

**Half Yearly Compliance Report
2024
01 Jun(01 Oct - 31 Mar)**

Acknowledgment

Proposal Name	Construction of LNG import terminal at Puthuvypeen Island, Kochi, Kerala		
Name of Entity / Corporate Office	Petronet LNG Limited		
Village(s)	N/A		
District	ERNAKULAM		
Proposal No.	IA/KL/MIS/10670/2002	Category	INFRA-2
Plot / Survey / Khasra No.	N/A	Sub-District	N/A
State	KERALA	Entity's PAN	NA
MoEF File No.	J-16011/26/2001-IA.III	Entity name as per PAN	NA

Compliance Reporting Details

Reporting Year 2024
Remarks (if any)
Reporting Period 01 Jun(01 Oct - 31 Mar)

Details of Production and Project Area

Name of Entity / Corporate Office Petronet LNG Limited

	Project Area as per EC Granted	Annual Project Area in Possession
Private	0	0
Revenue Land	0	0
Forest	0	0
Others	33.4	33.4
Total	33.4	33.4

Production Capacity

Sr. no	Product Name	units	Valid Upto	Capacity	Production last year	Capacity as per CTO
1	LNG	Tons per Annum (TPA)	31/03/2028	5 MMTPA	1.041	5 MMTPA

Conditions

Specific Conditions

Sr.No.	Condition Type	Condition Details
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1	MISCELLANEOUS	No change in scope of work shall be made without prior approval of this ministry.
PPs Submission: Complied Any change in scope would be carried out only with the prior approval of the MoEF&CC.		Date: 24/05/2024
2	Statutory compliance	All the conditions stipulated by the Science Technology and Environment Department, Government of Kerala vide their Letter No. 4215/B1/2000/STED, dated 9th February-2001 should be effectively implemented.
PPs Submission: Complied • 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		Date: 24/05/2024
3	MISCELLANEOUS	The budget allocated for environment safeguard measures shall not be diverted for any other purpose.
PPs Submission: Complied PLL is ensuring that the budget allocated for environment safeguard will not be diverted for any other purposes.		Date: 24/05/2024
4	Risk Mitigation and Disaster Management	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
PPs Submission: Complied Site emergency response plan was prepared and submitted to MoEF&CC along with the six-monthly compliance report dated on 22nd September-2011 and March 2013. Revised Emergency response plan is attached. Safety norms for the ship movements are received from CoPT (Cochin Port Trust) and are being followed at site.		Date: 24/05/2024
5	Marine/Coastal	Project proponent shall take all safety measures and take into account the dynamics of the marine / Coastal area before constructing the break waters. The recommendations made by CWPRS shall be duly implemented. The dredged materials shall be disposed of as per the recommendations by CWPRS.
PPs Submission: Complied 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 (CoPT).		Date: 24/05/2024
6	Marine/Coastal	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.
PPs Submission: Complied PLL is not located in the mangrove area. PLL Kochi 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).		Date: 24/05/2024

7	Marine/Coastal	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.
PPs Submission: Complied 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.		Date: 24/05/2024
8	Marine/Coastal	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.
PPs Submission: Complied 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. Trenching activity was restricted to minimum area, which minimised the damage to benthic fauna.		Date: 24/05/2024
9	Marine/Coastal	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.
PPs Submission: Complied 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.		Date: 24/05/2024
10	Marine/Coastal	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.
PPs Submission: Complied 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.		Date: 24/05/2024
11	Marine/Coastal	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.
PPs Submission: Complied Bathymetric survey is being carried out by Cochin Port Trust (CoPT). The dredged material is being disposed off at the locations identified by Cochin Port trust.		Date: 24/05/2024
12	Marine/Coastal	Regular surveys shall be conducted to identify changes in the channel morphology so that navigational hazards are minimal.
PPs Submission: Complied The channel is belonging to Cochin Port Trust and its Morphology survey has been carrying out by Cochin Port Trust.		Date: 24/05/2024
13	Marine/Coastal	Marine environment shall be periodically monitored to assess changes, if any, in the ecology and suitable remedial measures, if any required, shall be taken.

<p>PPs Submission: Complied Marine water analysis is being carrying out once in 6 months through a KSPCB approved lab. As per the report, there are no adverse changes observed in the marine water quality. Latest report is attached</p>		<p>Date: 24/05/2024</p>
14	Statutory compliance	All the conditions stipulated by Kerala Pollution Control board in their NOC No:PCB/NOC/EK/117/98 dated 17.9.99 should be effectively implemented.
<p>PPs Submission: Complied Conditions stipulated by KSPCB in their NOC No. PCB/NOC/EK/117/98 dated 17.09.99 are complied. Report attached</p>		<p>Date: 24/05/2024</p>
15	MISCELLANEOUS	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.
<p>PPs Submission: Complied Terminal construction and laying of pipelines were carried out as per applicable standards & regulations. Pipeline process parameters are regularly being monitored, gas leakage and warning systems are installed. The details were submitted with HYCR for the period April to September 2013.</p>		<p>Date: 24/05/2024</p>
16	WATER QUALITY MONITORING AND PRESERVATION	No groundwater shall be tapped for the project.
<p>PPs Submission: Complied 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 water from municipal sources.</p>		<p>Date: 24/05/2024</p>
17	WATER QUALITY MONITORING AND PRESERVATION	Specific arrangement for rainwater harvesting should be made in the project design and the rainwater so harvested should be optimally utilized.
<p>PPs Submission: Complied Rainwater collection system is in place above LNG storage tanks and being collected in fire & service water reservoir. The collected rainwater is being utilised inside the terminal.</p>		<p>Date: 24/05/2024</p>
18	GREENBELT	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.
<p>PPs Submission: Complied Mangrove afforestation plan was submitted with six monthly compliance report 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 six-monthly compliance report till March 2020.</p>		<p>Date: 24/05/2024</p>
19	MISCELLANEOUS	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.

PPs Submission: Complied

Comprehensive EIA report for 2.5 MMTPA Terminal capacity was completed and submitted at MoEF&CC on 16th 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.

Date:
24/05/2024

General Conditions

Sr.No.	Condition Type	Condition Details
1	MISCELLANEOUS	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
PPs Submission: Complied 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 the CRZ area.		Date: 24/05/2024
2	MISCELLANEOUS	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.
PPs Submission: Complied A laboratory with equipment's for water quality analysis and qualified employees is in place. Water & Air quality monitoring is being carrying out with the help of a PCB approved third party lab. Monitoring reports are being submitted to State pollution control board on every month and to MoEF&CC on six monthly basis. Ambient air quality monitoring data for last six months is attached. 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.		Date: 24/05/2024
3	WATER QUALITY MONITORING AND PRESERVATION	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.
PPs Submission: Complied STP and septic tanks are provided for treating sewages. No sewage or waste from PLL are allowed to enter in water bodies. Treated water from STP is used for gardening purpose.		Date: 24/05/2024
4	WASTE MANAGEMENT	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
PPs Submission: Complied PLL is not handling the wastes generated from vessels at site. Wastes generated by vessels and tugs are not handled & disposed at PLL premises.		Date: 24/05/2024

5	Marine/Coastal	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
PPs Submission: Complied All the navigation related requirements are maintained by Cochin Port Trust.		Date: 24/05/2024
6	MISCELLANEOUS	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.
PPs Submission: Complied CSR projects are being undertaken by PLL for community development and welfare in nearby villages. CSR report & expenditures during the period, October 2023 to March 2024 is attached. Separate amount is allocated in budget for these activities.		Date: 24/05/2024
7	MISCELLANEOUS	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.
PPs Submission: Complied 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.		Date: 24/05/2024
8	Marine/Coastal	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.
PPs Submission: Complied 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.		Date: 24/05/2024
9	MISCELLANEOUS	For employing unskilled, semi-skilled and skilled workers for the project, preference shall be given to local people.
PPs Submission: Complied 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.		Date: 24/05/2024
10	MISCELLANEOUS	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.
PPs Submission: Complied All the recommendations from Environment Management Plan (EMP), EIA, Disaster management plan and risk analysis reports are being implemented.		Date: 24/05/2024
11	MISCELLANEOUS	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.

<p>PPs Submission: Complied PLL has set up an Environment Management Cell (EMC) under Chief General Manager & Vice President (Plant Head) with nominated members from plant departments.</p>		<p>Date: 24/05/2024</p>
12	MISCELLANEOUS	The project affected people, if any should be properly compensated and rehabilitated.
<p>PPs Submission: Complied No people affected directly as the project was on uninhabited land.</p>		<p>Date: 24/05/2024</p>
13	MISCELLANEOUS	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.
<p>PPs Submission: Complied The fund earmarked for environment management is included in the budget and will not be diverted for other purposes. Expenditures for the FY 2023-24 is attached</p>		<p>Date: 24/05/2024</p>
14	MISCELLANEOUS	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.
<p>PPs Submission: Complied 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.</p>		<p>Date: 24/05/2024</p>
15	MISCELLANEOUS	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.
<p>PPs Submission: Complied 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.</p>		<p>Date: 24/05/2024</p>
16	MISCELLANEOUS	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.
<p>PPs Submission: Complied Noted. PLL will abide by all the Environment clearance conditions.</p>		<p>Date: 24/05/2024</p>
17	Statutory compliance	This Ministry or any other competent authority may stipulate any additional conditions subsequently, if deemed necessary for environmental protection, which shall be complied with.
<p>PPs Submission: Complied PLL will comply with additional conditions, if any suggested by the ministry or any other competent authority in writing.</p>		<p>Date: 24/05/2024</p>

18	MISCELLANEOUS	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.envforin.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.
PPs Submission: Complied 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.		Date: 24/05/2024
19	MISCELLANEOUS	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.
PPs Submission: Complied 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 September 2008.		Date: 24/05/2024
20	Statutory compliance	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.
PPs Submission: Complied 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 taken before construction and copy of the same submitted to MoEF&CC with the HYCR for the period October 2012 to March 2013.		Date: 24/05/2024
21	WATER QUALITY MONITORING AND PRESERVATION	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.
PPs Submission: Complied This was ensured during construction stage. At present, ground water wells are installed at two locations inside the terminal for ground water quality monitoring. Latest ground water analysis report is attached		Date: 24/05/2024
22	Statutory compliance	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
PPs Submission: Complied Plant operation is being carried out in accordance with all applicable regulations. All the approvals and licenses obtained from statutory bodies was submitted to MOEF&CC with six monthly		Date: 24/05/2024

compliance report for the period October 2012 to March 2013. An emergency response and disaster management plan (ERDMP) has been prepared and being updated for handling plant emergencies.		
23	Marine/Coastal	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.
PPs Submission: Complied Discharge of wastes and wastewater from ship to shore for treatment is not being happening at PLL Jetty area. 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.		Date: 24/05/2024
24	Risk Mitigation and Disaster Management	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.
PPs Submission: Complied 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. Unloading arm with swivel joints are used for handling LNG cargo. PLL do not handle LPG at our jetty.		Date: 24/05/2024
25	Risk Mitigation and Disaster Management	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.
PPs Submission: Complied Fixed DCP fire extinguishing system & DCP extinguishers are provided at jetty. Water spray and curtain system is provided at jetty and other locations in the plant. Details submitted to MoEF&CC with HYCR for the period April to September 2013.		Date: 24/05/2024
Visit Remarks		
Last Site Visit Report Date:		N/A
Additional Remarks:		