कोंकण एलएनजी लिमिटेड
Konkan LNG Limited
(गेल (इंडिया) लिमिटेड की अनुषंगी कंपनी)
(A Subsidiary of GAIL (India) Limited)

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Ref: KLL/LNG/EC/TS/24-25/Ltr. -01 Dated: 26.06.2025

To,
In charge,
Ministry of Environment, Forest and Climate Change,
Regional Office (WCZ), Ground Floor,
East Wing, New Secretariat Building,
Civil Lines, Nagpur, Maharashtra-440001

Sub: Submission of six-monthly compliance of conditions stipulated in Environmental Clearances granted to Konkan LNG Limited - Reg.

Ref:
1. Establishment of Port Facilities by Dabhol Power Company (No. J-16011/19/93-IA-III dated 12th April,1994.
2. Change of name in the Environmental clearance issued to M/s Dabhol Power Company for construction of breakwater and related Fore-Shore activities – Reg. (No. 11-20/2010-IA-III dated 28th May, 2010)
3. Construction of balance work of Breakwater for LNG Terminal' at Dabhol, District Ratnagiri, Maharashtra by M/s Konkan LNG Private Limited (KLPL) - Environmental & CRZ Clearance – reg. (F.No. 10-28/2019-IA-III dated 7th April, 2020)

Dear Sir/Madam,

In view of the conditions laid by MoEF&CC for submission of six-monthly compliance status of conditions stipulated in Environmental Clearances granted in favor of Konkan LNG Limited, we hereby submit required information for the period October-2024 to March-2025.

Regards,

Santosh Gedam
DGM (Technical Service)

Enclosures:
Annexure-I: Port Facilities - EC Compliance Status
Annexure-II: Break water - EC Compliance Status
Annexure-III: Reports of air, water, noise monitoring etc.
Annexure-IV: Mitigation measures on various impacts - Compliance Status

ANNEXURE-I		
KLL	KONKAN LNG LIMITED A subsidiary of GAIL (India) Limited	From Oct-2024 to Mar-2025
Establishment of Port facilities by Konkan LNG Limited. Letter No. J-16011/19/93-IA-III dated 12th April, 1994		
S. No.	Conditions	Compliance
i	Dredging operation should be undertaken in consultation with an Expert Institute such as Central Water and Power Research Station (CWPRS) Pune, or any other Institute, to ensure that dredging operations do not cause any adverse impact on surface and ground water and marine productivity in the vicinity.	CWPRS gives details of dredged silt dumping yard and annual report is submitted accordingly by KLL. Complied.
ii	During dredging, construction and maintenance stages, the water quality parameters at the bottom level should be inspected and periodic records be maintained. Tests should be carried out to measure water quality parameters viz. turbidity, dissolved oxygen, ammonical nitrogen and other nutrients which must be maintained within the prescribed standards.	Water quality parameters at the bottom level are being inspected. Reports attached at Annexure - III.
iii	Screening of pollutants in the harbour waters should be taken up by the project authorities and periodical monitoring reports on water quality parameters must be forwarded to this Ministry at six monthly intervals.	Screening of pollutants in harbour water is being done and reports are being forwarded to the Ministry. Reports attached at Annexure - III
iv	A comprehensive Disaster Management Plan considering worst-case disaster scenarios with respect to specific cases like oil/chemical spills, fire/explosion, terrorist attack, flood etc. spelling out definite/adequate measures to be taken to prevent and contain such disasters. A report on this must be forwarded to this Ministry within six months from the date of issue of the environmental clearance.	Emergency Response & Disaster Management Plan is available.
v	To prevent discharge of sewage, bilge wastes and other liquid wastes into the marine environment, adequate system for collection, treatment and disposal of liquid wastes including shoreline interceptor for receiving liquid wastes from all shoreline installations and special hose connection of ships to allow for discharge of sewage must be provided.	Vessels are strictly not allowed for discharge of any sewage or any other material at our port.

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vii	Proper fire fighting arrangements must be ensured by providing adequate number of fire hydrants in fire prone areas. The entire fire fighting line must be maintained under pressure through jockey pumps and appropriate volume of dead storage water must be ensured for this purpose. The employees must be kept alert and trained to combat fire by conducting regular fire drills to keep these facilities in working conditions.	Proper fire-fighting arrangements including fire hydrants, jockey pumps, water storage tanks etc. have been ensured. Training and mock drills are being carried out.
viii	The project authorities must take steps to prevent spillage and leakage of diesel/oil from storage tanks. Adequate fire fighting arrangements must be provided for the storage tank area to contain any fire hazards due to accidental spillage.	
ix	The quality of treated effluents, solid wastes, emissions and noise levels etc., must conform to the standards laid down by the competent authorities including Central/State Pollution Control Board and under the Environment (Protection) Act, 1986, whichever are more stringent.	The quality of treated effluents, solid wastes, emissions and noise levels etc. are being monitored and are conforming to the standards. Reports attached at Annexure - III.

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ANNEXURE-II		
KLL	KONKAN LNG LIMITED A subsidiary of GAIL (India) Limited	From Oct-2024 to Mar-2025
Construction of balance work of Breakwater for LNG Terminal' at Dabhol, District Ratnagiri, Maharashtra by M/s Konkan LNG Limited (KLL) - Environmental & CRZ Clearance - reg. F.No. 10-28/2019-IA-III dated 7th April, 2020		
Sr. No.	**A. Specific Conditions**	**Status**
i	Construction activity shall be carried out strictly according to the provisions of the CRZ Notification, 2011. No construction work other than those permitted in Coastal Regulation Zone Notification shall be carried out in Coastal Regulation Zone area.	Construction activity is being carried out according to the provisions of the CRZ Notification, 2011. No other construction work is being carried out.
ii	All the recommendations and conditions specified by the Maharashtra Coastal Zone Management Authority (MCZMA) who has recommended the project vide letter No. CRZ 2019/CR 180/TC 4 dated 26.12.2019 shall be complied with.	All the recommendations and conditions specified by MCZMA are being complied with.
iii	Consent to Establish/Operate for the project shall be obtained from the State Pollution Control Board as required under the Air (Prevention and Control of Pollution) Act, 1981 and the Water (Prevention and Control of Pollution) Act, 1974.	CTE has been obtained from MPCB. (Annexure-III)
iv	The facility shall be constructed in accordance with the NFPA 59 A - Standard for the Production, storage and handling of liquefied Natural gas, OISD - 194 - Standard for Storage and handling of LNG, EN 1473 - Installation and equipment for LNG - Design of onshore installations and M.B. Lal Committee report.	The mentioned standards are not applicable for breakwater project. However, relevant standards are being complied with for the LNG plant.
v	Precautionary measures shall be put in place to prevent leakage of LNG due to any disasters including tidal/tsunami wave, seismic and other natural calamities, Disaster Management Plan shall put in place to manage emergencies	Emergency Response & Disaster Management Plan is available. (Annexure-III)
vi	Oil Spill Contingency Management Plan along with standard operating procedure (SOP) shall be prepared and demonstrated.	Oil Spill Contingency Management Plan has been prepared and is under approval from Indian Coast Guard.
vii	Online sensor for load monitoring shall be installed, as committed.	Online sensors for LNG vessel mooring ropes load / tension monitoring is already installed.
viii	Temperature sensors, gas detectors, spill detectors shall be installed and monitored to take care of any type of spillage or leakage of the gas from the plant and the trucks for loading and unloading.	Temperature sensors, gas detectors, spill detectors have been installed and are being monitored.

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ix	SOP for maintenance and operation of the facility should be prepared and implemented in letter and spirit.	SOP for maintenance and operation of the facility has been prepared and is being implemented in letter and spirit.
x	The project proponent shall comply with the air pollution mitigation measures as submitted.	Mitigation measures like covering the rock during transportation, dust suppression arrangement and sprinklers for crushing plant are installed. For the LNG plant, ambient air quality is being monitored. Fuel for LNG plant flare system and pilot burner is methane, which is considered as clean fuel.
xi	The Project proponent shall ensure that no creeks or rivers are blocked due to any activities at the project site and free flow of water is maintained.	Not applicable as the construction site does not interfere with creeks or rivers.
xii	Dredging shall not be carried out during the fish breeding season.	Dredging is not being carried out during the fish breeding season.
xiii	Dredging, etc shall be carried out in the confined manner to reduce the impacts on marine environment including turbidity and turbidity should be monitored during the dredging.	Dredging is not impacting on marine environment. Turbidity is being monitored during dredging. Reports attached in Annexure- III.
xiv	No underwater blasting is permitted.	Underwater blasting is not required for the project.
xv	Dredged material shall be disposed safely in the designated areas and also to be utilized for beach nourishment. With the enhanced quantities, the impact of dumping on the coastal environment should be studied and necessary measures shall be taken on priority basis if any adverse impact is observed.	Dredged material is being disposed safely in the designated areas. The impact of dumping on the coastal environment has been studied and there are no adverse impacts. Quality of water is being monitored as part of marine biodiversity impact assessment / management plan. Reports attached in Annexure- III.
xvi	Shoreline should not be disturbed due to dumping. Periodical study on shore line changes shall be conducted and mitigation carried out, if necessary. The details shall be submitted along with the six monthly monitoring report.	Shoreline is not being disturbed due to dumping as the designated dumping point is approximately 10 km away from shoreline.
xvii	While carrying out dredging, an independent monitoring shall be carried out by Government Agency/Institute to check the impact and necessary measures shall be taken on priority basis if any adverse impact is observed.	Monitoring of dredging is being carried out to check the impact. No adverse impact observed.
xviii	Existing facility is already in operation hence no additional water will be required during construction as well as operation phase for the proposed project for construction of balance work of breakwater.	There is no requirement of additional water.

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xix	Marine ecological studies and its mitigation measures for protection of phytoplankton, zooplanktons, macrobenthos, biotopes, corals and coral communities, molluscs, sea grasses, sea weeds, subtidal habitats, fishes, other marine and aquatic micro, macro and mega flora and fauna including benthos, plankton, turtles, birds etc prepared by Dapoli Urban Bank Senior Science College (DUBSSC), University of Mumbai as given in the EIA-EMP Report shall be complied with in letter and spirit.	Mitigation measures mentioned in EIA and EMP report are being complied with. Reports attached in Annexure- III.
xx	A copy of the Marine and riparian biodiversity management plan duly validated by the State Biodiversity Board shall be obtained and implement in letter and spirit.	Marine and riparian biodiversity management plan has been approved by Maharashtra State Biodiversity Board. (Annexure-III)
xxi	A continuous monitoring programme covering all the seasons on various aspects of the coastal environs need to be undertaken by a competent organization available in the State or by entrusting to the National Institutes/renowned Universities/accredited Consultant with rich experiences in marine science aspects. The monitoring should cover various physico-chemical parameters coupled with biological indices such as microbes, plankton, benthos and fishes on a periodic basis during construction and operation phase of the project. Any deviations in the parameters shall be given adequate care with suitable measures to conserve the marine environment and its resources.	Monitoring is being done on a periodic basis. There are no deviations. Reports attached in Annexure- III.
xxii	Continuous online monitoring of air and water covering the total area shall be carried out and the compliance report of the same shall be submitted along with the 6 monthly compliance reports to the regional office of MoEF&CC.	Air and water monitoring is being done. Reports attached at Annexure- III.
xxiii	Sediment concentration should be monitored fortnightly at source and disposal location of dredging while dredging.	Monitoring of sediment concentration at source and disposal location is being done. Reports attached in Annexure- III.

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xxiv	Marine ecology shall be monitored regularly also in terms of biotopes, corals and coral communities, molluscs, sea grasses, sea weeds, subtidal habitats, fishes, other marine and aquatic micro, macro and mega flora and fauna including benthos, plankton, turtles, birds, mangroves and other marine biodiversity components as part of the management plan. Marine ecology shall be monitored regularly also in terms of all micro, macro and mega floral and faunal components of marine biodiversity.	Marine ecology is being monitored regularly. Reports attached in Annexure- III.
xxv	Spillage of fuel / engine oil and lubricants from the construction site are a source of organic pollution which impacts marine life, particularly benthos. This shall be prevented by suitable precautions and also by providing necessary mechanisms to trap the spillage.	Oil Spill Contingency Management Plan has been prepared and is under approval from Indian Coast Guard.
xxvi	Necessary arrangements for the treatment of the effluents and solid wastes/ facilitation of reception facilities under MARPOL must be made and it must be ensured that they conform to the standards laid down by the competent authorities including the Central or State Pollution Control Board and under the Environment (Protection) Act, 1986. The provisions of Solid Waste Management Rules, 2016. E-Waste Management Rules, 2016, and Plastic Waste Management Rules, 2016 shall be complied with.	Vessels are strictly not allowed for discharge of any sewage or any other material at our port.
xxvii	All the recommendations mentioned in the rapid risk assessment report, disaster management plan and safety guidelines shall be implemented.	All the recommendations mentioned in the rapid risk assessment report, disaster management plan and safety guidelines are being implemented.
xxviii	Measures should be taken to contain, control and recover the accidental spills of fuel and cargo handle.	Oil Spill Contingency Management Plan has been prepared and is under approval from Indian Coast Guard.
xxix	Necessary arrangement for general safety and occupational health of people should be done in letter and spirit.	Arrangement for general safety and occupational health of people is being done in letter and spirit.
xxx	All the mitigation measures submitted in the EIA report shall be prepared in a matrix format and the compliance for each mitigation plan shall be submitted to the RO, MoEF&CC along with half yearly compliance report.	Compliance of mitigation measures mentioned in EIA reports is being done. Matrix attached as Annexure - IV.
xxxi	The company shall draw up and implement Corporate Social Responsibility Plan as per the Company's Act of 2013.	CSR Plan is available. (Annexure-III)

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xiv	The Regional Office of this Ministry shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer (s) of the Regional Office by furnishing the requisite data / information/monitoring reports.	Requisite data/information/monitoring reports will be furnished to the Regional Office.
xv	The above conditions shall be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 and the Public Liability Insurance Act, 1991 along with their amendments and Rules and any other orders passed by the Hon'ble Supreme Court of India / High Courts and any other Court of Law relating to the subject matter.	Noted.
xvi	Any appeal against this EC shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.	Noted.

xxxii	As per the Ministry's Office Memorandum F.No. 22-65/2017-IA.III dated 01.05.2018, project proponent has proposed an amount of Rs. 3.05 Crores (0.50% of the project cost) under Corporate Environment Responsibility (CER) Plan for the activities such as Education & Vocational Training, Health Care & Sanitation, Solid waste management, Water supply including drinking water, Environment, Social Empowerment, Sports, Infrastructure and culture in Anjanvel, Veldur, Dhopave and Ranavi villages. The activities proposed under CER shall be restricted to the affected area around the project. The entire activities proposed under the CER shall be treated as project and shall be monitored. The monitoring report shall be submitted to the regional office as a part of half yearly compliance report, and to the District Collector. It should be posted on the website of the project proponent.	CER Expenditure plan and amount spent so far is attached in Annexure-III.
	B. Standard Conditions:	
	I. Statutory compliance:	
i	The project proponent shall prepare a Site-Specific Conservation Plan & Wildlife Management Plan and **approved by the Chief Wildlife Warden**. The recommendations of the approved Site-Specific Conservation Plan / Wildlife Management Plan shall be implemented in consultation with the State Forest Department. The implementation report shall be furnished along with the six-monthly compliance report (in case of the presence of schedule-I species in the study area).	Site-Specific Conservation Plan and Wildlife Management Plan has been prepared and is under approval from Chief Wildlife Warden.
ii	Construction activity shall be carried out strictly according to the provisions of CRZ Notification, 2011 and the State Coastal Zone Management Plan as drawn up by the State Government. No construction work other than those permitted in Coastal Regulation Zone Notification shall be carried out in Coastal Regulation Zone area.	Construction activity is being carried out strictly according to the provisions of the CRZ Notification, 2011 and State Coastal Zone Management Plan. No other construction work is being carried out.
iii	The project proponent shall obtain the necessary permission from the Central Ground Water Authority, in case of drawl of ground water / from the competent authority concerned in case of drawl of surface water required for the project.	No ground water is drawn for construction work.
iv	All excavation related dewatering shall be as duly authorized by the CGWA. A NOC from the CGWA shall be obtained for all dewatering and ground water abstraction	Excavation is not required for the project. However, in the event of any excavation requirement, required permissions as mentioned will be obtained.

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v	A certificate of adequacy of available power from the agency supplying power to the project along with the load allowed for the project should be obtained.	KLL is supplying power for the project.
vi	All other statutory clearances such as the approvals for storage of diesel from Chief Controller of Explosives, Fire Department, Coast Guard, Civil Aviation Department shall be obtained, as applicable by project proponents from the respective competent authorities.	There is no storage of diesel.
	II. Air quality monitoring and preservation:	
i	The project proponent shall install system to carryout Ambient Air Quality monitoring for common/criterion parameters relevant to the main pollutants released (e.g. PM10 and PM25 in reference to PM emission, and SO2 and NOx in reference to SO2 and NOx emissions) within and outside the project area at least at four locations (one within and three outside the plant area at an angle of 120 each), covering upwind and downwind directions.	Ambient air quality monitoring is being done. Reports attached in Annexure-III.
ii	Appropriate Air Pollution Control (APC) system shall be provided for all the dust generating points including fugitive dust from all vulnerable sources, so as to comply prescribed emission standards.	Air pollution control system is available.
iii	Shrouding shall be carried out in the work site enclosing the dock/proposed facility area. This will act as dust curtain as well achieving zero dust discharge from the site. These curtain or shroud will be immensely effective in restricting disturbance from wind in affecting the dry dock operations, preventing waste dispersion, improving working conditions through provision of shade for the workers.	Shrouding is being done in the facility area.
iv	Dust collectors shall be deployed in all areas where blasting (surface cleaning) and painting operations are to be carried out, supplemented by stacks for effective dispersion.	Dust collectors are being deployed during blasting and painting operations.
v	The Vessels shall comply the emission norms prescribed from time to time.	Emission norms are being complied.

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vi	Diesel power generating sets proposed as source of backup power should be of enclosed type and conform to rules made under the Environment (Protection) Act,1986. The height of stack of DG sets should be equal to the height needed for the combined capacity of all proposed DG sets. Use of low sulphur diesel. The location of the DG sets may be decided with in consultation with State Pollution Control Board.	Diesel power generating sets are of enclosed type and conform to rules made under the Environment (Protection) Act,1986.
vii	A detailed traffic management and traffic decongestion plan shall be drawn up to ensure that the current level of service of the roads within a 05 kms radius of the project is maintained and improved upon after the implementation of the project. This plan should be based on cumulative impact of all development and increased habitation being carried out or proposed to be carried out by the project or other agencies in this 05 Kms radius of the site in different scenarios of space and time and the traffic management plan shall be duly validated and certified by the State Urban Development department and the P.W.D./ competent authority for road augmentation and shall also have their consent to the implementation of components of the plan which involve the participation of these departments.	Traffic management and traffic decongestion plan has been approved by PWD. Attached in Annexure-III.
	III. Water quality monitoring and preservation:	
i	The Project proponent shall ensure that no creeks or rivers are blocked due to any activities at the project site and free flow of water is maintained.	Not applicable as the construction site does not interfere with creeks or rivers.
ii	Appropriate measures must be taken while undertaking digging activities to avoid any likely degradation of water quality. Silt curtains shall be used to contain the spreading of suspended sediment during dredging within the dredging area.	Appropriate measures are being taken during digging activities.
iii	No ships docking at the proposed project site will discharge its on-board waste water untreated in to the estuary/ channel. All such wastewater load will be diverted to the proposed Effluent Treatment Plant of the project site.	Vessels are strictly not allowed for discharge of any sewage or any other material at our port.
iv	Measures should be taken to contain, control and recover the accidental spills of fuel and cargo handle.	Oil spill contingency plan is in place to contain, control and recover the accidental spills of fuel and cargo handle.

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v	The project proponents will draw up and implement a plan for the management of temperature differences between intake waters and discharge waters.	Not applicable.
vi	Spillage of fuel / engine oil and lubricants from the construction site are a source of organic pollution which impacts marine life. This shall be prevented by suitable precautions and also by providing necessary mechanisms to trap the spillage.	Oil spill contingency plan is in place to trap the spillage.
vii	Total fresh water use shall not exceed the proposed requirement as provided in the project details. Prior permission from competent authority shall be obtained for use of fresh water.	Total fresh water use is not exceeding the proposed requirement.
viii	Sewage Treatment Plant shall be provided to treat the wastewater generated from the project. Treated water shall be reused for horticulture, flushing, backwash, HVAC purposes and dust suppression.	Sewage treatment plant installed.
ix	A certificate from the competent authority for discharging treated effluent/ untreated effluents into the Public sewer/ disposal/drainage systems along with the final disposal point should be obtained.	Break Water Construction Project has no effluents.
x	No diversion of the natural course of the river shall be made without prior permission from the Ministry of Water resources.	Not applicable.
xi	All the erosion control measures shall be taken at water front facilities. Earth protection work shall be carried out to avoid erosion of soil from the shoreline/boundary line from the land area into the marine water body.	There is no erosion of soil from shoreline/boundary line from the land area into the marine water body.
	IV. Noise monitoring and prevention:	
i	Noise level survey shall be carried as per the prescribed guidelines and report in this regard shall be submitted to Regional Officer of the Ministry as a part of six-monthly compliance report.	Noise level survey is being carried out and report is being submitted to Regional Officer of the Ministry. Reports attached in Annexure-III.
ii	Noise from vehicles, power machinery and equipment on-site should not exceed the prescribed limit. Equipment should be regularly serviced. Attention should also be given to muffler maintenance and enclosure of noisy equipment.	Noise from vehicles, power machinery and equipment on-site is not exceeding the prescribed limit. Equipment is being regularly serviced. Muffler maintenance and enclosure of noisy equipment is being done.
iii	Acoustic enclosures for DG sets, noise barriers for ground-run bays, ear plugs for operating personnel shall be implemented as mitigation measures for noise impact due to ground sources.	Acoustic enclosures for DG sets, noise barriers for ground-run bays, ear plugs for operating personnel are being implemented.

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iv	The ambient noise levels should conform to the standards prescribed under E(P)A Rules, 1986 viz. 75 dB(A) during day time and 70 dB(A) during night time.	Ambient noise levels are conforming to the standards. Reports attached in Annexure-III.
	V. Energy Conservation measures:	
i	Provide solar power generation on roof tops of buildings, for solar light system for all common areas, street lights, parking around project area and maintain the same regularly;	Solar power panel has been installed on the roof top of one building. Installation of solar power panels on parking shed and pump house building is Under progress.
ii	Provide LED lights in their offices and residential areas.	LED lights have been procured and replacement of conventional lights with LED lights is under progress.
	VI. Waste management:	
i	Dredged material shall be disposed safely in the designated areas.	Dredged material is being disposed safely in the designated areas.
ii	Shoreline should not be disturbed due to dumping. Periodical study on shore line changes shall be conducted and mitigation carried out, if necessary. The details shall be submitted along with the six monthly monitoring report.	Shoreline is not being disturbed due to dumping as the designated dumping point is approximately 10 km away from shoreline.
iii	Necessary arrangements for the treatment of the effluents and solid wastes must be made and it must be ensured that they conform to the standards laid down by the competent authorities including the Central or State Pollution Control Board and under the Environment (Protection) Act, 1986.	There are no effluents and solid wastes for the breakwater project.
iv	The solid wastes shall be managed and disposed as per the norms of the Solid Waste Management Rules, 2016.	Break water project is not generating any solid waste.
v	Any wastes from construction and demolition activities related thereto shall be managed so as to strictly conform to the Construction and Demolition Waste Management Rules, 2016.	Wastes are being managed as per relevant standards.
vi	A certificate from the competent authority handling municipal solid wastes should be obtained, indicating the existing civic capacities of handling and their adequacy to cater to the M.S.W. generated from project.	Break water project is not generating any solid waste.
vii	Used CFLs and TFLs should be properly collected and disposed off/sent for recycling as per the prevailing guidelines/ rules of the regulatory authority to avoid mercury contamination.	CFLs and TFLs which were earlier installed are being replaced with LEDs as an energy conservation measure. The removed CFLs / TFLs are being bought back by the LED bulbs supplier.

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viii	Oil spill contingency plan shall be prepared and part of DMP to tackle emergencies. The equipment and recovery of oil from a spill would be assessed. Guidelines given in MARPOL and Shipping Acts for oil spill management would be followed. Mechanism for integration of terminals oil contingency plan with the overall area contingency plan under the co-ordination of Coast should be covered	Oil spill contingency plan and Emergency Response & Disaster Management Plan are in place.
	VII. Green Belt:	
i	Green belt shall be developed in area as provided in project details with a native tree species in accordance with CPCB guidelines. The greenbelt shall inter alia cover the entire periphery of the plant.	Green belt has been developed.
ii	Top soil shall be separately stored and used in the development of green belt.	Top soil is being stored separately and being used in the development of green belt.
	VIII. Marine Ecology:	
i	Dredging shall not be carried out during the fish breeding and spawning seasons.	Dredging is not be carried out during the fish breeding and spawning seasons.
ii	Dredging, etc shall be carried out in the confined manner to reduce the impacts on marine environment.	Dredging is being carried out in the confined manner to reduce the impacts on marine environment.
iii	The dredging schedule shall be so planned that the turbidity developed is dispersed soon enough to prevent any stress on the fish population.	Dredging schedule is planned so that the turbidity developed is dispersed soon.
iv	While carrying out dredging, an independent monitoring shall be carried out through a Government Agency/Institute to assess the impact and necessary measures shall be taken on priority basis if any adverse impact is observed.	Monitoring is being carried out to assess the impact of dredging. Relevant Reports attached in Annexure-III.

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v	A detailed marine biodiversity management plan shall be prepared through the NIO or any other institute of repute on marine, brackish water and fresh water ecology and biodiversity and submitted to and implemented to the satisfaction of the State Biodiversity Board and the CRZ authority. The report shall be based on a study of the impact of the project activities on the intertidal biotopes, corals and coral communities, molluscs, sea grasses, sea weeds, sub-tidal habitats, fishes, other marine and aquatic micro, macro and mega flora and fauna including benthos, plankton, turtles, birds etc. as also the productivity. The data collection and impact assessment shall be as per standards survey methods and include underwater photography.	Marine and riparian biodiversity management plan has been approved by Maharashtra State Biodiversity Board. (Annexure-III)
vi	Marine ecology shall be monitored regularly also in terms of sea weeds, sea grasses, mudflats, sand dunes, fisheries, echinoderms, shrimps, turtles, corals, coastal vegetation, mangroves and other marine biodiversity components including all micro, macro and mega floral and faunal components of marine biodiversity.	Marine ecology is being monitored. Relevant Reports attached in Annexure-III.
vii	The project proponent shall ensure that water traffic does not impact the aquatic wildlife sanctuaries that fall along the stretch of the river.	There are no aquatic wildlife sanctuaries.
	IX. Public hearing and Human health issues:	
i	The work space shall be maintained as per international standards for occupational health and safety with provision of fresh air respirators, blowers, and fans to prevent any accumulation and inhalation of undesirable levels of pollutants including VOCs.	The work space is being maintained as per international standards for occupational health and safety.
ii	Workers shall be strictly enforced to wear personal protective equipment like dust mask, ear muffs or ear plugs, whenever and wherever necessary/ required. Special visco-elastic gloves will be used by labour exposed to hazards from vibration.	Workers are wearing personal protective equipment.
iii	In case of repair of any old vessels, excessive care shall be taken while handling Asbestos & Freon gas. Besides, fully enclosed covering should be provided for the temporary storage of asbestos materials at site before disposal to CTSDF.	Asbestos and freon gas are not handled for the break water project.

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iv	Safety training shall be given to all workers specific to their work area and every worker and employee will be engaged in fire hazard awareness training and mock drills which will be conducted regularly. All standard safety and occupational hazard measures shall be implemented and monitored by the concerned officials to prevent the occurrence of untoward incidents/ accidents.	Safety training is being given to all employees and workers. Mock drills are being conducted regularly.
v	Emergency preparedness plan based on the Hazard identification and Risk Assessment (HIRA) and Disaster Management Plan shall be implemented.	Emergency Response & Disaster Management Plan is available.
vi	Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, crèche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.	Provisions have been done for housing for construction labour.
vii	Occupational health surveillance of the workers shall be done on a regular basis.	Occupational health surveillance of the workers is being done on a regular basis.
	X. Corporate Environment Responsibility:	
i	The company shall have a well laid down environmental policy duly approved by the Board of Directors. The environmental policy should prescribe for standard operating procedures to have proper checks and balances and to bring into focus any infringements/deviation/violation of the environmental / forest /wildlife norms/conditions. The company shall have defined system of reporting infringements / deviation / violation of the environmental / forest / wildlife norms / conditions and / or shareholders / stake holders. The copy of the board resolution in this regard shall be submitted to the MoEF&CC as a part of six-monthly report.	Environmental policy is available. Attached in Annexure-III.
ii	A separate Environmental Cell both at the project and company head quarter level, with qualified personnel shall be set up under the control of senior Executive, who will directly report to the head of the organization.	Environmental Cell has been setup and is reporting to the head of the organization.

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iii	Action plan for implementing EMP and environmental conditions along with responsibility matrix of the company shall be prepared and shall be duly approved by competent authority. The year wise funds earmarked for environmental protection measures shall be kept in separate account and not to be diverted for any other purpose. Year wise progress of implementation of action plan shall be reported to the Ministry/Regional Office along with the Six Monthly Compliance Report.	Noted and being complied. Year wise funds earmarked for environmental protection measures and are not being diverted to any other purpose. Progress of implementation of action plan is being reported to the Ministry/Regional Office.
iv	Self environmental audit shall be conducted annually. Every three years third party environmental audit shall be carried out.	KLL is ISO:14001: 2015 certified. Regular internal & external audits are conducted as part of the certification.
	XI. Miscellaneous:	
i	The project proponent shall make public the environmental clearance granted for their project along with the environmental conditions and safeguards at their cost by prominently advertising it at least in two local newspapers of the District or State, of which one shall be in the vernacular language within seven days and in addition this shall also be displayed in the project proponent's website permanently.	Environmental Clearance advertised on 10.04.2020 in Times of India, Mumbai and Lokmat, Mumbai and displayed continuously on company website.
ii	The copies of the environmental clearance shall be submitted by the project proponents to the Heads of local bodies, Panchayats and Municipal Bodies in addition to the relevant offices of the Government who in turn has to display the same for 30 days from the date of receipt.	Copies of environmental clearance submitted to the Heads of local bodies, Panchayats and Municipal Bodies.
iii	The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website and update the same on half-yearly basis.	Status of compliance of stipulated environment conditions is being submitted and put on company website.
iv	The project proponent shall submit six-monthly reports on the status of the compliance of the stipulated environmental conditions on the website of the ministry of Environment, Forest and Climate Change at environment clearance portal.	Compliance of stipulated environmental conditions is being submitted to MoEF&CC.

26/06/20

v	The project proponent shall submit the environmental statement for each financial year in Form-V to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently and put on the website of the company.	Environmental statement is being submitted to MPCB and put on company website.
vi	The criteria pollutant levels namely; PM2.5, PM10, SO2, NOx (ambient levels) or critical sectoral parameters, indicated for the project shall be monitored and displayed at a convenient location near the main gate of the company in the public domain.	Air pollution is being monitored.
vii	The project proponent shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities, commencing the land development work and start of production operation by the project.	Regional Office will be informed.
viii	The project authorities must strictly adhere to the stipulations made by the State Pollution Control Board and the State Government.	Stipulations made by State Pollution Control Board and State Government are being followed.
ix	The project proponent shall abide by all the commitments and recommendations made in the EIA/EMP report, commitment made during Public Hearing and also that during their presentation to the Expert Appraisal Committee.	All the commitments and recommendations are being followed.
x	No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment, Forests and Climate Change (MoEF&CC).	No further expansion or modifications is being carried out .
xi	Concealing factual data or submission of false/fabricated data may result in revocation of this environmental clearance and attract action under the provisions of Environment (Protection) Act, 1986.	Noted.
xii	The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.	Noted.
xiii	The Ministry reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.	Additional conditions stipulated by the Ministry will be implemented.

26/06/25

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xiv	The Regional Office of this Ministry shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer (s) of the Regional Office by furnishing the requisite data / information/monitoring reports.	Requisite data/information/monitoring reports will be furnished to the Regional Office.
xv	The above conditions shall be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 and the Public Liability Insurance Act, 1991 along with their amendments and Rules and any other orders passed by the Hon'ble Supreme Court of India / High Courts and any other Court of Law relating to the subject matter.	Noted.
xvi	Any appeal against this EC shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.	Noted.

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25/06/25

ANNEXURE-IV

Sr.No.	Mitigation measures for Air Pollution	Compliance Status
1	Covering the materials with tarpaulin during the transportation of construction material from contractor's site to LNG Terminal.	Materials are being covered with tarpaulin during transportation.
2	Dust suppression arrangements or sprinklers should be regularly used to avoid dust emission.	Dust suppression arrangements and sprinklers are being used.
3	All construction machines should be well maintained and use appropriate air pollution control equipment as required.	All construction machines are being maintained properly and air pollution control equipment are being used.
4	Ambient air quality should be regularly monitored at critical locations near construction sites before start of work and during the execution of work so that increased ambient load can be estimated. If the levels are crossing the permissible values, immediate mitigatory measures need to be adopted.	Ambient air quality is being monitored. Reports attached in Annexure - III.
5	To lessen the gaseous emissions necessary steps will be followed like, only vehicles having PUC shall be allowed, well equipped handling & transportation facilities shall be provided throughout the construction phase.	Vehicles without PUC are not being allowed.
6	The residual impacts of emission from the stack would not be significant to cause any considerable impacts on air. The adverse impacts will be almost eliminated or minimized to the lowest extent of damage by implementing the proper mitigation measures.	The same is being ensured. Air pollution is being monitored. Reports attached in Annexure - III.
Sr.No.	**Mitigation measures for Noise Levels**	**Compliance Status**
1		
2	All noise generating equipment shall be regularly maintained. Fitting of sound insulating sheet shall be done during construction period.	All noise generating equipment are being regularly maintained.
3	Appropriate equipment and machineries will be selected to maintain the noise levels below the levels stipulated by Central Pollution Control Board (CPCB) during the construction phase.	The same is being ensured. Noise level is being monitored. Reports attached in Annexure - III.
4	Persons exposed to high noise levels will be provided with Personnel Protective Equipment (PPE) and shifts basis will be adopted.	PPEs are being provided.
5	Proper lubrication, Maintenance, inspection and modernization of equipment shall be done to reduce the noise generation.	Equipment lubrication, maintenance, inspection and modernization are being done.
6	The noise levels can be minimized by providing hoods, laggings, silencers and screens will be provided for the above equipment so that the sound level exposure in working areas is restricted below 90 dB(A) for 8 hours duty.	The same is being ensured. Noise level is being monitored. Reports attached in Annexure - III.
Sr.No.	**Mitigation measures for Water Environment**	**Compliance Status**
1	Maximum care shall be taken during construction phase to avoid misuse of water. Proper sanitation facilities are already provided for construction workers at RGPPL Colony.	There is no misuse of water.
Sr.No.	**Mitigation measures for Marine Environment**	**Compliance Status**
1	To control the increase in level of turbidity, proper machinery and skilled personnel should be used for the rock placement on the sea bed to ensure minimal disturbance in the water.	Proper machinery and skilled personnel are being deployed for the rock placement job.

26/06/25

2	Construction operations will require the presence of a observer to ensure that soft-start procedures are applied, and also to ensure that if turtle or marine mammals are sighted in close proximity.	The same is being ensured.
3	The breakwater site where the construction work is to be carried out and the proximity area where heavy machinery and other instruments are kept should be properly fenced along with sign boards indicating warnings. Also, noise coming from the machines during construction phase should be minimized using pads and absorbers.	The site is properly fenced with sign boards. Noise generation is also being minimized. Noise level is being monitored. Reports attached in Annexure - III.
Sr.No.	**Mitigation measures for Socio Economic Environment**	**Compliance Status**
1	Water shall be sprinkle/spread to suppress dust during construction phase caused by vehicles during transportation of construction materials from contractor site to the jetty to control air pollution and thereby avoid adverse health impact.	Water is being sprinkled to suppress dust.
2	Proper living condition with appropriate facilities for residential labours is already provided at RGPPL Colony.	The same is being ensured.
3	Proper Training and awareness program should be carried out so that the workers understand the importance of wearing the personal protective equipment's.	Training and awareness programs are being carried out to explain the importance of PPEs.
Sr.No.	**Mitigation measures on conservation of marine mammals**	**Compliance Status**
1	An on-site marine mammal observer has to be deployed to monitor the movement of these important species.	On-site marine mammal observer has been deployed to monitor the movement of important species and work will be stopped temporarily to allow the mammal to move further if it is sighted within 50 meters of active working/dredging/reclamation radius. Training/awareness session is also being conducted on crew members to sensitize this issue.
2	Vessel movement has to be regulated. Vessel movement has to be immediately halted at the sighting of any marine mammal in the active working zone.	Training/awareness session to our marine vessel crew on this is being ensured.
3	Safe management of marine litter, garbage and plastic is important with respect to the present project.	Marine litter, garbage and plastic waste are being handled safely as per the standards.

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26/06/25

LARSEN & TOUBRO

Larsen & Toubro Limited
L&T Construction
Heavy Civil Infrastruture
Mount Poonamallee Road, Manapakkam
P. B. No. 979, Chennai - 600 089, INDIA

LE200137/L&T/KLL/BWC-DABHOL/1381
Date: 9th Nov 2024

To,
Resident Construction Manager
Engineer's India Limited
Konkan LNG Terminal
Dabhol-415634, India.

Copy To: SIC-Konkan LNG Limited

Subject: Completion of Balance Works of Breakwater at LNG Terminal, Dabhol, Maharashtra vide DLOA ref no. KLL/HQ/C&P/BREAKWATER/2019/24 –**Submission of Half yearly Environmental Monitoring Report.**

Dear Sir,

With reference to the above subject, we herewith submitting the following Half yearly environmental monitoring reports to your office.

1. **Ambient Air Quality Monitoring Report**
2. **Ambient Noise Level Monitoring Report**
3. **Stack Emissions Quality Monitoring Report**
4. **Soil Sample Analysis Report**
5. **Harbour water Quality monitoring Report**
6. **Sediment Sample analysis Report**
7. **Harbour water Quality monitoring -Ecology**
8. **Encl I – Speciation of Phytoplankton species observed**
9. **Encl II – Speciation of Zooplankton species observed**
10. **Encl III – Speciation of Benthos species observed**

This is for your kind information and record

Thanking you and assuring you of our best services at all times.

For LARSEN & TOUBRO LIMITED

(RAMASU)

KONKAN LNG LTD RECEIVED Date / Time 09/11/24 LNG

V Rathinasamy,
Project Director

इंजीनियर्स इंडिया लिमिटेड
ENGINEERS INDIA LIMITED
कोंकण एल एन जी टर्मिनल दाभोल
Konkan LNG Terminal Dabhol
09/11/2024 (3:05 PM)
(प्राप्त किया अनुलग्न की / (Received
जांच नहीं की) Enclosures Not Checked)

LARSEN & TOUBRO

Larsen & Toubro Limited
L&T Construction
Heavy Civil Infrastruture
Mount Poonamallee Road, Manapakkam
P. B. No. 979, Chennai - 600 089, INDIA

Encl:-

1. **Ambient Air Quality Monitoring Report (02 Pages)**
2. **Ambient Noise Level Monitoring Report (02 Pages)**
3. **Stack Emissions Quality Monitoring Report (02 Pages)**
4. **Soil Sample Analysis Report (02 Pages)**
5. **Harbour water Quality monitoring Report (03 Pages)**
6. **Sediment Sample analysis Report (02 Pages)**
7. **Harbour water Quality monitoring -Ecology (02 Pages)**
8. **Encl I – Speciation of Phytoplankton species observed (01 Page)**
9. **Encl II – Speciation of Zooplankton species observed (01 Page)**
10. **Encl III – Speciation of Benthos species observed (01 Page)**

ULTRA TECH

ULTRA TECH ENVIRONMENTAL CONSULTANCY AND LABORATORY PVT. LTD

(A venture of ULTRA TECH Environmental Consultancy)

ISO 9001:2015 & ISO 45001:2018 Certified

Lab Operates at : Survey No. 93/A, Conformity Hissa No. 2, G V Brothers Bldg., Bata Compound, Khopat, Near Flower Valley, Thane (West) - 400 601, Maharashtra, India.
Tel: 022-45119250, 022-45119239 / ✆+91-7039076680 Email: lab@ultratech.in

TEST REPORT

ISSUED TO: **LARSEN & TOUBRO LIMITED CONSTRUCTION**
PB No.979,Mount-poonamallee Road,Manapakkam,Chennai-600089

For Project: **LE200137-Breakwater at Dabhol**
AT POST - ANJAANWEL, TAL- GUHAGHAR, DIST-RATNAGIRI, PIN CODE-415634

ULR NO. :
REPORT NO. : UT/ELS/REPORT/ 9074 /11 - 2024
ISSUE DATE : 08/11/2024
YOUR REF. : LE/LE200137/WOD/24/000156
REF. DATE : 23/08/2024

SAMPLE PARTICULARS :

AMBIENT AIR QUALITY MONITORING

Sampling Plan Ref. No.: : 47-10/2024
Sampling Procedure : UT/LQMS/SOP/AA01A
Date & Time of Sampling : 24/10/2024 12:30 Hrs. to 25/10/2024 12:30 Hrs.
Sample Registration Date : 28/10/2024
Analysis Starting Date : 28/10/2024
Analysis Completion Date : 06/11/2024
Ambient Air Temperature : 26.5 °C to 32.2 °C
Relative Humidity : 76.4 % to 90.1 %
Sample Collected By : ULTRA TECH ENVIRONMENTAL CONSULTANCY AND LABORATORY PVT. LTD.

Location Code : 1
Sample Location : AT PROJECT OFFICE

GPS Co-ordinates : N 17°32'27.40", E 73°09'54.30"
Height of Sampler : 1 Meter
Sampling Duration : 24:00 Hours:Minutes
Sample Lab Code : UT/ELS/760/10-2024

Sr. No.	Test Parameter	Test Method	Test Result	Unit	NAAQMS Industrial, Residential, Rural and Other Area 24 Hrs.^ or 1 Hr^
1	Sulphur Dioxide (SO_2)	IS 5182 (Part 2) : 2023	BDL[DL=5]	ug/m^3	80
2	Nitrogen Dioxide (NO_2)	IS 5182 (Part 6) : 2006	11	ug/m^3	80
3	Particulate Matter (PM_{10})	IS 5182 (Part 23) : 2006	80	ug/m^3	100
4	Particulate Matter ($PM_{2.5}$)	IS 5182 (Part 24) : 2019	29	ug/m^3	60
5	Ozone (O_3)†	IS 5182 (Part 9) : 1974	BDL[DL=20]	ug/m^3	180
6	Lead (Pb)	SOP No. UT/LQMS/SOP/AA07	BDL[DL=0.06]	ug/m^3	1.0
7	Carbon Monoxide (CO)†	IS 5182 (Part 10) : 1999	2.3	mg/m^3	4
8	Ammonia (NH_3)	ISC Method 401 3rd Ed.: 2016	34	ug/m^3	400
9	Benzene (C_6H_6)	IS 5182 (Part 11) : 2006	1.2	ug/m^3	5^
10	Benzo(α)Pyrene (BaP) - Paticulate Phase	SOP No. UT/LQMS/SOP/AA12	BDL[DL=0.5]	ng/m^3	1^
11	Arsenic (As)	SOP No. UT/LQMS/SOP/AA07	3	ng/m^3	6^
12	Nickel (Ni)	SOP No. UT/LQMS/SOP/AA07	BDL[DL=7]	ng/m^3	20^

†: Sampling Period 1 Hr.
BDL: Below Detection Limit
DL=Detection Limit

Remark/ Statement of Conformity: *The parameters tested above are found to be within 24 hourly TWA of National Ambient Air Quality Monitoring Standard (NAAQMS), Part III- Section IV.*

Sampling Equipment Details	Instrument Used	Lab ID	Make	Model	Sl. No.	Calibration Valid up to
	Fine Dust Sampler	UT/LAB/238	Polltech	PEM-ADS 2.5/10μ	1/22	17/09/2025
	Respirable Dust Sampler	UT/LAB/130	Polltech	PEM-RDS 8NL-BM	614	17/09/2025

Note:
1. This test report refers only to the sample tested and observed values are relevant to sample collected only.
2. This test report may not be reproduced in part, without the permission of this laboratory.
3. Any correction invalidates this test report.
4. Samples were collected by following laboratory's SOP (UT/LQMS/SOP/AA01A) based on CPCB Guidelines - National Ambient Air Quality Monitoring Series: NAAQMS/2003-04 and respective test methods.
5. Weather during sampling was SUNNY
6. ^Time weighted average shall be complied with 98% of the time in a year. 2% of the time, they may exceed the limits but not on two consecutive monitorings.
7. Air Quality Index (AQI) at above sampling location 104 which is Moderate as per National AQI based on concentrations obtained for reported parameters. [National Air Quality Index (IND-AQI) is calculated using AQI Calculator available at 'https://cpcb.nic.in/National-Air-Quality-Index/'].

Authorized By:

Meghan Patil
Authorized Signatory

- END OF TEST REPORT -

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Tel: 022-45119250, 022-45119239 / ©+91-7039076680 Email: lab@ultratech.in

TEST REPORT

ISSUED TO: LARSEN & TOUBRO LIMITED CONSTRUCTION
PB No.979,Mount-poonamallee Road,Manapakkam,Chennai-600089

For Project: LE200137-Breakwater at Dabhol
AT POST - ANJAANWEL, TAL- GUHAGHAR, DIST-RATNAGIRI, PIN CODE-415634

ULR NO. :
REPORT NO. : UT/ELS/REPORT/ 9075 / 11 - 2024
ISSUE DATE : 08/11/2024
YOUR REF. : LE/LE200137/WOD/24/000156
REF. DATE : 23/08/2024

SAMPLE PARTICULARS :
Sampling Plan Ref. No.: : 47-10/2024
Sampling Procedure : UT/LQMS/SOP/AA01A
Date & Time of Sampling : 24/10/2024 16:20 Hrs. to 25/10/2024 16:20 Hrs.
Sample Registration Date : 28/10/2024
Analysis Starting Date : 28/10/2024
Analysis Completion Date : 06/11/2024
Ambient Air Temperature : 26.3 °C to 32.1 °C
Relative Humidity : 76.3 % to 90.2 %
Sample Collected By : ULTRA TECH ENVIRONMENTAL CONSULTANCY AND LABORATORY PVT. LTD.

AMBIENT AIR QUALITY MONITORING
Location Code : 2
Sample Location : MARINE OFFICE, NEAR WORKER'S REST SHELTER
GPS Co-ordinates : N 17°32'05.80", E 73°09'13.50"
Height of Sampler : 1 Meter
Sampling Duration : 24:00 Hours:Minutes
Sample Lab Code : UT/ELS/761/10-2024

Sr. No.	Test Parameter	Test Method	Test Result	Unit	NAAQMS Industrial, Residential, Rural and Other Area 24 Hrs.^ or 1 Hr^
1	Sulphur Dioxide (SO_2)	IS 5182 (Part 2) : 2023	BDL[DL=5]	$\mu g/m^3$	80
2	Nitrogen Dioxide (NO_2)	IS 5182 (Part 6) : 2006	6	$\mu g/m^3$	80
3	Particulate Matter (PM_{10})	IS 5182 (Part 23) : 2006	85	$\mu g/m^3$	100
4	Particulate Matter ($PM_{2.5}$)	IS 5182 (Part 24) : 2019	32	$\mu g/m^3$	60
5	Ozone (O_3)†	IS 5182 (Part 9) : 1974	BDL[DL=20]	$\mu g/m^3$	180
6	Lead (Pb)	SOP No. UT/LQMS/SOP/AA07	BDL[DL=0.06]	$\mu g/m^3$	1.0
7	Carbon Monoxide (CO)†	IS 5182 (Part 10) : 1999	0.9	mg/m^3	4
8	Ammonia (NH_3)	ISC Method 401 3rd Ed.: 2016	39	$\mu g/m^3$	400
9	Benzene (C_6H_6)	IS 5182 (Part 11) : 2006	1.2	$\mu g/m^3$	5^
10	Benzo(α)Pyrene (BaP) - Paticulate Phase	SOP No. UT/LQMS/SOP/AA12	BDL[DL=0.5]	ng/m^3	1^
11	Arsenic (As)	SOP No. UT/LQMS/SOP/AA07	4	ng/m^3	6^
12	Nickel (Ni)	SOP No. UT/LQMS/SOP/AA07	BDL[DL=7]	ng/m^3	20^

†: Sampling Period 1 Hr.
BDL: Below Detection Limit
DL=Detection Limit

Remark/ Statement of Conformity: *The parameters tested above are found to be within 24 hourly TWA of National Ambient Air Quality Monitoring Standard (NAAQMS), Part III- Section IV.*

Sampling Equipment Details	Instrument Used	Lab ID	Make	Model	Sl. No.	Calibration Valid up to
	Fine Dust Sampler	UT/LAB/121	Polltech	PEM-ADS 2.5/10μ	19013	04/10/2025
	Respirable Dust Sampler	UT/LAB/126	Polltech	PEM-RDS 8NL	3613	30/05/2025

Note: 1. This test report refers only to the sample tested and observed values are relevant to sample collected only.
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3. Any correction invalidates this test report.
4. Samples were collected by following laboratory's SOP (UT/LQMS/SOP/AA01A) based on CPCB Guidelines - National Ambient Air Quality Monitoring Series: NAAQMS/2003-04 and respective test methods.
5. Weather during sampling was SUNNY
6. ^Time weighted average shall be complied with 98% of the time in a year. 2% of the time, they may exceed the limits but not on two consecutive monitorings.
7. Air Quality Index (AQI) at above sampling 85 which is Satisfactory as per National AQI based on concentrations obtained for reported parameters. [National Air Quality Index (IND-AQI) is calculated using AQI Calculator available at 'https://cpcb.nic.in/National-Air-Quality-Index/']

ULTRA TECH ENVIRONMENTAL CONSULTANCY AND LABORATORY PVT. LTD.

Authorized By:
Meghan Patil
Authorized Signatory

– END OF TEST REPORT –

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GST: 27AADCU4659H1Z0 CIN NO: U74900MH2023PTC415102 UT - 008925
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TEST REPORT

ISSUED TO: LARSEN & TOUBRO LIMITED,CONSTRUCTION
PB No.979,Mount-poonamallee Road,Manapakkam,Chennai-600089

For Project: LE200137-Breakwater at Dabhol
at & Post RGPPL, Anjanwel ,Tal-Guhaghar, Ratnagiri, Maharashtra

ULR NO. :
REPORT NO. : UT/ELS/REPORT/ 9076 / 11 - 2024
ISSUE DATE : 08/11/2024
YOUR REF. : LE/LE200137/WOD/24/000156
REF. DATE : 23/08/2024

SAMPLE PARTICULARS :

AMBIENT NOISE LEVEL MONITORING

Sampling Plan Ref. No. : 47-10/2024
Sampling Method : UT/LQMS/SOP/N01
Sample Lab Code : UT/ELS/0762/10-2024
Survey Done By : ULTRA TECH ENVIRONMENTAL CONSULTANCY AND LABORATORY PVT. LTD.

Date of Monitoring : 24/10/2024 12:40 to 25/10/2024 12:40
Sampling Location : AT PROJECT OFFICE
GPS Co-ordinates : N 17°32'26.70", E 73°09'54.70"

Noise Level Reading in dB(A) Leq

Time (Hrs)	Day dB(A)			Time (Hrs)	Night dB(A)		
	L_{eq}	L_{min}	L_{max}		L_{eq}	L_{min}	L_{max}
06:00 to 07:00	64.7	56.2	72.6	22:00 to 23:00	40.3	37.2	47.6
07:00 to 08:00	63.6	56.5	74.2	23:00 to 00:00	57.2	36.7	68.5
08:00 to 09:00	61.1	51.3	71.5	00:00 to 01:00	45.6	37.4	58.2
09:00 to 10:00	66.7	48.3	78.5	01:00 to 02:00	40.6	37.8	47.1
10:00 to 11:00	61.7	49.3	72.6	02:00 to 03:00	40.4	37.2	47.2
11:00 to 12:00	63.7	52.6	75.2	03:00 to 04:00	57.2	36.6	70.9
12:00 to 13:00	55.0	47.4	67.7	04:00 to 05:00	45.6	37.4	56.4
13:00 to 14:00	52.1	47.0	64.8	05:00 to 06:00	40.8	38.0	47.1
14:00 to 15:00	57.7	46.0	68.6	--	--	--	--
15:00 to 16:00	51.1	46.6	62.8	--	--	--	--
16:00 to 17:00	51.9	47.3	61.8	--	--	--	--
17:00 to 18:00	51.9	45.7	65.5	--	--	--	--
18:00 to 19:00	52.2	43.9	66.0	--	--	--	--
19:00 to 20:00	46.8	44.0	55.6	--	--	--	--
20:00 to 21:00	41.7	38.4	54.0	--	--	--	--
21:00 to 22:00	41.6	38.2	49.8	--	--	--	--

L_{10}	62.0
L_{50}	52.7
L_{90}	49.4
Day Leq	60.2
Night Leq	51.7

Limits in dB(A) Leq as per
THE NOISE POLLUTION (REGULATION AND CONTROL) RULES, 2000
(See rule 3(1) and 4(1)) Ambient Air Quality Standards in respect of Noise

75
70

Opinions / Interpretations: Monitoring area coming under Industrial Area
The observed values for LeqdB(A) for Day Time & Night Time are within the standard limits as per Ambient Air Quality Standards in respect of Noise prescribed in The Noise Pollution (Regulation and Control) Rules, 2000.

Sampling Equipment Details	Instrument Used	Lab ID	Make	Model	Sl. No.	Calibration Valid up to
	Sound Level Meter	UT/LAB/256	Lutron	SL4035SD	Q687778	06/11/2024

Note:
1. Day Time – 06:00 Hrs to 22:00 Hrs and Night Time – 22:00 Hrs to 06:00 Hrs.
2. This test report refers only to the monitoring conducted.
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Authorized By:
Meghan Patil
Authorized Signatory

– END OF TEST REPORT –

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TEST REPORT

ISSUED TO: LARSEN & TOUBRO LIMITED,CONSTRUCTION
PB No.979,Mount-poonamallee Road,Manapakkam,Chennai-600089

For Project: LE200137-Breakwater at Dabhol
at & Post RGPPL, Anjanwel ,Tal-Guhaghar, Ratnagiri, Maharashtra

ULR NO. :
REPORT NO. : UT/ELS/REPORT/ 9077 / 11 - 2024
ISSUE DATE : 08/11/2024
YOUR REF. : LE/LE200137/WOD/24/000156
REF. DATE : 23/08/2024

SAMPLE PARTICULARS :

Sampling Plan Ref. No. : 47-10/2024
Sampling Method : UT/LQMS/SOP/N01
Sample Lab Code : UT/ELS/0763/10-2024
Survey Done By : ULTRA TECH ENVIRONMENTAL CONSULTANCY AND LABORATORY PVT. LTD.

AMBIENT NOISE LEVEL MONITORING

Date of Monitoring : 24/10/2024 16:40 to 25/10/2024 16:40
Sampling Location : MARINE OFFICE NEAR WORKER'S REST SHELTER
GPS Co-ordinates : N 17°32'05.00", E 73°09'13.60"

Noise Level Reading in dB(A) Leq

Time (Hrs)	Day dB(A)			Time (Hrs)	Night dB(A)		
	L_{eq}	L_{min}	L_{max}		L_{eq}	L_{min}	L_{max}
06:00 to 07:00	63.5	55.0	71.4	22:00 to 23:00	40.8	37.7	48.1
07:00 to 08:00	62.4	55.3	73.0	23:00 to 00:00	57.7	37.2	69.0
08:00 to 09:00	59.9	50.1	70.3	00:00 to 01:00	46.1	37.9	58.7
09:00 to 10:00	65.5	47.1	77.3	01:00 to 02:00	41.1	38.3	47.6
10:00 to 11:00	60.5	48.1	71.4	02:00 to 03:00	40.9	37.7	47.7
11:00 to 12:00	62.5	51.4	74.0	03:00 to 04:00	57.7	37.1	71.4
12:00 to 13:00	54.0	46.9	66.6	04:00 to 05:00	46.1	37.9	56.9
13:00 to 14:00	52.6	47.5	65.3	05:00 to 06:00	41.3	38.5	47.6
14:00 to 15:00	58.2	46.5	69.1	--	--	--	--
15:00 to 16:00	51.6	47.1	63.3	--	--	--	--
16:00 to 17:00	52.4	47.8	62.3	--	--	--	--
17:00 to 18:00	52.4	46.2	66.0	--	--	--	--
18:00 to 19:00	52.7	44.4	66.5	--	--	--	--
19:00 to 20:00	47.3	44.5	56.1	--	--	--	--
20:00 to 21:00	42.2	38.9	54.5	--	--	--	--
21:00 to 22:00	42.1	38.7	50.3	--	--	--	--

L_{10}	61.1
L_{50}	51.7
L_{90}	48.7
Day Leq	59.2
Night Leq	52.2

Limits in dB(A) Leq as per
THE NOISE POLLUTION (REGULATION AND CONTROL) RULES, 2000
(See rule 3(1) and 4(1)) Ambient Air Quality Standards in respect of Noise
Day: 75
Night: 70

Opinions / Interpretations: Monitoring area coming under Industrial Area
The observed values for LeqdB(A) for Day Time & Night Time are within the standard limits as per Ambient Air Quality Standards in respect of Noise prescribed in The Noise Pollution (Regulation and Control) Rules, 2000.

Sampling Equipment Details	Instrument Used	Lab ID	Make	Model	Sl. No.	Calibration Valid up to
	Sound Level Meter	UT/LAB/257	Lutron	SL4035SD	Q690401	08/11/2024

Note:
1. Day Time - 06:00 Hrs to 22:00 Hrs and Night Time - 22:00 Hrs to 06:00 Hrs.
2. This test report refers only to the monitoring conducted.
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4. Any correction invalidates this test report.

Authorized By:
Meghan Patil
Authorized Signatory

- END OF TEST REPORT -

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Tel: 022-45119250, 022-45119239 / ✆+91-7039076680 Email: lab@ultratech.in

TEST REPORT

ISSUED TO: LARSEN & TOUBRO LIMITED,CONSTRUCTION
PB No.979,Mount-poonamallee Road,Manapakkam,Chennai-600089

For Project: LE200137-Breakwater at Dabhol
at & Post RGPPL, Anjanwel ,Tal-Guhaghar, Ratnagiri, Maharashtra

ULR NO. :
REPORT NO. : UT/ELS/REPORT/ 9078 / 11 - 2024
ISSUE DATE : 08/11/2024
YOUR REF. : LE/LE200137/WOD/24/000156
REF. DATE : 23/08/2024

SAMPLE PARTICULARS :

Sampling Plan Ref. No.	: 47-10/2024	**Sample Registration Date**	: 28/10/2024
Sampling Procedure	: UT/LQMS/SOP/SE01A	**Analysis Starting Date**	: 28/10/2024
Date of Sampling	: 25/10/2024	**Analysis Completion Date**	: 04/11/2024
Time of Sampling	: 08:45 Hrs. to 10:00 Hrs.	**Sample Lab Code**	: UT/ELS/0764/10-2024
Sampling Duration	: 01:15 Hours:Minutes		
Sample Collected By	: ULTRA TECH ENVIRONMENTAL CONSULTANCY AND LABORATORY PVT. LTD.		

STACK EMISSIONS QUALITY MONITORING

STACK DETAILS

Stack ID	: ASSET NO - 2570.139.H	**Stack Height**	: 3.0 meters from Ground Level
Stack Attached To	: DG SET (125KVA)	**Stack Diameter**	: 0.10 meter @ Sampling Point
Stack Shape	: CIRCULAR	**Fuel Used & Consumption**	: Diesel @ 13 L/Hr.
Stack MOC	: M.S		

FLUE GAS CHARACTERISTICS

Flue Gas Temperature	: 459	°K	**Volumetric Flow Rate**	: 146	$Nm^3/Hr.$
Flue Gas Velocity	: 8.2	m/s	**Total Volume of Flue Gas**	: 1.600	Nm^3 (@ STP)

Sr. No.	Test Parameter	Test Method	Test Result	Unit	Standard Limits
1	Particulate Matter (TPM)	IS 11255 (Part 1) : 1983	6	mg/Nm^3	NA
			0.021	Kg/Day	NA
2	Sulphur Dioxide (SO_2)	IS 11255 (Part 2) : 1985	5	mg/Nm^3	NA
			2	ppm	NA
			0.018	Kg/Day	NA

NA : Not Applicable

Remark/ Statement of Conformity: *Nil*

Sampling Equipment Details	Instrument Used	Lab ID	Make	Model	Sl. No.	Calibration Valid up to
	Stack Monitoring Kit	UT/LAB/104	Polltech	PEM SMS4	3913	05/10/2024

Note:
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4. Any correction invalidates this test report.
5. Test results reported with units ppm and Kg/Day are obtained from scientific conversions/calculations applied to test results in mg/Nm^3.
6. Samples were collected by following laboratory's SOP (UT/LQMS/SOP/SE01A) based on CPCB Guidelines - On methodologies For Source Emission Monitoring – CPCB (Laboratory analysis

ULTRA TECH ENVIRONMENTAL CONSULTANCY AND LABORATORY PVT. LTD.

Authorized By:
Meghan Patil
Authorized Signatory

– END OF TEST REPORT –

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Tel: 022-45119250, 022-45119239 / ✆+91-7039076680 Email: lab@ultratech.in

TEST REPORT

ISSUED TO: LARSEN & TOUBRO LIMITED,CONSTRUCTION
PB No.979,Mount-poonamallee Road,Manapakkam,Chennai-600089

For Project: LE200137-Breakwater at Dabhol
at & Post RGPPL, Anjanwel ,Tal-Guhaghar, Ratnagiri, Maharashtra

ULR NO. :
REPORT NO. : UT/ELS/REPORT/ 9079 / 11 - 2024
ISSUE DATE : 08/11/2024
YOUR REF. : LE/LE200137/WOD/24/000156
REF. DATE : 23/08/2024

SAMPLE PARTICULARS :

Sampling Plan Ref. No.	: 47-10/2024		
Sampling Procedure	: UT/LQMS/SOP/SE01A		
Date of Sampling	: 25/10/2024		
Time of Sampling	: 10:30 Hrs. to 11:45 Hrs.		
Sampling Duration	: 01:15 Hours:Minutes		
Sample Collected By	: ULTRA TECH ENVIRONMENTAL CONSULTANCY AND LABORATORY PVT. LTD.		

STACK EMISSIONS QUALITY MONITORING

Sample Registration Date	: 28/10/2024
Analysis Starting Date	: 28/10/2024
Analysis Completion Date	: 04/11/2024
Sample Lab Code	: UT/ELS/0765/10-2024

STACK DETAILS

Stack ID	: ASSET NO - 2570.693.H	**Stack Height**	: 3.5 meters from Ground Level
Stack Attached To	: DG SET (125KVA)	**Stack Diameter**	: 0.10 meter @ Sampling Point
Stack Shape	: CIRCULAR	**Fuel Used & Consumption**	: Diesel @ 13 L/Hr.
Stack MOC	: M.S		

FLUE GAS CHARACTERISTICS

Flue Gas Temperature	:	441	°K	**Volumetric Flow Rate**	: 254	$Nm^3/Hr.$
Flue Gas Velocity	:	13.7	m/s	**Total Volume of Flue Gas**	: 1.600	Nm^3 (@ STP)

Sr. No.	Test Parameter	Test Method	Test Result	Unit	Standard Limits
1	Particulate Matter (TPM)	IS 11255 (Part 1) : 1983	5	mg/Nm^3	NA
			0.029	Kg/Day	NA
2	Sulphur Dioxide (SO_2)	IS 11255 (Part 2) : 1985	9	mg/Nm^3	NA
			3	ppm	NA
			0.053	Kg/Day	NA

NA : Not Applicable

Remark/ Statement of Conformity: *Nil*

Sampling Equipment Details	Instrument Used	Lab ID	Make	Model	Sl. No.	Calibration Valid up to
	Stack Monitoring Kit	UT/LAB/104	Polltech	PEM SMS4	3913	05/10/2024
	--	--	--	--	--	--

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4. Any correction invalidates this test report.
5. Test results reported with units ppm and Kg/Day are obtained from scientific conversions/calculations applied to test results in mg/Nm^3.
6. Samples were collected by following laboratory's SOP (UT/LQMS/SOP/SE01A) based on CPCB Guidelines - On methodologies For Source Emission Monitoring - CPCB (Laboratory analysis

ULTRA TECH ENVIRONMENTAL CONSULTANCY AND LABORATORY PVT. LTD.

Authorized By:
Meghan Patil
Authorized Signatory

– END OF TEST REPORT –

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CIN NO: U74900MH2023PTC415102
UT - 008963
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TEST REPORT

ISSUED TO: LARSEN & TOUBRO LIMITED,CONSTRUCTION
PB No.979,Mount-poonamallee Road,Manapakkam,Chennai-600089

For Project: LE200137-Breakwater at Dabhol
AT & Post RGPPL,Anjanwel ,Tal-Guhaghar, Ratnagiri, Maharashtra

ULR NO. :
REPORT NO. : UT/ELS/REPORT/ 9072 /11 - 2024
ISSUE DATE : 08/11/2024
YOUR REF. : LE/LE200137/WOD/24/000156
REF. DATE : 23/08/2024

SAMPLE PARTICULARS :

Sampling Plan Ref. No.: : 47-10/2024
Sampling Procedure : UT/LQMS/SOP/S01A
Date & Time of Sampling : 25/10/2024 09:00 Hrs.
Sample Registration Date : 28/10/2024
Analysis Starting Date : 28/10/2024
Analysis Completion Date : 08/11/2024
Sample Lab Code : UT/ELS/0758/10-2024
Sample Collected By : ULTRA TECH ENVIRONMENTAL CONSULTANCY AND LABORATORY PVT. LTD.

SOIL SAMPLE ANALYSIS

Sample Type : Soil
Sample Location : AT TLOJ

Sample Quantity & Packaging Details : 1 Kg. in Ziplock Plastic Bag. (Approximately)

Sr. No.	Test Parameter	Test Method	Test Result	Unit
1	pH [1:2.5 Soil:Water] @ 25°C	IS 2720 (Part 26) : 1987	6.8	-
2	Electrical Conductivity [1:2 Soil:Water] @ 25°C	IS 14767:2000	283	µS/cm
3	Bulk Density	SOP No. UT/LQMS/SOP/S03	1193	kg/m^3
4	Porosity	SOP No. UT/LQMS/SOP/S40	51.1	%
5	Moisture Content	IS 2720 (Part 02):1973	5.4	%
6	Texture (Silt)	SOP No. UT/LQMS/SOP/S39	64.2	%
7	Texture (Clay)	SOP No. UT/LQMS/SOP/S39	24.1	%
8	Organic Carbon	IS 2720 (Part 22):1972	1.0	%
9	Cation Exchange Capacity	US EPA SW 846, Method 9080 : 1986	27.6	meq/100g
10	Sodium Adsorption Ratio	SOP No. UT/LQMS/SOP/S26	1.1	(meq/kg)$^{(0.5)}$
11	Sodium as Na	SOP No. UT/LQMS/SOP/S19	52	mg/kg
12	Potassium as K	SOP No. UT/LQMS/SOP/S20	25	mg/kg
13	Calcium as Ca	SOP No. UT/LQMS/SOP/S21	114	mg/kg
14	Magnesium as Mg	SOP No. UT/LQMS/SOP/S22	59	mg/kg
15	Gravel	SOP No. UT/LQMS/SOP/S39	3.9	mg/kg
16	Coarse Sand	SOP No. UT/LQMS/SOP/S39	0.6	%
17	Medium Sand	SOP No. UT/LQMS/SOP/S39	8.1	%
18	Fine Sand	SOP No. UT/LQMS/SOP/S39	3.0	%
19	Texture	USDA Soil Texture Triangle	SILT LOAM	%
20	Salinity (1:2 soil: Water Extract)	Calculated in terms of Total Dissolved Solids	175.5	mg/L
	Total Metals			
21	Cadmium as Cd	SOP No. UT/LQMS/SOP/S35 & S37	BDL[DL=2]	mg/kg
22	Chromium as Cr	SOP No. UT/LQMS/SOP/S35 & S37	56	mg/kg
23	Cobalt as Co	SOP No. UT/LQMS/SOP/S35 & S37	16	mg/kg
24	Copper as Cu	SOP No. UT/LQMS/SOP/S35 & S37	45	mg/kg
25	Iron as Fe	SOP No. UT/LQMS/SOP/S35 & S37	41212	mg/kg
26	Lead as Pb	SOP No. UT/LQMS/SOP/S35 & S37	BDL[DL=50]	mg/kg
27	Manganese as Mn	SOP No. UT/LQMS/SOP/S35 & S37	287	mg/kg
28	Nickel as Ni	SOP No. UT/LQMS/SOP/S35 & S37	91	mg/kg
29	Zinc as Zn	SOP No. UT/LQMS/SOP/S35 & S37	100	mg/kg
30	Barium as Ba	SOP No. UT/LQMS/SOP/S35 & S37	42	mg/kg

BDL: Below Detection Limit **DL: Detection Limit**

Remark/ Statement of Conformity: *Nil*

Note: 1. This test report refers only to the sample tested.
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3. Any correction invalidates this test report.
4. Sample was collected using laboratory's SOP (UT/LQMS/SOP/S01A) based on Manual on Sampling, Analysis and Characterization of Hazardous Wastes, CPCB, New Delhi.

Authorized By:

ULTRA TECH ENVIRONMENTAL CONSULTANCY AND LABORATORY PVT. LTD.

Shailesh Salvi
Authorized Signatory

- END OF TEST REPORT -

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Tel: 022-45119250, 022-45119239 / ©+91-7039076680 Email: lab@ultratech.in

TEST REPORT

ISSUED TO: LARSEN & TOUBRO LIMITED,CONSTRUCTION

ULR NO. :
REPORT NO. : UT/ELS/REPORT/ 9073 /11 - 2024
ISSUE DATE : 08/11/2024
YOUR REF. : LE/LE200137/WOD/24/000156
REF. DATE : 23/08/2024

For Project: LE200137-Breakwater at Dabhol
AT & Post RGPPL,Anjanwel ,Tal-Guhaghar, Ratnagiri, Maharashtra

SAMPLE PARTICULARS :

SOIL SAMPLE ANALYSIS

Sampling Plan Ref. No.: : 47-10/2024
Sampling Procedure : UT/LQMS/SOP/S01A
Date & Time of Sampling : 25/10/2024 09:30 Hrs.
Sample Registration Date : 28/10/2024
Analysis Starting Date : 28/10/2024
Analysis Completion Date : 08/11/2024
Sample Lab Code : UT/ELS/0759/10-2024
Sample Collected By : ULTRA TECH ENVIRONMENTAL CONSULTANCY AND LABORATORY PVT. LTD.

Sample Type : Soil
Sample Location : NEAR STORE
Sample Quantity & Packaging Details : 1 Kg. in Ziplock Plastic Bag. (Approximately)

Sr. No.	Test Parameter	Test Method	Test Result	Unit
1	pH [1:2.5 Soil:Water] @ 25°C	IS 2720 (Part 26) : 1987	6.9	-
2	Electrical Conductivity [1:2 Soil:Water] @ 25°C	IS 14767:2000	269	µS/cm
3	Bulk Density	SOP No. UT/LQMS/SOP/S03	1202	kg/m^3
4	Porosity	SOP No. UT/LQMS/SOP/S40	52.4	%
5	Moisture Content	IS 2720 (Part 02):1973	5.6	%
6	Texture (Silt)	SOP No. UT/LQMS/SOP/S39	66.8	%
7	Texture (Clay)	SOP No. UT/LQMS/SOP/S39	20.4	%
8	Organic Carbon	IS 2720 (Part 22):1972	1.1	%
9	Cation Exchange Capacity	US EPA SW 846, Method 9080 : 1986	27.1	meq/100g
10	Sodium Adsorption Ratio	SOP No. UT/LQMS/SOP/S26	1.1	(meq/kg)$^{(0.5)}$
11	Sodium as Na	SOP No. UT/LQMS/SOP/S19	50	mg/kg
12	Potassium as K	SOP No. UT/LQMS/SOP/S20	21	mg/kg
13	Calcium as Ca	SOP No. UT/LQMS/SOP/S21	245	mg/kg
14	Magnesium as Mg	SOP No. UT/LQMS/SOP/S22	161	mg/kg
15	Gravel	SOP No. UT/LQMS/SOP/S39	3.3	mg/kg
16	Coarse Sand	SOP No. UT/LQMS/SOP/S39	1.9	%
17	Medium Sand	SOP No. UT/LQMS/SOP/S39	10.2	%
18	Fine Sand	SOP No. UT/LQMS/SOP/S39	0.6	%
19	Texture	USDA Soil Texture Triangle	SILT LOAM	%
20	Salinity (1:2 soil: Water Extract)	Calculated in terms of Total Dissolved Solids	167.0	mg/L
	Total Metals			
21	Cadmium as Cd	SOP No. UT/LQMS/SOP/S35 & S37	BDL[DL=2]	mg/kg
22	Chromium as Cr	SOP No. UT/LQMS/SOP/S35 & S37	53	mg/kg
23	Cobalt as Co	SOP No. UT/LQMS/SOP/S35 & S37	13	mg/kg
24	Copper as Cu	SOP No. UT/LQMS/SOP/S35 & S37	43	mg/kg
25	Iron as Fe	SOP No. UT/LQMS/SOP/S35 & S37	36634	mg/kg
26	Lead as Pb	SOP No. UT/LQMS/SOP/S35 & S37	BDL[DL=50]	mg/kg
27	Manganese as Mn	SOP No. UT/LQMS/SOP/S35 & S37	278	mg/kg
28	Nickel as Ni	SOP No. UT/LQMS/SOP/S35 & S37	89	mg/kg
29	Zinc as Zn	SOP No. UT/LQMS/SOP/S35 & S37	98	mg/kg
30	Barium as Ba	SOP No. UT/LQMS/SOP/S35 & S37	42	mg/kg

Remark/ Statement of Conformity: *Nil*

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4. Sample was collected using laboratory's SOP (UT/LQMS/SOP/S01A) based on Manual on Sampling, Analysis and Characterization of Hazardous Wastes, CPCB, New Delhi.

Authorized By:

ULTRA TECH ENVIRONMENTAL CONSULTANCY AND LABORATORY PVT. LTD.

Shailesh Salvi
Authorized Signatory

- END OF TEST REPORT -

Regd.: Unit No. 225, Jai Commercial Complex, Eastern Express Highway, Opp. Cadbury Factory, Khopat, Thane (W) 400 601, Maharashtra, India.
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TEST REPORT

ISSUED TO: LARSEN & TOUBRO LIMITED,CONSTRUCTION	**REPORT NO.**	:	UT/ELS/REPORT/9067/11-2024
PB No.979,Mount-poonamallee Road,Manapakkam,Chennai-600089	**ISSUE DATE**	:	08/11/2024
Project site:LE200137-Breakwater at Dabhol	**YOUR REF.**	:	LE/LE200137/WOD/24/000156
AT & Post RGPPL, Anjanwel ,Tal-Guhaghar, Ratnagiri, Maharashtra	**REF. DATE**	:	23/08/2024

SAMPLE PARTICULARS : **HARBOUR WATER QUALITY MONITORING SAMPLE**

Sampling Plan Ref. No.	:	47-10/2024	**Sample Type**	:	Surface Marine Water
Sampling Procedure	:	UT/LQMS/SOP/W01A	**Sample Location**	:	Near TLOJ
Sample Registration Date	:	28/10/2024	**Sample Quantity & Packing Details**	:	1L in Wide Mouth Glass Bottle for O&G, 300ml in BOD Bottle for DO, 2L in Plastic Container for other parameters
Date & Time of Sampling	:	24/10/2024 at 16:40Hrs			
Analysis Starting Date	:	28/10/2024			
Analysis Completion Date	:	08/11/2024			
Sample Lab Code	:	UT/ELS/753/10-2024			
Sample Collected By	:	ULTRA TECH ENVIRONMENTAL CONSULTANCY AND LABORATORY PVT. LTD.			

Sr. No.	Test Parameter	Test Method	Test Result	Unit	Standards Limits (Primary Water Quality Criteria for Class SW-IV Waters (For Harbour Waters), EP Rules – 1986)
1.	Temperature	IS 3025 (Part 9):1984	28.5	°C	--
2.	Turbidity	IS 3025 (Part 10):1984	17.2	NTU	--
3.	pH	IS 3025 (Part 11):1983	7.8	-	6.0 to 9.0
4.	Dissolved Oxygen	IS 3025 (Part 38):1989	5.7	mg/L	Min. 3.0
5.	Biochemical Oxygen demand (At 27°C for 3 Days)	IS 3025 (Part 44):1993	BDL[DL=2]	mg/L	5.0
6.	Chemical Oxygen Demand	IS 3025 (Part 58) : 2006	8	mg/L	--
7.	Oil & Grease	IS 3025 (Part 39):1991	BDL[DL=2]	mg/L	10
8.	Nitrate as NO_3^--N	COMAPS, MOES, GOI	754	µg/L	--
9.	Phosphate as PO_4^{3-}-P	COMAPS, MOES, GOI	505	µg/L	--
10.	Silica as Si	COMAPS, MOES, GOI	9914	µg/L	--
11.	Mercury as Hg	APHA 22nd Ed. 3112 B	BDL[DL=0.006]	mg/L	--
12.	Cadmium as Cd	IS 6582 (Part 41):1992	BDL[DL=0.015]	mg/L	--
13.	Lead as Pb	IS 6582 (Part 47):1994	BDL[DL=0.6]	mg/L	--

BDL-Below Detection Limit **DL-Detection Limit**

Remark/ Statement of Conformity: *The given sample confirms with specifications as per standard tabulated above for set of analyzed parameters.*

Note:
1. Samples was collected using laboratory's SOP (UT/LQMS/SOP/W01A) based on CPCB's Guide Manual: Water & Wastewater Analysis, APHA 23rd Edition and IS3025 (Part 1).
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For ULTRA TECH,

Meghan Patil
Authorized Signatory

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TEST REPORT

ISSUED TO: LARSEN & TOUBRO LIMITED,CONSTRUCTION
PB No.979,Mount-poonamallee Road,Manapakkam,Chennai-600089
Project site:LE200137-Breakwater at Dabhol
AT & Post RGPPL, Anjanwel ,Tal-Guhaghar, Ratnagiri, Maharashtra

REPORT NO. : UT/ELS/REPORT/9068/11-2024
ISSUE DATE : 08/11/2024
YOUR REF. : LE/LE200137/WOD/24/000156
REF. DATE : 23/08/2024

SAMPLE PARTICULARS : **HARBOUR WATER QUALITY MONITORING SAMPLE**

Sampling Plan Ref. No. : 47-10/2024
Sampling Procedure : UT/LQMS/SOP/W01A
Sample Registration Date : 28/10/2024
Date & Time of Sampling : 24/10/2024 at 17:10Hrs
Analysis Starting Date : 28/10/2024
Analysis Completion Date : 08/11/2024
Sample Lab Code : UT/ELS/754/10-2024
Sample Collected By : ULTRA TECH ENVIRONMENTAL CONSULTANCY AND LABORATORY PVT. LTD.

Sample Type : Surface Marine Water
Sample Location : Seaside of TLOJ
Sample Quantity & Packing Details : 1L in Wide Mouth Glass Bottle for O&G, 300ml in BOD Bottle for DO, 2L in Plastic Container for other parameters

Sr. No.	Test Parameter	Test Method	Test Result	Unit	Standards Limits (Primary Water Quality Criteria for Class SW-IV Waters (For Harbour Waters), EP Rules – 1986)
1.	Temperature	IS 3025 (Part 9):1984	29.1	°C	--
2.	Turbidity	IS 3025 (Part 10):1984	17.9	NTU	--
3.	pH	IS 3025 (Part 11):1983	7.3	-	6.0 to 9.0
4.	Dissolved Oxygen	IS 3025 (Part 38):1989	5.6	mg/L	Min. 3.0
5.	Biochemical Oxygen demand (At 27°C for 3 Days)	IS 3025 (Part 44):1993	BDL[DL=2]	mg/L	5.0
6.	Chemical Oxygen Demand	IS 3025 (Part 58) : 2006	4.0	mg/L	--
7.	Oil & Grease	IS 3025 (Part 39):1991	BDL[DL=2]	mg/L	10
8.	Nitrate as NO_3^--N	COMAPS, MOES, GOI	728	µg/L	--
9.	Phosphate as PO_4^{3-}-P	COMAPS, MOES, GOI	328	µg/L	--
10.	Silica as Si	COMAPS, MOES, GOI	8874	µg/L	--
11.	Mercury as Hg	APHA 22nd Ed. 3112 B	BDL[DL=0.006]	mg/L	--
12.	Cadmium as Cd	IS 6582 (Part 41):1992	BDL[DL=0.015]	mg/L	--
13.	Lead as Pb	IS 6582 (Part 47):1994	BDL[DL=0.6]	mg/L	--

BDL-Below Detection Limit **DL-Detection Limit**

Remark/ Statement of Conformity: *The given sample confirms with specifications as per standard tabulated above for set of analyzed parameters.*

Note:
1. Samples was collected using laboratory's SOP (UT/LQMS/SOP/W01A) based on CPCB's Guide Manual: Water & Wastewater Analysis, APHA 23rd Edition and IS3025 (Part 1).
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For ULTRA TECH,

Meghan Patil
Authorized Signatory

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Tel: 022-45119250, 022-45119239 / ✆+91-7039076680 Email: lab@ultratech.in

TEST REPORT

ISSUED TO: LARSEN & TOUBRO LIMITED,CONSTRUCTION	**REPORT NO.**	:	UT/ELS/REPORT/9069/11-2024
PB No.979,Mount-poonamallee Road,Manapakkam,Chennai-600089	**ISSUE DATE**	:	08/11/2024
Project site:LE200137-Breakwater at Dabhol	**YOUR REF.**	:	LE/LE200137/WOD/24/000156
AT & Post RGPPL, Anjanwel ,Tal-Guhaghar, Ratnagiri, Maharashtra	**REF. DATE**	:	23/08/2024

SAMPLE PARTICULARS : **HARBOUR WATER QUALITY MONITORING SAMPLE**

Sampling Plan Ref. No.	:	47-10/2024	**Sample Type**	:	Surface Marine Water
Sampling Procedure	:	UT/LQMS/SOP/W01A	**Sample Location**	:	Near Break Water
Sample Registration Date	:	28/10/2024	**Sample Quantity & Packing Details**	:	1L in Wide Mouth Glass Bottle for O&G, 300ml in BOD Bottle for DO, 2L in Plastic Container for other parameters
Date & Time of Sampling	:	24/10/2024 at 17:40Hrs			
Analysis Starting Date	:	28/10/2024			
Analysis Completion Date	:	08/11/2024			
Sample Lab Code	:	UT/ELS/755/10-2024			
Sample Collected By	:	ULTRA TECH ENVIRONMENTAL CONSULTANCY AND LABORATORY PVT. LTD.			

Sr. No.	Test Parameter	Test Method	Test Result	Unit	Standards Limits (Primary Water Quality Criteria for Class SW-IV Waters (For Harbour Waters), EP Rules – 1986)
1.	Temperature	IS 3025 (Part 9):1984	28.3	°C	--
2.	Turbidity	IS 3025 (Part 10):1984	17.2	NTU	--
3.	pH	IS 3025 (Part 11):1983	7.8	-	6.0 to 9.0
4.	Dissolved Oxygen	IS 3025 (Part 38):1989	5.4	mg/L	Min. 3.0
5.	Biochemical Oxygen demand (At 27°C for 3 Days)	IS 3025 (Part 44):1993	BDL[DL=2]	mg/L	5.0
6.	Chemical Oxygen Demand	IS 3025 (Part 58) : 2006	12	mg/L	--
7.	Oil & Grease	IS 3025 (Part 39):1991	BDL[DL=2]	mg/L	10
8.	Nitrate as NO_3^--N	COMAPS, MOES, GOI	755	µg/L	--
9.	Phosphate as PO_4^{3-}-P	COMAPS, MOES, GOI	396	µg/L	--
10.	Silica as Si	COMAPS, MOES, GOI	9919	µg/L	--
11.	Mercury as Hg	APHA 22nd Ed. 3112 B	BDL[DL=0.006]	mg/L	--
12.	Cadmium as Cd	IS 6582 (Part 41):1992	BDL[DL=0.015]	mg/L	--
13.	Lead as Pb	IS 6582 (Part 47):1994	BDL[DL=0.6]	mg/L	--

BDL-Below Detection Limit **DL-Detection Limit**

Remark/ Statement of Conformity: *The given sample confirms with specifications as per standard tabulated above for set of analyzed parameters.*

Note:
1. Samples was collected using laboratory's SOP (UT/LQMS/SOP/W01A) based on CPCB's Guide Manual: Water & Wastewater Analysis, APHA 23rd Edition and IS3025 (Part 1).
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For **ULTRA TECH,**

Meghan Patil
Authorized Signatory

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Tel: 022-45119250, 022-45119239 / +91-7039076680 Email: lab@ultratech.in

TEST REPORT

ISSUED TO:	**LARSEN & TOUBRO LIMITED,CONSTRUCTION**	**ULR NO.**	:	
PB No.979,Mount-poonamallee Road,Manapakkam,Chennai-600089		**REPORT NO.**	:	UT/ELS/REPORT/ 9070 /11 - 2024
		ISSUE DATE	:	08/11/2024
For Project:	**LE200137-Breakwater at Dabhol**	**YOUR REF.**	:	LE/LE200137/WOD/24/000156
AT & Post RGPPL,Anjanwel ,Tal-Guhaghar, Ratnagiri, Maharashtra		**REF. DATE**	:	23/08/2024

SAMPLE PARTICULARS : **SEDIMENT SAMPLE ANALYSIS**

Sampling Plan Ref. No.:	47-10/2024	**Sample Type**	: Sediment
Sampling Procedure	UT/LQMS/SOP/S01A	**Sample Location**	: SEASIDE OF TLOI
Date & Time of Sampling	24/10/2024 17:15 Hrs.		
Sample Registration Date	28/10/2024		
Analysis Starting Date	28/10/2024		
Analysis Completion Date	08/11/2024	**Sample Quantity & Packaging Details**	: 1 Kg. in Ziplock Plastic Bag. (Approximately)
Sample Lab Code	UT/ELS/0756/10-2024		
Sample Collected By	ULTRA TECH ENVIRONMENTAL CONSULTANCY AND LABORATORY PVT. LTD.		

Sr. No.	Test Parameter	Test Method	Test Result	Unit
1	n-Hexane Extractable Material	US EPA SW 846, Method 9071B : 1998	0.2	%
2	Organic Carbon	IS 2720 (Part 22):1972-	0.7	%
3	Phosphates as PO_4	SOP No. UT/LQMS/SOP/S25	6	mg/kg
4	Nitrate as NO3--N	IS 14684:1999	6.8	mg/kg
5	Nitrite as NO2--N	IS 14684:1999	BDL[DL=2]	mg/kg
6	Hexavalent Cr	UT/LQMS/SOP/S35 & 38	2.7	mg/kg
7	Silica as SiO2	IS: 1527 - 1972	33.9	%
	Total Metals			
8	Arsenic as As	USEPA SW-846, Update V, Method 3050B & 7061A	BDL[DL=1]	mg/kg
9	Cadmium as Cd	SOP No. UT/LQMS/SOP/S35 & S37	BDL[DL=2]	mg/kg
10	Copper as Cu	SOP No. UT/LQMS/SOP/S35 & S37	47	mg/kg
11	Lead as Pb	SOP No. UT/LQMS/SOP/S35 & S37	BDL[DL=50]	mg/kg
12	Mercury as Hg	SOP No. UT/LQMS/SOP/S35 & S37	BDL[DL=3]	mg/kg

Remark/ Statement of Conformity: *Nil*

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4. Sample was collected using laboratory's SOP (UT/LQMS/SOP/S01A) based on Manual on Sampling, Analysis and Characterization of Hazardous Wastes, CPCB, New Delhi.

ULTRA TECH ENVIRONMENTAL CONSULTANCY AND LABORATORY PVT. LTD. ULTRA TECH

Authorized By:

Shailesh Salvi
Authorized Signatory

- END OF TEST REPORT -

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TEST REPORT

ISSUED TO: LARSEN & TOUBRO LIMITED,CONSTRUCTION
PB No.979,Mount-poonamallee Road,Manapakkam,Chennai-600089

For Project: LE200137-Breakwater at Dabhol
AT & Post RGPPL,Anjanwel ,Tal-Guhaghar, Ratnagiri, Maharashtra

ULR NO. :
REPORT NO. : UT/ELS/REPORT/ 9071 /11 -2024
ISSUE DATE : 08/11/2024
YOUR REF. : LE/LE200137/WOD/24/000156
REF. DATE : 23/08/2024

SAMPLE PARTICULARS :

Sampling Plan Ref. No.: : 47-10/2024
Sampling Procedure : UT/LQMS/SOP/S01A
Date & Time of Sampling : 24/10/2024 17:45 Hrs.
Sample Registration Date : 28/10/2024
Analysis Starting Date : 28/10/2024
Analysis Completion Date : 08/11/2024
Sample Lab Code : UT/ELS/0757/10-2024

SEDIMENT SAMPLE ANALYSIS

Sample Type : Sediment
Sample Location : NR BREAKWATER
Sample Quantity & Packaging Details : 1 Kg. in Ziplock Plastic Bag. (Approximately)

Sample Collected By : ULTRA TECH ENVIRONMENTAL CONSULTANCY AND LABORATORY PVT. LTD.

Sr. No.	Test Parameter	Test Method	Test Result	Unit
1	n-Hexane Extractable Material	US EPA SW 846, Method 9071B : 1998	0.3	%
2	Organic Carbon	IS 2720 (Part 22):1972	0.8	%
3	Phosphates as PO_4	SOP No. UT/LQMS/SOP/S25	5	mg/kg
4	Nitrate as NO3--N	IS 14684:1999	6.0	mg/kg
5	Nitrite as NO2--N	IS 14684:1999	BDL[DL=2]	mg/kg
6	Hexavalent Cr	UT/LQMS/SOP/S35 & 38	3.1	mg/kg
7	Silica as SiO2	IS: 1527 - 1972	36.8	%
	Total Metals			
8	Arsenic as As	USEPA SW-846, Update V, Method 3050B & 7061A	BDL[DL=1]	mg/kg
9	Cadmium as Cd	SOP No. UT/LQMS/SOP/S35 & S37	BDL[DL=2]	mg/kg
10	Copper as Cu	SOP No. UT/LQMS/SOP/S35 & S37	50	mg/kg
11	Lead as Pb	SOP No. UT/LQMS/SOP/S35 & S37	BDL[DL=50]	mg/kg
12	Mercury as Hg	SOP No. UT/LQMS/SOP/S35 & S37	BDL[DL=3]	mg/kg

Remark/ Statement of Conformity: *Nil*

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4. Sample was collected using laboratory's SOP (UT/LQMS/SOP/S01A) based on Manual on Sampling, Analysis and Characterization of Hazardous Wastes, CPCB, New Delhi.

ULTRA TECH ENVIRONMENTAL CONSULTANCY AND LABORATORY PVT. LTD.

Authorized By:

Shailesh Salvi
Authorized Signatory

– END OF TEST REPORT –

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TEST REPORT

ISSUED TO: LARSEN & TOUBRO LIMITED,CONSTRUCTION
PB No.979,Mount-poonamallee Road,Manapakkam,Chennai-600089
Project site:LE200137-Breakwater at Dabhol
AT & Post RGPPL, Anjanwel ,Tal-Guhaghar, Ratnagiri, Maharashtra

REPORT NO. : UT/ELS/REPORT/9065/11-2024
ISSUE DATE : 08/11/2024
YOUR REF. : LE/LE200137/WOD/24/000156
REF. DATE : 23/08/2024

SAMPLE PARTICULARS : **HARBOUR WATER QUALITY MONITORING - ECOLOGY**

Sampling Plan Ref. No. : 47-10/2024
Sample Registration Date : 28/10/2024
Date & Time of Sampling : 24/10/2024 at 17:10Hrs
Analysis Starting Date : 28/10/2024
Analysis Completion Date : 07/11/2024
Sample Lab Code : UT/ELS/751/10-2024

Sample Type : Marine (Biological)
Sample Location : MW01: Channel No 05 –Break water
Sample Quantity & Packing Details : 1 L PP bottle for Chlorophyll& Phaeophytin, 3X300 ml Glass Stoppard Bottle for Primary Productivity, 500 ml PP bottle for Phytoplankton and Zooplankton each, 125 ml PP bottle for Benthos.

Sample Collected By ULTRA TECH ENVIRONMENTAL CONSULTANCY AND LABORATORY PVT. LTD.

Sr. No.	Test Parameter	Test Method	Test Result	Unit	Recommended ranges of the Ecological Parameters for Arabian Sea
Biological Parameter:-					
1.	*Chlorophyll-a*	COMAPS, MOES, GOI	4.4	mg/m³	<4 [Oligotrophic Class of Water]
2.	*Phaeophytin*	COMAPS, MOES, GOI	0.8	mg/m³	<4 [Oligotrophic Class of Water]
3.	Primary Productivity - Gross	Gaarder and Gran (1927)	1300	mgC/m³/d	-
4.	Primary Productivity - Net	Gaarder and Gran (1927)	600	mgC/m³/d	[<1500 at class water]
5.	Biological productivity	IS 2720 (Part 22) : 1972	15	mgC/m²/d	-
6.	*Total Abundance of Phytoplankton*	COMAPS, MOES, GOI	710000	No./L	-
7.	*Total No. of Genus in Phytoplankton*	COMAPS, MOES, GOI	20	-	-
8.	*Zooplankton*	COMAPS, MOES, GOI	95	No./m³	-
9.	*Total No. of Genus in Zooplankton*	COMAPS, MOES, GOI	13	-	-
10.	*Total Abundance of Zooplankton*	COMAPS, MOES, GOI	87000	No./L	-
11.	*Benthos*	COMAPS, MOES, GOI	182	No/m²	-
12.	*Total No. of Genus in Benthos*	COMAPS, MOES, GOI	7	-	-

Opinions / Interpretations: *The given sample confirms with specifications as per standard tabulated above for set of analyzed parameters.*

Note:
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2. This test report may not be reproduced in part, without the permission of this laboratory.
3. Any correction invalidates this test report.
4. Refer Enclosure for Summary of Results.
5. Speciation of Phytoplankton, Zooplankton, Benthos observed are summarized as Enclosure I to III in sequence respectively.

– END OF REPORT –

For **ULTRA TECH,**

Meghan Patil
(Authorized Signatory)

Regd.: Unit No. 225, Jai Commercial Complex, Eastern Express Highway, Opp. Cadbury Factory, Khopat, Thane (W) 400 601, Maharashtra, India.
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GST: 27AADCU4659H1Z0 | CIN NO: U74900MH2023PTC415102 | UT - 008962
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Tel: 022-45119250, 022-45119239 / +91-7039076680 Email: lab@ultratech.in

TEST REPORT

ISSUED TO: LARSEN & TOUBRO LIMITED,CONSTRUCTION
PB No.979,Mount-poonamallee Road,Manapakkam,Chennai-600089
Project site:LE200137-Breakwater at Dabhol
AT & Post RGPPL, Anjanwel ,Tal-Guhaghar, Ratnagiri, Maharashtra

REPORT NO. : UT/ELS/REPORT/9066/11-2024
ISSUE DATE : 08/11/2024
YOUR REF. : LE/LE200137/WOD/24/000156
REF. DATE : 23/08/2024

SAMPLE PARTICULARS : **HARBOUR WATER QUALITY MONITORING - ECOLOGY**

Sampling Plan Ref. No. : 47-10/2024
Sample Registration Date : 28/10/2024
Date & Time of Sampling : 24/10/2024 at 17:40Hrs
Analysis Starting Date : 28/10/2024
Analysis Completion Date : 07/11/2024
Sample Lab Code : UT/ELS/752/10-2024

Sample Type : Marine (Biological)
Sample Location : MW02: Load Out Jetty Marine Side

Sample Quantity & Packing Details : 1 L PP bottle for Chlorophyll& Phaeophytin, 3X300 ml Glass Stoppard Bottle for Primary Productivity, 500 ml PP bottle for Phytoplankton and Zooplankton each, 125 ml PP bottle for Benthos.

Sample Collected By : ULTRA TECH ENVIRONMENTAL CONSULTANCY AND LABORATORY PVT. LTD.

Sr. No.	Test Parameter	Test Method	Test Result	Unit	Recommended ranges of the Ecological Parameters for Arabian Sea
Biological Parameter:-					
1.	*Chlorophyll-a*	COMAPS, MOES, GOI	3.8	mg/m³	<4 [Oligotrophic Class of Water]
2.	*Phaeophytin*	COMAPS, MOES, GOI	0.3	mg/m³	<4 [Oligotrophic Class of Water]
3.	Primary Productivity - Gross	Gaarder and Gran (1927)	1100	mgC/m³/d	-
4.	Primary Productivity - Net	Gaarder and Gran (1927)	480	mgC/m³/d	[<1500 at class water]
5.	Biological productivity	IS 2720 (Part 22) : 1972	20	mgC/m²/d	-
6.	*Total Abundance of Phytoplankton*	COMAPS, MOES, GOI	400000	No./L	-
7.	*Total No. of Genus in Phytoplankton*	COMAPS, MOES, GOI	10	-	-
8.	*Zooplankton*	COMAPS, MOES, GOI	75	No./m³	-
9.	*Total No. of Genus in Zooplankton*	COMAPS, MOES, GOI	10	-	-
10.	*Total Abundance of Zooplankton*	COMAPS, MOES, GOI	9800	No./L	-
11.	*Benthos*	COMAPS, MOES, GOI	120	No/m²	-
12.	*Total No. of Genus in Benthos*	COMAPS, MOES, GOI	5	-	-

Opinions / Interpretations: *The given sample confirms with specifications as per standard tabulated above for set of analyzed parameters.*

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4. Refer Enclosure for Summary of Results.
5. Speciation of Phytoplankton, Zooplankton, Benthos observed are summarized as Enclosure I to III in sequence respectively.

– END OF REPORT –

FOR ULTRA TECH,

Meghan Patil
(Authorized Signatory)

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ENCLOSURE- I

SPECIATION OF PHYTOPLANKTON SPECIES OBSERVED [OCTOBER- 2024]

Sr. No.	Phytoplankton Genera	MW-01 Channel No.5	MW-02 Load Out Jetty Marine Side
I	*Bacillariophyceae*		
1.	*Amphora*	+	+
2.	*Alexendrium*	+	-
3.	*Bacillaria*	+	+
4.	*Navicula*	+	+
5.	*Nitzschia*	+	+
6.	*Pinnularia*	+	-
II	*Coscinodiscophyceae*		
7.	*Bacillaria*	+	+
8.	*Bacteriastrum*	+	+
9.	*Coscinodiscus Sp.*	+	+
10.	*Coscinodiscus radiatus*	+	+
III	*Dinophyceae*		
11.	*Chaetoceros*	+	+
12.	*Dinophysis acuta*	+	-
13.	*Ceratium sp.*	+	+
14.	*Peridinium*	+	+
15.	*Gymnodinium*	+	-

Note: + : Present
- : Absent

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ENCLOSURE- II

SPECIATION OF ZOOPLANKTON SPECIES OBSERVED [OCTOBER 2024]

Sr. No.	Zooplankton Genera	MW-01 Channel No.5	MW-02 Load Out Jetty Marine Side
I	*Copepoda*		
1	*Acartia Sp.*	+	+
2	*Copepod Nauplius*	+	+
3	*Calanus Sp.*	+	+
II	*Decapoda*		
4	*Decapod Nauplius*	+	+
5	*Zoea Larvae*	+	-
6	*Decapod Sp.*	+	+
7	*Sagitta*	+	+
8	*Foraminifera*	+	+
9	*Barnacle nauplii*	-	+
10	*Gastropoda*	+	+
11	*Lingula Larvae*	+	-
12	*Polychaetes*	+	+
13	*Chironomus larvae*	-	-

Note: + : Present
- : Absent

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ENCLOSURE- III

SPECIATION OF BENTHOS SPECIES OBSERVED [OCTOBER 2024]

Sr. No	Benthos Genera		MW-01 Channel No.5	MW-02 Load Out Jetty Marine Side
	Phylum	Groups		
1.	Mollusca	*Gastropoda*	+	+
2.	Mollusca	*Pelecypods*	-	+
3.	Mollusca	*Bivalves*	+	-
4.	Chordata	*Fish Larvae*	+	-
5.	Annelida	*Polychaetes*	+	+
6.	Arthropoda	*Brachyura*	+	+
7.	Arthropoda	*Acetes indicus*	+	+

Note: + : Present
- : Absent

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ULR:TC515025000009314F

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▪ ENVIRONMENT ▪ FOOD ▪ TEXTILE

TEST REPORT

NAME & ADDRESS OF CUSTOMER:

M/s. Konkan LNG Limited
At post Anjanwel, Tal. Guhaghar, Dist. Ratnagiri, Maharashtra

REPORT NO : SAL/MSP19/FM01/05/AM(25-26-2083)
REPORT DATE : 09/05/2025
CUSTOMER REF : KLL/C&P/SFL065/2023-24/5300000424
REF DATE : 13/04/2024

SAMPLE TYPE: Ambient Air

SAMPLE REGISTRATION NO. : 05/AM(25-26-2083)
SAMPLING PLAN & METHOD NO.: As per Reference Method
SAMPLING DATE : 29/04/2025
SAMPLING TIME : 10:00:00
ANALYSIS START DATE : 01/05/2025
ANALYSIS COMPLETE DATE : 08/05/2025

LOCATION : LNG GATE NO. 1
COORDINATES : NA
SAMPLING DURATION : 24 HRS
SAMPLE COLLECTED BY : Mr.Pramod Sudokar (Skylab)
AMBIENT TEMPERATURE : 24°C To 39°C
HUMIDITY : 45% To 59%

Sr.No.	Test Parameters	Unit	Result	Norms #	Reference Method
1	Particulate Matter PM10	µg/m3	72.4	100	IS 5182 (Part-23)
2	Particulate Matter PM 2.5	µg/m3	38.6	60	IS:5182, (Part 24)
3	Sulphur Dioxide	µg/m3	19.7	80	IS 5182 (Part 2)
4	Nitrogen Oxides	µg/m3	38.2	80	IS: 5182, (Part-6)
5	Ozone	µg/m3	BDL(<20)	180	Method 411, Methods of Air Sampling and Analysis, 3rd Edition
6	Ammonia	µg/m3	30.1	400	Method 401, Methods of Air Sampling and Analysis, 3rd Edition
7	Benzene	µg/m3	BDL(<0.1)	5	IS 5182 (Part 11)
8	Benzo[a]Pyrene	ng/m3	BDL(<1)	1	IS 5182 (Part 12)
9	Lead	µg/m3	BDL(<0.1)	1	Method 822, Methods of Air Sampling and Analysis, 3rd Edition
10	Arsenic	ng/m3	BDL(<1)	6	Method 302, Methods of Air Sampling and Analysis,3rd Edition
11	Nickel	ng/m3	BDL(<0.5)	20	Method 822, Methods of Air Sampling and Analysis, 3rd Edition
12	Carbon Monoxide	ppm	0.45	NS	IS 5182 (Part 10)

ND: Not Detected. **NS:** Not Specified. As per NAAQMS Guidelines 2009

Opinion/Observation: Analyzed parameters in above tested sample are within standard limit as per NAAQMS Guidelines

Note : NA

Analyzed By

Tejashri Chavan
Sr Analyst

TC-5150

For SKYLAB ANALYTICAL LABORATORY

Dr.Datta Mandhare
(Authorized Signatory)

END OF REPORT

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TEST REPORT

NAME & ADDRESS OF CUSTOMER:

M/s. Konkan LNG Limited
At post Anjanwel, Tal. Guhaghar, Dist. Ratnagiri, Maharashtra

REPORT NO : SAL/MSP19/FM01/05/AM(25-26-2084)
REPORT DATE : 09/05/2025
CUSTOMER REF : KLL/C&P/SFL065/2023-24/5300000424
REF DATE : 13/04/2024

SAMPLE TYPE: Ambient Air

SAMPLE REGISTRATION NO. : 05/AM(25-26-2084)
SAMPLING PLAN & METHOD NO.: As per Reference Method
SAMPLING DATE : 29/04/2025
SAMPLING TIME : 10:20:00
ANALYSIS START DATE : 01/05/2025
ANALYSIS COMPLETE DATE : 08/05/2025

LOCATION : Fire & Safety / OHC Building
COORDINATES : NA
SAMPLING DURATION : 24 HRS
SAMPLE COLLECTED BY : Mr.Pramod Sudokar (Skylab)
AMBIENT TEMPERATURE : 24°C To 39°C
HUMIDITY : 45% To 59%

Sr.No.	Test Parameters	Unit	Result	Norms #	Reference Method
1	Particulate Matter PM10	µg/m3	73.4	100	IS 5182 (Part-23)
2	Particulate Matter PM 2.5	µg/m3	34.6	60	IS:5182, (Part 24)
3	Sulphur Dioxide	µg/m3	22.1	80	IS 5182 (Part 2)
4	Nitrogen Oxides	µg/m3	33.8	80	IS: 5182, (Part-6)
5	Ozone	µg/m3	BDL(<20)	180	Method 411, Methods of Air Sampling and Analysis, 3rd Edition
6	Ammonia	µg/m3	28.3	400	Method 401, Methods of Air Sampling and Analysis, 3rd Edition
7	Benzene	µg/m3	BDL(<0.1)	5	IS 5182 (Part 11)
8	Benzo[a]Pyrene	ng/m3	BDL(<1)	1	IS 5182 (Part 12)
9	Lead	µg/m3	BDL(<0.1)	1	Method 822, Methods of Air Sampling and Analysis, 3rd Edition
10	Arsenic	ng/m3	BDL(<1)	6	Method 302, Methods of Air Sampling and Analysis,3rd Edition
11	Nickel	ng/m3	BDL(<0.5)	20	Method 822, Methods of Air Sampling and Analysis, 3rd Edition
12	Carbon Monoxide	ppm	0.40	NS	IS 5182 (Part 10)

ND: Not Detected. **NS:** Not Specified. As per NAAQMS Guidelines 2009

Opinion/Observation: Analyzed parameters in above tested sample are within standard limit as per NAAQMS Guidelines

Note : NA

Analyzed By

Tejashri Chavan
Sr Analyst

TC-5150

For SKYLAB ANALYTICAL LABORATORY

Dr.Datta Mandhare
(Authorized Signatory)

END OF REPORT

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TEST REPORT

NAME & ADDRESS OF CUSTOMER:

M/s. Konkan LNG Limited
At post Anjanwel, Tal. Guhaghar, Dist. Ratnagiri, Maharashtra

REPORT NO : SAL/MSP19/FM01/05/AM(25-26-2085)
REPORT DATE : 09/05/2025
CUSTOMER REF : KLL/C&P/SFL065/2023-24/5300000424
REF DATE : 13/04/2024

SAMPLE TYPE: Ambient Air

SAMPLE REGISTRATION NO. : 05/AM(25-26-2085)
SAMPLING PLAN & METHOD NO.: As per Reference Method
SAMPLING DATE : 29/04/2025
SAMPLING TIME : 10:30:00
ANALYSIS START DATE : 01/05/2025
ANALYSIS COMPLETE DATE : 08/05/2025

LOCATION : 6.6 kV Substation
COORDINATES : NA
SAMPLING DURATION : 24 HRS
SAMPLE COLLECTED BY : Mr.Pramod Sudokar (Skylab)
AMBIENT TEMPERATURE : 24°C To 39°C
HUMIDITY : 45% To 59%

Sr.No.	Test Parameters	Unit	Result	Norms #	Reference Method
1	Particulate Matter PM10	µg/m3	67.1	100	IS 5182 (Part-23)
2	Particulate Matter PM 2.5	µg/m3	32.8	60	IS:5182, (Part 24)
3	Sulphur Dioxide	µg/m3	20.4	80	IS 5182 (Part 2)
4	Nitrogen Oxides	µg/m3	30.5	80	IS: 5182, (Part-6)
5	Ozone	µg/m3	BDL(<20)	180	Method 411, Methods of Air Sampling and Analysis, 3rd Edition
6	Ammonia	µg/m3	27.6	400	Method 401, Methods of Air Sampling and Analysis, 3rd Edition
7	Benzene	µg/m3	BDL(<0.1)	5	IS 5182 (Part 11)
8	Benzo[a]Pyrene	ng/m3	BDL(<1)	1	IS 5182 (Part 12)
9	Lead	µg/m3	BDL(<0.1)	1	Method 822, Methods of Air Sampling and Analysis, 3rd Edition
10	Arsenic	ng/m3	BDL(<1)	6	Method 302, Methods of Air Sampling and Analysis,3rd Edition
11	Nickel	ng/m3	BDL(<0.5)	20	Method 822, Methods of Air Sampling and Analysis, 3rd Edition
12	Carbon Monoxide	ppm	0.35	NS	IS 5182 (Part 10)

ND: Not Detected. **NS:** Not Specified. As per NAAQMS Guidelines 2009

Opinion/Observation: Analyzed parameters in above tested sample are within standard limit as per NAAQMS Guidelines

Note : NA

Analyzed By

Tejashri Chavan
Sr Analyst

TC-5150

For SKYLAB ANALYTICAL LABORATORY

Dr.Datta Mandhare
(Authorized Signatory)

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ULR:TC515025000009098F

TEST REPORT

NAME & ADDRESS OF CUSTOMER:

M/s. Konkan LNG Limited,
At post Anjanwel, Tal. Guhaghar, Dist. Ratnagiri,
Maharashtra

REPORT NO : SAL/MSP19/FM04/05/ANS(25-26-2089)
REPORT DATE : 06/05/2025
CUSTOMER REF : KLL/C&P/SFL065/2023-24/5300000424
REF DATE : 06/05/2025

SAMPLE TYPE: Ambient Noise-Spot

SAMPLE REGISTRATION NO. : 05/ANS(25-26-2089)
SAMPLE COLLECTED BY : Mr.Pramod Sudokar (Skylab)
SAMPLING PLAN & METHOD NO. : As per Reference Method
SAMPLING DATE : 29/04/2025

Sr. No.	Location Name	Sampling Time (Hrs)	Unit	Result	Reference Method
1	Near 6.6 kV Substation	10:40	dB (A)	69.1	IS 9989
2	Near 6.6 kV Substation	21:50	dB (A)	59.2	IS 9989
3	Near Fire & Safety / OHC Building	10:55	dB (A)	70.4	IS 9989
4	Near Fire & Safety / OHC Building	21:59	dB (A)	60.3	IS 9989

Opinion/Observation: Noise Level is meeting requirements as per CPCB Guidelines.
Note : NA

Category Area/Zone	Lmits in dB(A)	
	Day Time (6.00 Hrs to 22.00 Hrs	Night Time (22.00 Hrs to 6.00 Hrs
Industrial Area	75	70
Commercial Area	65	55
Residential Area	55	45
Silence Area	50	40

Analyzed By

Tejashri Chavan
Sr Analyst

TC-5150

For SKYLAB ANALYTICAL LABORATORY

Dr. Datta Mandhare
(Authorized Signatory)

END OF REPORT

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TEST REPORT

NAME & ADDRESS OF CUSTOMER:

M/s. Konkan LNG Limited
At post Anjanwel, Tal. Guhaghar, Dist. Ratnagiri, Maharashtra

REPORT NO : SAL/MSP19/FM02/05/DSM(25-26-2091)
REPORT DATE : 09/05/2025
CUSTOMER REF : KLL/C&P/SFL065/2023-24/5300000424

SAMPLE TYPE: DG Stack

SAMPLE REGISTRATION NO. : 05/DSM(25-26-2091)
SAMPLING PLAN & METHOD NO.: As per Reference Method
SAMPLING DATE : 29/04/2025
SAMPLING TIME : 11:10:00
ANALYSIS START DATE : 01/05/2025
ANALYSIS COMPLETE DATE : 08/05/2025

LOCATION : D.G.Stack (1010KVA)
SAMPLE COLLECTED BY : Mr.Pramod Sudokar (Skylab)
STACK HEIGHT FROM GL : 12 Meters
SHAPE OF STACK : Round
MATERIAL OF STACK : MS
FUEL USED(CONSUMPTION) : HSD

Sr.No.	Test Parameters	Unit	Result	Norms#	Reference Method
1	Dimensions of Stack	m	0.3	NA	-
2	C/s area of Stack	m2	0.071	NA	-
3	Temperature	°C	122	NA	IS – 11255 (Part 1)
4	Velocity	m/sec	8.5	NA	IS – 11255 (Part 1)
5	Flue Gas Discharge	Nm3/Hr	1635.5	NA	IS 11255 (Part 1)
6	Total Particulate Matter	mg/Nm3	50.2	150	IS – 11255 (Part 1)
7	Sulphur Dioxide	mg/Nm3	53.3	NS	IS 11255 (Part 2)
8	Sulphur Dioxide	Kg/Day	2.1	15	IS 11255 (Part 2)

ND: Not Detected. **NS:** Not Specified. As per MPCB Consent

Opinion/Observation: Analyzed parameters in above tested sample are within limit as per specified standard

Note : NA

Analyzed By

Tejashri Chavan
Sr Analyst

TC-5150

For SKYLAB ANALYTICAL LABORATORY

Dr.Datta Mandhare
(Authorized Signatory)

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TEST REPORT

NAME & ADDRESS OF CUSTOMER:

M/s. Konkan LNG Limited
At post Anjanwel, Tal. Guhaghar, Dist. Ratnagiri, Maharashtra

REPORT NO : SAL/MSP19/FM01/05/WM(25-26-2086)
REPORT DATE : 09/05/2025
CUSTOMER REF : KLL/C&P/SFL065/2023-24/5300000424
REF DATE : 13/04/2024

SAMPLE TYPE: Workplace Air

SAMPLE REGISTRATION NO. : 05/WM(25-26-2086)
SAMPLING PLAN & METHOD NO.: As per Reference Method
SAMPLING DATE : 29/04/2025
SAMPLING TIME : 11:20:00
ANALYSIS START DATE : 01/05/2025
ANALYSIS COMPLETE DATE : 08/05/2025

LOCATION : BOG Compressor Area
COORDINATES : NA
SAMPLING DURATION : 15 Minutes
SAMPLE COLLECTED BY : Mr.Pramod Sudokar (Skylab)
AMBIENT TEMPERATURE : 29°C To 32°C
HUMIDITY : 64% To 68%

Sr.No.	Test Parameters	Unit	Result	Norms #	Reference Method
1	Sulphur Dioxide	ppm	0.2	5	EPA Method No. 21
2	Nitrogen Oxides	ppm	0.2	5	EPA Method No.21
3	Carbon Monoxide	ppm	0.54	400	IS 5182 (Part 10)
4	Ammonia	ppm	ND	35	EPA Method No.21
5	Benzene	ppm	ND	25	EPA Method No.21
6	Benzo[a]Pyrene	ng /m3	BDL(<1)	NS	IS 5182 (Part 12)
7	Suspended Particulate Matter	µg/m3	68.7	NS	IS 5182 (Part 4)
8	Volatile Organic Compound (VOC)	ppm	0.2	NS	EPA Method No.21

ND: Not Detected. **NS:** Not Specified. As per Factories Act

Opinion/Observation: Analyzed parameters in above tested sample are within standard limit as per Factories Act

Note : NA

Analyzed By

Tejashri Chavan
Sr Analyst

TC-5150

For SKYLAB ANALYTICAL LABORATORY

Dr.Datta Mandhare
(Authorized Signatory)

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TEST REPORT

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At post Anjanwel, Tal. Guhaghar, Dist. Ratnagiri, Maharashtra

REPORT NO : SAL/MSP19/FM01/05/WM(25-26-2086)
REPORT DATE : 09/05/2025
CUSTOMER REF : KLL/C&P/SFL065/2023-24/5300000424
REF DATE : 13/04/2024

SAMPLE TYPE: Workplace Air

SAMPLE REGISTRATION NO. : 05/WM(25-26-2086)
SAMPLING PLAN & METHOD NO.: As per Reference Method
SAMPLING DATE : 29/04/2025
SAMPLING TIME : 11:20:00
ANALYSIS START DATE : 01/05/2025
ANALYSIS COMPLETE DATE : 08/05/2025

LOCATION : BOG Compressor Area
COORDINATES : NA
SAMPLING DURATION : 15 Minutes
SAMPLE COLLECTED BY : Mr.Pramod Sudokar (Skylab)
AMBIENT TEMPERATURE : 29°C To 32°C
HUMIDITY : 64% To 68%

Sr.No.	Test Parameters	Unit	Result	Norms #	Reference Method
1	Metal-Arsenic	ng /m3	BDL(<1)	NS	Method 302, Methods of Air Sampling and Analysis, 3rd Edition
2	Metal-Nickel	ng /m3	BDL(<0.5)	NS	Method 822, Methods of Air Sampling and Analysis, 3rd Edition
3	Ozone	mg/m3	0.033	0.6	Method 411, Methods of Air Sampling and Analysis, 3rd Edition
4	Lead	ppm	ND	NS	EPA Method-21

ND: Not Detected. **NS:** Not Specified. As per Factories Act

Opinion/Observation: Analyzed parameters in above tested sample are within standard limit as per Factories Act

Note : NA

Analyzed By

Tejashri Chavan
Sr Analyst

For SKYLAB ANALYTICAL LABORATORY

Dr.Datta Mandhare
(Authorized Signatory)

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TEST REPORT

NAME & ADDRESS OF CUSTOMER:

M/s. Konkan LNG Limited
At post Anjanwel, Tal. Guhaghar, Dist. Ratnagiri, Maharashtra

REPORT NO : SAL/MSP19/FM01/05/WM(25-26-2087)
REPORT DATE : 09/05/2025
CUSTOMER REF : KLL/C&P/SFL065/2023-24/5300000424
REF DATE : 13/04/2024

SAMPLE TYPE: Workplace Air

SAMPLE REGISTRATION NO. : 05/WM(25-26-2087)
SAMPLING PLAN & METHOD NO.: As per Reference Method
SAMPLING DATE : 29/04/2025
SAMPLING TIME : 11:50:00
ANALYSIS START DATE : 01/05/2025
ANALYSIS COMPLETE DATE : 08/05/2025

LOCATION : TLF Area
COORDINATES : NA
SAMPLING DURATION : 15 Minutes
SAMPLE COLLECTED BY : Mr.Pramod Sudokar (Skylab)
AMBIENT TEMPERATURE : 29°C To 32°C
HUMIDITY : 64% To 68%

Sr.No.	Test Parameters	Unit	Result	Norms #	Reference Method
1	Sulphur Dioxide	ppm	0.1	5	EPA Method No. 21
2	Nitrogen Oxides	ppm	0.1	5	EPA Method No.21
3	Carbon Monoxide	ppm	0.44	400	IS 5182 (Part 10)
4	Ammonia	ppm	ND	35	EPA Method No.21
5	Benzene	ppm	ND	25	EPA Method No.21
6	Benzo[a]Pyrene	ng /m3	BDL(<1)	NS	IS 5182 (Part 12)
7	Suspended Particulate Matter	µg/m3	61.7	NS	IS 5182 (Part 4)
8	Volatile Organic Compound (VOC)	ppm	0.1	NS	EPA Method No.21

ND: Not Detected. **NS:** Not Specified. As per Factories Act

Opinion/Observation: Analyzed parameters in above tested sample are within standard limit as per Factories Act

Note : NA

Analyzed By

Tejashri Chavan
Sr Analyst

TC-5150

For SKYLAB ANALYTICAL LABORATORY

Dr.Datta Mandhare
(Authorized Signatory)

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NAME & ADDRESS OF CUSTOMER:

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At post Anjanwel, Tal. Guhaghar, Dist. Ratnagiri, Maharashtra

REPORT NO : SAL/MSP19/FM01/05/WM(25-26-2087)
REPORT DATE : 09/05/2025
CUSTOMER REF : KLL/C&P/SFL065/2023-24/5300000424
REF DATE : 13/04/2024

SAMPLE TYPE: Workplace Air

SAMPLE REGISTRATION NO. : 05/WM(25-26-2087)
SAMPLING PLAN & METHOD NO.: As per Reference Method
SAMPLING DATE : 29/04/2025
SAMPLING TIME : 11:50:00
ANALYSIS START DATE : 01/05/2025
ANALYSIS COMPLETE DATE : 08/05/2025

LOCATION : TLF Area
COORDINATES : NA
SAMPLING DURATION : 15 Minutes
SAMPLE COLLECTED BY : Mr.Pramod Sudokar (Skylab)
AMBIENT TEMPERATURE : 29°C To 32°C
HUMIDITY : 64% To 68%

Sr.No.	Test Parameters	Unit	Result	Norms #	Reference Method
1	Metal-Arsenic	ng /m3	BDL(<1)	NS	Method 302, Methods of Air Sampling and Analysis, 3rd Edition
2	Metal-Nickel	ng /m3	BDL(<0.5)	NS	Method 822, Methods of Air Sampling and Analysis, 3rd Edition
3	Ozone	mg/m3	0.030	0.6	Method 411, Methods of Air Sampling and Analysis, 3rd Edition
4	Lead	ppm	ND	NS	EPA Method-21

ND: Not Detected. **NS:** Not Specified. As per Factories Act

Opinion/Observation: Analyzed parameters in above tested sample are within standard limit as per Factories Act

Note : NA

Analyzed By

Tejashri Chavan
Sr Analyst

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TEST REPORT

NAME & ADDRESS OF CUSTOMER:

M/s. Konkan LNG Limited
At post Anjanwel, Tal. Guhaghar, Dist. Ratnagiri, Maharashtra

REPORT NO : SAL/MSP19/FM01/05/WM(25-26-2088)
REPORT DATE : 09/05/2025
CUSTOMER REF : KLL/C&P/SFL065/2023-24/5300000424
REF DATE : 13/04/2024

SAMPLE TYPE: Workplace Air

SAMPLE REGISTRATION NO. : 05/WM(25-26-2088)
SAMPLING PLAN & METHOD NO.: As per Reference Method
SAMPLING DATE : 29/04/2025
SAMPLING TIME : 12:30:00
ANALYSIS START DATE : 01/05/2025
ANALYSIS COMPLETE DATE : 08/05/2025

LOCATION : Vaporizer Area
COORDINATES : NA
SAMPLING DURATION : 15 Minutes
SAMPLE COLLECTED BY : Mr.Pramod Sudokar (Skylab)
AMBIENT TEMPERATURE : 29°C To 32°C
HUMIDITY : 64% To 68%

Sr.No.	Test Parameters	Unit	Result	Norms #	Reference Method
1	Sulphur Dioxide	ppm	0.2	5	EPA Method No. 21
2	Nitrogen Oxides	ppm	0.2	5	EPA Method No.21
3	Carbon Monoxide	ppm	0.57	400	IS 5182 (Part 10)
4	Ammonia	ppm	ND	35	EPA Method No.21
5	Benzene	ppm	ND	25	EPA Method No.21
6	Benzo[a]Pyrene	ng /m3	BDL(<1)	NS	IS 5182 (Part 12)
7	Suspended Particulate Matter	µg/m3	70.2	NS	IS 5182 (Part 4)
8	Volatile Organic Compound (VOC)	ppm	0.3	NS	EPA Method No.21

ND: Not Detected. **NS:** Not Specified. As per Factories Act

Opinion/Observation: Analyzed parameters in above tested sample are within standard limit as per Factories Act

Note : NA

Analyzed By

Tejashri Chavan
Sr Analyst

TC-5150

For SKYLAB ANALYTICAL LABORATORY

Dr.Datta Mandhare
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TEST REPORT

NAME & ADDRESS OF CUSTOMER:

M/s. Konkan LNG Limited
At post Anjanwel, Tal. Guhaghar, Dist. Ratnagiri, Maharashtra

REPORT NO : SAL/MSP19/FM01/05/WM(25-26-2088)
REPORT DATE : 09/05/2025
CUSTOMER REF : KLL/C&P/SFL065/2023-24/5300000424
REF DATE : 13/04/2024

SAMPLE TYPE: Workplace Air

SAMPLE REGISTRATION NO. : 05/WM(25-26-2088)
SAMPLING PLAN & METHOD NO.: As per Reference Method
SAMPLING DATE : 29/04/2025
SAMPLING TIME : 12:30:00
ANALYSIS START DATE : 01/05/2025
ANALYSIS COMPLETE DATE : 08/05/2025

LOCATION : Vaporizer Area
COORDINATES : NA
SAMPLING DURATION : 15 Minutes
SAMPLE COLLECTED BY : Mr.Pramod Sudokar (Skylab)
AMBIENT TEMPERATURE : 29°C To 32°C
HUMIDITY : 64% To 68%

Sr.No.	Test Parameters	Unit	Result	Norms #	Reference Method
1	Metal-Arsenic	ng /m3	BDL(<1)	NS	Method 302, Methods of Air Sampling and Analysis, 3rd Edition
2	Metal-Nickel	ng /m3	BDL(<0.5)	NS	Method 822, Methods of Air Sampling and Analysis, 3rd Edition
3	Ozone	mg/m3	0.025	0.6	Method 411, Methods of Air Sampling and Analysis, 3rd Edition
4	Lead	ppm	ND	NS	EPA Method-21

ND: Not Detected. **NS:** Not Specified. As per Factories Act

Opinion/Observation: Analyzed parameters in above tested sample are within standard limit as per Factories Act

Note : NA

Analyzed By

Tejashri Chavan
Sr Analyst

For SKYLAB ANALYTICAL LABORATORY

Dr.Datta Mandhare
(Authorized Signatory)

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▪ ENVIRONMENT ▪ FOOD ▪ TEXTILE

ULR:TC515025000009099F

TEST REPORT

NAME & ADDRESS OF CUSTOMER:

M/s. Konkan LNG Limited,
At post Anjanwel, Tal. Guhaghar, Dist. Ratnagiri,
Maharashtra

REPORT NO : SAL/MSP19/FM04/05/WN(25-26-2090)
REPORT DATE : 06/05/2025
CUSTOMER REF : KLL/C&P/SFL065/2023-24/5300000424
REF DATE : 13/04/2024

SAMPLE TYPE: Workplace Noise

SAMPLE REGISTRATION NO. : 05/WN(25-26-2090)
SAMPLE COLLECTED BY : Mr.Pramod Sudokar (Skylab)

SAMPLING PLAN & METHOD NO. : As per Reference Method
SAMPLING DATE : 29/04/2025

Sr. No.	Location Name	Sampling Time (Hrs)	Unit	Result	Reference Method
1	BOG Compressor Area	10:05	dB (A)	73.2	IS 9989
2	BOG Compressor Area	22:10	dB (A)	67.5	IS 9989
3	Jetty Head	10:30	dB (A)	66.5	IS 9989
4	Jetty Head	22:18	dB (A)	63.1	IS 9989
5	TLF Area	10:58	dB (A)	77.2	IS 9989
6	TLF Area	22:25	dB (A)	69.2	IS 9989
7	Vaporizer Area	11:19	dB (A)	64.1	IS 9989
8	Vaporizer Area	22:37	dB (A)	60.3	IS 9989

Opinion/Observation: Noise Level is meeting requirements as per Maharashtra Factories Act Rule. Noise Level shall not exceed 90 dB(A).

Analyzed By

Tejashri Chavan
Sr Analyst

TC-5150

For SKYLAB ANALYTICAL LABORATORY

Dr.Datta Mandhare
(Authorized Signatory)

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TEST REPORT

NAME & ADDRESS OF CUSTOMER:

M/s. Konkan LNG Limited
At post Anjanwel, Tal. Guhaghar, Dist. Ratnagiri, Maharashtra

REPORT NO : SAL/MSP19/FM03/05/WW(25-26-1950)
REPORT DATE : 09/05/2025
CUSTOMER REF : KLL/C&P/SFL065/2023-24/5300000424
REF DATE : 13/04/2024

SAMPLE TYPE: Waste Water

SAMPLE REGISTRATION NO. : 05/WW(25-26-1950)
SAMPLING PLAN & METHOD NO.: IS 3025 Part 1
SAMPLING DATE : 29/04/2025
SAMPLING TIME : 10:50:00

ANALYSIS START DATE : 02/05/2025
ANALYSIS COMPLETE DATE : 08/05/2025

LOCATION : STP Outlet
SAMPLE SPECIFICATION : Waste Water
SAMPLE COLLECTED BY : Mr.Pramod Sudokar (Skylab)
SAMPLE QUANTITY : 1Ltr.
SAMPLE PACKING : Sealed

Sr.No.	Test Parameters	Unit	Result	Norms#	Reference Method
1	Total Suspended Solids (TSS)	mg/L	6	NS	IS 3025 (Part 17)
2	Chemical Oxygen Demand	mg/L	29	NS	IS 3025 (Part 58)
3	Bio Chemical Oxygen Demand (3 days at 27°C)	mg/L	7	NS	IS 3025 (Part 44)

ND: Not Detected. **NS:** Not Specified. As per MPCB Consent

Opinion/Observation: Analyzed parameters in above tested sample are within limit as per specified standard

Note : NA

Analyzed By

Tejashri Chavan
Sr Analyst

TC-5150

For SKYLAB ANALYTICAL LABORATORY

Dr.Datta Mandhare
(Authorized Signatory)

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Tel: 24010706/24010437
Fax: 24023516
Website: http://mpcb.gov.in
Email: cac-cell@mpcb.gov.in

Kalpataru Point, 2nd and 4th floor, Opp. Cine Planet Cinema, Near Sion Circle, Sion (E), Mumbai-400022

RED/L.S.I (R46)
No:- Format1.0/CAC/UAN No.0000138032/CE/2211000382

Date: 04/11/2022

To,
M/s. Konkan LNG Limited
Gate No. 1036,1037,1039,1040,Anjanvel, Guhagar,
Dist- Ratnagiri

Your Service is Our Duty

Sub: Grant of Consent to Establish for construction of balance work of Breakwater for LNG Terminal under Red/LSI

Ref:
1. Consent to Operate granted vide No. Format 1.0/CAC/UAN No. 00000092401/CR-2011000341 dated 12/11/2020
2. Environmental & CRZ clearance granted vide No. F.No. 10-28/2019-IA-III dated 07/4/2020
3. Minutes of Consent Appraisal Committee meeting dated 228/7/2022

Your application No.MPCB-CONSENT-0000138032 Dated 29.04.2022

For: grant of Consent to Establish under Section 25 of the Water (Prevention & Control of Pollution) Act, 1974 & under Section 21 of the Air (Prevention & Control of Pollution) Act, 1981 and Authorization under Rule 6 of the Hazardous & Other Wastes (Management & Transboundary Movement) Rules 2016 is considered and the consent is hereby granted subject to the following terms and conditions and as detailed in the schedule I, II, III & IV annexed to this order:

1. **The consent to establish is granted for a period up to commissioning of the unit or up to 5 year whichever is earlier.**
2. **The capital investment of the project is Rs.758.38 Crs. (As per C.A Certificate submitted by industry)**
3. **Consent is valid for handling of:**

Sr No	Product	Maximum Quantity	UOM
Products			
1	Construction of balance work of Breakwater for LNG Terminal (Length-2300 m, Height-21 m at Center, Width-80 m at the Bottom and with 8 m at the top surface	0	--NA--

4. **Conditions under Water (P&CP), 1974 Act for discharge of effluent:**

Sr No	Description	Permitted (in CMD)	Standards to	Disposal Path
1.	Trade effluent	0	As per Schedule-I	Not Applicable
2.	Domestic effluent	1	As per Schedule-I	Soaked in soak pit

5. **Conditions under Air (P& CP) Act, 1981 for air emissions:**

Sr No.	Stack No.	Description of stack / source	Number of Stack	Standards to be achieved
1	S-1	DG Set (20 KVA)	1	As per Schedule -II

6. **Non-Hazardous Wastes:**

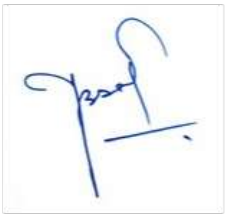
Sr No	Type of Waste	Quantity	UoM	Treatment	Disposal
NA					

7. **Conditions under Hazardous & Other Wastes (M & T M) Rules 2016 for treatment and disposal of hazardous waste:**

Sr No	Category No./ Type	Quantity	UoM	Treatment	Disposal
NA					

8. The Board reserves the right to review, amend, suspend, revoke this consent and the same shall be binding on the industry.
9. This consent should not be construed as exemption from obtaining necessary NOC/ permission from any other Government authorities.
10. The applicant shall comply with the conditions of the Environmental Clearance/CRZ granted vide letter No. F.No. 10-28/2019-IA-III dated 07/4/2020
11. The applicant shall obtain Consent to Operate from Maharashtra Pollution Control Board before actual commencement of the Unit/Activity.
12. This consent is issued as per the minutes of Consent Appraisal Committee meeting held on 28/7/2022

. This consent is issued as per communication letter dated 03/11/2022 which is approved by competent authority of the board.



Signed by: Dr. Y.B.Sontakke
Joint Director(WPC) & InCharge Of CAC-Cell
For and on behalf of,
Maharashtra Pollution Control Board
cac-cell@mpcb.gov.in
2022-11-04 18:54:06 IST

Received Consent fee of -

Sr.No	Amount(Rs.)	Transaction/DR.No.	Date	Transaction Type
1	1516760.00	TXN2205001358	19/05/2022	Online Payment

Copy to:

1. Regional Officer, MPCB, Kolhapur and Sub-Regional Officer, MPCB, Chiplun
- They are directed to ensure the compliance of the consent conditions.
2. Chief Accounts Officer, MPCB,Sion, Mumbai

SCHEDULE-I

Terms & conditions for compliance of Water Pollution Control:

1. A] Generation - As per your application the treated effluent generation is Nil.
   B] Treatment - NA
   C] Disposal - NA

2. A] As per your application, you have provided Septic Tank followed by Soak pit for the treatment of 1 CMD of sewage.

   B] The Applicant shall operate the sewage treatment system to treat the sewage so as to achieve the following standards.

Sr.No	Parameters	Standards (mg/l)	
1	Suspended Solids	Not to exceed	50 mg/l
2	BOD 3 days 27°C	Not to exceed	30 mg/l
3	COD	Not to exceed	100 mg/l

   C] The treated sewage shall be soaked in soak pit and overflow if any used on land for gardening within premise after confirming above standards. In no case, sewage shall find its way outside factory premises

3. The Board reserves its rights to review plans, specifications or other data relating to plant setup for the treatment of waterworks for the purification there of & the system for the disposal of sewage or trade effluent or in connection with the grant of any consent conditions. The Applicant shall obtain prior consent of the Board to take steps to establish the unit or establish any treatment and disposal system or an extension or addition thereto.
4. The industry shall ensure replacement of pollution control system or its parts after expiry of its expected life as defined by manufacturer so as to ensure the compliance of standards and safety of the operation thereof.
5. The Applicant shall comply with the provisions of the Water (Prevention & Control of Pollution) Act, 1974 and as amended, by installing water meters and other provisions as contained in the said act:

Sr. No.	Purpose for water consumed	Water consumption quantity (CMD)
1.	Industrial Cooling, spraying in mine pits or boiler feed	0.00
2.	Domestic purpose	2.00
3.	Processing whereby water gets polluted & pollutants are easily biodegradable	0.00
4.	Processing whereby water gets polluted & pollutants are not easily biodegradable and are toxic	0.00
5.	Gardening	0

6. The Applicant shall provide Specific Water Pollution control system as per the conditions of EP Act, 1986 and rule made there under from time to time/ Environmental Clearance/ CREP guidelines.

SCHEDULE-II

Terms & conditions for compliance of Air Pollution Control:

1. As per your application, you have proposed to provide the Air pollution control (APC) system and also to erect following stack (s) to observe the following fuel pattern:

Stack No.	Source	APC System provided/proposed	Stack Height(in mtr)	Type of Fuel	Sulphur Content(in %)	Pollutant	Standard
S-1	DG Set	Acoustic Enclosure	2.00	Diesel 5 Ltr/Hr	1	TPM	150 Mg/Nm^3
						SO2	2.4 Kg/Day

2. The Applicant shall provide Specific Air Pollution control equipments as per the conditions of EP Act, 1986 and rule made there under from time to time/ Environmental Clearance / CREP guidelines.
3. The Applicant shall obtain necessary prior permission for providing additional control equipment with necessary specifications and operation thereof or alteration or replacement/alteration well before its life come to an end or erection of new pollution control equipment.
4. The Board reserves its rights to vary all or any of the condition in the consent, if due to any technological improvement or otherwise such variation (including the change of any control equipment, other in whole or in part is necessary).

SCHEDULE-III

Details of Bank Guarantees:

Sr. No.	Consent (C2E/ C2O /C2R)	Amt of BG Imposed	Submission Period	Purpose of BG	Compliance Period	Validity Date
1	C to E	25 Lakh	15 Days	Towards compliance of consent to establish conditions	31/8/2027	28/2/2028

BG Forfeiture History

Srno.	Consent (C2E/C2O/C2R)	Amount of BG imposed	Submission Period	Purpose of BG	Amount of BG Forfeiture	Reason of BG Forfeiture
NA						

BG Return details

Srno.	Consent (C2E/C2O/C2R)	BG imposed	Purpose of BG	Amount of BG Returned
NA				

SCHEDULE-IV

General Conditions:

1. The Energy source for lighting purpose shall preferably be LED based
2. The PP shall harvest rainwater from roof tops of the buildings and storm water drains to recharge the ground water and utilize the same for different industrial applications within the plant
3. Conditions for D.G. Set
   a) Noise from the D.G. Set should be controlled by providing an acoustic enclosure or by treating the room acoustically.
   b) Industry should provide acoustic enclosure for control of noise. The acoustic enclosure/ acoustic treatment of the room should be designed for minimum 25 dB (A) insertion loss or for meeting the ambient noise standards, whichever is on higher side. A suitable exhaust muffler with insertion loss of 25 dB (A) shall also be provided. The measurement of insertion loss will be done at different points at 0.5 meters from acoustic enclosure/room and then average.
   c) Industry should make efforts to bring down noise level due to DG set, outside industrial premises, within ambient noise requirements by proper sitting and control measures.
   d) Installation of DG Set must be strictly in compliance with recommendations of DG Set manufacturer.
   e) A proper routine and preventive maintenance procedure for DG set should be set and followed in consultation with the DG manufacturer which would help to prevent noise levels of DG set from deteriorating with use.
   f) D.G. Set shall be operated only in case of power failure.
   g) The applicant should not cause any nuisance in the surrounding area due to operation of D.G. Set.
   h) The applicant shall comply with the notification of MoEFCC, India on Environment (Protection) second Amendment Rules vide GSR 371(E) dated 17.05.2002 and its amendments regarding noise limit for generator sets run with diesel.
4. The applicant shall maintain good housekeeping.
5. The non-hazardous solid waste arising in the factory premises, sweepings, etc. be disposed of scientifically so as not to cause any nuisance / pollution. The applicant shall take necessary permissions from civic authorities for disposal of solid waste.
6. The applicant shall not change or alter the quantity, quality, the rate of discharge, temperature or the mode of the effluent/emissions or hazardous wastes or control equipments provided for without previous written permission of the Board. The industry will not carry out any activity, for which this consent has not been granted/without prior consent of the Board.
7. The industry shall ensure that fugitive emissions from the activity are controlled so as to maintain clean and safe environment in and around the factory premises.
8. The industry shall submit quarterly statement in respect of industries obligation towards consent and pollution control compliance's duly supported with documentary evidences (format can downloaded from MPCB official site).
9. The industry shall submit official e-mail address and any change will be duly informed to the MPCB.
10. The industry shall achieve the National Ambient Air Quality standards prescribed vide Government of India, Notification No. B-29016/20/90/PCI-L dated. 18.11.2009 as amended.
11. The Board reserves its rights to review plans, specifications or other data relating to plant setup for the treatment of waterworks for the purification thereof & the system for the disposal of sewage or trade effluent or in connection with the grant of any consent conditions. The Applicant shall obtain prior consent of the Board to take steps to establish the unit or establish any treatment and disposal system or an extension or addition thereto.

12. The industry shall ensure replacement of pollution control system or its parts after expiry of its expected life as defined by manufacturer so as to ensure the compliance of standards and safety of the operation thereof.
13. The PP shall provide personal protection equipment as per norms of Factory Act 1948
14. Industry should monitor effluent quality, stack emissions and ambient air quality monthly/quarterly.
15. Whenever due to any accident or other unforeseen act or even, such emissions occur or is apprehended to occur in excess of standards laid down, such information shall be forthwith Reported to Board, concerned Police Station, office of Directorate of Health Services, Department of Explosives, Inspectorate of Factories and Local Body. In case of failure of pollution control equipments, the production process connected to it shall be stopped.
16. The applicant shall provide an alternate electric power source sufficient to operate all pollution control facilities installed to maintain compliance with the terms and conditions of the consent. In the absence, the applicant shall stop, reduce or otherwise, control production to abide by terms and conditions of this consent.
17. The industry shall recycle/reprocess/reuse/recover Hazardous Waste as per the provision contain in the Hazardous and Other Wastes (M & TM) Rules 2016, which can be recycled /processed /reused /recovered and only waste which has to be incinerated shall go to incineration and waste which can be used for land filling and cannot be recycled/reprocessed etc. should go for that purpose, in order to reduce load on incineration and landfill site/environment.
18. An inspection book shall be opened and made available to the Board's officers during their visit to the applicant.
19. Industry shall strictly comply with the Water (P&CP) Act, 1974, Air (P&CP) Act, 1981 and Environmental Protection Act, 1986 and industry specific standard under EP Rules 1986 which are available on MPCB website (www.mpcb.gov.in).
20. Separate drainage system shall be provided for collection of trade and sewage effluents. Terminal manholes shall be provided at the end of the collection system with arrangement for measuring the flow. No effluent shall be admitted in the pipes/sewers downstream of the terminal manholes. No effluent shall find its way other than in designed and provided collection system.
21. Neither storm water nor discharge from other premises shall be allowed to mix with the effluents from the factory.
22. The industry should not cause any nuisance in surrounding area.
23. The industry shall take adequate measures for control of noise levels from its own sources within the premises so as to maintain ambient air quality standard in respect of noise to less than 75 dB (A) during day time and 70 dB (A) during night time. Day time is reckoned in between 6 a.m. and 10 p.m. and night time is reckoned between 10 p.m. and 6 a.m.
24. The industry shall create the Environmental Cell by appointing an Environmental Engineer, Chemist and Agriculture expert for looking after day to day activities related to Environment and irrigation field where treated effluent is used for irrigation.
25. The applicant shall provide ports in the chimney/(s) and facilities such as ladder, platform etc. for monitoring the air emissions and the same shall be open for inspection to/and for use of the Board's Staff. The chimney(s) vents attached to various sources of emission shall be designated by numbers such as S-1, S-2, etc. and these shall be painted/ displayed to facilitate identification.

26. The industry should comply with the Hazardous and Other Wastes (M & TM) Rules, 2016 and submit the Annual Returns as per Rule 6(5) & 20(2) of Hazardous and Other Wastes (M & TM) Rules, 2016 for the preceding year April to March in Form-IV by 30th June of every year.
27. The applicant shall install a separate meter showing the consumption of energy for operation of domestic and industrial effluent treatment plants and air pollution control system. A register showing consumption of chemicals used for treatment shall be maintained.
28. The applicant shall bring minimum 33% of the available open land under green coverage/ plantation. The applicant shall submit a yearly statement by 30th September every year on available open plot area, number of trees surviving as on 31st March of the year and number of trees planted by September end.
29. The Board reserves its rights to review plans, specifications or other data relating to plant setup for the treatment of waterworks for the purification thereof & the system for the disposal of sewage or trade effluent or in connection with the grant of any consent conditions.
30. The firm shall submit to this office, the 30th day of September every year, the Environment Statement Report for the financial year ending 31st March in the prescribed FORM-V as per the provisions of Rule 14 of the Environment (Protection) (second Amendment) Rules, 1992.
31. You shall obtain necessary prior permission for providing additional control equipment with necessary specifications and operation thereof or alteration or shall ensure replacement of pollution control system or its parts after expiry of its expected life as defined by manufacturer so as to ensure the compliance of standards and safety of the operation thereof.
32. The Board reserves its rights to vary all or any of the condition in the consent, if due to any technological improvement or otherwise such variation (including the change of any control equipment, other in whole or in part is necessary).
33. The applicant shall provide facility for collection of environmental samples and samples of trade and sewage effluents, air emissions and hazardous waste to the Board staff at the terminal or designated points and shall pay to the Board for the services rendered in this behalf.

This certificate is digitally & electronically signed.

ROOT THINKERS PRIVATE LTD.

ERDMP CERTIFICATE

This Certificate has been issued to

M/S KONKAN LNG LIMITED,

P.O. : Anjanwel, Taluka : Guhagar,
Dist : RATNAGIRI - 415634.
MAHARASHTRA

On verification (Site Visit on 12th – 13th Aug.2024) of the entity's **"Emergency Response and Disaster Management Plan"** of **Konkan LNG Ltd, P.O.: Anjanwel, Taluka: Guhagar, Dist: Ratnagiri** which complies with the requirements of PNGRB Notification G.S.R.39 (E) PNGRB "Codes of Practices for Emergency Response and Disaster Management Plan (ERDMP) Regulations, 2010" and subsequent amendments thereof, till date.

Issued

AMARJIT SINGH BHATIA

Digitally signed by AMARJIT SINGH BHATIA
Date: 2024.09.11 13:31:37 +05'30'

Certificate No :	Date of Issue	Expiry Date	Amarjit Singh Bhatia
RTPL/PNGRB/ERDMP/C-158/2024-25	08.09.2024	13.08.2027	Director

112, Udyog Vihar Phase I, Gurgaon – 122 002
Telephone : +91 124 4060003/ +919711144925 / +919999624002 / +919930459345 / +919811200784
support@root-thinkers.in / Web site www.root-thinkers.in

ITEM NO.68.13

SUB: DROPPING OF APPROVED CSR PROJECTS FOR THE YEAR 2023-24 AND TAKING UP ADDITIONAL CSR PROJECTS IN FY 2024-25

The Board was informed about the status of CSR projects approved for FY 2023-24 and further informed that, out of two approved project(s) one of the projects in respect of "providing help for major civil repairing works of Zilla Parishad Primary Schools in Guhagar Taluka, Ratnagiri District" the allocated amount remained unspent by the agency. Further, a request from the office of District Zilla Parishad was received stating that the allocated amount for civil repair work for primary school may be utilized for development of two smart schools. The Board was briefed about the amount transferred to the agency, refund request made by the company before execution of the new projects and other related aspect in this regard.

It was further informed that CSR committee held during the earlier part of the day recommended for the approval of the Board for dropping of the existing project and allocate the same CSR budget for development of smart school(s). It was also proposed that interest income earned out of the unspent CSR amount may be utilized for CSR activities as per the provision of the Companies Act, 2013.

The Board after detailed deliberation approved the agenda and passed the following resolution(s):

"**RESOLVED THAT** pursuant to the provision of Section 135 & Schedule VII of the Companies Act, 2013 and Companies (Corporate Social Responsibility Policy) Rules, 2014 and any other applicable provision of the Companies Act and rules made thereunder (including any statutory modifications or re-enactment thereof for time being enforce), approval of the Board be and is hereby accorded for dropping of CSR Project with fund of Rs.46.00 lakhs from approved Annual CSR Action plan of FY 2022-23 (Ongoing projects) and taking up new CSR Project on Development of Two Smart Schools' with the same fund as proposed by Ratnagiri District Administration for the FY 2024-25 as detailed in the agenda note."

FURTHER RESOLVED THAT interest amount of Rs.6,01,756/- earned on CSR Fund deposit and an amount of Rs.40,079/- unutilized in the CSR Project on 'providing medical equipment to Civil Hospital, Ratnagiri' be allocated for CSR activities in the current year or transferred to National Fund as per Schedule VII of the Companies Act, 2013.

FURTHER RESOLVED THAT Chief Executive Officer or his authorized representative be and are hereby authorized to take all such steps, deeds and things as may be necessary to give effect to the above resolution."

Corporate Environmental Responsibility (CER) Till 2024-25.		
Sl. No.	**Description**	**Amount**
1	Total Amount Sanctioned	30,500,000
2	Amount spent on completed projects	7,169,057
3	Amount spent on ongoing projects	2,187,877
4	Amount to be spent on onging projects	8,751,507
5	Projects proposed to be spent but agreement not executed	8,213,606
	Balance Amount	**4,177,953**

महाराष्ट्र राज्य जैवविविधता मंडळ
MAHARASHTRA STATE BIODIVERSITY BOARD
(Established under section 22 of the Biological Diversity Act, 2002)
msbb.ngp@gmail.com; 0712-2522982 / 84; maharashtrabiodiversityboard.gov.in
जैवविविधता भवन,कदीमबाग,सिव्हीललाईन्स,नागपूरJaiv Vividhata Bhavan, Kadimbag, Civil Lines, Nagpur4

No. Desk-3/MSBB/ 1124 /2022-23
Nagpur 440 001, Dated 30 /12/2022

To,
Sr. Manager (TS),
Konkan LNG Limited,
Post Anjanwel, Taluka Guhagar, Distt. Ratnagiri

Sub :- Regarding validation of **Marine and Riparian Biodiversity Management Plan** submitted by Konkan LNG Ltd.

Ref :- 1. Your office letter dated 14/08/2021
2. This office letter No. MSBB/Desk-3/411/2020-21 dated 23/08/2021 to APCCF Mangrove Cell, Mumbai.
3. APCCF Mangrove Cell, Mumbai letter No. 1311, dated 18/10/2021
4.Environmental Clearance from MOEF & CC to KLPL dated 07/04/2020 (F. No. 10-28/2019-IA-III
5. This office letter No. 703, dated 10/11/2021
6. Your office letter dated 16/03/2022
7. This office letter no. 06, dated 04/04/2022 to APCCF Mangrove Cell, Mumbai.
8. Addl. Principal Chief Conservator of Forests, Mangrove Cell, Mumbai & Executive Director, Mangrove Foundation office letter No. MFN/ DDR & CB/253, dated 17/05/2022

With reference to above, you have submitted **"Marine and Riparian Biodiversity Management Plan"** for the construction of balance work of Breakwater for LNG Terminal at village Anjanwel Dabhol town, District Ratnagiri, Maharashtra by the name of M/s Konkan LNG Private Limited (KLPL) & which was considered by the Expert Appraisal Committee (Infra-2) in the Ministry of Environment and Forest & Climate Change in its 49th meeting held during 25-26 February, 2020.

2.00 The LNG Terminal at Dabhol is designed to supply 2.1 MMTPA of re-gasified LNG to the Dabhol Power Plant and the balance 2.9 MMTPA is for re-gasification and transportation to catchment gas markets through a pipeline network already laid for the purpose. The configuration of the entire Dabhol Project consists of a 1967 MW combined cycle power plant along with an integrated 5 MMTPA LNG Terminal located at Anjanwel, about 340 km by road to the south of Mumbai (India). This **"Marine and Riparian Biodiversity Management Plan"**was submitted to Addl. Principal Chief Conservator of Forests, Mangrove Cell, Mumbai & Executive Director, Mangrove Foundation office for details field survey and biological sustainable remarks regarding implementation of projects. It was also intimated that, what type of mitigation measures should be taken to conserve the biodiversity resources in the project area ?

3.00 On that basis, the Addl. Principal Chief Conservator of Forests, Mangrove Cell, Mumbai & Executive Director, Mangrove Foundation office vide reference letter no. 8 had submitted final reports to this office with imposing certain mitigation measures as a conditions & recommendations. As per the section 23 (e) of the Biological Diversity Act, 2002, this office is giving "**validation certificate**" to conduct the rest of work at Konkan LNG Limited at Post Anjanwel, Taluka Guhagar, Distt. Ratnagiri. Subject to following conditions:-

1. At the project site, during the construction work and even afterwards during regular operations, there are chances of accidental oil spills. Thus, it is suggested to include mitigation measures for oil spill incidences during and after the construction period at the project site.

2. The proposed extension of the trestle (break water) may change the current pattern in and around the study site. Guhagar beach is the nearest (within 10 km radius from the project site) Olive Ridley sea turtle nesting site where highest number of turtle nests have been recorded in Maharashtra. The probable change in the current pattern due to the construction activity may change the beach profile. Hence, it is suggested to study the change in the current patterns as a part of the management plan in relation to the beach profile of the Guhagar beach and report to this office and copy to Addl. Principal Chief Conservator of Forests, Mangrove Cell, Mumbai & Executive Director, Mangrove Foundation office.

3. Since, Konkan LNG Ltd., as a social responsibility regarding the project, will be taking up clean-up activities in the coastal areas of Anjanwel and Veldur, it is suggested that beach clean-up activities may also be taken up along the Guhagar beach during the December-January months which will contribute towards the turtle conservation programme at this site.

4. As mentioned in the "**Marine and Riparian Biodiversity Management Plan**", Konkan LNG Ltd., will be deploying an observer at the construction site to monitor the movement of marine animals like dolphins and sea turtles in the area. It is suggested that photographic documentation of these observed marine animals be carried out and information such as date and time of sighting, number of animals / birds sighted to be noted. This information could be submitted to this office and then forwarded to Addl. Principal Chief Conservator of Forests, Mangrove Cell, Mumbai & Executive Director, Mangrove Foundation office for a better understanding of these marine animals in the area.

5. Every due care and precaution is to be taken for the conservation of biological resources in the said project area. Maharashtra State Biodiversity Board validating Marine and Riparian Biodiversity Management Plan submitted by Konkan LNG Ltd. subject to the inclusion of above mentioned recommendations in the said plan by Konkan LNG Ltd.

You are requested to kindly follow the above conditions and sent progress report to this office time to time.

Srivastava 30/06/2022

(Praveen Srivastava)
Principal Chief Conservator of Forests
& Member Secretary
Maharashtra State Biodiversity Board

Copy submitted to Principal Secretary (Forests), Revenue and Forest Department, Mantralaya, Mumbai for information.

Copy to Chairman, Maharashtra State Biodiversity Board for information.

Copy to Principal Chief Conservator of Forests (Wildlife), Maharashtra State, Nagpur for information.

Copy to Addl. Principal Chief Conservator of Forests, Mangrove Cell, Mumbai & Executive Director, Mangrove Foundation office for information.

Copy to Chairman/Secretary, Biodiversity Management Committee, Anjanwel and Veldur taluka Guhagar, distt. Ratnagiri.

Copy to In charge Officer, Maharashtra State Biodiversity Board, Pune for information.

मुख्य अभियंता यांचे कार्यालय
सार्वजनिक बांधकाम प्रादेशिक विभाग, कोकण
मर्झबान रोड, फोर्ट, मुंबई ४०० ००१.

स्वातंत्र्याचा अमृत महोत्सव

E-mail : konkan.ce@mahapwd.gov.in | www.mahapwd.com | Phone : 022-22078511 | Fax : 022-22074700

जा.क्र.मुअ(को)/रेखाचित्र शाखा/१०१६ दिनांक -२६/०२/२०२४

प्रति,

वरिष्ठ अभियंता (टेक्निकल सर्व्हीस)
कोकण एलएनजी लिमिटेड,
पोस्ट अंजनवेल,
ता.गुहागर, जि.रत्नागिरी
पिन कोड ४१५ ६३४

विषय : **Validation of Traffic Management & Traffic Decongestion Plan**

संदर्भ :
१. आपले कार्यालयीन पत्र दि.२८.११.२०२३
२. अधीक्षक अभियंता, सा.बां.मंडळ, रत्नागिरी यांचे पत्र क्र.आरटीएन/पीडब्ल्यूसी/डीबी/३६६१, दि.२७.९.२०२१

उपरोक्त संदर्भित पत्रा क्र.१ अन्वये आपल्या कार्यालयामार्फत कळविण्यात आलेल्या पत्रानुसार अधीक्षक अभियंता, सा.बां.मंडळ, रत्नागिरी यांनी संदर्भित पत्रान्वये आपल्या प्रस्तावाची छाननी करुन Volume / Capacity ration 0.23 येत असून IRC-106-1990 नुसार Level of service – B- Very Good असून प्रस्ताव सर्वसाधारणपणे योग्य असल्याचे मत व्यक्त केले आहे. सदर पत्राची प्रत माहितीस्तव सोबत जोडण्यात येत आहे.

सोबत : संदर्भित पत्र क्र.२ ची प्रत

स्थळप्रत मु.अ.यांनी मंजूर केली आहे.

मुख्य अभियंता
सा.बां.प्रादेशिक विभाग,कोकण
मुंबई करिता

प्रत : अधीक्षक अभियंता, सा.बां.मंडळ, रत्नागिरी यांना माहितीसाठी रवाना

अधीक्षक अभियंता यांचे कार्यालय,

रत्नागिरी (सा.बां.) मंडळ,रत्नागिरी,

बांधकाम भवन, जयस्तंभ,

रत्नागिरी - ४१५ ६१२

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प्रति,

मा. मुख्य अभियंता,

सा.बां. प्रादेशिक विभाग, कोंकण,

बांधकाम भवन, ४ था मजला,

२५ मर्झबान रोड, फोर्ट,

मुंबई ४०० ००१.

विषय :- Validation of Traffic Management Plan बाबत.

संदर्भ :- आपले कार्यालयीन पत्र क्र. मुअ(कों)/प्रशा/का-१(१)/२३५७, दि. २५/०८/२०२१

उपरोक्त संदर्भीय पत्रान्वये Validation of Traffic Management Plan बाबत तपासणी करून अहवाल सादर करणेस कळविले होते.

त्यानुसार सदर सदर प्रस्तावाची तपासणी केली असता Volume/ Capacity ratio ०.२३ येत असून IRC- 106- 1990 नुसार **Level of service- B- Very Good** येत असून प्रस्ताव सर्वसाधारणपणे योग्य आहे.

सोबत - प्रस्ताव.

अधीक्षक अभियंता,

रत्नागिरी सा.बां.मंडळ, रत्नागिरी. करिता

स्थळ प्रतीवर अ.अ. यांची सही असे.

Konkan LNG Limited

Corporate Environment Policy

1. ENVIRONMENTAL POLICY STATEMENT

Konkan LNG Limited (KLL) is committed towards clean environment & Sustainable Development by planning activities on sound ecological principles, conserving Bio-diversity and bringing awareness among its stakeholders.

2. OBJECTIVES:

Konkan LNG Limited shall endeavor to:

(i) Conduct its operations in an environmentally responsible manner to comply with applicable laws and other requirements related to environmental aspects and Design projects with due consideration of Sustainable Development.

(ii) Prevent pollution of surrounding habitation by continuous monitoring and adopting suitable measures for environment protection.

(iii) Ensure compliance of all Environment Clearance (EC) conditions including Corporate Environment Responsibility Activities and other statutory conditions issued by regulatory agencies.

(iv) Implement Environment Management Plans (EMP) in all operations effectively to mitigate pollution of air, water, noise and land caused by LNG unloading & re-gasification operations.

(v) Strive to conserve bio-diversity

(vi) Conserve natural resources through the principle of reduce, reuse, recycle, redefine and replace. Put special thrust on efficient energy utilization as a measure to reduce carbon foot-print.

(vii) Create awareness about environment among the employees and the local communities through pro-active communication and training.

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कोंकण एलएनजी लि. / KONKAN LNG Ltd.
गेल जुबली टॉवर / GAIL Jubilee Tower,
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Strategy for implementation of Policy

Konkan LNG Limited subscribes to the view of Sustainable Development. Unless the environment can sustain the development activities, any pursuit of development in isolation can cause irreparable damage to the ecosystem and associated environmental attributes. Keeping in view, KLL attaches top priority towards eco-friendly sustainable development and environmental policy is framed accordingly.

KLL adopts the following strategies for effective implementation of Environmental Policy:

1. **Sustainable Development:**

(i) The project will be designed on the principal of Sustainable Development with due consideration to environment, safety and aspirations of the stakeholders at the planning stage itself.

(ii) While preparing the project report, the efforts will be made to incorporate latest technologies those are more environment friendly.

2. **Environmental Impact Assessment (EIA) & Environment Mitigation Plan (EMP):**

(i) LNG operations shall be carried out to facilitate the maintenance of stipulated environmental standards of quality of various parameters within the limits under the relevant acts & statutes.

(ii) EIA and EMP are formulated as per MOEF guide lines for obtaining Environmental Clearance (EC). The operations in LNG terminal shall be guided by the consent letters for air and water issued by Maharashtra State Pollution Control Board.

3. **Compliance of the statutory requirements:**

The implementation of EMP and fulfilment of all statutory requirements and conditions of Environmental Clearance and consent to establish & operate, including timely submission of returns to statutory bodies are to be ensured at all levels.

4. **Measures to mitigate pollution:**

a) **Air Pollution:** Green belt is to be created & to adopt suitable technologies.

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b) **Water Pollution:** The effluent shall be treated effectively to ensure the discharge norms as per stature. The treated effluent shall be utilized to the extent possible with a view to achieve maximum water conservation.

c) **Noise Pollution:** All measures to minimize noise pollution and protection thereof shall be taken.

d) Monitoring:

(i) The project will be monitored regularly to assess the efficacy of the pollution control / mitigation measures to ensure air and water quality and noise level within standards.

(ii) The compliance of conditions as stipulated in Environmental Clearance shall be monitored regularly and non-compliance, if any, will be reported & corrected.

(iii) Conservation of water through rain water harvesting shall be taken up.

(iv) Environmental initiatives and monitoring through Internal / External Environmental Audit shall be conducted for generating useful data for taking corrective actions and mitigation measures.

(v) The budget shall be kept based on the action plan including monitoring of various bench marks and the budget utilization accordingly.

(vi) Besides ensuring statutory compliance, KLL desires to set high standards and continual improvement.

(vii) The LNG terminal is certified under Integrated Management System - ISO 9001:2015 QMS, ISO 14001: 2015 EMS, OHSAS 18001: 2007

5. **Conservation of energy**: Energy saved is energy produced.

A system will be evolved to conduct regularly energy audit to take corrective actions to reduce carbon foot print.

6. **Environment Cell:** A dedicated environment cell shall be set up at LNG terminal, which shall be responsible for implementation of policy, statutes requirements and undertaking mitigation measures and intimate the status of implementation to the management.

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