

Your application has been **Submitted** with following details

Proposal No	IA/KL/MIS/10670/2002
Compliance ID	28390360
Compliance Number(For Tracking)	EC/M/COMPLIANCE/28390360/2023
Reporting Year	2023
Reporting Period	01 Dec(01 Apr - 30 Sep)
Submission Date	01-12-2023
IRO Name	P Subramanyam
IRO Email	agmu102@ifs.nic.in
State	KERALA
IRO Office Address	Budgam

Note:- SMS and E-Mail has been sent to P Subramanyam, KERALA with Notification to Project Proponent.



Petronet LNG Limited

Survey No. 347, Puthuvypu P.O.
Kochi - 682 508, India.
Tel: +91- 484 - 2757302 Fax: +91- 484-2502264
www.petronetlng.in
CIN L74899DL1998PLC093073
PAN: AAACP8148D. GST: 32AAACP8148D1ZP

PLL/KOCHI/MoEF&CC/2023-24/01

01.12.2023

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 2nd June 2003.

Sir,

The Six-monthly compliance report for the above clearance for the period of April to September 2023 is attached.

Thanking You

Sincerely,



Upinder Kumar

Chief General Manager & Vice President (Plant Head)

Copy to: The Environmental Engineer, District Office 1, Kerala State Pollution Control Board, Gandhinagar, Kochi – 682 020.



Registered & Corporate Office:

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

Dahej LNG Terminal:

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

Compliance report of EC&CRZ Clearance No. J-16011/26/2001-IA-III dated 02nd JUNE 2003 for the Construction of LNG Import Terminal at Puthuvypeen Island, Kochi, Kerala by M/s Petronet LNG Ltd (PLL)

Period: April 2023 to September 2023

Sl. No	Condition Type	Condition Description	Compliance Status
1	Specific	All the conditions stipulated by the Science Technology and Environment Department (STED), Government of Kerala vide their Letter No. 4215/B1/2000/STED, dated 9 th February-2001 should be effectively implemented.	<ul style="list-style-type: none"> Letter No. 4215/B1/2000/STED, dated 09th February-2001 does not specify any conditions for compliance. Conditions mentioned in the Letter No.1143/A2/2005/ dated 14.10.2005 from KCZMA are complied. Report attached as Annexure 1.
2	Specific	All the conditions stipulated by Kerala Pollution Control board in their NOC No: PCB/NOC/EK/117/98 dated 17.09.99 should be effectively implemented.	Conditions stipulated by KSPCB in their NOC No. PCB/NOC/EK/117/98 dated 17.09.99 are complied. Report attached as Annexure 2.
3	Specific	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 MoEF&CC.
4	Specific	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.	Terminal construction and laying of pipelines were carried out as per applicable standards & regulations. Safety and warning systems are installed, and the details were submitted with HYCR for the period April to Sep 2013.
5	Specific	No groundwater shall be tapped for the project.	Groundwater is not required during construction stage and operation phase. Water requirement during operation of the terminal is being met by the condensed water generated from air heater & by purchasing from municipal sources.
6	Specific	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 above LNG storage tanks and the water collected is being used in the terminal.
7	Specific	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.	Mangrove afforestation plan was submitted with HYCR dated for the period April to September 2013. PLL had spent Rs.60.00 lakh for Mangrove Afforestation Project till date and the details were submitted to MoEF&CC with the HYCR for October to March 2020.

8	Specific	The budget allocated for environment safeguard measures shall not be diverted for any other purpose.	PLL ensure that the budget allocated for environment safeguard will not be diverted for other purposes.
9	Specific	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 report for 2.5 MMTPA Terminal capacity was submitted at MoEF&CC on 16 th Feb 2001. EIA and QRA reports were submitted at MoEF&CC on 22nd Sept 2011. Additional safeguards are being implemented in accordance with the EIA report.
10	Specific	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	Site emergency response plan was submitted to MoEF&CC on 22nd September-2011 and with the HYCR for the period October 2012 to March 2013. Safety norms for the ship movements as received from CoPT (Cochin Port Trust) are included as part of ERDMP.
11	Specific	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 Central Water and Power Research Station (CWPRS) shall be duly implemented. The dredged materials shall be disposed of as per the recommendations by CWPRS.	All the safety measures had taken before breakwater construction. Location and size of the basin were finalized after detailed study done by CWPRS and revalidation by HR Wallingford. Recommendations from CWPRS were implemented. The dredged material is being disposed of at the locations identified by Cochin Port trust.
12	Specific	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. Expansion of existing service road in the Costal Regulation Zone-I shall not be carried out.	PLL is not located in the mangrove area. PLL terminal is located at about 100m from the mangrove buffer zone. The existing service road belongs to Panchayat. PLL will not carry out any expansion of existing service road into CRZ Zone 1(i).
13	Specific	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.

14	Specific	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.	LNG Pipelines are laid above ground along the jetty trestle. PLL is not taking sea water for its process and No effluent is getting discharged into the sea.
15	Specific	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 had submitted to MoEF&CC, the change in the regasification process of the terminal and Sea water intake is not required in Shell and Tube Vaporizers. So, this condition remains not applicable.
16	Specific	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 had submitted to MoEF&CC, the change in the regasification process of the terminal and Sea water intake is not required in Shell and Tube Vaporizers.
17	Specific	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 Bathymetric survey is being carried out by Cochin Port Trust. The dredged material is being disposed of at the locations identified by Cochin Port trust.
18	Specific	Regular surveys shall be conducted to identify changes in the channel morphology so that navigational hazards are minimal.	The channel is belonging to Cochin Port and its Morphology survey has been carrying out by Cochin Port Trust.
19	Specific	Marine environment shall be periodically monitored to assess changes, if any, in the ecology and suitable remedial measures, if any required, shall be taken.	Marine water analysis is being carrying out once in 6 months through a KSPCB approved lab. As per report, there are no adverse changes observed in the marine water quality. Latest report is attached as Annexure 3.

20	General	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.	Terminal construction was carried out as per applicable central & local regulations like KSPCB, PESO, F&B, Fire and Rescue dept., KCZMA etc. All the statutory approvals were submitted with the HYCR for the period October 2012 to March 2013.
21	General	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.	This was ensured during construction stage. At present, ground water wells are installed for ground water quality monitoring. Latest ground water analysis report is attached as Annexure 4.
22	General	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.	Plant operations being carried out in accordance with all applicable regulations. All the approvals and licenses obtained from statutory bodies were submitted with HYCR for the period October 2012 to March 2013.
23	General	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.	Oil spill contingency plan is in place which is prepared by CoPT. Any kind of spillage incidents will be handled by Cochin Port Trust. Details of oil spill contingency plan was submitted to MoEF&CC along with the HYCR for the period October 2012 to March 2013.

24	General	Control room / tower should be equipped with modern communication and control device to act instantaneously if spill/leakage occurs. At the jetty, loading arm 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.	Control room is equipped with modern communication and control facilities like detectors & ESD systems for act during leakage or spills. Loading arms are equipped with Emergency release systems. PLL do not handle LPG at our jetty.
25	General	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.	Fixed DCP fire extinguishing system & DCP extinguishers are provided at jetty. Water spray and curtain system is provided at jetty and other locations. Details submitted with HYCR for the period April to September 2013.
26	General	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.	A laboratory with equipment's for water quality analysis and qualified employees is in place. Water & Air quality monitoring is carrying out with the help of a PCB approved third party lab. Reports attached as Annexure 5. Services of a marine biologist is not required as there was a change in the initially proposed project, where sea water intake is required in the process.
27	General	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 the environment, Colonies for the laborers should not be located in the Coastal Regulation Zone area. It should also be fuel wood purpose.	During construction, PLL has provided adequate infrastructure facilities such as water supply, fuel for cooking, sanitation, etc. to the labourers. Labour colonies were not located in CRZ area.

28	General	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.	STP and septic tanks are provided for treating sewages from buildings. No sewage or waste from PLL are allowed to enter in water bodies. Treated water from STP is used for gardening purpose.
29	General	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.	Wastes generated by vessels and tugs are handled & disposed by the vessels as per the guidelines of Annex V of Marpol (IMO).
30	General	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	All the navigation related requirements are maintained by Cochin Port Trust.
31	General	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.	CSR projects are being undertaken by PLL for community development and welfare in nearby villages using a separate CSR fund. CSR report & expenditures during the period, April to September 2023 is attached as Annexure 6.
32	General	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.	Quarrying material was sourced from Government approved quarries during terminal construction. Details regarding this are submitted with six monthly compliance reports for the period October 2012 to March 2013.
33	General	The dredging operations to be undertaken with the prior approval of this Ministry, shall be executed with appropriate safeguard measures to prevent turbidity conditions in consultation with the expert agencies such CWPRS/NIO.	Dredging approval has been taken from MoEF&CC vide their order No. J16011/26/2001- IA-III dated 16th November 2010. Dredging completed & maintenance dredging is being regularly carried out by ensuring all safeguards.
34	General	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, semiskilled and skilled worker wherever possible based on their qualification and merits.

35	General	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 the recommendations are implemented.
36	General	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 an Environment Management Cell (EMC) under Chief General Manager & Vice President (Plant Head) with members from plant departments.
37	General	The project affected people, if any should be properly compensated and rehabilitated.	No people affected directly as the project was on uninhabited land.
38	General	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.	The fund earmarked for environment management is included in the budget and will not be diverted for other purposes.
39	General	Full support should be extended to the officers of this Ministry's Regional 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.	PLL extend its full support to the officers of this ministry's Regional Office, Bengaluru and the officers of the Central and State Pollution Control Board during the inspection for monitoring purpose.
40	General	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.
41	General	This Ministry reserves the right to revoke this clearance, if any of the conditions	Noted. PLL will abide by all Environment clearance conditions.

		stipulated are not complied with to the satisfaction of this Ministry.	
42	General	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 additional conditions, if any suggested by the ministry or any other competent authority in writing.
43	General	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 http://www.envfornic.in . 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.	Advertised in two local newspapers widely circulated in the region around the project. Copy of advertisement submitted along with the six-monthly compliance report for the period April to September, 2013.
44	General	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.	PLL had informed the Regional Office as well as the Ministry regarding the date of financial closure and final approval of the project vide letter dated 5th Sept-2008.

Conditions mentioned in the Letter No. 4215/B1/2000/STED, dated 9th February-2001 does not specifies any conditions for compliance.

Conditions mentioned in the Letter No. 1143/A2/2005/STED dated 14th October-2005 from Kerala coastal Zone Management Authority 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.	Existing service road in the Costal Regulation Zone-I belongs to Panchayat and PLL will not do any expansion of this 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 by local purchase. During construction stage, requirement of water was met by purchasing.
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 17th September-1999. We have obtained a Consent to Operate with no. PCB/HO/EKM-1/ICO-R/16/ 2023 dated 14th August 2023, and is valid up to on 31st March 2028, a copy of the same is enclosed here.
5.	EIA document including risk analysis and disaster management plan should be submitted directly to MoEF&CC for environment clearance, under intimation to this office.	Comprehensive EIA for 2.5 MMTPA Terminal capacity was submitted at MoEF&CC on 16th February-2001. EIA, QRA and Site emergency response plan for 5 MMTPA terminal capacity were submitted at MoEF&CC on 22nd September-2011.

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:

Sl. No	Conditions mentioned	PLL Compliance remarks
1	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	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 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 is generating only sewage wastes and it is being handled with an STP of capacity 30 KLD & through the septic tanks and soak pits installed for individual building. PLL will comply with the effluent standard as per Water Act and if additional facilities are required, then PLL will provide those facilities for treatment of effluents.
3	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 (Dry low emission, Low NOx burners) and CEMS (Continuous Emission monitoring System). Stacks of height as required by statues were installed for Flare, GTG, EDG & Fire water pumps.
	69.0 m above ground level for flare stack and 5.5 meter above the roof level of Generator room for the Gensets of capacity 750 KVA.	PLL had received a 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 reports dated 30 th September-2013. PLL has provided the stack discharge at 3.5 meter above the roof level for Emergency Diesel Generator room (EDG).
4	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, soak pit and STP. Treated water from STP is being used for gardening purpose. PLL has obtained Integrated Consent to Operate from Kerala State Pollution Control board.
5	The applicant shall obtain the "Consent to Operate" from the Board under the Air (Prevention and Control of Pollution)	PLL had obtained Integrated Consent to Operate from KSPCB before commissioning of the facility (ICTO No:

	Act'1981 before commissioning the industry.	PCB/HO/EKM/ICO/40/2013 dated 05.08.2013).
6	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	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 Gul mohar, Amaltas, Neem, fig, mango, arjun tree etc. A horticulture department is functioning inside the terminal for green belt monitoring and gardening related works.
8	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 th August-2013, A copy of this letter has already been submitted with six monthly reports dated 30 th September-2013.
9	There shall not be any fugitive emission from the plant/premises.	There are no fugitive emissions from the plant/premises.
10	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	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 is not discharging 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 daytime and 55 dB (A) during nighttime.	Ambient sound levels measured at a distance of 1 m away from the boundary walls are well within the limits as specified. Ambient sound level monitoring is being carried out every quarter by a KSPCB approved agency and the monitoring reports are being regularly submitted at KSPCB.
13	Consent to establish shall be obtained prior to setting up of captive power plant in futures.	A Consent to Establish was obtained by PLL prior to setting up of captive power plant.

TEST REPORT

ULR No: TC540223000010834F		
LRI No.: SEAAL23061322A	Date: 21-06-2023	Page 1 of 2

CUSTOMER DETAILS

Customer Name & Address	M/s Petronet LNG Limited Survey No.347, Puthuvypu P.O Kochi, Ernakulam District		
Customer Reference	Test Request Date: 12-06-2023		

SAMPLE DETAILS

Product Category	Water	Sample Code	WT23060219
Sample Name	Water	Sample Received on	13-06-2023
Sample Description by Customer	Marine Water	Temperature @ Receipt	4°C
Sample Conditions at Receipt	Fit for Analysis	Test Commenced on	13-06-2023
Sample Quantity & Packing	10 L & 125 ml in a Plastic Bottle	Test Completed on	20-06-2023
Information Provided by Customer	---	Sampled by	Lab Authorized Sampler

DETAILS OF SAMPLING

Sample Source	Jetty Area	Date of Sampling	12-06-2023
Sampling Procedure	SEAAL/ENL/GEN/SOP/01 & SEAAL/MBL/SOP/06	Sample Temperature	25°C

TEST RESULTS - CHEMICAL PARAMETERS

Sl.No.	PARAMETERS	TEST METHOD	UNIT	RESULT
1	Temperature	APHA 23rd 2550 B Edn: 2017	°C	30
2	Colour	IS 3025 (Part4):1983	Hazen	1
3	pH	IS 3025 (Part 11):1983	---	7.36
4	Electrical Conductivity	IS 3025 (Part 14):1984	µS/cm	21870
5	Total Dissolved Solids	IS 3025 (Part 16):1984	mg/L	14210
6	Turbidity	IS 3025 (Part 10):1984	NTU	3.9
7	Total Suspended Solids	IS 3025 (Part 17):1984	mg/L	2.80
8	Chloride as Cl	IS 3025 (Part 32):1988	mg/L	7410
9	Salinity	APHA 23 rd Edition 2520 - B: 2017	---	13.363
10	Sulphate as SO ₄	IS 3025 (Part 24):1986	mg/L	1193
11	Fluoride as F	APHA 23 rd Edition 4500-F- B D: 2017	mg/L	0.55

Shency Joy
TM-Chemical
Checked by:



Remya B
TM-Biological
Authorized Signatory

Laju P N
Laboratory Head
Authorized Signatory

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

Standard^S Environmental & Analytical Laboratories

Accreditation & Approval: NABL accredited Testing Laboratory as per ISO/IEC 17025:2017
vide Certificate No. TC - 5402 & "A" Grade Laboratory approved by KSPCB.

K.J. Tower, Pathalam, Udyogamandal P.O., Ernakulam-683 501, Tel. 0484-2546660, 93 87 27 24 02, 90 74 34 14 43
Web: www.sealabs.in, E-mail: seaalab@gmail.com

TEST REPORT

ULR No: TC540223000010834F

LRI No.: SEAAL23061322A

Date: 21-06-2023

Page 2 of 2

TEST RESULTS - CHEMICAL PARAMETERS

Sl.No.	PARAMETERS	TEST METHOD	UNIT	RESULT
12	Iron as Fe	IS 3025 (Part 53):2003	mg/L	0.34
13	Mercury as Hg	IS 3025 (Part 48):1994	mg/L	BDL (LOD-0.001)
14	Lead as Pb	IS 3025 (Part 47):1994	mg/L	BDL (LOD-0.01)
15	Copper as Cu	IS 3025 (Part 42):1992	mg/L	BDL(LOD-0.016)
16	Zinc as Zn	APHA 23 rd Edition 3111B: 2017	mg/L	BDL (LOD-0.008)
17	Nickel as Ni	IS 3025 (Part 54): 2003	mg/L	BDL (LOD-0.003)
18	Cadmium as Cd	IS 3025 (Part 41): 1992	mg/L	BDL (LOD-0.003)
19	Arsenic as As	IS 3025 (Part 37):1988	mg/L	BDL (LOD-0.001)
20	Hexavalent Chromium as Cr ⁶⁺	IS 3025 (Part 52):2003	mg/L	BDL(LOD-0.07)
21	Cyanide as CN	IS 3025 (Part 27):2021	mg/L	<0.01
22	Oil & Grease	IS 3025 (Part 39): 2021	mg/L	<1.00
23	Dissolved Oxygen	IS 3025 (Part 38):1989	mg/L	6.70
24	Biochemical Oxygen Demand (3 days at 27 °C)	IS 3025 (Part 44):1993	mg/L	<2.00
25	Chemical Oxygen Demand	IS 3025 (Part 58):2006	mg/L	<4.00
26	Pesticide	SEAAL/INS/RWM/SOP/01	---	< 0.005

TEST RESULTS - BIOLOGICAL PARAMETERS

Sl.No.	PARAMETERS	TEST METHOD	UNIT	RESULT	Requirement as per Acceptable Limit of IS 10500 : 2012
1	Total Plate Count	IS 1622:1981	cfu/mL	120	---
2	Total Coliform Bacteria	IS 15185: 2016	Absent/100 ml	Absent	Absent/100 ml
3	E coli	IS 15185: 2016	Absent/100 ml	Absent	Absent/100 ml
4	Faecal Coliform	IS 1622:1981	MPN/100ml	<2	Absent/100 ml

*Applicable only when sample is chlorinated

Note: BDL-Below Detection Limit,

LOD-Limit of Detection

Remark

End of Report

Shency Joy
TM-Chemical
Checked by:



Remya B
TM-Biological
Authorized Signatory

Laju P N
Laboratory Head
Authorized Signatory

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

Standard^S Environmental & Analytical Laboratories

Accreditation & Approval: NABL accredited Testing Laboratory as per ISO/IEC 17025:2017
vide Certificate No. TC - 5402 & "A" Grade Laboratory approved by KSPCB.

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

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

Standards

TEST REPORT

LRI No.: SEAAL23061322N	Date: 21-06-2023	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, Ernakulam District
Customer Reference	Test Request Date: 12-06-2023

SAMPLE DETAILS

Product Category	Water	Sample Code	WT23060219
Sample Name	Water	Sample Received on	13-06-2023
Sample Description by Customer	Marine Water	Temperature @ Receipt	4°C
Sample Conditions at Receipt	Fit for Analysis	Test Commenced on	13-06-2023
Sample Quantity & Packing	10 L & 125 ml in a Plastic Bottle	Test Completed on	20-06-2023
Information Provided by Customer	---	Sampled by	Lab Authorized Sampler

DETAILS OF SAMPLING

Sample Source	Jetty Area	Date of Sampling	12-06-2023
Sampling Procedure	SEAAL/ENL/GEN/SOP/01 & SEAAL/MBL/SOP/06	Sample Temperature	25°C

TEST RESULTS - CHEMICAL PARAMETERS

Sl.No.	PARAMETERS	TEST METHOD	UNIT	RESULT
1	Insecticide	SEAAL/INS/RWM/SOP/01	µg/L	Absent

Remark

End of Report



Shency Joy
TM-Chemical
Checked by:



Laiju P N
Laboratory Head
Authorized Signatory

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Standards Environmental & Analytical Laboratories

Approval: "A" Grade Laboratory approved by Kerala State Pollution Control Board.

Behind BPCL Petrol Pump, Edayar, Muppathadam P.O., Ernakulam Dist. - 683 110, Tel. 0484-2546660, 93872 72402, 90743 41443
Web: www.sealabs.in, E-mail: seaalab@gmail.com

TEST REPORT

ULR No: TC540223000010835F

LRI No.: SEAAL23061323A

Date: 21-06-2023

Page 1 of 2

CUSTOMER DETAILS

Customer Name & Address	M/s Petronet LNG Limited Survey No.347, Puthuvypu P.O Kochi, Ernakulam District
Customer Reference	Test Request Date: 12-06-2023

SAMPLE DETAILS

Product Category	Water	Sample Code	WT23060220
Sample Name	Ground Water	Sample Received on	13-06-2023
Sample Description by Customer	Bore Well	Temperature @ Receipt	4°C
Sample Conditions at Receipt	Fit for Analysis	Test Commenced on	14-06-2023
Sample Quantity & Packing	10 L & 125 ml in a Plastic Bottle	Test Completed on	20-06-2023
Information Provided by Customer	---	Sampled by	Lab Authorized Sampler

DETAILS OF SAMPLING

Sample Source	Bore Well (East Side)	Date of Sampling	12-06-2023
Sampling Procedure	SEAAL/ENL/GEN/SOP/01 & SEAAL/MBL/SOP/06	Sample Temperature	24°C

TEST RESULTS - CHEMICAL PARAMETERS

Sl. No.	PARAMETERS	TEST METHOD	UNIT	RESULT
1	pH	IS 3025 (Part 11):1983	---	8.32
2	Temperature	APHA 23rd 2550 B Edn: 2017	°C	30
3	Total Dissolved Solids	IS 3025 (Part 16):1984	mg/L	1024
4	Electrical Conductivity	IS 3025 (Part 14):1984	µS/cm	1862
5	Turbidity	IS 3025 (Part 10):1984	NTU	<0.1
6	Chloride as Cl	IS 3025 (Part 32):1988	mg/L	328
7	Iron as Fe	IS 3025 (Part 53):2003	mg/L	0.13
8	Fluoride as F	APHA 23 rd Edition 4500-F- B D: 2017	mg/L	<0.10
9	Sulphate as SO ₄	IS 3025 (Part 24):1986	mg/L	112
10	Salinity	APHA 23rd 2520 - B Edn.: 2017	---	0.96
11	Mercury as Hg	IS 3025 (Part 48):1994	mg/L	BDL (LOD-0.001)

Shency Joy
TM-Chemical
Checked by:



Laju P N
Laboratory Head
Authorized Signatory

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Standard^S Environmental & Analytical Laboratories

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K.J. Tower, Paltham, 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

TEST REPORT

ULR No: TC540223000010835F

LRI No.: SEAAL23061323A

Date: 21-06-2023

Page 2 of 2

TEST RESULTS - CHEMICAL PARAMETERS

Sl. No.	PARAMETERS	TEST METHOD	UNIT	RESULT
12	Lead as Pb	IS 3025 (Part 47):1994	mg/L	<0.20
13	Copper as Cu	IS 3025 (Part 42):1992	mg/L	BDL (LOD-0.016)
14	Total Chromium as Cr	IS 3025 (Part 52):2003	mg/L	BDL (LOD-0.05)
15	Zinc as Zn	APHA 3111B 23rd Edn, 2017	mg/L	BDL (LOD-0.008)
16	Cadmium as Cd	IS 3025 (Part 41):1992	mg/L	BDL (LOD-0.003)
17	Cyanide as CN	IS 3025 (Part 27):2021	mg/L	<0.01
18	Oil & Grease	IS 3025 (Part 39): 2021	mg/L	<1.00
19	Dissolved Oxygen	IS 3025 (Part 38):1989	mg/L	6.80
20	Biochemical Oxygen Demand (3 days at 27 °C)	IS 3025 (Part 44):1993	mg/L	<2.00
21	Chemical Oxygen Demand	IS 3025 (Part 58):2006	mg/L	8.00
22	Pesticide	SEAAL/INS/RWM/SOP/01	µg/L	< 0.005

Note: BDL-Below Detection Limit,

LOD-Limit of Detection

Remark

End of Report

Shency Joy
TM-Chemical
Checked by:



Laju P N
Laboratory Head
Authorized Signatory

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Standards

TEST REPORT

LRI No.: SEAAL23061323N	Date: 21-06-2023	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, Ernakulam District
Customer Reference	Test Request Date: 12-06-2023

SAMPLE DETAILS

Product Category	Water	Sample Code	WT23060220
Sample Name	Ground Water	Sample Received on	13-06-2023
Sample Description by Customer	Bore Well	Temperature @ Receipt	4°C
Sample Conditions at Receipt	Fit for Analysis	Test Commenced on	14-06-2023
Sample Quantity & Packing	10 L & 125 ml in a Plastic Bottle	Test Completed on	20-06-2023
Information Provided by Customer	---	Sampled by	Lab Authorized Sampler

DETAILS OF SAMPLING

Sample Source	Bore Well (East Side)	Date of Sampling	12-06-2023
Sampling Procedure	SEAAL/ENL/GEN/SOP/01 & SEAAL/MBL/SOP/06	Sample Temperature	24°C

TEST RESULTS - CHEMICAL PARAMETERS

Sl.No.	PARAMETERS	TEST METHOD	UNIT	RESULT
1	Insecticide	SEAAL/INS/RWM/SOP/01	µg/L	Absent

Remark

End of Report



Shency Joy
TM-Chemical
Checked by:



Laiju P N
Laboratory Head
Authorized Signatory

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Approval: "A" Grade Laboratory approved by Kerala State Pollution Control Board.

Behind BPCL Petrol Pump, Edayar, Muppathadam P.O., Ernakulam Dist. - 683 110, Tel. 0484-2546660, 93872 72402, 90743 41443
Web: www.sealabs.in, E-mail: seaalab@gmail.com

Ambient Air Monitoring Report (April 2023 to September 2023)

LOCATION NO.	Location of Ambient Air Sampling	Month	PM (<10 microns) in Micrograms/m ³ ; Limit 100 Micrograms/m ³	PM (<2.5 microns) in Micrograms/m ³ ; Limit 60 Micrograms/m ³	SOx as SO ₂ in Micrograms/m ³ ; Limit 80 Micrograms/m ³	NOx, Oxides of Nitrogen in Micrograms/m ³ ; Limit 80 Micrograms/m ³	Carbon Monoxide (CO); mg/m ³ 4.0 mg/m ³	OZONE Micrograms/m ³ ; Limit 180 Micrograms/m ³	Hydrocarbons (HC); Micrograms/m ³
1	(Watch Tower-1) near MGH building	April	82.8	40	0	0	0	0	0
		May	35.1	15.9	0	0	0.18	0	0
		June	31.4	12.5	0	0	0.23	0	0
		July	39.4	17.5	0	0	0.24	0	0
		August	40.3	15.3	0	0	0.59	0	0
		September	30.3	16.6	0	0	0.31	0	0
		Avarage	43.22	19.63	0.00	0.00	0.26	0.00	0.00
		2	Near Fire Station Building	April	77.4	33.6	0	0	0
May	58.7			27.6	0	0	0.24	0	0
June	49.6			23.4	0	0	0.35	0	0
July	53.6			23.8	0	0	0	0	0
August	46.9			29.2	0	0	0.32	0	0
September	39.4			21.9	0	0	0.39	0	0
Avarage	54.27			26.58	0.00	0.00	0.22	0.00	0.00
3	Fire water Reservoir+ Watch Tower-5			April	87.5	43.9	0	0	0
		May	38.5	17.3	0	0	0.19	0	0
		June	33.2	14.2	0	0	0.25	0	0
		July	50.8	26.2	0	0	0	0	0
		August	42.5	23.1	0	0	0.44	0	0
		September	38.9	20.8	0	0	0.32	0	0
		Avarage	48.57	24.25	0.00	0.00	0.20	0.00	0.00
		4	Watch Tower-3 near Tank T-101	April	88.7	42.6	0	0	0
May	32.8			14.2	0	0	0.16	0	0
June	36.5			11.9	0	0	0.2	0	0
July	55.6			27.5	0	0	0	0	0
August	38.7			19.6	0	0	0.26	0	0
September	41.8			23.6	0	0	0.39	0	0
Avarage	49.02			23.23	0.00	0.00	0.17	0.00	0.00

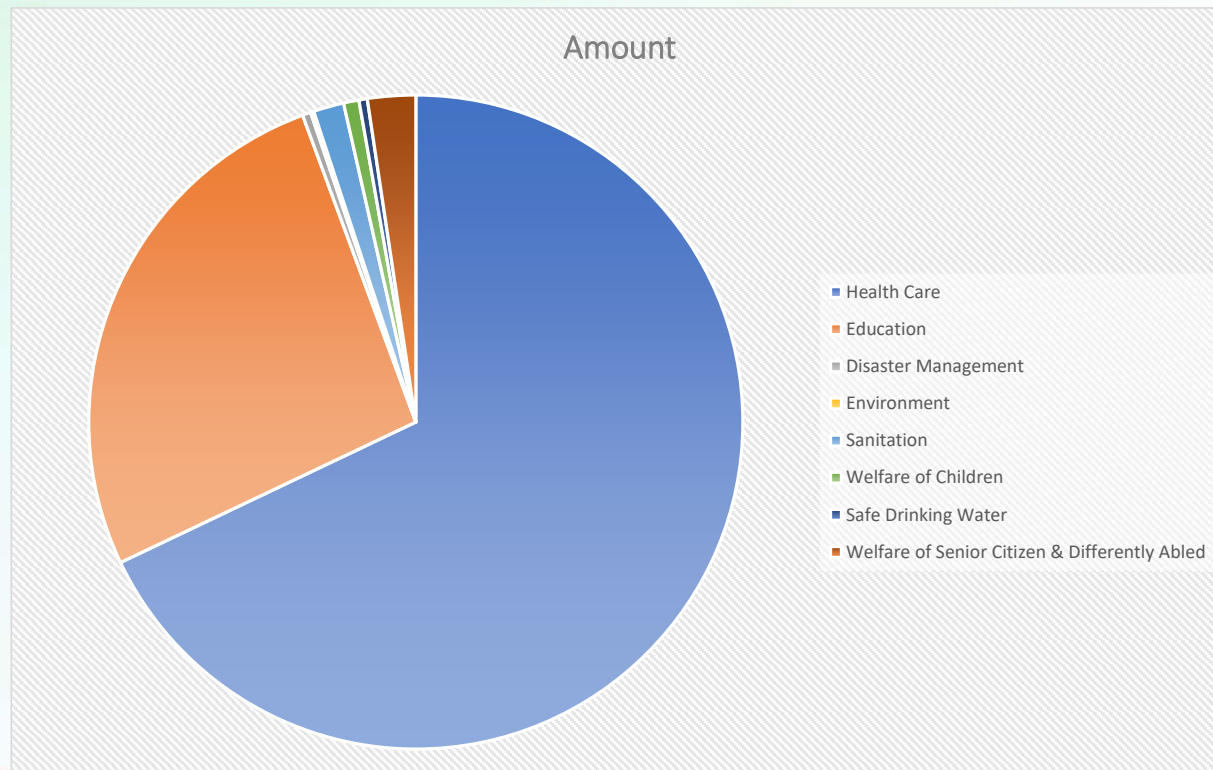
CSR UPDATES OF KOCHI LNG TERMINAL

APRIL 2023- SEPTEMBER 2023



www.petronetlng.in

CSR EXPENDITURE OF FY 2022-23



Overhead	Amount
Health Care	5,10,45,959.00
Education	1,98,76,803.34
Disaster Management	3,02,100.00
Environment	1,24,200.00
Sanitation	11,29,494.00
Welfare of Children	5,79,623
Safe Drinking Water	3,03,032.00
Welfare of Senior Citizen & Differently Abled	17,86,500.00

HEALTH



Free Mobile Medical Unit working around Vypin Block and Kothamangalam Block in association with M/s Wockhardt foundation



HEALTH



128 Slice CT Scan unit to General Hospital, Ernakulam

HEALTH



Free Mobile Medical Unit working around Vypin Block and Kothamangalam Block in association with M/s Wockhardt foundation

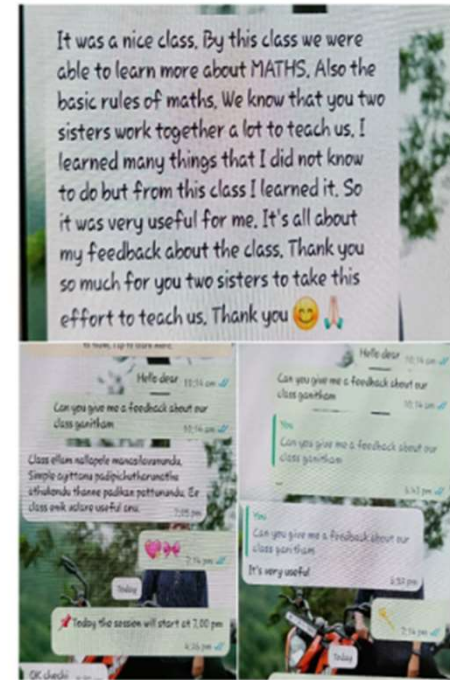


Awareness session on **Waste management and free health check-up** by Vypin and Kothamangalam MMU Team



Awareness session on Heart diseases and free health check-ups by Vypin and Kothamangalam MMU Team as part of **World Heart Day**

EDUCATION



“Project Ganitham”- Mathematics guidance initiative aimed for 25000 high school students of Kerala.

EDUCATION



Support towards paving tiles for Mazhavil Anganwadi, Puthuvype

EDUCATION



Stone laying Ceremony for construction of Jhansi Rani Anganwadi in ward IX of Pallippuram Grama Panchayat was conducted on 11th May 2023



Jhansi Rani Anganwadi under Construction



EDUCATION



PLL supported repair of ceiling and classrooms of Government LP School, Palliport, Vypin

SANITATION



PLL supported Refurbishment of Toilets(Boys/Girl) of Santa Cruz School, Vypin

SANITATION



PLL installed an incinerator at Government Medical College Idukki

SANITATION



Swachhata Pakhwada 2023



Employees taking Swachhata Pledge



Cleaning drive (Around Prerana building)



Reimbursement of toilets of Santa Cruz School, Vypin



Cleaning Drive (Maintenance/ Warehouse)

SANITATION

Swachhata Pakhwada 2023



Swachhata Poster Abhiyan for class 7th, 8th and 9th Students on the topic "CLEAN INDIA GREEN INDIA" for students of Santa Cruz Higher Secondary School, Ochanthuruth.

Essay writing competition on the topic "CLEANLINESS: FROM INDIVIDUAL TO SOCIETY" for high school students of Santa Cruz Higher Secondary School, Ochanthuruth.

SANITATION

Swachhata Pakhwada 2023



Swachhata Poster Abhiyan has been organized on the topic “CLEAN INDIA GREEN INDIA” for students of Government higher Secondary School, Elankunnapuzha.



Awareness session on cleanliness was conducted for contract employees of Kochi LNG Terminal

SANITATION

Swachhata Hi Seva 2023



Employees taking Swachhata Hi Seva Pledge



Awareness sessions on “Waste management at School and Home” were conducted at Govt UP School Azheekal and Govt. LP School Pallipuram as part of the campaign



Environment club inauguration and Waste Bins were conducted at Govt. UP School Azheekal

SANITATION

Swachhata Hi Seva 2023



Awareness session on cleanliness was conducted for contract employees of Kochi LNG Terminal



Exhibition, Seminar, Poster making, and Essay Writing Competitions conducted at various Schools in Vypin

SANITATION

Swachhata Hi Seva 2023



Street Play and Oath taking by KPMHS High School
Students at Edavanakkad

Shram Dhaan at Puthuvypu beach on 1 October 2023

WELFARE OF DIFFERENTLY ABLED



PLL extended Support towards setting up helpdesk for differently abled and senior citizens at Collectorate, Ernakulam. A formal inauguration has been conducted by Shri.

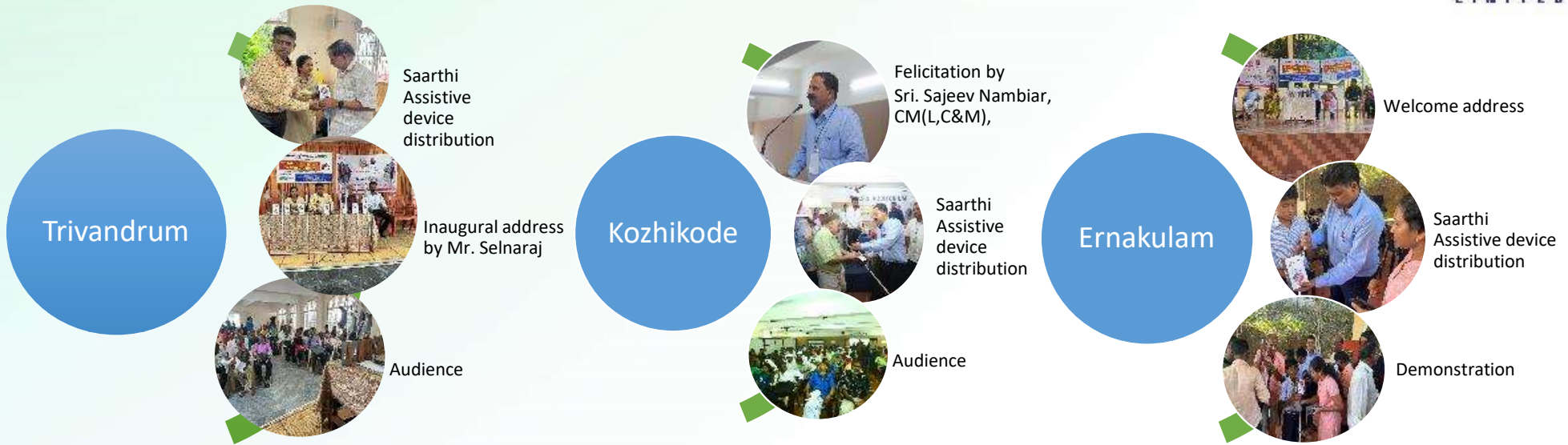
Umesh N S K IAS, District Collector of Ernakulam in presence of Shri. Shajahan S, Deputy Collector, and Shri. Yogananda Reddy, CGM & VP (Plant Head) on 06- July- 2023.

WELFARE OF DIFFERENTLY ABLED



Help Desk for Differently Abled and Senior Citizens (Visitor's Facilitation Centre), RDO, Fort Kochi was Inaugurated by Shri Vishnu Raj P, Honorable Sub Collector of Ernakulam

WELFARE OF DIFFERENTLY ABLED



Distribution and Training of "Saarathi Assistive Device" to Persons with Visual Impairment at Thiruvananthapuram, Kozhikode and Ernakulam

DISASTER MANAGEMENT



Inauguration of newly renovated office building of Kochi District Police training/ District Disaster management center, Marine Drive, Kochi was conducted on 31st May- 2023 in presence of Commissioner of Police Kochi and CGM & VP (Plant Head).



KERALA STATE POLLUTION CONTROL BOARD

FILE NO. :PCB/HO/EKM/CE/74/05

Date of issue :14/08/2023

INTEGRATED CONSENT TO OPERATE - RENEWAL

Consent No : PCB/HO/EKM-I/ICO-R/16/2023

- Ref : 1.Consent No. PCB/HO/EKM-1/ICO-R/18/2018 dated 10.10.2018 valid up to 30.03.2023
2.Consent Variation Order No. PCB/HO/EKM-1/ICO-VAR/2019 dated 01.10.2019
3. Consent No : PCB/HO/EKM-I/ICO-VAR/27/2020 dated 29.12.2020 Valid upto 30.03.2023
4.Consent No. PCB/HO/EKM-1/ICO-VAR/09/2021 Dated 24/05/2021 valid up to 30.03.2023
5.Consent No. PCB/HO/EKM-I/ICO-VAR/04/2022 Dated 07/07/2022 valid up to 30.03.2023
6.Consent No. PCB/HO/EKM-I/ICE-EXP/06/2022 Dated 21/06/2022 valid up to 31/05/2027
7.Consent No. KSPCB/ER1/ICE/10017084/Expansion/2023 Dated 01/02/2023 valid up to 31/01/2028

The 'Integrated Consent to Operate' issued as per reference above to M/s Petronet LNG Limited, Puthuvypu P.O, Kochi-682508, Ernakulam is hereby renewed up to 31/03/2028 and issued to M/s Petronet LNG Limited, Puthuvypu P.O, Kochi-682508, Ernakulam The consent(s)/ variation order(s) cited under reference are integral part of this renewal order and this order is subject to the conditions stipulated therein and the following modifications/ additions.

I. GENERAL

S.No.	Items	Description
1	Capital Investment	Rs. 4420.36 Crores
2	Annual Fees	Rs. 8840000/-
3	Fees Remitted	Rs. 4,43,56,401/-
4	Validity	31.03.2028
5	Additional activity	LNG truck loading bay and associated facilities & New 30KLD STP

II. Stack Details

Stack No.	Source of Emission	Emission Rate(Nm ³ /Hr)	Stack Height above		Control Equipment
			Ground Level(In Meters)	Roof Level(In Meters)	

As per previous consent					
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III. CONDITIONS

- 3.1. This consent is granted on the basis of the affidavit and other documents furnished by the applicant. If the statement furnished in the affidavit/document is found false or in the case of non compliance of integrated consent to operate conditions the consent issued will be withdraw/cancelled.
- 3.2. For renewal of the consent in case of continuance of discharge/operation of the establishment/industry, application in the prescribed form shall be submitted 2 months prior to the date of expiry through the web portal of the Board www.keralapcbonline.com. Late application will be accepted only with fine / late fee as applicable.
- 3.3. This consent is granted subject to the power of the Board to review and make variation in or revoke any of the conditions as the Board deems fit as per the relevant Acts/Rules.
- 3.4. 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.
- 3.5 No change or alteration of the unit/establishment is to be made without the prior written permission of the Board. Any change in the particulars furnished and/or in the identity of the occupier/authorized agent is to be intimated to the Board forthwith.
- 3.6 Pollution control measures provided in the unit to control air pollution, noise pollution and water pollution shall be maintained properly and made functional while the unit is in operation.
- 3.7 Waste batteries shall be disposed of as per the Battery Waste Management Rules, 2022.
- 3.8 Plastic Waste Management Rules, 2016 and amendments shall be followed for the management of plastic waste. Single use plastic ban as per notifications and orders for Kerala shall be strictly followed.
- 3.9 Environmental statement shall be submitted in Form V for each financial year ending on March 31st.
- 3.10 The condition No. 5.2 is modified as follows.
- i. The description of the type of hazardous waste in SI No.3 of "Industrial use of paints, plastic & ink waste" is changed to "Industrial use of paints & ink wastes".
 - ii. The Schedule/category of wastes in SI No.4 Category No:33.3 changed to Category No:33.1 and the description of the type of hazardous waste 'Barrels and containers used for handling of hazardous wastes/chemicals' changed to "Empty barrels/containers/liners contaminated with hazardous chemicals/wastes"
 - iii. Condition No.5.2 is modified as-The hazardous waste shall be stored for period not exceeding one hundred eighty days subject to the minimum quantity of generation of 10 TPA.
- 3.11 Condition no.6.4 is modified by adding "red 'category wastes- Contaminated wastes (recyclable)"
- 3.12. Condition no 6.6 is modified as follows
"The Biomedical waste shall not be stored beyond 48 hours".
- 3.13. STP having treatment units such as Bar Screen, Oil and grease trap, equalization tank, MBR, Treated water tanks shall be operated effectively to achieve following discharge standards.
- pH- .6.5 - 9
BOD- 30mg/l
Suspended Solids- 100 mg/l
Oil & Grease-10 mg/l
- 3.14. Treated effluent shall be reused to the maximum extent possible. Inbuilt facilities shall be provided for reuse of treated effluent for gardening, flushing etc and only balance shall be disposed through soak pit.

Reuse standards such as pH-6.5-8.5,BOD-3 mg/l, Suspended solids-10 mg/l ,Oil & grease -1 mg/l shall be ensured if the treated water reused for the flushing and gardening.

All other conditions of the Integrated Consent to Operate issued as per reference above remain unchanged.

Sudheer Kulamulla
Parambath

Digitally signed by Sudheer
Kulamulla Parambath
Date: 2023.08.14 15:55:24 +05'30'

DATE :14/08/2023

SIGNATURE & SEAL OF ISSUING AUTHORITY
CHAIRMAN



To

Sri.Pramod Narang, (Director, Technical)
1st Floor, World Trade Center, Babar Road
Barakhamba Lane, New Delhi - 110 001, India
Petronet LNG Limited
Survey No:347, Puthuvypu P.O, Kochi-682508, Ernakulam

1. This digitally signed document is legally valid as per the Information Technology Act 2000

2. For verifying this document please go to krocmmms.nic.in and search using date of issue/name of the unit/Application Number in "Consent Granted Applications" link in the home page of the Board's Online Consent Management and Monitoring System.