസ്റ്റ് എസി.പി. ജി.എസ്.പി.

## സൗജന്യ ഭക്ഷണം: 'നൂമ്മ ഊണ്' പദ്ധതിക്കു തുടക്കം

സൗജന്യ കുപ്പൺ കലക്ടറേറ്റിലും സൗത്ത് റെയിൽവേ സിറ്റേഷനിലും ലഭ്യം

കാക്കനാട് • കലക്ടറേറ്റിലും ഏറ്റവും പുതിയ നൂമ്മ ഊണ് പദ്ധതിക്ക് തുടക്കം നൽകുന്ന 'നൂമ്മ ഊണ്' പദ്ധതി ഉന്നി എ.സി. മോയിൽ ഉദ്ദേശിക്കുന്നു. ചെമ്പതു

എ.എസ്.എ. കലക്ടറേറ്റിലും സൗത്ത് റെയിൽവേ സിറ്റേഷനിലും ലഭ്യം ചെയ്തു. മറ്റൊരു ഏ.സി. മോയിൽ നിർവഹിക്കുന്നു. അറി. കലക്ടർ ഉദ്യോഗാ പ്രിയ. സിപിടി കൗസൽപ്പതി, പെട്രോനെറ്റ് എ.സി. ടി.എൻ. സി.കെ.ജോൺ, ജോൺ ചെറുവത്തോൾ എ.എസ്.എ. കലക്ടർ മൃദാഞ്ജന സി.പി. ടി. തോമസ് എ.എസ്.എ. കെ. അസിസ്റ്റ് എസി.പി. ജി.എസ്.പി.

Press Clipping of the Numma Onnu Project – Hunger Free City



Future Group Award for Best emerging CSR Brand



Rotary Club Recognition For Committed Services



Sr. VP ( Plant Head ) receiving the Recognition from UK Minister



Press Clippings Of The Fire Training provided at the peripheral schools



Rotary Club Memento to PLL CSR



Future Group Trophy to PLL



ഇല്ലാ കമ്പനി പ്രതിനിധി ദീപാൻ ജൻ ബന്ദോപായായ, മാത്യു സംഗമം അധ്യക്ഷൻ ചെയ്ത. പ്രധാനാധ്യാപിക കെ.അനൂപ, ഹൃദയസ്നാനിഗം, സി.ബി.ഇണ്ണിക്കൽ ഷണ്ണൻ എന്നിവർ പ്രസംഗിച്ചു.

ഇല്ലാ കമ്പനി പ്രതിനിധി ദീപാൻ ജൻ ബന്ദോപായായ, മാത്യു സംഗമം അധ്യക്ഷൻ ചെയ്ത. പ്രധാനാധ്യാപിക കെ.അനൂപ, ഹൃദയസ്നാനിഗം, സി.ബി.ഇണ്ണിക്കൽ ഷണ്ണൻ എന്നിവർ പ്രസംഗിച്ചു.

Press Clipping for the Kabaddi Promotion






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*KOODIYATTAM – A UNESCO RECOGNISED ART FORM OF KERALA , A PROJECT FOR THE REVIVAL OF THE ART FORM TO BE TAKEN UP INITIALLY AT A SMALLER SCALE UNDER CULTURE AND HERITAGE .*



**PETRONET  
LNG  
LIMITED**

# ENVIRONMENT MANAGEMENT CELL

	Prepared By	Approved By	Issued By
 <b>PETRONET LNG LIMITED</b>	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

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## 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:

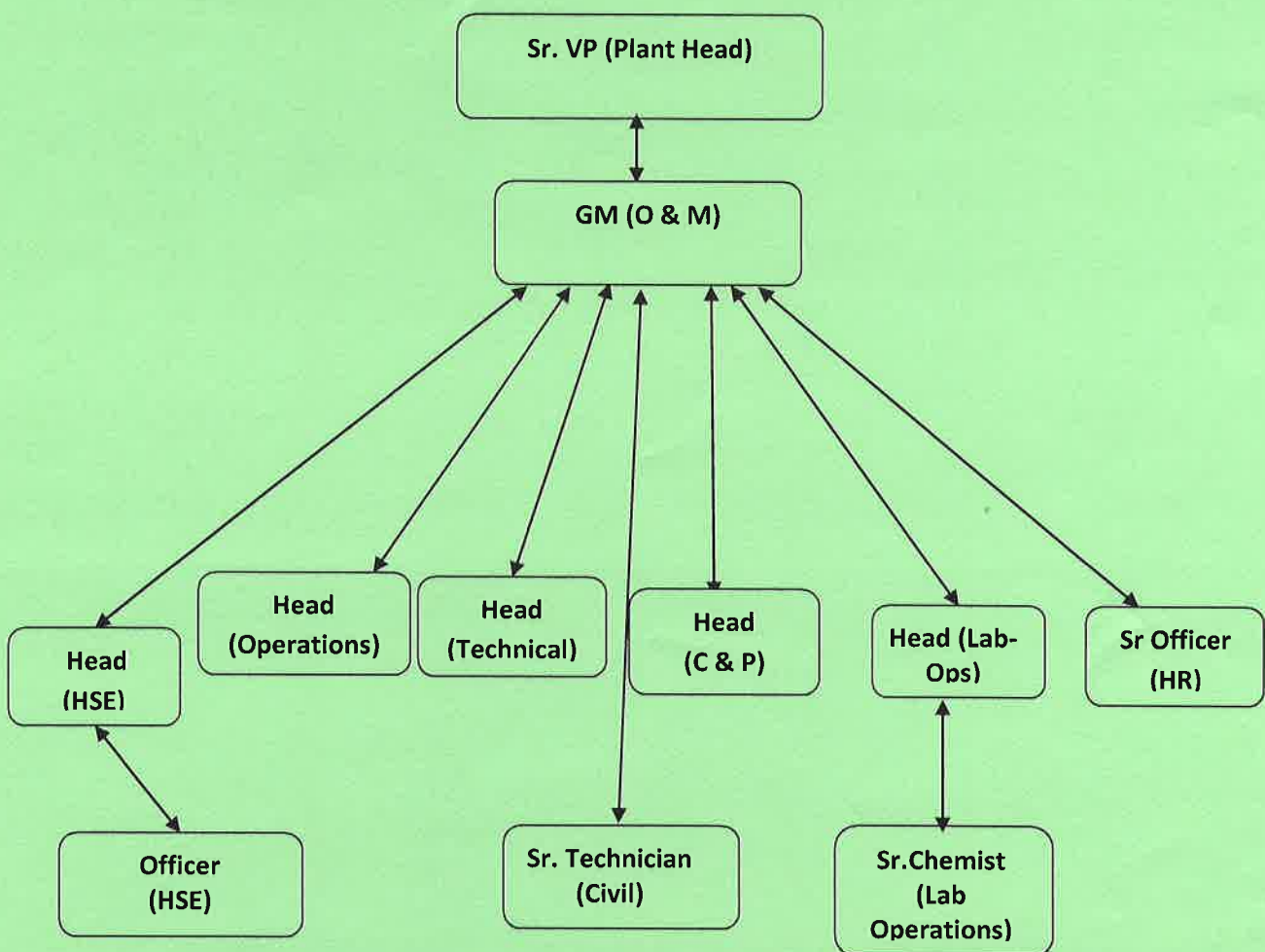
This document outlines the different aspect of the Environment management like its members, structure, roles and responsibility and mode of functioning.

## 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)

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