



Petronet LNG Limited

Survey No. 347, Puthuvypu P.O.

Kochi - 682 508, India.

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

www.petronetlmg.com

CIN L74899DL1998PLC093073

PAN: AAACP8148D. GST: 32AAACP8148D1ZP

PLL/KOCHI/MOEF&CC/2021-22/06

30th November 2021

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 13th March 2006.

Sir,

The Six-monthly compliance report for the period ending 30th September 2021 for the above clearance is attached.

Thanking You,

With Regards

Y Reddy
30-11-21

Yogananda Reddy

Chief General Manager & Vice President (Plant Head)



CC:

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



Registered & Corporate Office:

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

Dahej LNG Terminal:

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

Compliance report of EC & CRZ Clearance No. J-16011/26/2001-IA-III dated 13th March 2006; for the Construction of LNG Import Terminal at Puthuvypeen Island, Kochi, Kerala by M/s Petronet LNG Ltd.

Period: April to September 2021

SI_No	Condition Type	Condition Description	Compliance Status
1	Specific	All conditions stipulated in the clearance letter dated 2nd June 2003 should be strictly implemented. Also, all conditions stipulated by the State Coastal Zone Management Authority vide their letter No.1 143/A212005/STED, dated 14th October 2005 should be complied.	<ul style="list-style-type: none"> • Conditions mentioned in the Letter No. 4215/B1/2000/STED, dated 09th February-2001 does not specify any conditions for compliance. • All conditions mentioned in the Letter No. 1143/A2/2005/STED dated 14th October-2005 from Kerala coastal Zone Management Authority are complied with. Point wise compliance status is given as Annexure#1.
2	Specific	No Objection Certificate/consent should be obtained from the Kerala State Pollution Control Board for the enhanced LNG capacity at the terminal, before initiating the project.	<p>We have obtained Consent to Establish with No. PCB/NOC/EK/117/98 dated 17th September-1999 before initiating the project and the CTE was subsequently renewed.</p> <p>We have obtained Consent to Operate with no. PCB/HO/EKM-1/ICO-R/18/ 2018 dated 10th October 2018, and is valid up to on 31st March 2023, a copy of the same has already been submitted along with compliance report dated March-2019.</p>
3	Specific	The project proponent should ensure that all necessary precautions including installation of Full-containment - Type LNG tank with concrete roof as indicated in the risk analysis report should be implemented.	PLL has built two LNG storage tanks, both the tanks are of Full-containment type with concrete roofing.
4	Specific	The project proponent should ensure that no additional dredging/expansion or regasification plant will be undertaken for the above project.	PLL will not undertake additional dredging / expansion of regasification plant without approval of MOEF&CC. Only maintenance dredging is being carried out by Cochin port Trust.
5	Specific	The budget allocated for environment safeguard measures	Budget allocated for environment safeguard will not be diverted for other purposes. Environment budget for FY

		should not be diverted for any other purpose.	2020-21 was submitted along with half yearly compliance report for the period October 2020- March 2021.
6	Specific	The comprehensive Environmental Impact Assessment report which is under preparation should be completed early and the final report submitted to this Ministry within one year.	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 22nd September-2011.
7	Specific	Based on the risk analysis, Disaster Management Plan should be prepared and submitted to this Ministry within 6 months.	EIA with QRA and site emergency response plan (for 5 MMTPA terminal) submitted to MoEF&CC vide letter dated 22 nd September-2011.
8	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.	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 from Factories and Boiler, Fire rescue services has already been submitted with six monthly compliance report dated 05 th April-2013. PLL had obtained recommendations from KCZMA for obtaining Environment clearance from MoEF&CC and the same had been submitted along with the prior consent application.
9	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.	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 a Piezometer at green belt inside the terminal. Sampling & analysis of the water drawn from Piezometer is being carried out by KSPCB approved third party agency. The latest Ground water analysis report of the month of June 2021 is enclosed as Annexure#4.

10	General	<p>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</p>	<p>PLL has been notified as MAH category industry by Kerala Factories & Boilers department as per requirement of MSIHC rules 1989. 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 05th April-2013.</p> <p>We have received the renewed factory license which valid till 31st December-2022; a copy of the same has been enclosed here as Annexure#5.</p> <p>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 04th February-2013. We have already submitted the same with six monthly compliance reports, dated 05th April-2013.</p> <p>A comprehensive Emergency response and Disaster Management Plan has prepared by Petronet to meet any eventualities in case of an accident. This plan was submitted to District collector office vide letter no. PLL/KOCHI/ERDMP/DC/2014-15/C-01 dated 5th April-2014.</p> <p>All approvals as necessary were obtained before the commissioning of the project. Terminal was commissioned on 20th August-2013 and all activities related to commissioning were completed by 10th September 2013.</p>
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11	General	<p>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</p>	<p>A well-equipped laboratory with suitable Equipment's for monitoring the quality of air and water is in place, with Qualified and competent employees. However, PLL is carrying out periodic monitoring of environmental parameters by a KSPCB approved third party agency.</p> <p>24 hrs ambient air quality monitoring is being carried out once in a month at four different locations inside the terminal and analysis reports for the month of April to September 2021 are enclosed here as Annexure#6.</p> <p>PLL is conducting marine water quality analysis once in six month. The latest test report of June 2021 is enclosed here as Annexure#3.</p>
12	General	<p>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.</p>	<p>During the construction phase, PLL has provided adequate infrastructure facilities such as water supply, fuel for cooking, sanitation, etc. to the labourers. Labour colonies were not located in Costal Regulation Zone area.</p>
13	General	<p>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.</p>	<p>Individual Septic tanks with soak pits have provided for collection of sewages from plant buildings. The waste water is being collected and disposed regularly through the authorized agency of Cochin corporation. A STP of capacity 15KLD is also installed to handle domestic sewages. Treated water from STP has been used for gardening purpose and sludge is being used as manure.</p>

			No sewage or waste from PLL are allowed to enter into water bodies
14	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	Vessels and tugs 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 th April-2013.
15	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	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 are adopted for vessel movements as per the directions of Cochin Port Trust.
16	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. A brief description about the CSR activities carried out by PLL for the period, April - September 2021 is enclosed here with the photographs as Annexure # 7 . Petronet had spent a total amount of Rs. 159918599/- (Rupees Fifteen Crore Ninety Nine Lakhs Eighteen Thousand Five Hundred & Ninety-Nine only) for CSR projects till date, out of which Rs. 15540464/- (Rupees One Crore Fifty Five lakh Forty thousand Four hundred & sixty four only) had spent in the FY 2021-22. Detailed expense report is attached here as Annexure #8 .
17	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. We have already submitted the details regarding the same with six monthly compliance reports dated on 05 th April-2013.

18	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.	PLL has obtained Environmental clearance from MOEF&CC vide their order No. J-16011/26/2001-IA-III dated 16 th November-2010 for undertaking dredging operations of the basin. Dredging operation is completed and maintenance dredging is being carried out regularly by ensuring all safeguard measures.
19	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, semi-skilled and skilled worker wherever possible based on their qualification and merits.
20	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 recommendations made in Environment Management Plan and Disaster Management Plan, as contained in Environment Impact Assessment and Risk Analysis Report of the project were effectively implemented.
21	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). Other members of the team include Head of; Operations department, C&P (Contracts & Procurement) department, Technical department, HSE department, Civil Department, Lab operation & a representative from HR department for effectively implementing the stipulated environment safeguards.
22	General	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 the guidelines by authorities.
23	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	The fund earmarked for environment protection measures is included in the budget and will not be diverted for other purposes. Environment budget for FY 2020-21 was submitted along with half yearly compliance report for the period October 2020- March 2021.

		safeguards should be reported to this Ministry.	
24	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 mitigation measures and other environmental protection activities.	PLL will extend full support to the officers of this ministry's Regional Office, Bengaluru and the officers of the Central and State Pollution Control Board during the inspection for monitoring purpose by furnishing full details of analysis reports and action plans for environmental protection
25	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 in the project.
26	General	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.	Noted. PLL will abide by all Environment clearance conditions.
27	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.

28	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.envfor.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	PLL had advertised regarding environmental clearance accorded by the Ministry of Environment & Forest in two local newspapers widely circulated in the region around the project. Copy of the advertisement given in the two local newspapers has already been submitted along with the six-monthly compliance report dated 30 th September-2013.
29	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.	Site appraisal clearance obtained on 28 th Feb 2011. PLL had already informed the Regional Office as well as the Ministry regarding the date of financial closure and final approval of the project vide letter dated 5 th Sept-2008, from Director (Technical) addressed to Additional Director, MoEF & CC, Delhi and copy marked to MoEF & CC regional office.

Thanking You,

With Regards

Reddy
30.11.21



Yogananda Reddy

Chief General Manager & Vice President (Plant Head)

Annexure-1

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 outsourcing.
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/18/ 2018 dated 10th October 2018, and is valid up to on 31st March 2023, a copy of the same has already been submitted along with the compliance report dated March-2019.
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 16 th February-2001. EIA, QRA and Site emergency response plan for 5 MMTPA terminal capacity were submitted at MoEF&CC 22 nd September-2011.

TEST REPORT

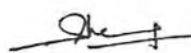
ULR No: TC540221000003484F	Date: 15-06-2021	Page 1 of 2
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CUSTOMER DETAILS	
Customer Name & Address	M/s Petronet LNG Limited Survey No.347, Puthuvypu P.O Kochi , Ernakulam District
Customer Reference	Test Request dt 07-06-2021

SAMPLE DETAILS			
Product Category	Water	Sample Code	WT21060011
Sample Name	Marine water	Sample Received on	09-06-2021
Sample Conditions at Receipt	Fit for Analysis	Temperature @ Receipt	4 °C
Sample Quantity & Packing	2 litre & 100ml Plastic Bottle	Test Commenced on	09-06-2021
Sampled by	Lab Authorized Sampler	Test Completed on	15-06-2021
Information Provided by Customer	---		

DETAILS OF SAMPLING			
Sample Source	Jetty Area (Sea)	Date of Sampling	07-06-2021
Sampling Procedure	SEAAL/ENL/GEN/SOP/01& SEAAL/MBL/SOP/06	Sample Temperature	32 °C

TEST RESULTS - CHEMICAL PARAMETERS				
Sl.No.	PARAMETERS	TEST METHOD	UNIT	RESULT
1	Temperature	IS 3025 Part 9:1984 RA 2006	°C	30.0
2	Colour	IS 3025 Part 4:1983 RA 2017	Hazen	1.00
3	pH	IS 3025 Part 11:1983 RA 2017	---	7.82
4	Electrical Conductivity	IS 3025 Part 14:1984 RA 2019	µS/cm	39746
5	Total Dissolved Solids	IS 3025 Part 16:1984 RA 2017	mg/L	25825
6	Turbidity	IS 3025 Part 10:1984 RA 2017	NTU	8.00
7	Chloride (as Cl)	IS 3025 Part 32:1988 RA 2019	mg/L	17496
8	Salinity	SEAAL/SOP/06	ppt	30.79
9	Sulphate (as SO ₄)	IS 3025 Part 24:1986 RA 2019	mg/L	2149

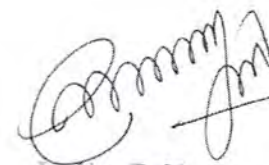

Shency Joy
PM Chemical

Checked by:




Salini T. S.
Microbiologist

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: TC540221000003484F	Date: 15-06-2021	Page 2 of 2
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TEST RESULTS - CHEMICAL PARAMETERS

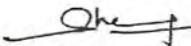
Sl.No.	PARAMETERS	TEST METHOD	UNIT	RESULT
10	Iron (as Fe)	IS 3025 Part 53:2003 RA 2019	mg/L	0.41
11	Mercury (as Hg)	APHA (23rd Edition) 3112-B: 2017	mg/L	<0.002
12	Lead (as Pb)	APHA (23rd Edition) 3111-B: 2017	mg/L	1.00
13	Copper (as Cu)	IS 3025 Part 42:1992 RA 2019	mg/L	0.07
14	Zinc (as Zn)	APHA 3111B 23rd Edn, 2017	mg/L	0.20
15	Nickel (as Ni)	IS 3025 Part 54: 2003 RA 2019	mg/L	0.50
16	Cadmium (as Cd)	IS 3025 Part 41: 1992 RA 2019	mg/L	0.10
17	Cyanide (as CN)	IS 3025 Part 27:1986 RA 2019	mg/L	<0.01
18	Fluoride(as F)	APHA 23 rd Edition 4500-F- B D: 2017	mg/L	1.20
19	Arsenic (as As)	IS 3025 Part 37: 1988 RA 2019	mg/L	<0.002
20	Hexavalent Chromium (as Cr ³⁺)	IS 3025 Part 52:2003 RA 2019	mg/L	<0.20
21	Pesticide	USEPA 508 : 1995	---	Absent
22	Oil & Grease	IS 3025 Part 39:1991 RA 2019	mg/L	<1.00
23	Dissolved Oxygen	IS 3025 Part 38:1989 RA 2019	mg/L	5.21
24	Biochemical Oxygen Demand (3 days at 27 °C)	IS 3025 Part 44:1993 RA 2019	mg/L	3.98
25	Chemical Oxygen Demand	IS 3025 Part 58:2006 RA 2017	mg/L	2240
26	Total Suspended Solids	IS 3025 Part 17:1984 RA 2017	mg/L	8.60

TEST RESULTS - BIOLOGICAL PARAMETERS

Sl.No.	PARAMETERS	TEST METHOD	UNIT	RESULT
1	Total Bacterial Count	IS 1622:1981 RA 2014	cfu/mL	88
2	Faecal Coliform	IS 1622:1981 RA 2014	MPN/100ml	< 2
3	E coli	IS 1622:1981 RA 2014	MPN/100ml	< 2


Remarks:


End of Report


Shency Joy
Dy. TM Chemical

Checked by:




Salini T. S.
Microbiologist
Authorized Signatory


Laiju 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

Test Report No: WT21060011	Date: 15-06-2021	Page 1 of 2
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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 dt 07-06-2021

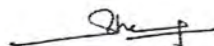
SAMPLE DETAILS			
Product Category	Water	Sample Code	WT21060011
Sample Name	Marine water	Sample Received on	09-06-2021
Sample Conditions at Receipt	Fit for Analysis	Temperature @ Receipt	4 °C
Sample Quantity & Packing	2 litre & 100ml Plastic Bottle	Test Commenced on	09-06-2021
Sampled by	Lab Authorized Sampler	Test Completed on	15-06-2021
Information Provided by Customer	---		

DETAILS OF SAMPLING			
Sample Source	Jetty Area (Sea)	Date of Sampling	07-06-2021
Sampling Procedure	SEAAL/ENL/GEN/SOP/01	Sample Temperature	32 °C


TEST RESULTS - CHEMICAL PARAMETERS				
Sl.No.	PARAMETERS	TEST METHOD	UNIT	RESULT
1	Insecticide	USEPA 508 : 1995	---	Absent

Remarks:

End of Report


Shency Joy
 Dy. TM Chemical
 Checked by:




Laiju P. N.
 Laboratory Head
 Authorized Signatory

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Standard^S Environmental & Analytical Laboratories

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

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

TEST REPORT

ULR No: TC540221000003483F	Date: 15-06-2021	Page 1 of 2
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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 dt 08-06-2021


SAMPLE DETAILS			
Product Category	Water	Sample Code	WT21060010
Sample Name	Ground Water	Sample Received on	09-06-2021
Sample Conditions at Receipt	Fit for Analysis	Temperature @ Receipt	4 °C
Sample Quantity & Packing	2 litre & 100ml Plastic Bottle	Test Commenced on	09-06-2021
Sampled by	Lab Authorized Sampler	Test Completed on	15-06-2021
Information Provided by Customer	---		

DETAILS OF SAMPLING			
Sample Source	Piezometer Pump	Date of Sampling	07-06-2021
Sampling Procedure	SEAAL/ENL/GEN/SOP/01& SEAAL/MBL/SOP/06	Sample Temperature	32 °C

TEST RESULTS - CHEMICAL PARAMETERS				
Sl.No.	PARAMETERS	TEST METHOD	UNIT	RESULT
1	pH	IS 3025 Part 11:1983 RA 2017	---	72.6
2	Total Dissolved Solids	IS 3025 Part 16:1984 RA 2017	mg/L	510
3	Turbidity	IS 3025 Part 10: 1984 RA 2017	NTU	146
4	Chloride (as Cl)	IS 3025 Part 32:1988 RA 2014	mg/L	29.9
5	Iron (as Fe)	IS 3025 Part 53:2003 RA 2014	mg/L	8.20
6	Fluoride(as F)	APHA 23 rd Edition 4500-F- B D: 2017	mg/L	0.12
7	Sulphate (as SO ₄)	IS 3025 Part 24:1986 RA 2014	mg/L	34.0
8	Electrical Conductivity	IS 3025 Part 14:1984 RA 2013	µS/cm	786
9	Mercury (as Hg)	APHA (23 rd Edition)3112-B: 2017	mg/L	< 0.002


Rija Joseph
Technical Manager




Laiju P. N.
Laboratory Head
Authorized Signatory

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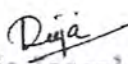
TEST REPORT


ULR No: TC540221000003483F	Date: 15-06-2021	Page 2 of 2
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TEST RESULTS - CHEMICAL PARAMETERS				
Sl.No.	PARAMETERS	TEST METHOD	UNIT	RESULT
10	Lead (as Pb)	APHA (23rd Edition)3111-B: 2017	mg/L	0.30
11	Copper (as Cu)	IS 3025 Part 42:1992 RA 2014	mg/L	0.30
12	Total Chromium (as Cr)	IS 3025(Part 52):2003	mg/L	<0.40
13	Zinc (as Zn)	APHA 3111B 23rd Edn, 2017	mg/L	1.20
14	Temperature	IS 3025 Part 9:1984 RA 2006	°C	30.0
15	Salinity	SEAAL/SOP/06	---	0.04
16	Oil & Grease	IS 3025 Part 39:1991 RA 2014	mg/L	48.0
17	Dissolved Oxygen	IS 3025 Part 38:1989 RA 2014	mg/L	4.10
18	Biochemical Oxygen Demand (3 days at 27 °C)	IS 3025 Part 44:1993 RA 2014	mg/L	62.5
19	Chemical Oxygen Demand	IS 3025 Part 58:2006 RA 2012	mg/L	2625
20	Cyanide (as CN)	IS 3025 (Part-27):1986 (Reaff.2003)	mg/L	< 0.01
21	Cadmium (as Cd)	APHA (23rd Edition) 3111-B: 2017	mg/L	< 0.03
22	Pesticide	SEAAL/INS/RWM/SOP/01	---	Absent

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

End of Report


Rija Joseph
Technical Manager


Laiju P. N.
Laboratory Head

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

Test Report No: WT21060010	Date: 15-06-2021	Page 1 of 2
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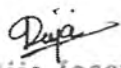
CUSTOMER DETAILS	
Customer Name & Address	M/s Petronet LNG Limited Survey No.347, Puthuvypu P.O Kochi , Ernakulam District
Customer Reference	Test Request dt 07-06-2021

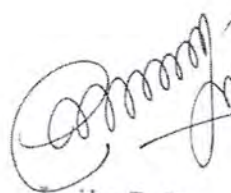
SAMPLE DETAILS			
Product Category	Water	Sample Code	WT21060010
Sample Name	Ground Water	Sample Received on	09-06-2021
Sample Conditions at Receipt	Fit for Analysis	Temperature @ Receipt	4 °C
Sample Quantity & Packing	2 litre & 100ml Plastic Bottle	Test Commenced on	09-06-2021
Sampled by	Lab Authorized Sampler	Test Completed on	15-06-2021
Information Provided by Customer	---		

DETAILS OF SAMPLING			
Sample Source	Piezometer Pump	Date of Sampling	07-06-2021
Sampling Procedure	SEAAL/ENL/GEN/SOP/01	Sample Temperature	32 °C

TEST RESULTS - CHEMICAL PARAMETERS				
Sl.No.	PARAMETERS	TEST METHOD	UNIT	RESULT
1	Insecticide	USEPA 508 : 1995	---	Absent

End of Report


Daji
Technical Manager
Checked by:


Laiju 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

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

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



GOVERNMENT OF KERALA
DEPARTMENT OF FACTORIES AND BOILERS

Form-4 (Prescribed under Rule 5)

License is hereby granted to Shri/Smt. PRAMOD NARANG(Director) 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 2022.

1.	Registration No	D09/CHN/03/286/2013	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	Puthuvype (CT)			
	Survey No	347			
	Taluk	Kochi			
	District	Ernakulam			
					1. RECEIVING STORAGE RELOADING BUNKERING REGASIFICATION AND SUPPLY OF LNG & RLNG (52109)

Place : Ernakulam

Annexure-5

(Issued under Rule 5, renewed under Rule 7)

License Details									
Calendar Year	No. of Workers	Power	Fees	Additional Fee	Excess Fee	Remittance Date	Renewed Date	Sign of Official	
2022-2022	380	69920.83 KW +18249.99 KVA	228220.00			13-10-2021	13-10-2021		
Amendment Details									
Factory Name	No. of Workers	Power(KW)	Fees	Additional Fee	Remittance Date	Amendment Year	Amendment Date	Sign of Official	
PETRONET LNG LTD	290	67834.97 (18249.99 KVA)	0	0.0		2018	25-07-2018		
PETRONET LNG LTD	380	67834.97 (18249.99 KVA)	790	13280.0	23-10-2018	2018	19-12-2018		
PETRONET LNG LTD	380	69920.83 (18249.99 KVA)	830	0.0	17-10-2019	2019	16-11-2019		
Transfer Details									
Transferred From	Transferred To	Transfer Fee	Remittance Date	Year of Transfer	Transfer Date	Sign of Official			
RAJENDER SINGH, DIRECTOR (TECHNICAL) (null)	Vinod Kumar Mishra (Director Finance)	830.00	26-08-2019	2019	25-09-2019				
Vinod Kumar Mishra (Director Finance) (null)	Pramod Narang (Director)	830.00	08-07-2021	2021	22-07-2021				

(License Renewal application for 2023 should be submitted on or before 31-10-2022)

** This is an electronically generated auto renewed license.*

** This license can be verified at <https://idms.fabkerala.gov.in/fabnet/verifyLicense.do>. or scan the QR code*

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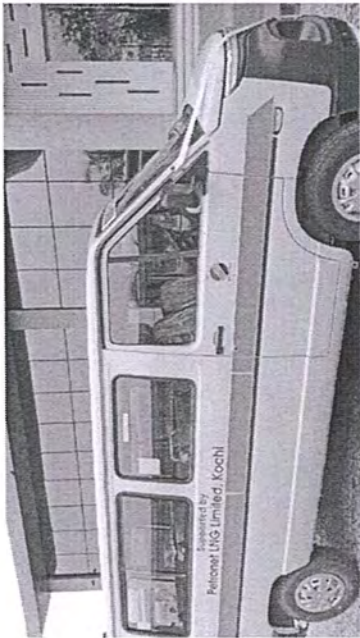
Ambient Air Monitoring Report, (April 2021 to September 2021)									
LOCATION NO.	Location of Ambient Air Sampling	Month	PM (<10 microns) in Micrograms/m ³ ; Limit 100 Micrograms/m ³	PM (<2.5 microns) in Micrograms/m ³ ; Limit 60 Micrograms/m ³	SO _x as SO ₂ in Micrograms/m ³ ; Limit 80 Micrograms/m ³	NO _x 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-2) near MGH building	Apr-21	83.6	29.5	0	0	0	0	0
		May-21	72.8	26.5	0	0	0	0	0
		Jun-21	76.1	28.3	0	0	0	0	0
		Jul-21	70.3	26.5	0	0	0	0	0
		Aug-21	74.9	28.6	0	0	0	0	0
		Sep-21	64.5	23.9	0	0	0	0	0
Average	73.70	27.22	0.00	0.00	0.00	0.00	0.00	0.00	
2	Near Fire Station Building	Apr-21	72.3	25.9	0	4.98	0	0	0
		May-21	78.3	28.9	0	4.56	0	0	0
		Jun-21	68.3	25.6	0	5.18	0	0	0
		Jul-21	64.9	23.8	0	4.83	0	0	0
		Aug-21	70.4	24.5	0	5.16	0	0	0
		Sep-21	67.9	22.8	0	3.97	0	0	0
Average	70.35	25.25	0.00	4.78	0.00	0.00	0.00		
3	Fire water Reservoir+ Watch Tower-5	Apr-21	71.5	24.6	0	5.69	0	0	0
		May-21	68.7	23.1	0	4.93	0	0	0
		Jun-21	62.3	22.9	0	4.28	0	0	0
		Jul-21	59.6	21.7	0	4.07	0	0	0
		Aug-21	65.7	24.8	0	4.39	0	0	0
		Sep-21	60.8	21.9	0	3.96	0	0	0
Average	64.77	23.17	0.00	4.55	0.00	0.00	0.00		
4	Watch Tower-3 near Tank T-101	Apr-21	75.9	26.1	0	0	0	0	0
		May-21	70.9	24.8	0	0	0	0	0
		Jun-21	79.2	26.5	0	0	0	0	0
		Jul-21	73.5	24.2	0	0	0	0	0
		Aug-21	78.9	26.1	0	0	0	0	0
		Sep-21	70.6	24.5	0	0	0	0	0
Average	74.83	25.37	0.00	0.00	0.00	0.00	0.00		



CSR Updates

Major Highlights
Apr-Sept' 21
FY 2021-22

EDUCATION



Safe Transportation for PWDs of Mahatma BUDs School, Elankunnappuzha

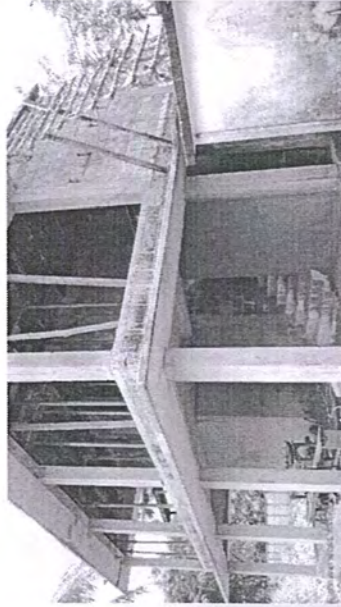


Naipunyam' skill development program in association with CIPET Kochi for 120 underprivileged students for 2019-20

HEALTHCARE & SANITATION



COVID Vaccination drive in Puthuvype and Nearby Areas



Toilet complex for SDPY school Edavanakad, Vypin

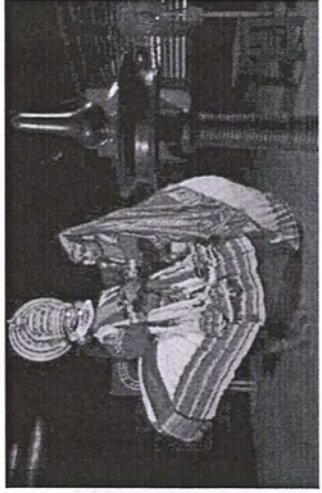


ICU facilities for 14 beds (Multipara Monitor, Bi Level ventilator, Humidifier) at General Hospital, Ernakulam in association with National Health Mission.



Free Mobile Medical Unit in panchayats in Vypin area in association with M/s Wockhardt foundation

PROMOTION OF ARTS AND SPORTS



Promotion of Kathakali through Thripunithura Kathakali Kendram

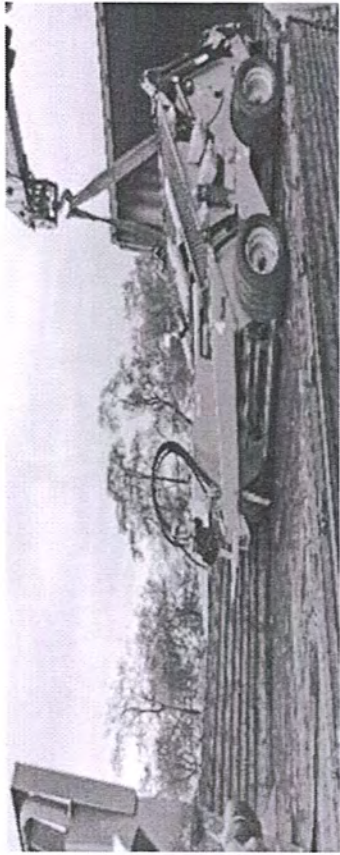


PUBLIC SAFETY



CCTV cameras at Goshree Junction & Vypin Jungar Jetty ensuring women safety & welfare of the people of Vypin area

ENVIRONMENT



Support towards the introduction of Beach Cleaning Surf Rake in Kerala Beaches

T H A N K S



PETRONET
LING
LIMITED

If you can't feed a hundred people, then feed just one – Mother Theresa

CSR Expenditure - Petronet LNG Limited, Kochi Terminal (FY 2021-22)

Sl.No	Project details	Category	Project Location	Approved / Committed (INR Lakh)	Payment done (INR lakh)	Project Status
1	Installation of centralized oxygen supply system in 7 GH Ernakulam District	Health care	Ernakulam	45,11,494.00		Project completed. Waiting bills for payment
2	Providing medical equipment for 14 ICU beds in Ernakulam General Hospital	Health care	General Hospital, Ernakulam	52,50,000.00		Project completed. Waiting bills for payment
3	Construction of New pay ward block for Govt. Ayur hospital, Nayarambalam	Health care	Nayarambalam	26,00,000.00		Project ongoing
3	Urgent Financial Support for Providing Free COVID Vaccine for BPL Card Holders in Puthuvype and Nearby Areas	Healthcare	Vypin , Ernakulam	5,24,790.00		Project completed. Waiting bills for payment
4	Elevator and Allied Works at 'Sukarma Vikas Kendra' - SEVABHARATHI a project of	Education	Angamaly, Ernakulam	22,68,180.00		Project ongoing
5	Support for NMMS Scholarship Guidance Program for Beneficiaries in Ernakulam District, with focus on SC/ST and PWDs	Special Education	Ernakulam District	3,86,000.00	1,54,400.00	Project ongoing
	Total			1,55,40,464.00		

CSR EXPENSES - Till Sep 2021		
Sl. No	FY	Total CSR Expenditure (Lakhs)
1	2013-14	25457793
2	2014-15	16008694
3	2015-16	22301262
4	2016-17	16826007
5	2017-18	7824860
6	2018-19	19145429
7	2019-20	15344487
8	2020-21	21469603
9	2021-22	15540464
	TOTAL	159918599