

12.08.2024

To

The Director

MoEF Regional Office, Southern Zone ,
4th Floor, E&F wing , Kendriya Sadan,
Koramangala II Block,
Bangalore-560 034.

Dear Sir,

Sub: Proposed LuLu Mall and MLCP at Kottayam. Submission of Environment Monitoring Report for the half Yearly period from October 2023 to March 2024.-

Ref: Environmental Clearance. Identification No EC21A038KL164412 File No 21-96/2021-IA-III dated 24.12.2021.

The Environmental Clearance Compliance Report No 6 for the Half Yearly Period from October 2022 to March 2024 is submitted herewith. In this connection we also invite a reference to your letter No 2763/EC4/2023/SEIAA dated 03.07.2024. We have also compiled with your requirements.

Thanking You.

Yours truly,



Babu Varghese

Project Director

Encl: A/a

**HALF YEARLY COMPLIANCE REPORT (HYR)
ENVIRONMENT MONITORING COMPLIANCE REPORT OF STIPULATED
CONDITIONS OF ENVIRONMENTAL CLEARANCE. Identification No-
EC21A038KL164412 File No 21-96/2021-IA-III dated 24.12.2021.**

**Half Yearly Compliance Report No 6
For the period from October 2023 to March 2024.**

FOR

Proposed Commercial Building project along with MLCP building

KOTTAYAM

By

M/s. Lulu International Shopping Malls Pvt Limited

SUBMITTED TO:

MINISTRY OF ENVIRONMENT, FOREST, AND CLIMATE CHANGE (GOVT OF INDIA)

SUBMITTED BY:

M/s Lulu International Shopping Malls Pvt Limited

34/1000, NH-47, Edapally, Kochi- 682 024

www.lulumall.in

ENVIRONMENTAL CLEARANCE COMPLIANCE REPORT

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Chapter- 1 : INTRODUCTION

Environmental Clearance No 21-96/2021-IA-III was obtained via PARIVESH dated 24.12.2021. The project is for Construction of Proposed Commercial building project along with MLCP building at Nattakom Village, Kottayam Municipality, Kottayam Taluk & District, Kerala.

Methodology for Preparation of Report is as follows:

Study of EC Letter & Related Documents,
Site Visits by a Team of Experts,
Monitoring of Environment Parameters, viz. Ambient Air, Water, Noise, Soil & DG Sets,
Analysis of Samples collected during Monitoring,
Interpretation of Monitoring Results,
Preparation of Corrective Action & Preventive Action (CAPA) Plan to be followed in case the emission / effluent levels are beyond prescribed limits.

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CHAPTER 3-A. SPECIFIC CONDITIONS		COMPLIANCE
	CHAPTER 3. General and Specific Conditions.	
i	Abstraction of ground water shall be subject to the permission of Central Ground Water Authority (CGWA). Fresh water requirement shall not exceed 62 KLD during operational phase.	Presently no ground water abstraction is required for the project. We will obtain permission from CGWA if ground water extraction is required. The estimated freshwater requirement 62 KLD, prepared based on the National Building Code which will not exceed during operation phase.
ii	As proposed, wastewater shall be treated in an onsite STP of 140 KLD capacity. At least 105 KLD of treated water from the STP shall be recycled and re-used for flushing (93 KLD), gardening (1 KLD) and as make-up water for cooling towers attached with the HVAC system (11 KLD). There shall be no discharge of treated water outside the premises as committed.	Wastewater will be treated in an onsite STP only. An expert vendor M/s 'Green Method Engineering' appointed for the design, execution, and operation of the sewage treatment plant. The construction work of the designed 160 KLD capacity of sewage treatment plant is almost completed. The total allocated amount for the STP is Rs 1,77,12,456 INR. The photographs of the construction of STP are attached as ANNEXURE 1. The schematic diagram of the STP and the location of the STP is marked in the site plan were submitted to MOEF through the compliance report dated 14.06.2022. The STP treated water will be used for flushing, gardening and for makeup water for HVAC Cooling tower. There will be no discharge of treated water outside the premises. The water balance chart showing the usage of STP treated water also submitted to MOEF through provisions compliance report dated 14.06.2022.
iii	The project proponents would commission a third-party study on the implementation of conditions related to quality and quantity of recycle and reuse of treated water, efficiency of treatment systems, quality of treated water being supplied for flushing (specially the bacterial counts), comparative bacteriological studies from toilet scats using recycled treated waters and fresh waters for flushing, and quality of water being supplied through spray faucets attached to toilet seats.	An independent expert appointed for study on implementation of conditions related to quality and quantity of recycle and reuse of treated water, efficiency of treatment system, quality of treated water being supplied for flushing (specially the bacterial counts), comparative bacteriological studies from toilet scats using recycled treated water and fresh water for flushing and quality of water being supplied through spray faucets attached to toilets. The report from the expert is submitted to MOEF through EC compliance report dated 14.06.2022
iv	Area for greenery shall be provided as per the details provided in the project document i.e., area under plantation /	The greenery area will be as per the details provided in the project document submitted and ensured the minimum area requirement 4905m ² stated in the

	<p>greenery will be at least 4905 sqm. As proposed, at least 600 trees shall be maintained during the operation phase of the project. The landscape planning should include plantation of native species. A minimum of 01 tree for every 80 sqm. of land should be planted and maintained. The existing trees will be counted for this purpose. Plantations to be ensured species (cut) to species (planted). The species with heavy foliage, broad leaves and wide canopy cover are desirable. Water intensive and / or invasive species should not be used for landscaping.</p>	<p>condition. The proposed landscaping drawing and the tentative list of species were submitted to MOEF through the compliance report dated 14.06.2022.</p> <p>The selection of the species will be as per the recommendation of landscaping architect. The requirement of a minimum of one tree for every 80 M2 is followed. We will ensure plantation of ensured species (cut) to species (planted). Water intensive and invasive species are avoided in landscaping. Annexure 2</p>
v	<p>No tree can be felled / transplanted unless exigencies demand. Where absolutely necessary, tree felling shall be with prior permission from the concerned regulatory authority. Old trees should be retained based on girth and age regulations as may be prescribed by the Forest Department. Plantations to be ensured species (cut) to species (planted).</p>	<p>Noted. The Project proponent will obtain permission from the concerned regulatory authority for felling trees, if required. Old trees will be retained as far as possible. We will ensure plantations to the ensured species (cut) to species (planted).</p>
vi.	<p>Where the trees need to be cut with prior permission from the concerned local Authority, compensatory plantation in the ratio of 1:10 that is planting of 10 trees for every 1 tree that is cut) shall be done and maintained. Plantations to be ensured species (cut) to species (planted). Area for green belt development shall be provided as per the details provided in the project document.</p>	<p>In case trees are to be cut we will obtain prior permission from the concerned local authority and compensatory plantation will be done in the ratio 1:10. Plantations will be ensured from species (cut) to species (planted). Area for green belt development will be provided as per the details provided in the project document.</p>
vii	<p>The local bye-law provisions on rainwater harvesting should be followed. If local bye law provision is not available, adequate provision for storage and recharge should be followed as per the Ministry of Urban Development Model Building Bylaws, 2016. As proposed, RWH tank of total 200 KL capacity shall be provided by PP for rainwater harvesting after filtration.</p>	<p>The Kerala Municipal Building rule 2019 (Duly updated) is applicable for the project. As per the rule, the rainwater harvesting capacity requirement is 250 KL. The construction of the proposed 250 KL rainwater tank has been completed. The photography of the said underground tank and the plumbing works are attached as ANNEXURE 3. The schematic diagram and drawing showing location of rainwater harvesting tank submitted to MOEF through previous compliance report dated 14.06.2022.</p>

viii	<p>The solid waste shall be duly segregated into biodegradable and non-biodegradable components and handled in separate area earmarked for segregation of solid waste, as per SWM Rules, 2016. As committed, biodegradable waste shall be utilized through bio-gas generation unit. /bio-bin system to be installed within the site. Inert waste shall be disposed of as per norms at authorized site. The recyclable waste shall be sold to authorized vendors/recyclers Construction & Demolition (C&D) waste shall be segregated and managed as per C&D Waste Management Rules, 2016.</p>	<p>The solid is segregating into bio-degradable and non-bio-degradable components and handling in separate areas earmarked for segregation of solid as per SWM Rules. Biodegradable waste will be treated in a bio-bin system to be installed within the compound. We are also thinking of installation of an Organic Waste Converter. Inert waste will be disposed of as per authorized norms. The recyclable construction & demolition waste were segregated and managed as per C&D Waste Management Rules. The building debris was used for site development and for parking.</p> <p>The photographs of segregation of solid waste & bio-bin system is attached as ANNEXURE 4</p>
ix	<p>The PP shall provide electric charging points in parking areas for e-vehicles as committed.</p>	<p>Electric Charging Points are provided in parking areas for Electric Vehicles. The number of points provided is 48 points for four-wheelers and 5 points for two-wheelers. The location of the electric charging points is shown in the drawing attached as ANNEXURE 5.</p>
x	<p>As committed, roof top solar energy installation of at least 541kWp shall be implemented.</p>	<p>We have installed solar panels on the terrace and the capacity is 541 KWp. An amount of Rs 3.32 Crores allocated for the Solar installation. All Solar panels have been installed. The layout showing the location of solar panels at roof top submitted to MOEF through EC compliance report submitted on March 2023. The Photographs of Solar Panel installed is attached. Annexure 6</p>
xi	<p>The Environmental Clearance to the project is primarily under provisions of EIA Notification, 2006. The Project Proponent is under obligation to obtain approvals / clearances under any other Acts / Regulations or Statutes as applicable to the project.</p>	<p>The project proponent obtained the building permit from Kottayam municipal corporation and fire approval from Kerala fire and rescue department. The copies of these approvals are attached as ANNEXURE 7A, 7B.</p> <p>The 'Consent to establish' obtained from Kerala. PCB and submitted to MOEF through the compliance report dated 14.06.2022. We are in the process of obtaining Consent To Operate from the Kerala State Pollution Control Board.</p>

	<u>CHAPTER-4-B- STANDARD CONDITIONS</u>	
I	STATUTORY COMPLIANCE	
i	The project proponent shall obtain all necessary clearance / permission from all relevant agencies including town planning authority before commencement of work. All the construction shall be done in accordance with the local building bylaws.	We have obtained all permissions such as Building Permit, Initial Fire NOC, Consent to Establish, etc. The construction is done as per KMBR, NBC and BIS.
ii	The approval of the Competent Authority shall be obtained for structural safety of buildings due to earthquakes, adequacy of firefighting equipment etc. as per National Building Code including protection measures from lightening etc.	The Structural Designs of the building done by reputed Structural Engineer as per BIS. The structural stability certificate issued by the engineer was submitted to MOEF through compliance report dated 14.06.2022. NOC is obtained from local fire and rescue authorities. Annexure 8
iii	The project proponent shall obtain forest clearance under the provisions of Forest (Conservation) Act, 1980, in case of the diversion of forest land for non-forest purpose involved in the project.	Not applicable for this project.
iv	The project proponent shall obtain clearance from the National Board for Wildlife, if applicable.	Not applicable for this project.
v	The project proponent shall obtain Consent to Establish/Operate under the provisions of Air (Prevention & Control of Pollution) Act, 1981 and the Water (Prevention & Control of Pollution) Act, 1974 from the concerned State Pollution Control Board/Committee.	A revised consent obtained from Kerala PCB for the area of 29950.21 M2 (which environmental clearance obtained for the project) is submitted to MOEF through EC compliance report dated 14.06.2022.
vi	The project proponent shall obtain the necessary permission for drawl of ground water /surface water required for the project from the competent authority.	Presently Project does not require extraction of ground water. We will obtain permission from competent authority for extraction of ground water if required in future.
vii	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.	Kerala State Electricity Board is the agency for allocation and supply of power to the project. KSEB allocated 2500KVA power to the project through the letter number DB1/KSEB-NATKM/2021-22/68 dated 23/12/2021. The copy of the power allocation letter has been submitted to MOEF through previous compliance report dated 14.06.2022, Copy

		of the letter attached.
viii	All other statutory clearances such as the approvals for storage of diesel from Chief Controller of Explosives, Fire Department, Civil Aviation Department shall be obtained, as applicable, by project proponents from the respective competent authorities	We will obtain clearances from the Chief Controller of Explosives, if diesel storage tank is required, Civil Aviation Department, if required and also from Fire & Rescue Department. Presently we are not proposing any Diesel Storage Tank.
ix	The provisions of the Solid Waste Management Rules, 2016, e-Waste (Management) Rules, 2016, and the Plastics Waste Management Rules, 2016, shall be followed.	All provisions of the Solid Waste Management; E-Waste Management and Plastic Waste Management Rules of the year 2016 will be followed for the project during operation.
x	The project proponent shall follow the ECBC/ECBC- R prescribed by Bureau of Energy Efficiency, Ministry of Power strictly.	All the elements of the project including equipment are meeting the specification prescribed by Bureau of energy efficiency.
II	AIR QUALITY MONITORING AND PRESERVATION	
i.	Notification GSR 94(E) dated 25.01.2018 of MOEF & CC regarding Mandatory Implementation of Dust Mitigation Measures for Construction and Demolition Activities for projects requiring Environmental Clearance shall be complied with.	The Mandatory Implementation of Dust Mitigation Measures for Construction & Demolition Activities were be complied with as per the Notification GSR 94(E) dated 25.01.2018 of MOEF&CC.
ii	A management plan shall be drawn up and implemented to contain the current exceedance in ambient air quality at the site.	The Ambient Air Quality is closely monitored periodically. The reports show that the parameters are maintained and not exceeds the limit.
iii	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 PM2.5) covering upwind and downwind directions during the construction period.	The Ambient Air Quality will be monitored through NABL accredited laboratory. The copies of the report of air quality monitored are attached as ANNEXURE 10
iv	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	DG Sets are Enclosed Type for better acoustics conforming to the Rules made under Environment Protection Act. The Chimney Stack height was decided based on the combined capacity of all DG Sets. We will use HSD, which the available low Sulphur diesel in the market. The locations of the DG Sets were approved by KPCB. The DG set used

	low Sulphur diesel. The location of the DG sets may be decided with in consultation with State Pollution Control Board.	for construction work was with the acoustic enclosure and is being removed from the site now. Annexure 11
v	Construction site shall be adequately barricaded before the construction begins. Dust, smoke & other air pollution prevention measures shall be provided for the building as well as the site. These measures shall include screens for the building under construction, continuous dust / wind breaking walls all around the site (at least 3-meter height). Plastic / tarpaulin sheet covers shall be provided for vehicles bringing in sand, cement, murram and other construction materials prone to causing dust pollution at the site as well as taking out debris from the site.	The construction site was barricaded as per the condition stated, they are now removed. We ensured that the vehicles brought construction materials were covered with plastic / tarpaulin sheets. Hardly any building debris was taken out as we wanted it for site development. The photograph of the vehicle attached ANNEXURE 12
vi.	Sand, murram, loose soil, cement, stored on site shall be covered adequately so as to prevent dust pollution.	Stacks of sand, murram, loose soil, etc. stored at site were covered adequately to prevent dust pollution and cement was stacked at separate shed. A photograph showing the aggregates which properly covered is attached as ANNEXURE 13
vii	Wet jet shall be provided for grinding and stone cutting.	Stone cutting was minimum as we went for readymade tiles for most of the flooring / paving. Wet jet was provided for grinding and stone cutting when required.
viii.	Unpaved surfaces and loose soil shall be adequately sprinkled with water to suppress dust.	Unpaved surfaces and loose soil were sprinkled adequately with water to suppress dust
ix.	All construction and demolition debris shall be stored at the site (and not dumped on the roads or open spaces outside) before they are properly disposed. All demolition and construction waste shall be managed as per the provisions of the Construction and Demolition Waste Management Rules 2016.	No construction & demolition debris was dumped on the roads or open spaces outside the site. These were managed as per the provisions of the Construction & Demolition Waste Management Rules. Most of the building debris were used for site development.
x	The diesel generator sets to be used during construction phase shall be low	We are using HSD, low Sulphur diesel conforming to Environmental Protection prescribed for air &

	Sulphur diesel type and shall conform to Environmental (Protection) prescribed for air and noise emission standards.	noise emission standards.
xi	The gaseous emissions from DG set shall be dispersed through adequate stack height as per CPCB standards. Acoustic enclosure shall be provided to the DG sets to mitigate the noise pollution. Low Sulphur diesel shall be used. The location of the DG Set, and exhaust pipe height shall be as per the provisions of the Central Pollution Control Board (CPCB) norms.	We are ensuring: (a)The gaseous emissions from DG Sets are dispersed through adequate stack heights as per CPCB standards. (b)Acoustical enclosures are provided to DG Sets to mitigate the noise pollution. (c) Low Sulphur diesel is used. (d) The locations of DG Sets & exhaust pipe heights are as per the provisions of CPCB it has the approval from KSPCB.
xii.	For indoor air quality the ventilation provisions as per National Building Code of India.	The quality of ventilation provisions provided is as per National Building Code of India.
III	WATER QUALITY MONITORNG AND PRESERVATION	
i.	The natural drain system should be maintained for ensuring unrestricted flow of water. No construction shall be allowed to obstruct the natural drainage through the site, on wetland and water bodies. Check dams, bio-swales, landscape, and other sustainable urban drainage systems (SUDS) are allowed for maintaining the drainage pattern and to harvest rainwater.	The drains planned is not obstructing the natural flow of drain system and no construction is done to obstruct natural drainage through the site, on wetland and water bodies. Check dams, bio-swales, landscape, and other sustainable urban drainage systems are allowed for maintaining the drainage pattern and to harvest rainwater.
ii.	Buildings shall be designed to follow the natural topography as much as possible. Minimum cutting and filling should be done.	Buildings are designed with minimum cutting & filling, to the extent possible, so as to follow the natural topography as far as possible.
iii	The quantity of freshwater usage, water recycling and rainwater harvesting shall be measured and recorded to monitor the water balance as projected by the project proponent. The record shall be submitted to the Regional Office, MOEF & CC along with six monthly Monitoring reports.	The quantity of freshwater, recycled water, and rainwater harvesting will be measured and recorded to monitor the water balancing as projected in the application. This will be done during the operation phase. The report showing the usage of incorporating the water balance chart will be submitted to MOEF & CC through six monthly compliance report during operational phase.
iv.	A certificate shall be obtained from the local body supplying water, specifying the total annual water availability with the local authority, the quantity of water already committed, the quantity of water allotted to the project under	We have written to the local body supplying water, specifying the total annual water availability with the local authority, the quantity of water already committed, the quantity of water allotted to the project under consideration and the balance water

	consideration and the balance water available. This should be specified separately for ground water and surface water sources, ensuring that there is no impact on other users.	available. Presently we are not contemplating any ground water or surface water excepting rainwater.
V.	At least 20% of the open spaces as required by the local building bylaws shall be pervious. Use of Grass pavers, paver blocks with at least 50% opening, landscape etc. would be considered as pervious surface.	We are ensuring that at least 20% of the open spaces as required by the building bylaws will be previous. Requirement is: Land area = 35201M ² Open space required as per KMBR 35% = 12320.35 m ² 20% of the open space = 2464.07 m ² Proposed landscaping area = 4905 m ² i.e., more than required. We are also noticing that the percolation is very much limited due to the nature of soil.
vi.	Installation of dual pipe plumbing for supplying fresh water for drinking, cooking, and bathing etc. and other for supply of recycled water for flushing, landscape irrigation, car washing, thermal cooling, conditioning etc. shall be done.	Dual plumbing system is provided for domestic and other recycled water. A schematic diagram showing dual plumbing system is submitted to MOEF dated 14.06.2022 The photograph of dual plumbing system execution at site is attached as ANNEXURE 14
vii.	Use of water saving devices / fixtures (viz low flow flushing systems; use of low flow faucets tap aerators etc.) for water conservation shall be incorporated in the building plan.	The water saving devices & fixtures such as low flow systems, low flow faucets, tap aerators, etc. are provided in the project to reduce the water consumption.
viii.	Separation of grey and black water should be done by the use of dual plumbing system. In case of single stack system separate recirculation lines for flushing by giving dual plumbing system be done.	Separate grey and black water lines are provided in the building sewage system. The typical drainage drawings showing separate grey and black water lines are submitted to MOEF dated 14.06.2022. The water supply system is with dual plumbing system for recirculation lines and domestic water supply lines.
ix.	Water demand during construction should be reduced by use of pre-mixed concrete, curing agents and other best practices referred.	To adopt best practices, RMC (Ready Mixed Concrete) and curing agents were used for the construction works. A photograph showing the application of the curing agent and usage of ready-mix concrete at site is attached as ANNEXURE 15
x.	Rainwater harvesting recharge pits / storage tanks shall be provided for ground water recharging as per the CGWB norms.	We have provided Rainwater Harvesting and the total capacity of Rainwater Harvesting Tanks is 250 KL. We find that ground water recharging is difficult as the water table is very high during monsoon / rains.

xi.	A rainwater harvesting plan needs to be designed where the recharge bores of minimum one recharge bore per 5,000 square meters of built-up area and storage capacity of minimum one day of total freshwater requirement shall be provided. In areas where ground water recharge is not feasible, the rainwater should be harvested and stored for reuse. The ground water shall not be withdrawn without approval from the Competent Authority.	Adequate capacity of rainwater harvesting conforming to KMBR requirements are provided. No ground water will be drawn without the approval from the Competent Authority. The capacity of the rainwater harvesting system is 250 M3.
xii.	All recharges should be limited to shallow aquifer.	Noted. Whenever recharge is done it will be limited to shallow aquifer.
xiii.	No ground water shall be used during construction phase of the project.	Noted. No ground water is used during construction phase of the project.
xiv.	Any ground water dewatering should be properly managed and shall conform to the approvals and the guidelines of the CGWA in the matter. Formal approval shall be taken from the CGWA for any ground water abstraction or dewatering.	We have not done any ground water dewatering. If it is done it will be properly managed and shall conform to the approvals and guidelines of the CGWA in the matter and formal approval will be taken from CGWA for any groundwater extraction or dewatering.
xv.	The quantity of freshwater usage, water recycling and rainwater harvesting shall be measured and recorded to monitor the water balance as projected by the project proponent. The record shall be submitted to the Regional Office, MOEF&CC along with six monthly Monitoring reports.	We will measure the quantity of freshwater usage, water recycling & rainwater harvesting and record to monitor water balance. This will be incorporated in the half yearly compliance report to MOEF & CC.
xvi.	Sewage shall be treated in the STP with tertiary treatment.	The Sewage Treatment Plant (STP) is constructed with tertiary treatment only. The method is MBBR Technology.
xvii.	No sewage or untreated effluent water would be discharged through storm water drains.	We confirm that no sewage or untreated effluent water will be discharged through storm water drains. To monitor the water quality of natural storm water, drain adjacent to the plot, conducted water quality test through NABL accredited laboratory. The test results are attached as ANNEXURE 16 for both upstream and downstream of the drain abutting the plot.
xviii.	Onsite sewage treatment of capacity of treating 100% wastewater to be installed. The installation of the Sewage Treatment Plant (STP) shall be certified by an independent expert and a report in	We confirm that in-site sewage treatment having a capacity for treating 100% wastewater is installed. The installation of the Sewage Treatment Plant (STP) will be certified by an independent expert and

	this regard shall be submitted to the Ministry before the project is commissioned for operation. Treated wastewater shall be reused on site for landscape. Flushing, cooling tower, and other end-uses Excess treated water shall be discharged as per statutory norms notified by Ministry of Environment, Forest and Climate Change. Natural treatment systems shall be promoted.	a report in this regard will be submitted to the Ministry before the project is commissioned for operation. Treated wastewater will be reused on site for landscape, flushing, HVAC cooling tower, and other end-uses. Excess treated water will be discharged as per statutory norms notified by MOEF & CC.
xix.	Periodical monitoring of water quality of treated sewage shall be conducted. Necessary measures should be made to mitigate the odor problem from STP.	The quality of treated STP water will be monitored by conducting periodical tests during Operational phase and adequate measures will be taken to mitigate the odor.
xx.	Sludge from the onsite sewage treatment, including septic tanks, shall be collected, conveyed and disposed as per the Ministry of Urban Development, Central Public Health and Environmental Engineering Organization (CPHEEO) Manual on Sewerage and Sewage Treatment Systems, 2013.	Sludge from STP will be collected and disposed of as per Ministry of Urban Development, Central Public Health & Environmental Engineering Organization Manual on Sewerage and Sewerage Treatment Systems. This will be applicable during operation phase.
IV	NOISE MONITORING AND PREVENTION	
i.	Ambient noise levels shall conform to residential area / commercial area / industrial area / silence zone both during day and night as per Noise Pollution (Control and Regulation) Rules, 2000. Incremental pollution loads on the ambient air and noise quality shall be closely monitored during construction phase. Adequate measures shall be made to reduce ambient air and noise level during construction phase, so as to conform to the stipulated standards by CPCB / SPCB.	Ambient noise level is periodically monitored and test results are submitted along with half yearly compliance reports. So far we are within the permissible limits. We will take adequate measures to reduce ambient air and noise level during construction phase day and night, if the level exceeds the permissible limits, so as to conform to the stipulated standards by CPCB / SPCB and also to conform to Noise Pollution (Control & Regulation) Rules.
ii.	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.	The noise level survey conducted by NABL accredited laboratory is attached as ANNEXURE 17

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.	All DG Sets have acoustical enclosures. Noise barriers were provided during construction and ear plugs were used by operating personnel as mitigation measures for noise impact.
V	Energy Conservation measures:	
i.	Compliance with the Energy Conservation Building Code (ECBC) of Bureau of Energy Efficiency shall be ensured. Buildings in the States which have notified their own ECBC, shall comply with the State ECBC.	We will ensure compliance with the Energy Conservation Building Code (ECBC) of the Bureau of Energy Efficiency. In Kerala State there is no notification of their own. Annexure 18
ii.	Outdoor and common area lighting shall be LED.	We have provided LED Lights for outdoor & common area lighting.
iii.	Concept of passive solar design that minimize energy consumption in buildings by using design elements, such as building orientation, landscaping, efficient building envelope, appropriate fenestration, increased day lighting design and thermal mass etc. shall be incorporated in the building design. Wall, window, and roof u-values shall be as per ECBC specifications.	Concept of passive solar design that minimizes energy consumption in buildings by using design elements, such as building orientation, landscaping, efficient building envelope, appropriate fenestration, increased day lighting design and thermal mass etc. are incorporated in the building design to the extent possible. Wall, window, and roof u-values are as per ECBC specifications. OK
iv.	Energy conservation measures like installation of CFLs / LED for the lighting the area outside the building should be integral part of the project design and should be in place before project commissioning.	Energy conservation measures like installation of CFLs / LED for lighting the area outside the building, etc. are integral part of the project design and it is already in place.
v.	Solar, wind or other Renewable Energy shall be installed to meet electricity generation equivalent to 1% of the demand load or as per the state level / local building byelaws requirement, whichever is higher.	As per specific condition 10, solar panels are installed and the capacity is 541 KWp, which is more than 1% of demand load.
vi.	Solar power shall be used for lighting in the apartment to reduce the power load or grid. Separate electric meter shall be installed for solar power Solar water heating shall be provided to meet 20% of the hot water demand of the commercial and institutional building or as per the requirement of the local building byelaws, whichever is higher. Residential buildings are also recommended to meet its hot water.	We are utilizing maximum energy from solar plant. of capacity 541kWp. As insisted by KSEB we are providing separate metering for solar energy for monitoring the usage.

	Demand from solar water heaters, as far as possible.	
VI	WASTE MANAGEMENT	
i.	A certificate from the competent authority handling municipal solid wastes, indicating the existing civic capacities of handling and their adequacy to cater to the M.S.W generated from project shall be obtained.	We have requested the local Municipality to issue a certificate indicating the existing civic capacity of handling and their adequacy to cater the waste generated by from our project.
ii.	Disposal of muck during construction phase shall not create any adverse effect on the neighboring communities and be disposed taking the necessary precautions for general safety and health aspects of people, only in approved sites with the approval of competent authority.	Best practices / technology was adopted for construction work so that the muck creation is minimum. We ensure that disposal of muck during construction phase did not create any adverse effect on the neighboring communities and were disposed of after taking the necessary precautions for general safety and health aspects of people and only in approved sites. There is absolutely no complaints from the locals.
iii.	Separate wet and dry bins must be provided in each unit and at the ground level for facilitating segregation of waste. Solid waste shall be segregated into wet garbage and inert materials.	We have provided separate wet and dry garbage rooms and from the units it will be brought down in separate bins and dumped into the respective rooms, facilitating segregation of waste. Solid waste is being segregated into wet garbage and inert materials.
iv.	Organic waste compost / Vermiculture pit / Organic Waste Converter within the premises with a minimum capacity of 0.3 kg / person / day must be installed.	Organic Waste Converter of adequate capacity is being installed within the premises.
v.	All non-biodegradable waste shall be handed over to authorized recyclers for which a written tie up must be done with the authorized recyclers.	All non-biodegradable waste will be handed over to authorized recyclers; we will have a written tie up with the authorized recyclers.
vi.	Any hazardous waste generated during construction phase, shall be disposed of as per applicable rules and norms with necessary approvals of the State Pollution Control Board.	No hazardous waste generated during construction phase and if generated will be disposed of as per applicable rules and norms with necessary approvals of the State Pollution Control Board.
vii.	Use of environment friendly materials in bricks, blocks and other construction materials, shall be required for at least 20% of the construction material quantity. These include Fly Ash bricks, hollow bricks, AACs, Fly Ash Lime Gypsum blocks, Compressed earth	We encouraged use of environment friendly materials such as Fly Ash Bricks, hollow bricks, AACs, Fly Ash Cement, etc.

	blocks, and other environment friendly materials.	
viii.	Fly ash should be used as building material in the construction as per the provision of Fly Ash Notification of September 1999 and amended as on 27 August 2003 and 25th January 2016. Ready mixed concrete must be used in building construction.	Fly ash were used as building material in the construction as per the provision of Fly Ash Notification. Mostly we are using Ready mixed concrete only.
ix.	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.	All waste from construction & demolition activities were managed so as to strictly conform to the Construction & Demolition Waste Management Rules. Most of the construction debris were used for site development.
x.	Used CFLs and TFLs should be properly collected and disposed of / sent for recycling as per the prevailing guidelines / rules of the regulatory authority to avoid mercury contamination.	Used CFLs and TFLs will be properly collected and disposed of as per the prevailing guidelines / rules of the regulatory authority to avoid mercury contamination.
VII	GREEN COVER	
i.	Topsoil should be stripped to a depth of 20 cm from the areas proposed for buildings, roads, paved areas, and external services. It should be stockpiled appropriately in designated areas and reapplied during plantation of the proposed vegetation on site.	Topsoil was be stacked separately and used for gardening to the extent possible as advised by the specialist garden contractor.
VIII	TRANSPORT	
i.	A comprehensive mobility plan, as per MOUD best practices guidelines (URDPFI), shall be prepared to include motorized, non-motorized, public, and private networks. Road should be designed with due consideration for environment, and safety of users. The road system can be designed with these basic criteria.	Noted. We have prepared a plan, and it will be followed. Once the Mall is opened, we will modify the plans, if required. Roads are designed with due consideration for environment, and safety of users.
a.	Hierarchy of roads with proper segregation of vehicular and pedestrian traffic.	Vehicular Traffic and Pedestrian Traffic are segregated.
b.	Traffic calming measures.	Traffic calming measures will be taken.
c.	Proper design of entry and exit points.	Entry & Exit points designed properly and will obtain approval concerned authorities.
d.	Parking norms as per local regulation.	We have provided more than more parkin than what is required as per local norms.
ii.	Vehicles hired for bringing construction	We ensured that:

	material to the site should be in good condition and should have a pollution check certificate and should confirm to applicable air and noise emission standards to be operated only during non-peak hours.	<p>1. Vehicles hired are in good condition.</p> <p>2. Vehicles have Pollution Check Certificate conforming to applicable air & noise emission standards.</p> <p>The copy of PUC certificates attached as ANNEXURE 19</p>
iii	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.	We will arrange a detailed traffic management & traffic decongestion study and arrange to improve the traffic pattern. We will associate with the concerned departments for this.
IX	HUMAN HEALTH ISSUES	
i.	All workers working at the construction site and involved in loading, unloading, carriage of construction material and construction debris or working in any area with dust pollution shall be provided with dust mask.	All workers working at the construction site involved in loading, unloading, carriage of construction material and construction debris or working in any area with dust pollution are provided with dust mask. Photograph of workers using dust mask, safety harness etc. are attached as ANNEXURE 20
ii.	For indoor air quality the ventilation provisions as per National Building Code of India.	Ventilation Provisions are as per National Building Code of India for indoor air quality.
iii	Emergency preparedness plan based on the Hazard identification and Risk Assessment (HIRA) and Disaster Management Plan shall be implemented.	An emergency preparedness plan based on the Hazard identification and Risk Assessment (HIRA) and Disaster Management Plan will be implemented. We will also plan occasional drill for evacuation.
iv.	Provision shall be made for the housing of construction labor within the site with all necessary infrastructure and	As the site is not suitable for labor colony, we are not allowing any labor to stay at site. We ensured

	facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, creche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.	that the contractors make own arrangement nearby for labor colony near to the site; we also ensured that within the labor colony, necessary infrastructure & facilities such as fuel for cooking, toilets facilities, drinking water, health care, creche (If lady workers are employed), etc. were provided.
v.	Occupational health surveillance of the workers shall be done on a regular basis.	We ensured that occupational health surveillance of the workers are done on regular intervals.
vi.	A First Aid Room shall be provided in the project both during construction and operations of the project.	Noted and complied with. A well-equipped First Aid Room was provided at the project site. Photograph is attached as ANNEXURE 21
X	MISCELLANEOUS	
i.	The project proponent shall prominently advertise it at least in two local newspapers of the District or State, of which one shall be in the vernacular language within seven days indicating that the project has been accorded environment clearance and the details of MoEFCC / SEIAA website where it is displayed.	This is already done. Copies of paper cuttings submitted to MOEF through the compliance report dated 14.06.2022.
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 are submitted to the Municipality with a request to display the same. Copy of the receipt from Kottayam Municipality submitted to MOEF through the compliance report dated 14.06.2022.
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.	Noted. We will upload the status of compliance of the stipulated environment clearance conditions including results of monitored data on the website and update it on half yearly basis.
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.	Noted. We will submit half yearly reports on the status of compliances of environmental conditions on the website of MOEF & CC.
v.	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	We have set up an Environment Monitoring Cell and they looked after all the requirements and any issue is reported to higher management for corrective action / rectification. The company policy

	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.	is to follow the best practices for Environmental Safety & Security. As the project is situated within the town and on the national highway the possibility of violation of norms of wildlife, forest, etc. is less. The copy of the EMC meeting dated 30.12.2022 is attached as ANNEXURE 22 . Change the date as required.
vi.	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.	This project is controlled / monitored directly by the Regional Head Office. The Environmental Cell Consists of 1. Mr. Sadik Kasim, Commercial Manager as Chairman; 2. Mr. Babu Varghese, Project Director as Member; 3. Mr. Paul K Olekkengil, General Manager as Member, 4. Mr. Midhun Chullickal, Legal Officer as Member and 5. Mr. Beshy Kuriakose Project Manager as Member Secretary.
vii.	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 ear marked 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.	The above Committee is responsible for the implementation of EMP and Environmental Conditions. The responsibility matrix and other details were worked out in consultation with top management.
viii.	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.	We have noted and will do it during the operation phase.
ix.	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	We confirm that we will 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.

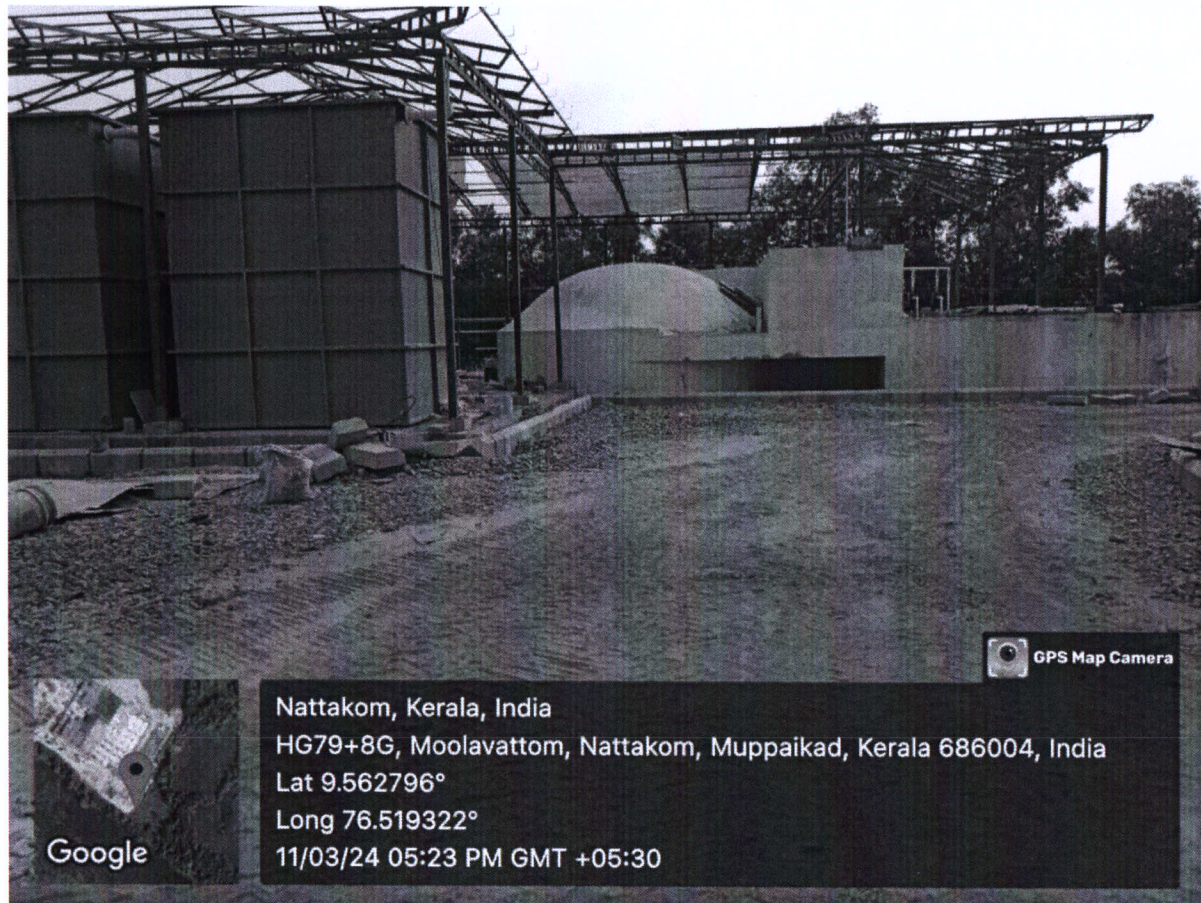
	production operation by the project.	
x.	The project authorities must strictly adhere to the stipulations made by the State Pollution Control Board and the State Government.	We confirm that we will strictly adhere to the stipulations made by the State Pollution Control Board and the State Government.
xi.	The project proponent shall abide by all the commitments recommendations made in the EIA / EMP report and also that during their presentation to the Expert Appraisal Committee.	We will abide by all the commitments & recommendations made in the EIA / EMP reports and during its presentation to the Expert Appraisal Committee.
xii.	No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment, Forest, and Climate Change (MoEF&CC).	Noted. In case of any further expansion or modifications in the plant prior approval from MoEF & CC will be obtained.
xiii.	Concealing factual data or submission of false / fabricated data may result in revocation of this environmental clearance and attract action under the provisions. Environment (Protection) Act, 1986.	Noted.
xiv.	The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.	Noted.
xv.	The Ministry reserves the right to stipulate additional conditions if found necessary The Company in a time bound manner shall XV implement these conditions.	Noted.
xvi.	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.	Noted. We will extend full support & cooperation to the Officers of the Regional Office by furnishing the requisite data, information and monitoring reports.
xvii.	The above conditions shall be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Art, 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	Noted please.

	and any other Court of Law relating to the subject matter.	
xviii	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 please.



Babu Varghese
Project Director

Annexure 1

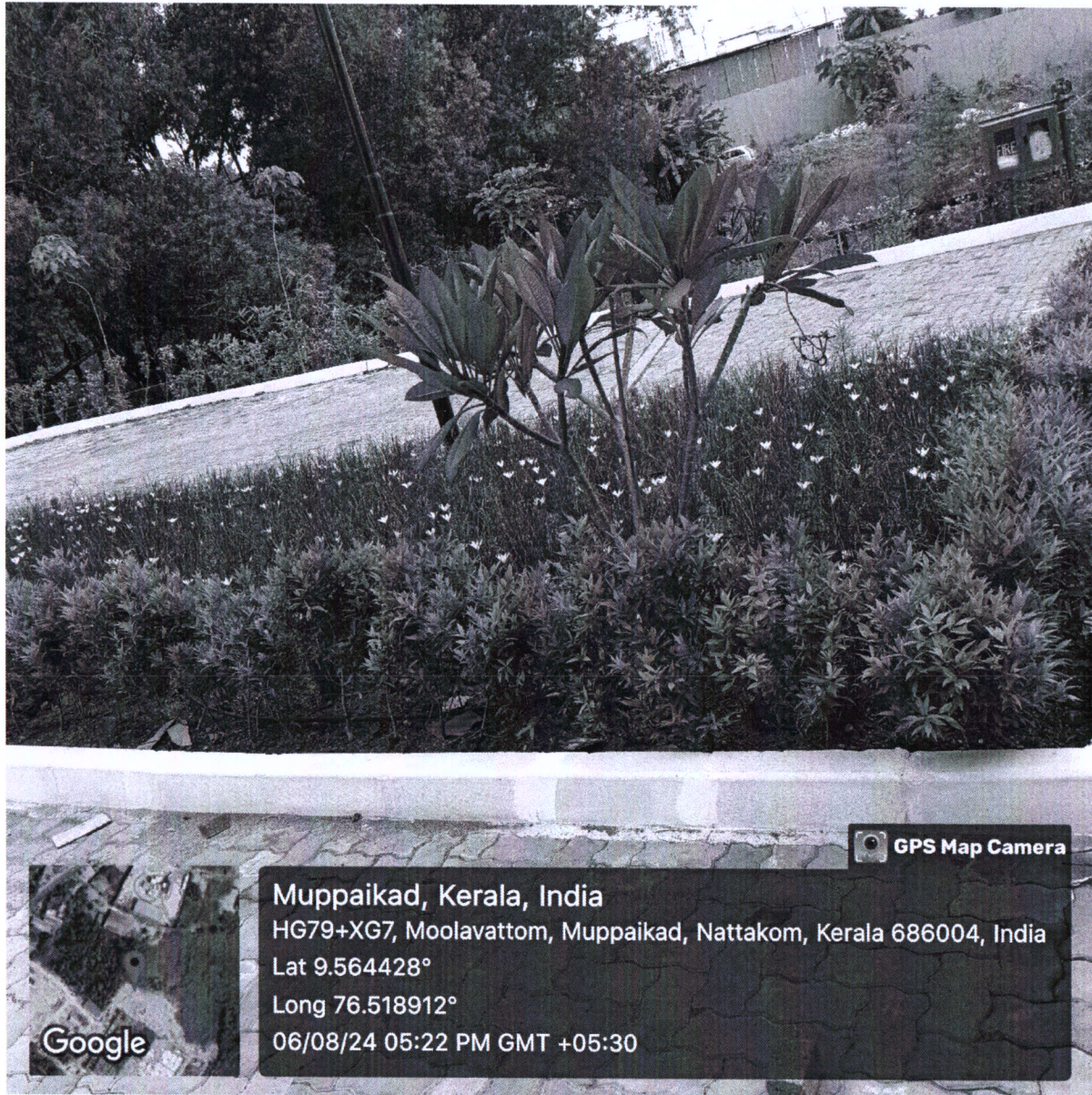


Google

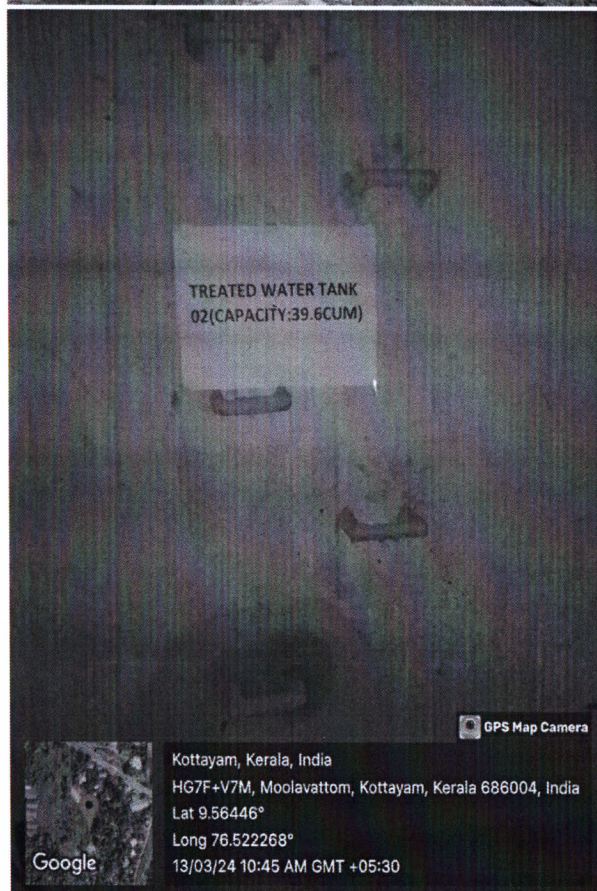
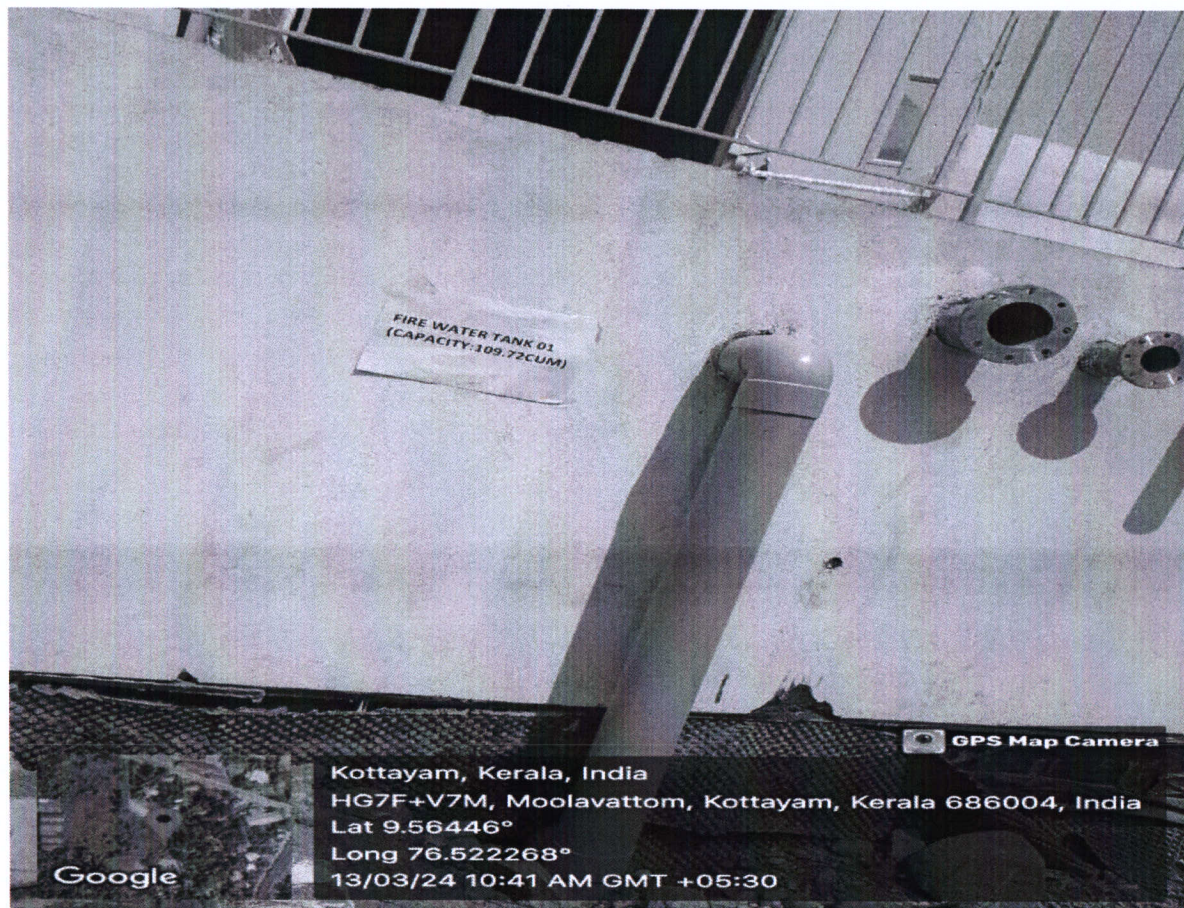
Nattakom, Kerala, India
HG79+8G, Moolavattom, Nattakom, Muppaikad, Kerala 686004, India
Lat 9.562796°
Long 76.519322°
11/03/24 05:23 PM GMT +05:30

GPS Map Camera

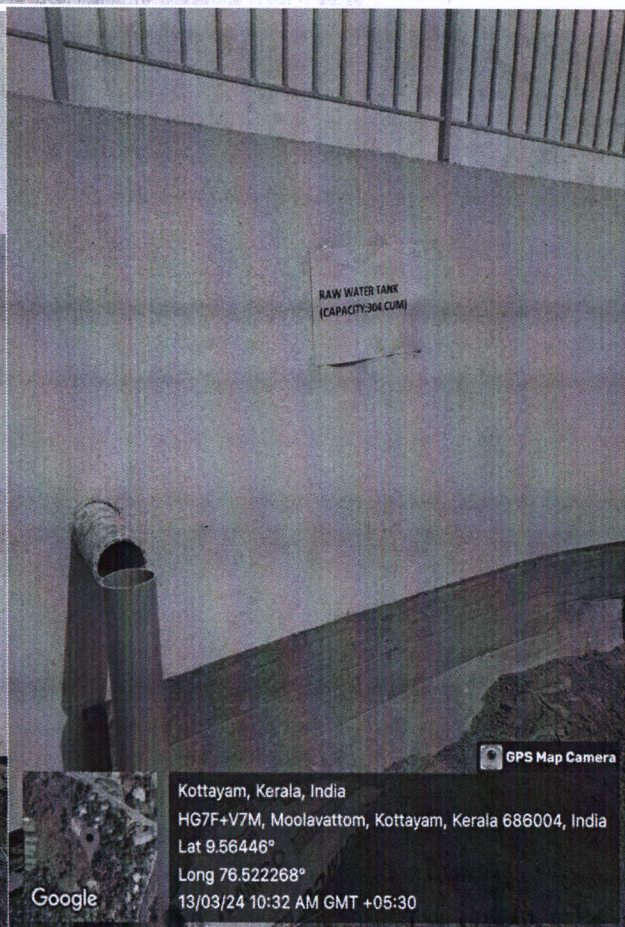


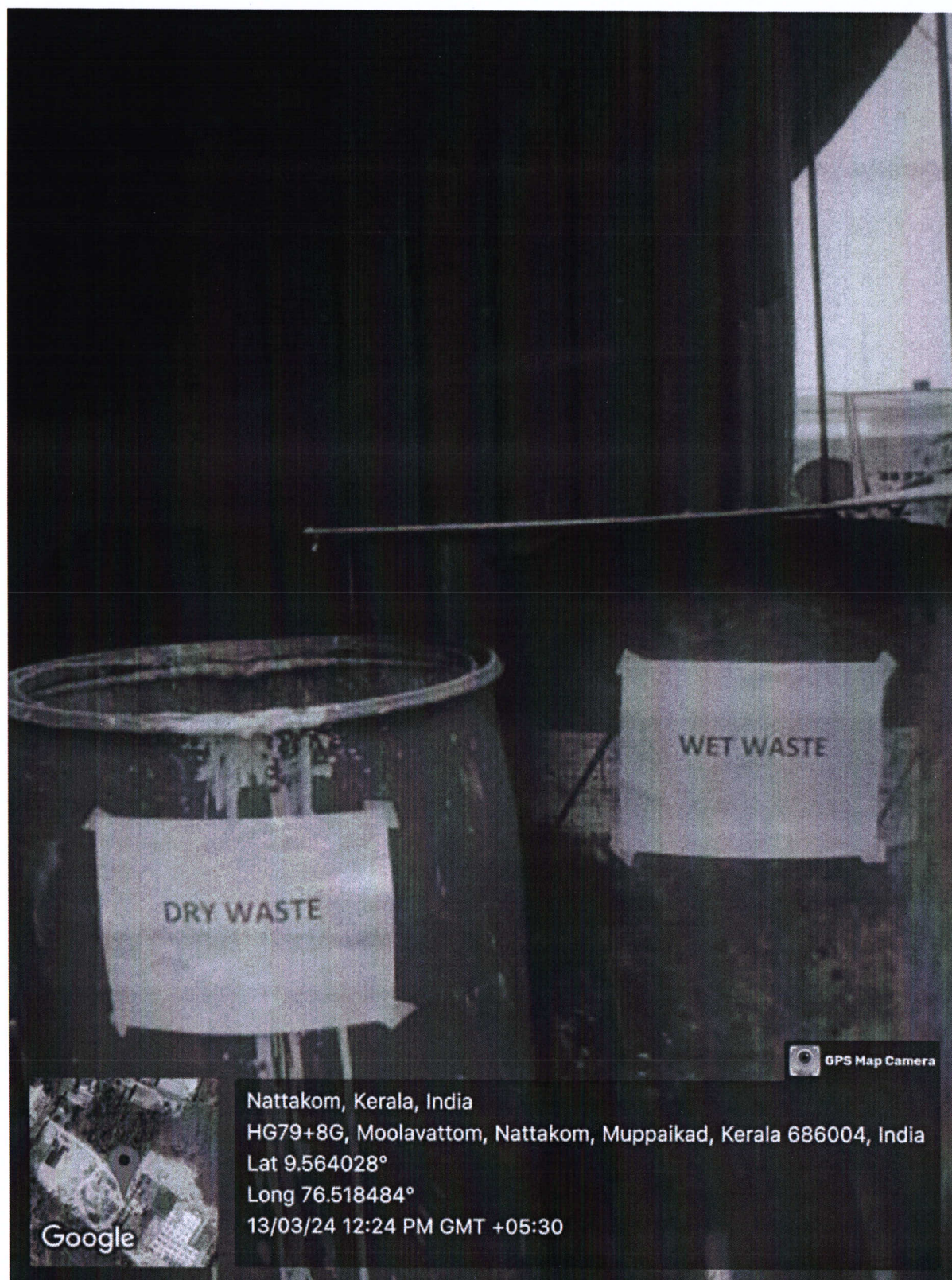


Annexure 3



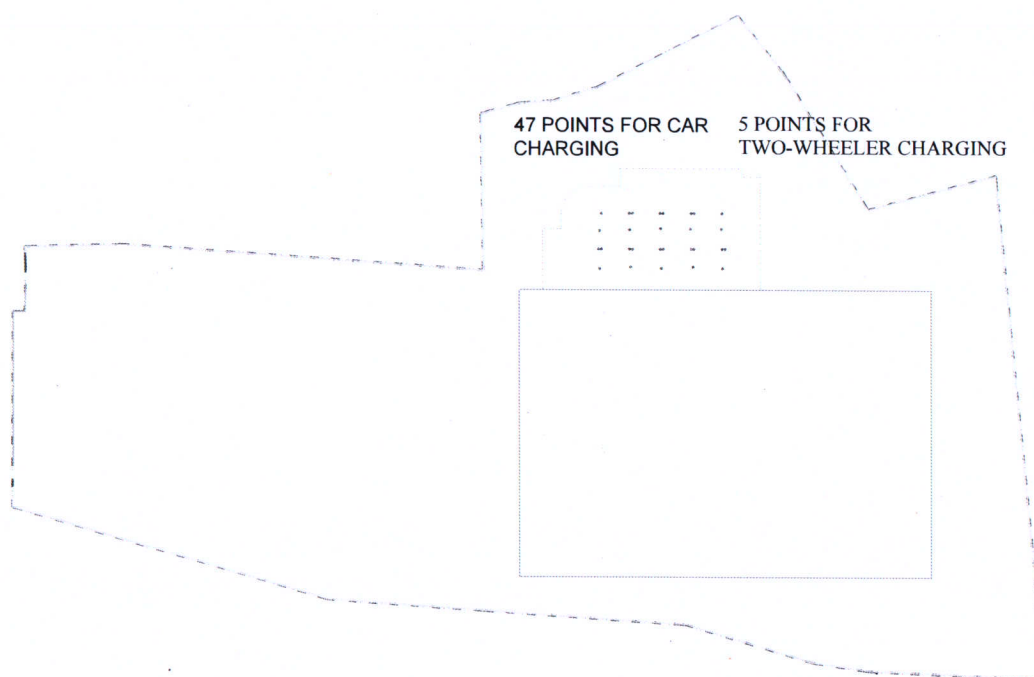
Annexure 3





Annexure -5

The location of the electric charging points provided in parking areas for the electric Vehicles





APPENDIX B2

{(See rule 6(17) &9(4)}

SITE APPROVAL AND REVISED BUILDING PERMIT

Kottayam municipal Corporation/Municipal Council/ Town Panchayat.

NBA-42/21-22

08/06/2023

Ref:-Application dated **11/04/2023** from Sri/Smt **Nishad M A,Director & CEO,Lulu International Shopping Malls Pvt Ltd,34/1000,NH-47,Edappally, Kochi,PIN-682024**

Site approval and permission is granted for the **construct/reconstruct/ erection/re-erection/addition/alteration of building/hut/digging of well/** (specify the construction. In Building No.of near the building No.....in Survey/Re-surveyNo.**353/3-3,353/3-**

5,353/9,353/11,353/17,353/18,353/8,353/10,353/12,353/13,353/14,353/15,353/16,352/12, 352/12-1,352/13,353/3,353/3-2,353/3-4,353/5,353/6,353/7,354/1-1-1,354/1-2,354/1-3-1,354/2-1,354/2-2-1,354/2-3,354/3-1,354/3-2,354/3-3-1,354/3-4,354/3-5,354/3-6-1,354/3-7,354/2-4 Village **Nattakam** Taluk **Kottayam** District **Kottayam** For **Commercial** (specify the occupancy) purpose subject the condition stated below.

Adequate safety measures shall be ensured for protection against damage to health, life, buildings and property of the workers and inhabitants around, during and after building construction. The owner and the developer shall be solely responsible for any such damages.

- (1) The applicant and the Engineer / Architect Supervisor in charge of the building construction shall be fully responsible for the structural stability of the building, the Municipality will not be responsible for any structural instability and other deficiencies in the execution of work.
- (2) Portions of the plot that are proposed for water conservation should be spared exclusively for the purpose as the land use conversion orders by Revenue Department.
- (3) Whenever the proposed road that is planned to pass through the plot as per the Kottayam Master Plan comes into existence, access to the plot and concerned facilities should be re-arranged if necessary.
- (4) Any form of construction should not be done in the area with Re-survey No. 354/1-1, 354/1-3, 354/2, 354/3-6, 354/2-2, 354/3-3, which comes within the plot limit.
- (5) Permit Valid from 04/10/2021 to 03/10/2026.

(a) Setbacks (m) (minimum & average)

Front : 32.945 m Rear side: 13.00 m Side-1: 20.930 m
Side-2 : 12.00 m

(b) plot Area (sq m) : 32978 m²

(c) FAR : 0.59 Coverage : 36.58%

(d) Details of proposed building

Floors	Building No.1			Building No.2		
	Occupancy			Occupancy		
	Height of the buildingm			Height of the building.....m		
	Use	Built-up area (sq.m)	Area provided for parking inside the building (sq.m)	Use	Built-up area (sq.m)	Area provided for parking inside the building (sq.m)
G Floor		9626.06				
Canopy		500				
F Floor		9290.21				
Terrace		939.08				
Upper Floor		10.23				
Parking SiteLevel		1938.15				
Level 1		1886.12				
Level 2		1886.12				
Level 3		1886.12				
Level 4		1886.12				
RoofLevel		54.50				
Total		29902.71				

Total Permitted Area - **19951.09 m2**

Additional Area - **9951.62 m2**

Total Area - **29902.71 m2**

A. Phun-m
 Name and Signature of the

Secretary B. ANIL K. SINGH


[Deputy Director (CGO)]

P.O. No. 757/691

Kolkata, West Bengal

Ph. 9419007000 (P), 941900358

(Seal)


 WE SERVE TO SAVE
 DEPARTMENT OF FIRE AND RESCUE SERVICES
 GOVERNMENT OF KERALA

No.D1. 3253 /21 Date.23/09/2021

NO OBJECTION CERTIFICATE (FOR BUILDING PERMIT)
(As per rule 5(4).12 of KMBR 2019/KPBR 2019)

1	Name & Address of the Applicant	: Lulu International Shopping Malls Pvt Ltd 34/1000 N.H 47 Edappally, Kochi-682024
2	Name of the Company	: -do-
3	Occupancy type of Building	: Mercantile (M-1) Building
4	Height of the Building	: 14.20 mtrs
5	Number of floors of the Building	: G+2
6	Total Built up area area (in sqm)	: 19951.09 sqm
7	Survey No.	: 352/12-1, 352/12, 352/13, 353/16, 353/5, 353/13, 353/10, 353/3-4, 354/353/14, 353/8, 353/7, 353/3, 353/3-2, 354/2-1, 354/2, 354/2-4, 354/3-1, 354/3-6, 354/3-4, 354/1-3-1, 354/1-1-1, 354/1-1, 354/2-2-1, 354/2-2, 354/3-5, 353/3-3, 353/3-5, 353/9, 353/17
8	Village	: Nattakom
9	Grama Panchayat/ Municipality/ Corporation	: Kottayam Municipality
10	District	: Kottayam

The above site is inspected by the competent and authorized Officials of this Department found that the site is suitable from fire protection point of view for the proposed construction.

The Fire system drawings were scrutinized and compared with the Checklist and Prima Facie found to be in Order. The Applicant shall comply with all the Fire safety as contained in the relevant Rules and Norms pertaining to Fire Safety, without any deviation is to be made in the construction for any reason, the same shall be competent authorities of the Stake holder departments including this Department and Fees etc. as per rules to obtain revised clearance.

of the Company
type of Building

14.30 mms

No.D1. 3253 /21

On completion of the building construction and after installation of the fire protection arrangements, the Applicant shall fill the Checklist Cum Application again and also prepare a Fire System Drawing and submit following the due procedure. On receiving the Plan & the Checklist Cum Application duly filled, the authorized and competent Officials of this Department will inspect & verify the fire protection arrangements made as per the filled up Checklist to consider issuance of a No Objection Certificate (Completion) from this Department for compliance of the proposed fire protection requirements.

This clearance is limited to the Fire protection arrangements for the proposed Building. All other matters including eligibility of the land and plot for this project, environmental feasibility, survey details, etc. should be got verified and approved by the concerned competent authority. This No Objection Certificate is issued for facilitating the construction of the proposed Building. The Validity of this certificate will be for 5 years from the date of issue. Renewal will be subject to the conditions of building permit issued by the local authority.

To

- 1) The Secretary, Kottayam Municipality
- 2) The Applicant

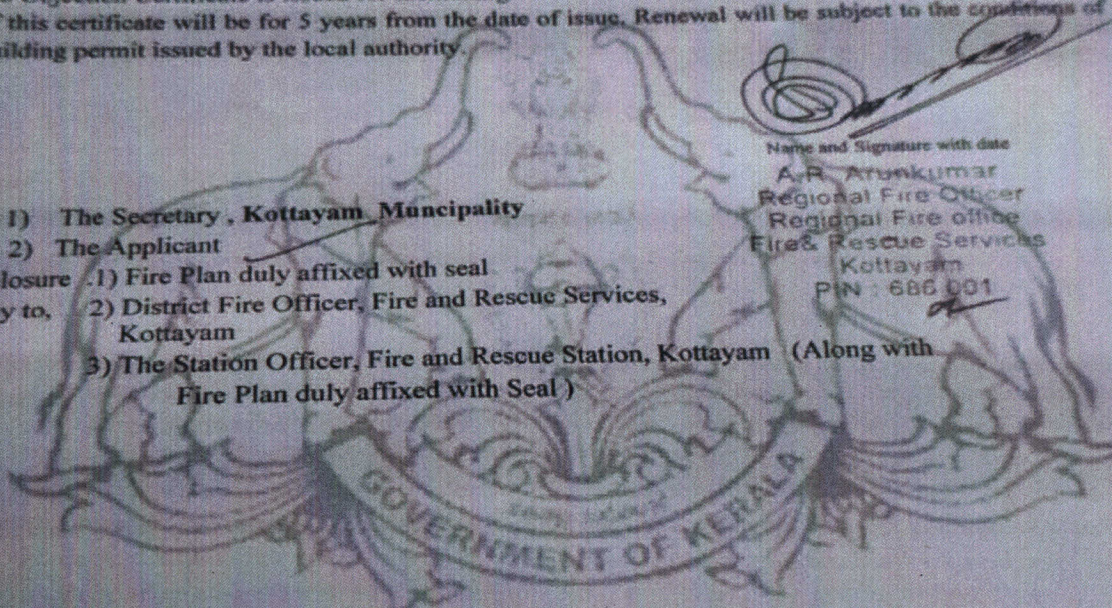
Enclosure 1) Fire Plan duly affixed with seal

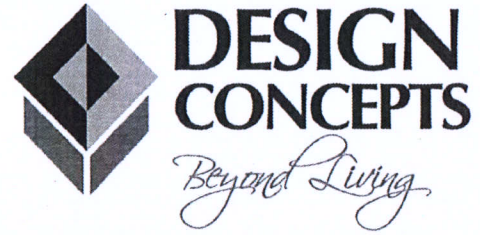
Copy to, 2) District Fire Officer, Fire and Rescue Services, Kottayam

- 3) The Station Officer, Fire and Rescue Station, Kottayam (Along with Fire Plan duly affixed with Seal)

Name and Signature with date

A.R. Arunkumar
Regional Fire Officer
Regional Fire office
Fire & Rescue Services
Kottayam
PIN - 686 001





Date: 30.05.2022

STRUCTURAL STABILITY CERTIFICATE

This is to certify that the proposed building complex of Lulu International Shopping Malls Pvt. Ltd. at survey numbers 352/12-1, 352/12, 352/13, 353/16, 353/12, 353/6, 353/5, 353/13, 353/10, 353/3-4, 354/3-3-1, 354/3-3, 353/14, 353/8, 353/7, 353/3, 353/3-2, 353/15, 354/2-1, 354/2, 354/2-4, 354/3-1, 354/3-7, 354/3-6-1, 354/3-6, 354/3-4, 354/1-3-1, 354/1-3, 354/1-2, 354/1-1-1, 354/1-1, 354/2-2-1, 354/2-2, 354/3-2, 354/2-3, 354/3-5, 353/3-3, 353/3-5, 353/9, 353/11, 353/18, 353/17 at Nattakam village of Kottayam Thaluk, Kerala in Kottayam Municipal Corporation is structurally designed by myself based on the architectural plan submitted to the concerned development authority. The building complex includes Stilt level + Ground Floor + 1Floor for shopping mall + terrace floor for staff facilities, attached Stilt level + 3 floor + terrace Multilevel Car Parking, Ground only Utility buildings and compound wall around the property.

The structure of the proposed shopping Mall building is reinforced concrete framed structure with columns and lift core wall suitably placed with beam slab framing system and for Multilevel Cap park is Flat slab structural system and is complying with Bureau of Indian Standard norms, regulations and the design is safe and suitable for the purpose for which it is intended.

The building is designed in accordance with relevant Indian standard codes including IS 456-2000, IS 875 (Part 01 to 05) and seismic code IS1893 (part 1) 2016. The structure falls under seismic zone III. The building foundation is pile foundation, designed based on the site specific Soil Investigation report.

For Design Concepts



Abin Bobby (M-Tech Structural Engineer)



VISVESVARAYA NATIONAL INSTITUTE OF TECHNOLOGY
(DEEMED UNIVERSITY)
NAGPUR 440 011 (INDIA)

*Upon recommendation of the Senate hereby confers degree of
Master of Technology in Structural Engineering*

on

Abin Bobby

*who has successfully completed the course of study
as prescribed under the regulations in
November 2002 in First Division
Given this day under the seal of
Visvesvaraya National Institute of Technology
at Nagpur in the Republic of India.*

विश्वेश्वरय्या राष्ट्रीय प्रौद्योगिकी संस्थान
(अभिमत विद्यापीठ)
नागपूर - ४४० ०११ (भारत)

अबिन बॉबी

को एतद्वारा

संरचनात्मक अभियांत्रिकी में प्रौद्योगिकी निष्णात

की उपाधि प्रदान करता है। अभिषद की अनुशंसा पर संस्थान की
मुद्रांकित यह उपाधि, विनियमों में विहित पाठ्यक्रमों को

नवम्बर 2002 में प्रथम श्रेणी
में सफलता पूर्वक पूर्ण कर लेने पर,
नागपूर (भारत) में आज दी गई है।



दिनांक

DATE: August 9, 2003

U. Pandharipande
अध्यक्ष, अभिषद
CHAIRMAN, SENATE

R. S. S.
अध्यक्ष, शासी मंडल
CHAIRMAN, BOARD OF GOVERNORS



KERALA STATE ELECTRICITY BOARD LIMITED

(Incorporated under the Indian Companies Act, 1956)

Registered office: Vidyuthi Bhavanam, Pallom, Thiruvananthapuram-695 004

web site: www.kseb.lk. CIN: U40100KL2011SGC027424



Office of the Assistant Engineer, Electrical Section Nattakom

Poovanthuruthu P.O, Kottayam-686012

Phone: 0481-2342525/ FCT: 9496008154 e-mail: aentkm@gmail.com

DBLKSEB-NATKM/2021-22/LULU/ 68

Dtd: 23/12/21

To

Sri. Nishad M.A.
Director, Lulu International shopping Malls Pvt.Ltd.
34/1000,NH 47, Edappally
Kochi - 682024

Sir,

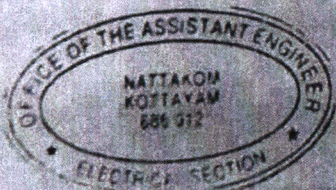
Sub:- HT Power requirement to the extend of 2500 KVA to Lulu Commercial Complex
Nattakam reg:-

- Ref:- 1) Application no. 21462721002220
2) No. EC/KTM/DB3/HT-PA/2021-22/1514 dt. 14.12.2021 of The Deputy Chief
Engineer Electrical Circle Kottayam
3) Endt on DB 11/HT-LULU MALL/21-22/646/ Date 20/12/2021 of The Assistant
Executive Engineer Electrical Sub Division Pallom

As per your application for 2500 KVA power to the proposed Lulu Commercial complex at Manippuzha, Nattakom, Kottayam, feasibility has been obtained for the Transmission Wing of the KSEBL. From distribution side, the estimate has to be sanctioned for executing the work from transmission terminal at Sub Station to the consumer premises.

As you are planning to execute the works from distribution side by supplying the materials and labour directly, as per the standard of KSEBL, an undertaking in stamp paper worth RS.200/- in this regard as per the Supply Code 2014 is needed for finalizing the estimate.

Hence you are requested to submit an agreement to undertake the supply, installation and commissioning of cables, switch gears and allied installations including statutory approvals / clearances from all authorities concerned, at the earliest, for proceeding further in this regard.



Your faithfully

ASSISTANT ENGINEER

Copy Submitted to: The Assistant Executive Engineer, Electrical Sub Division, Pallom

Standards



TEST REPORT

ULR No.: TC1293924000007519F

LRI No.: SEAAL24040089A

Date: 02-04-2024

Page 1 of 1

CUSTOMER DETAILS

Customer Name & Address	M/s Lulu International Shopping Mall Pvt Ltd Nattakam, Kottayam District.
Customer Reference	Test Request date: 27-03-2024

SAMPLE DETAILS

Product Category	Atmospheric Pollution	Sample Code	EN24031367
Sample Name	Ambient Air	Sample Received on	28-03-2024
Sample Conditions at Receipt	Fit for Analysis	Test Commenced on	28-03-2024
Sampled by	Lab Authorized Sampler	Test Completed on	02-04-2024

DETAILS OF SAMPLING

Sampling Location	Near Office -South Side	Date of Sampling	27-03-2024
Sampling Procedure	SEAAL/QAD/SOP/7.3/02	Humidity	70%

TEST RESULTS-CHEMICAL DISCIPLINE

SL NO	PARAMETERS	TEST METHOD	UNIT	RESULT	NAAQ STANDARD
1	Particulate matter, PM ₁₀	IS 5182 (Part 23): 2006	µg/m ³	78.5	100 (Max)
2	Particulate matter, PM _{2.5}	IS 5182 (Part 24): 2019	µg/m ³	39.2	60 (Max)
3	Sulphur dioxide as SO ₂	IS 5182 (Part 2): 2001	µg/m ³	5.87	80 (Max)
4	Nitrogen dioxide as NO ₂	IS 5182 (Part 6): 2006	µg/m ³	7.16	80 (Max)
5	Carbon monoxide as CO	IS 5182 (Part 10): 1999	mg/m ³	0.75	4(Max)

Remarks:

End of Report

Shency Joy
TM-Chemical
Checked by:



Laiju P N
Laboratory Head
Authorized Signatory

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

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Tel. 0484-2546660, 93872 72402, 90743 41443, Web: www.sealabs.in, E-mail: seaalab@gmail.com

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TEST REPORT

ULR No.: TC1293924000007520F

LRI No.: SEAAL24040090A	Date: 02-04-2024	Page 1 of 1
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CUSTOMER DETAILS

Customer Name & Address	M/s Lulu International Shopping Mall Pvt Ltd Nattakam, Kottayam District.
Customer Reference	Test Request date: 27-03-2024

SAMPLE DETAILS

Product Category	Atmospheric Pollution	Sample Code	EN24031368
Sample Name	Ambient Air	Sample Received on	28-03-2024
Sample Conditions at Receipt	Fit for Analysis	Test Commenced on	28-03-2024
Sampled by	Lab Authorized Sampler	Test Completed on	02-04-2024

DETAILS OF SAMPLING

Sampling Location	Near Security Cabin - West Side	Date of Sampling	27-03-2024
Sampling Procedure	SEAAL/QAD/SOP/7.3/02	Humidity	70%

TEST RESULTS-CHEMICAL DISCIPLINE

SL NO	PARAMETERS	TEST METHOD	UNIT	RESULT	NAAQ STANDARD
1	Particulate matter, PM ₁₀	IS 5182 (Part 23): 2006	µg/m ³	65.3	100 (Max)
2	Particulate matter, PM _{2.5}	IS 5182 (Part 24): 2019	µg/m ³	31.7	60 (Max)
3	Sulphur dioxide as SO ₂	IS 5182 (Part 2): 2001	µg/m ³	5.05	80 (Max)
4	Nitrogen dioxide as NO ₂	IS 5182 (Part 6): 2006	µg/m ³	6.83	80 (Max)
5	Carbon monoxide as CO	IS 5182 (Part 10): 1999	mg/m ³	0.69	4(Max)

Remarks:

End of Report

Shency Joy
TM-Chemical
Checked by:



Laiju P N
Laboratory Head
Authorized Signatory

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TEST REPORT

ULR No.: TC1293924000007521F

LRI No.: SEAAL24040091A

Date: 02-04-2024

Page 1 of 1

CUSTOMER DETAILS

Customer Name & Address	M/s Lulu International Shopping Mall Pvt Ltd Nattakam, Kottayam District.
Customer Reference	Test Request date: 27-03-2024

SAMPLE DETAILS

Product Category	Atmospheric Pollution	Sample Code	EN24031369
Sample Name	Ambient Air	Sample Received on	28-03-2024
Sample Conditions at Receipt	Fit for Analysis	Test Commenced on	28-03-2024
Sampled by	Lab Authorized Sampler	Test Completed on	02-04-2024

DETAILS OF SAMPLING

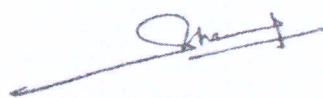
Sampling Location	North Side Boundary	Date of Sampling	27-03-2024
Sampling Procedure	SEAAL/QAD/SOP/7.3/02	Humidity	70%

TEST RESULTS-CHEMICAL DISCIPLINE

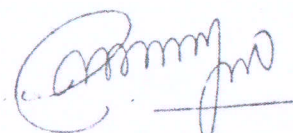
SL NO	PARAMETERS	TEST METHOD	UNIT	RESULT	NAAQ STANDARD
1	Particulate matter, PM ₁₀	IS 5182 (Part 23): 2006	µg/m ³	58.6	100 (Max)
2	Particulate matter, PM _{2.5}	IS 5182 (Part 24): 2019	µg/m ³	27.2	60 (Max)
3	Sulphur dioxide as SO ₂	IS 5182 (Part 2): 2001	µg/m ³	4.78	80 (Max)
4	Nitrogen dioxide as NO ₂	IS 5182 (Part 6): 2006	µg/m ³	6.92	80 (Max)
5	Carbon monoxide as CO	IS 5182 (Part 10): 1999	mg/m ³	0.79	4(Max)

Remarks:

End of Report


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TEST REPORT

ULR No.: TC1293924000007522F

LRI No.: SEAAL24040092A

Date: 02-04-2024

Page 1 of 1

CUSTOMER DETAILS

Customer Name & Address	M/s Lulu International Shopping Mall Pvt Ltd Nattakam, Kottayam District.
Customer Reference	Test Request date: 27-03-2024

SAMPLE DETAILS

Product Category	Atmospheric Pollution	Sample Code	EN24031370
Sample Name	Ambient Air	Sample Received on	28-03-2024
Sample Conditions at Receipt	Fit for Analysis	Test Commenced on	28-03-2024
Sampled by	Lab Authorized Sampler	Test Completed on	02-04-2024

DETAILS OF SAMPLING

Sampling Location	East Side Boundary	Date of Sampling	27-03-2024
Sampling Procedure	SEAAL/QAD/SOP/7.3/02	Humidity	70%

TEST RESULTS-CHEMICAL DISCIPLINE

SL NO	PARAMETERS	TEST METHOD	UNIT	RESULT	NAAQ STANDARD
1	Particulate matter, PM ₁₀	IS 5182 (Part 23): 2006	µg/m ³	66.3	100 (Max)
2	Particulate matter, PM _{2.5}	IS 5182 (Part 24): 2019	µg/m ³	31.9	60 (Max)
3	Sulphur dioxide as SO ₂	IS 5182 (Part 2): 2001	µg/m ³	5.32	80 (Max)
4	Nitrogen dioxide as NO ₂	IS 5182 (Part 6): 2006	µg/m ³	6.57	80 (Max)
5	Carbon monoxide as CO	IS 5182 (Part 10): 1999	mg/m ³	0.70	4(Max)

Remarks:

End of Report

Shency Joy
TM-Chemical
Checked by:



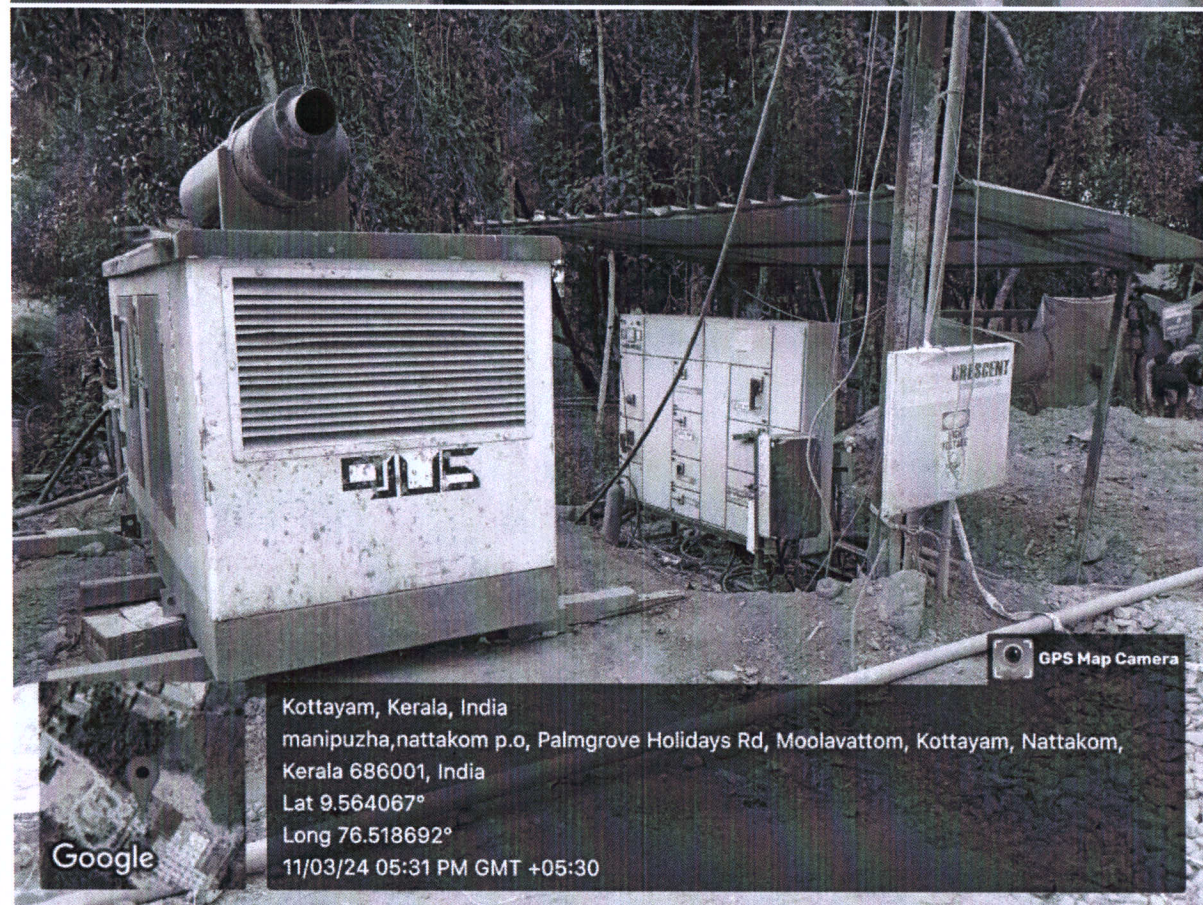
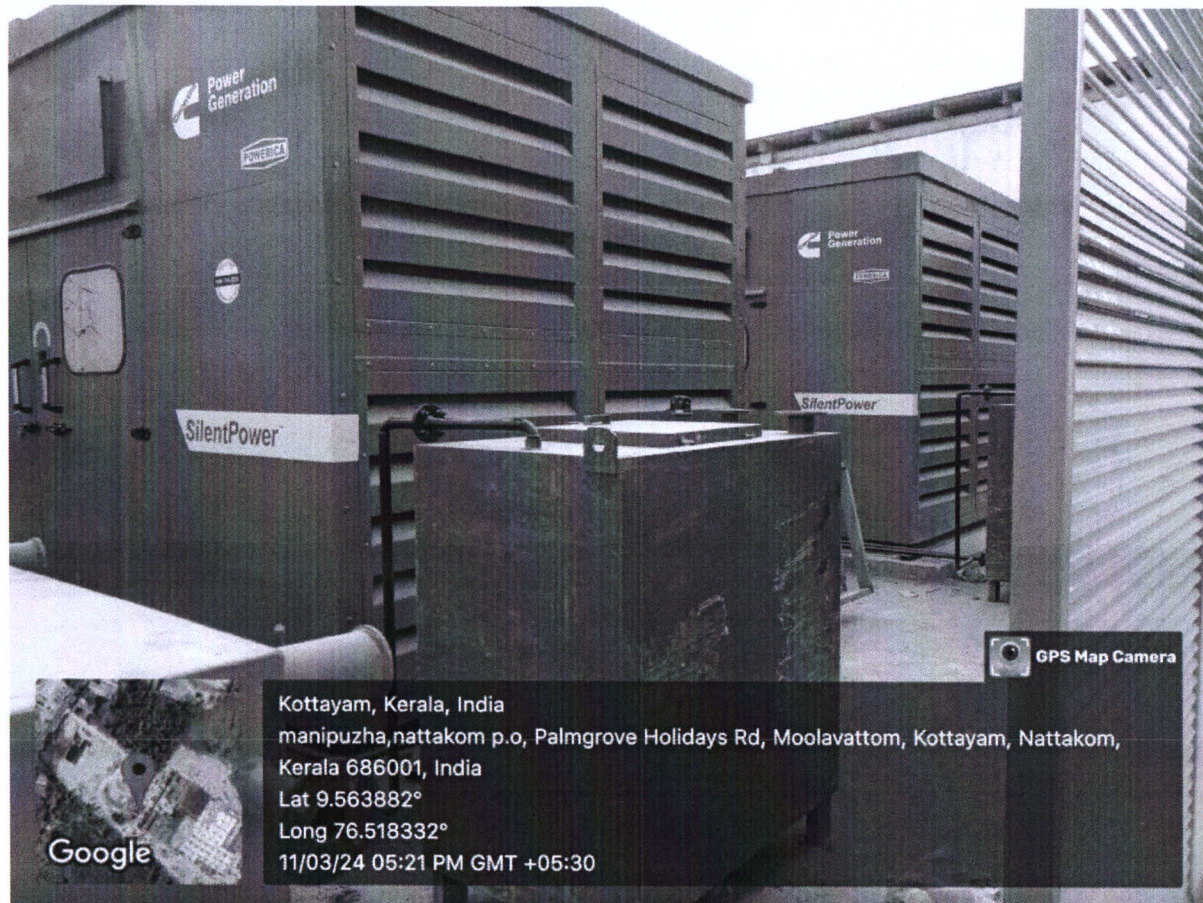
Laiju P N
Laboratory Head
Authorized Signatory

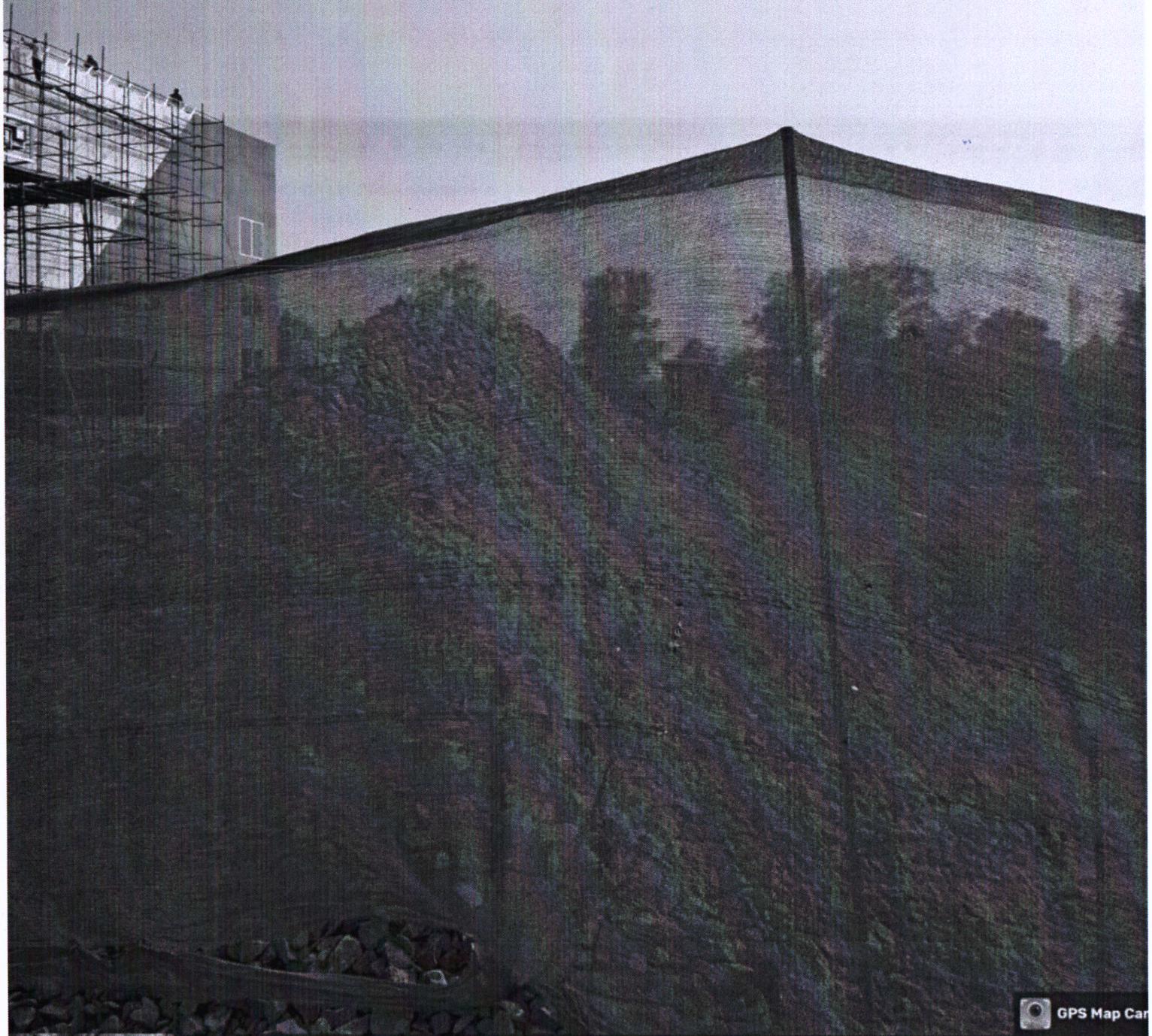
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GPS Map Car



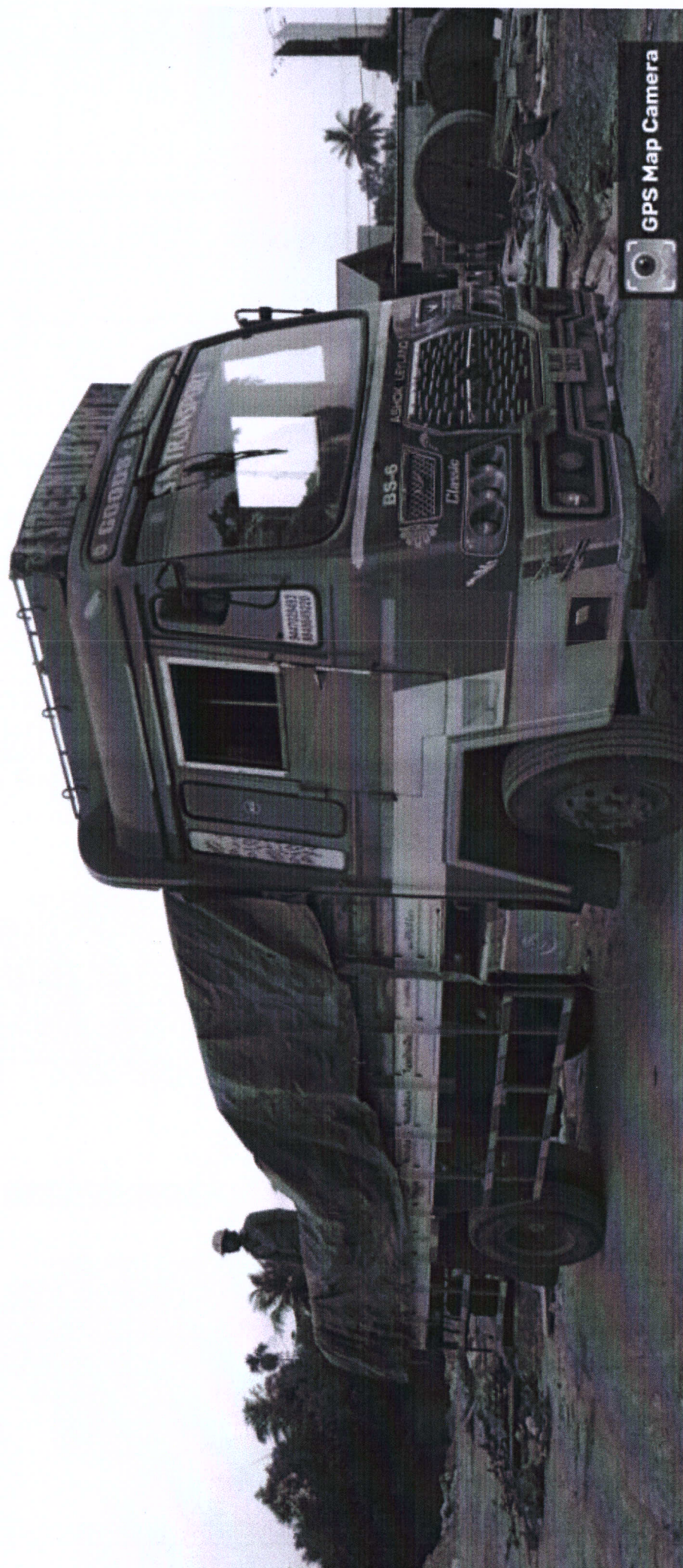
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HG79+8G, Moolavattom, Nattakom, Muppaikad, Kerala 686004, India

Lat 9.56388°

Long 76.518316°

13/03/24 04:39 PM GMT +05:30



Nattakom, Kerala, India

HG79+8G, Moolavattom, Nattakom, Muppaikad, Kerala 686004, India

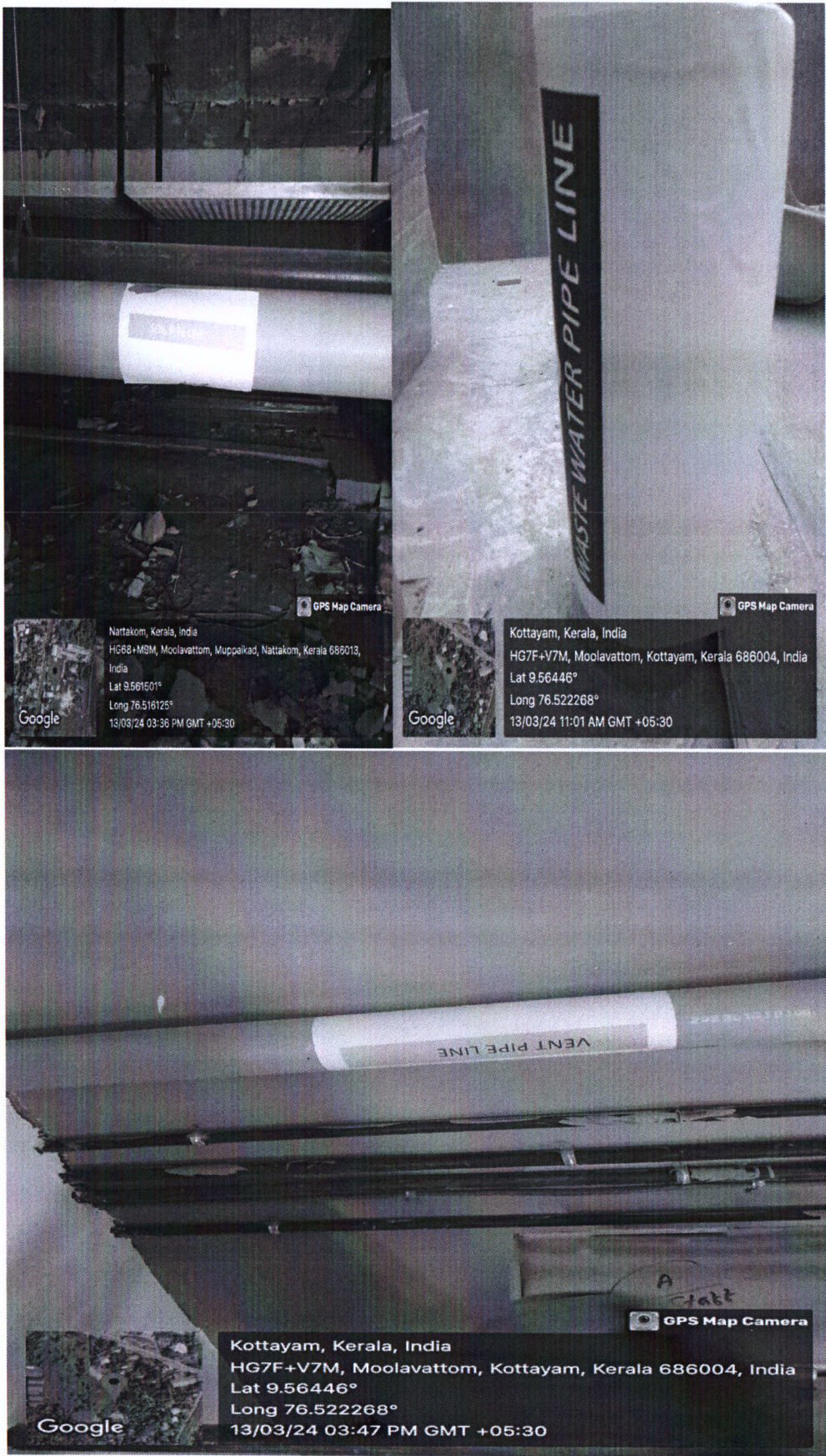
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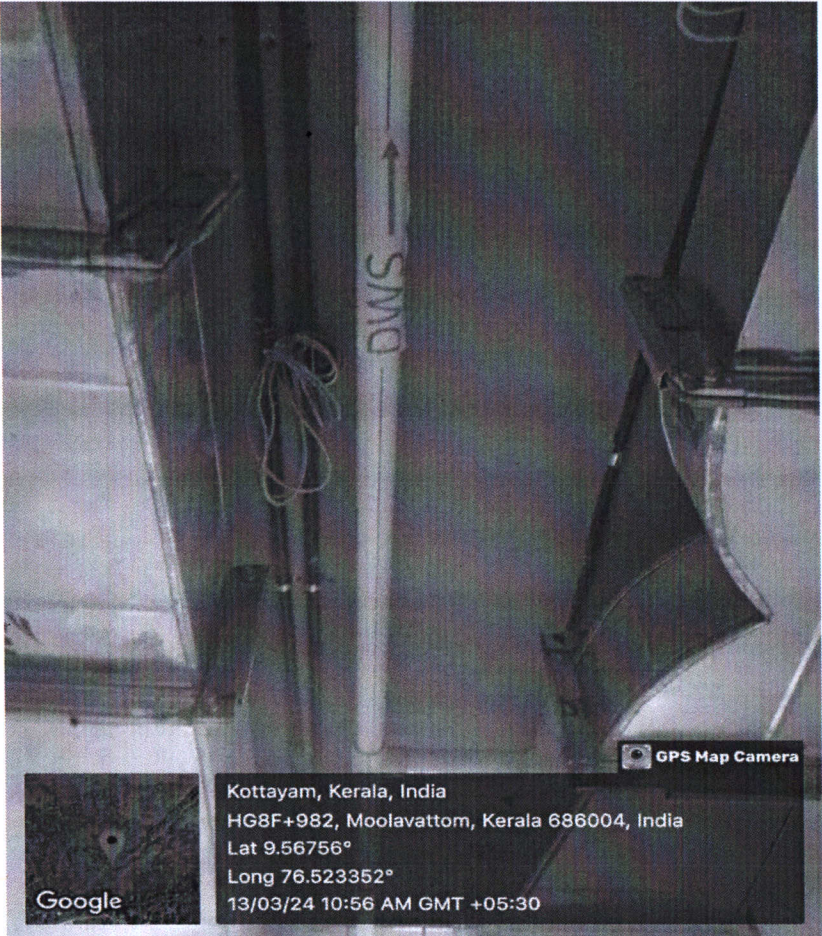
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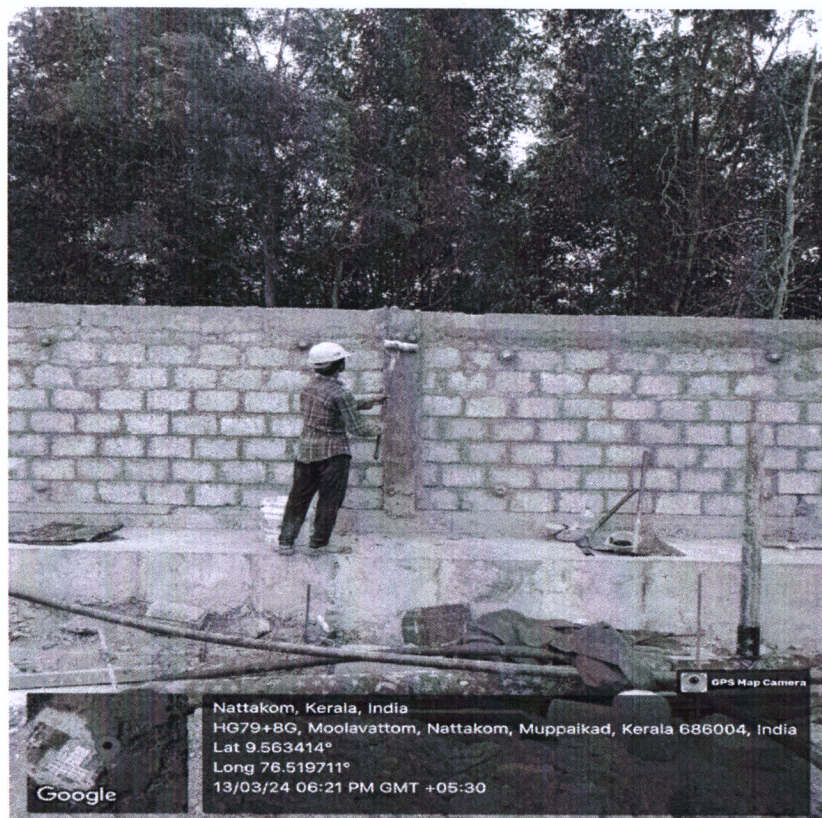


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Water Supply System







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TEST REPORT

ULR No: TC1293924000007684F		
LRI No.: SEAAL24040255A	Date: 03-04-2024	Page 1 of 1

CUSTOMER DETAILS	
Customer Name & Address	M/s Lulu International Shopping Mall Pvt Ltd Nattakam, Kottayam District.
Customer Reference	Test Request Date: 27-03-2024

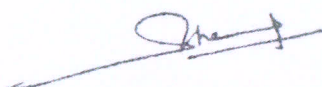
DETAILS OF MONITORING			
Product Category	Atmospheric Pollution	Sample Code	EN24031548
Sample Name	Ambient Noise	Monitoring Commenced on	27-03-2024/ 10:00
Monitoring Location	Near Office -South Side	Monitoring Completed on	28-03-2024/ 10:00
Test Method	IS 9989:1981	Monitored by	Lab Authorized Sampler

MONITORING RESULTS - Leq					
TIME	RESULTS dB(A)	TIME	RESULTS dB(A)	TIME	RESULTS dB(A)
06:00	37.5	14:00	50.3	22:00	36.4
07:00	40.2	15:00	50.7	23:00	35.4
08:00	44.5	16:00	51.9	24:00	38.0
09:00	48.0	17:00	52.2	01:00	38.7
10:00	50.3	18:00	46.8	02:00	38.3
11:00	53.4	19:00	43.3	03:00	39.1
12:00	50.7	20:00	39.5	04:00	38.0
13:00	49.9	21:00	39.0	05:00	39.8


TEST RESULTS - CHEMICAL DISCIPLINE			
Sl. No.	PARAMETERS	UNIT	RESULT
1	Ambient Sound Level (Leq) Day Time (06:00 to 22:00)	dB(A)	48.8
2	Ambient Sound Level (Leq) Night Time (22:00 to 06:00)	dB(A)	38.3

Remarks:

End of Report


Shency Joy
TM-Chemical
Checked by:




Laiju P N
Laboratory Head
Authorized Signatory

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TEST REPORT

ULR No: TC1293924000007685F		
LRI No.: SEAAL24040256A	Date: 03-04-2024	Page 1 of 1

CUSTOMER DETAILS	
Customer Name & Address	M/s Lulu International Shopping Mall Pvt Ltd Nattakam, Kottayam District.
Customer Reference	Test Request Date: 27-03-2024

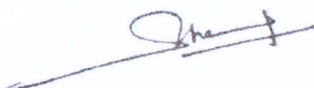
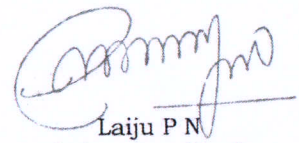
DETAILS OF MONITORING			
Product Category	Atmospheric Pollution	Sample Code	EN24031549
Sample Name	Ambient Noise	Monitoring Commenced on	27-03-2024/ 10:00
Monitoring Location	Near Security Cabin - West Side	Monitoring Completed on	28-03-2024/ 10:00
Test Method	IS 9989:1981	Monitored by	Lab Authorized Sampler

MONITORING RESULTS - Leq					
TIME	RESULTS dB(A)	TIME	RESULTS dB(A)	TIME	RESULTS dB(A)
06:00	37.9	14:00	50.8	22:00	36.8
07:00	40.7	15:00	51.2	23:00	35.8
08:00	45.0	16:00	52.4	24:00	38.4
09:00	48.5	17:00	52.8	01:00	39.1
10:00	50.8	18:00	47.3	02:00	38.7
11:00	54.0	19:00	43.8	03:00	39.5
12:00	51.2	20:00	39.9	04:00	38.4
13:00	50.4	21:00	39.4	05:00	40.2

TEST RESULTS - CHEMICAL DISCIPLINE			
Sl. No.	PARAMETERS	UNIT	RESULT
1	Ambient Sound Level (Leq) Day Time (06:00 to 22:00)	dB(A)	49.3
2	Ambient Sound Level (Leq) Night Time (22:00 to 06:00)	dB(A)	38.8

Remarks:

End of Report

Shency Joy
TM-Chemical
Checked by:Laiju P N
Laboratory Head
Authorized Signatory

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TEST REPORT

ULR No: TC1293924000007686F		
LRI No.: SEAAL24040257A	Date: 03-04-2024	Page 1 of 1

CUSTOMER DETAILS	
Customer Name & Address	M/s Lulu International Shopping Mall Pvt Ltd Nattakam, Kottayam District.
Customer Reference	Test Request Date: 27-03-2024

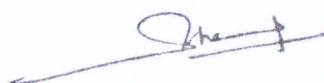
DETAILS OF MONITORING			
Product Category	Atmospheric Pollution	Sample Code	EN24031550
Sample Name	Ambient Noise	Monitoring Commenced on	27-03-2024/ 10:00
Monitoring Location	North Side Boundary	Monitoring Completed on	28-03-2024/ 10:00
Test Method	IS 9989:1981	Monitored by	Lab Authorized Sampler

MONITORING RESULTS - Leq					
TIME	RESULTS dB(A)	TIME	RESULTS dB(A)	TIME	RESULTS dB(A)
06:00	37.6	14:00	50.4	22:00	36.5
07:00	40.4	15:00	50.8	23:00	35.7
08:00	44.6	16:00	52.0	24:00	38.3
09:00	48.1	17:00	52.4	01:00	39.0
10:00	50.4	18:00	46.9	02:00	38.6
11:00	53.5	19:00	43.5	03:00	39.4
12:00	50.8	20:00	39.6	04:00	38.3
13:00	50.1	21:00	39.1	05:00	40.1

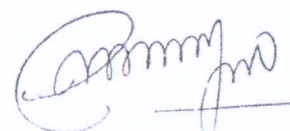
TEST RESULTS - CHEMICAL DISCIPLINE			
Sl. No.	PARAMETERS	UNIT	RESULT
1	Ambient Sound Level (Leq) Day Time (06:00 to 22:00)	dB(A)	48.9
2	Ambient Sound Level (Leq) Night Time (22:00 to 06:00)	dB(A)	38.7

Remarks:

End of Report



Shency Joy
TM-Chemical
Checked by:

Laiju P N
Laboratory Head
Authorized Signatory

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TEST REPORT

ULR No: TC1293924000007687F		
LRI No.: SEAAL24040258A	Date: 03-04-2024	Page 1 of 1

CUSTOMER DETAILS	
Customer Name & Address	M/s Lulu International Shopping Mall Pvt Ltd Nattakam, Kottayam District.
Customer Reference	Test Request Date: 27-03-2024

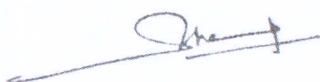
DETAILS OF MONITORING			
Product Category	Atmospheric Pollution	Sample Code	EN24031551
Sample Name	Ambient Noise	Monitoring Commenced on	27-03-2024/ 10:00
Monitoring Location	East Side Boundary	Monitoring Completed on	28-03-2024/ 10:00
Test Method	IS 9989:1981	Monitored by	Lab Authorized Sampler

MONITORING RESULTS - Leq					
TIME	RESULTS dB(A)	TIME	RESULTS dB(A)	TIME	RESULTS dB(A)
06:00	38.0	14:00	51.0	22:00	36.8
07:00	40.8	15:00	51.4	23:00	36.3
08:00	45.1	16:00	52.5	24:00	38.9
09:00	48.6	17:00	52.9	01:00	39.6
10:00	51.0	18:00	47.4	02:00	39.3
11:00	54.1	19:00	43.9	03:00	40.0
12:00	51.4	20:00	40.0	04:00	38.9
13:00	50.6	21:00	39.5	05:00	40.8

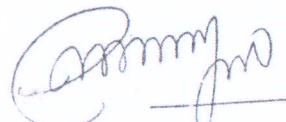
TEST RESULTS - CHEMICAL DISCIPLINE			
Sl. No.	PARAMETERS	UNIT	RESULT
1	Ambient Sound Level (Leq) Day Time (06:00 to 22:00)	dB(A)	49.4
2	Ambient Sound Level (Leq) Night Time (22:00 to 06:00)	dB(A)	39.3

Remarks:

End of Report



Shency Joy
TM-Chemical
Checked by:

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Laboratory Head
Authorized Signatory

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Tel. 0484-2546660, 93872 72402, 90743 41443, Web: www.sealabs.in, E-mail: seaalab@gmail.com

Standards



Annexure 17

TEST REPORT

ULR No: TC1293924000007518F

LRI No.: SEaal24040088A	Date: 02-04-2024	Page 1 of 2
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CUSTOMER DETAILS

Customer Name & Address	M/s Lulu International Shopping Mall Pvt Ltd Nattakam, Kottayam District.
Customer Reference	Test Request Date: 27-03-2024

SAMPLE DETAILS

Product Category	Water	Sample Code	WT24030667
Sample Name	Surface Water	Sample Received on	27-03-2024
Sample Description by Customer	River Water	Temperature @ Receipt	5°C
Sample Conditions at Receipt	Fit for Analysis	Test Commenced on	28-03-2024
Sample Quantity & Packing	2 L & 125 ml in a Plastic Bottle	Test Completed on	02-04-2024
Information Provided by Customer	---	Sampled by	Lab Authorized Sampler

DETAILS OF SAMPLING

Sample Source	Manipuzha	Date of Sampling	27-03-2024
Sampling Procedure	SEaal/QAD/SOP/7.3/01	Sample Temperature	27°C

TEST RESULTS- CHEMICAL DISCIPLINE

Sl. No.	PARAMETERS	TEST METHOD	UNIT	RESULT	Requirement as per Acceptable Limit of IS 10500: 2012
1	Colour	IS 3025 (Part 4): 2021	Hazen	5	Max 5
2	Odour	IS 3025 (Part 5): 2018	---	Agreeable	Agreeable
3	Turbidity	IS 3025 (Part 10): 2023	NTU	45	Max 1
4	pH	IS 3025 (Part 11): 2022	---	6.56	6.50-8.50
5	Total Dissolved Solids	IS 3025 (Part 16): 2023	mg/L	220	Max 500
6	Total Hardness as CaCO ₃	IS 3025 (Part 21): 2009	mg/L	46.2	Max 200
7	Calcium as Ca	IS 3025 (Part 40): 1991	mg/L	9.60	Max 75
8	Magnesium as Mg	IS 3025 (Part 46): 2023	mg/L	5.38	Max 30
9	Chloride as Cl	IS 3025 (Part 32): 1988	mg/L	67.5	Max 250

Shency Joy
TM-Chemical
Checked by:



Remya B
TM-Biological
Authorized Signatory

Laiju P N
Laboratory Head
Authorized Signatory

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Standards Environmental & Analytical Laboratories

Accreditation & Approval: NABL accredited Testing Laboratory as per ISO/IEC 17025:2017
vide Certificate No. TC - 12939 & "A" Grade Laboratory approved by KSPCB.

'Standards' Bldg. No: 338/A,B,C,D,E (Behind BPCL Petrol Pump), Edayar, Muppathadam P.O., Ernakulam Dist. - 683 110
Tel. 0484-2546660, 93872 72402, 90743 41443, Web: www.sealabs.in, E-mail: seaalab@gmail.com

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Standards



TEST REPORT

ULR No: TC1293924000007518F

LRI No.: SEAAL24040088A

Date: 02-04-2024

Page 2 of 2

TEST RESULTS- CHEMICAL DISCIPLINE

Sl. No.	PARAMETERS	TEST METHOD	UNIT	RESULT	Requirement as per Acceptable Limit of IS 10500: 2012
10	Total Alkalinity as CaCO ₃	IS 3025 (Part 23): 2023	mg/L	22.4	Max 200
11	Iron as Fe	IS 3025 (Part 53): 2003	mg/L	3.90	Max 1
12	Sulphate as SO ₄	IS 3025 (Part 24/Sec 1): 2022	mg/L	39.7	Max 200
13	Fluoride as F	IS 3025 (Part 60): 2008	mg/L	<0.10	Max 1
14	Copper as Cu	IS 3025 (Part 42): 1992	mg/L	BDL (LOD-0.005)	Max 0.05
15	Boron as B	IS 3025 (Part 57): 2005	mg/L	<0.20	Max 0.05
16	Selenium as Se	APHA (24 th Edtn) 3114C: 2023	mg/L	BDL (LOD-0.002)	Max 0.01
17	Arsenic as As	IS 3025 (Part 37): 2022	mg/L	BDL (LOD-0.002)	Max 0.01
18	Manganese as Mn	IS 3025 (Part 59): 2006	mg/L	BDL (LOD-0.05)	Max 0.05
19	Aluminium as Al	IS 3025 (Part 55): 2003	mg/L	BDL (LOD-0.03)	Max 0.03
20	Zinc as Zn	APHA 3111B 24 th Edn: 2023	mg/L	BDL (LOD-0.025)	Max 5.00
21	Cadmium as Cd	IS 3025 (Part 41): 2023	mg/L	BDL (LOD-0.003)	Max 0.003
22	Cyanide as CN	IS 3025 (Part 27): 2021	mg/L	<0.01	Max 0.05
23	Lead as Pb	IS 3025 (Part 47): 1994	mg/L	BDL (LOD-0.01)	Max 0.01
24	Mercury as Hg	IS 3025 (Part 48): 1994	mg/L	BDL (LOD-0.001)	Max 0.001
25	Chromium as Cr	IS 3025 (Part 52): 2003	mg/L	BDL (LOD-0.05)	Max 0.05

TEST RESULTS - BIOLOGICAL DISCIPLINE

Sl. No.	PARAMETERS	TEST METHOD	UNIT	RESULT	Requirement as per Acceptable Limit of IS 10500: 2012
1	Total Coliform Bacteria	IS 15185: 2016	---	Present/100ml	Absent/100 ml
2	E coli	IS 15185: 2016	---	Absent/100ml	Absent/100 ml

Note: BDL-Below Detection Limit

LOD-Limit of Detection

Remarks:

End of Report

Shency Joy
TM-Chemical
Checked by:



Remya B
TM-Biological
Authorized Signatory

Laiju P N
Laboratory Head
Authorized Signatory

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

Standards Environmental & Analytical Laboratories

Accreditation & Approval: NABL accredited Testing Laboratory as per ISO/IEC 17025:2017
vide Certificate No. TC - 12939 & "A" Grade Laboratory approved by KSPCB.

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Tel. 0484-2546660, 93872 72402, 90743 41443, Web: www.sealabs.in, E-mail: seaalab@gmail.com

APPENDIX (K)(C)

[See rule 5 (5)(2)]

Form II

[Certificate from KSECBC licensed engineer /BEE certified building energy auditor to be enclosed with the application for Building Permit for KSECBC compliant building]

CERTIFICATE

I am Kerala State Energy Conservation Building Code (KSECBC) certified professional/ BEE certified building energy auditor having registration No/EMC/BEEE/2021/010 under the Energy Conservation

Act 2001 and am / are authorized to scrutinize and verify the design of KSECBC Compliant Building. I certify that -

- (a) I have scrutinized the construction documents duly signed by the owner/design professional showing all the pertinent data and features of the building, equipment and systems in sufficient details covering Building Envelope, HVAC, Service hot water, Lighting and Electrical power in accordance with Municipal Bye-laws and with the KSECBC, in respect of building proposed to be constructed on plot under Survey/Re Survey No:
- 352/12-1, 352/12, 352/13,
353/16, 353/12, 353/6, 353/5, 353/13,
353/10, 353/14, 354/13-3-1, 354/3-3,
353/14, 353/8, 353/7, 353/3, 353/2-2,
353/15, 354/2-1, 354/2, 354/2-4, 354/3-1,
354/6-7, 354/3-6-1, 354/3-8, 354/3-4,
354/1-3-1, 354/1-3, 354/1-2, 354/1-1-1,
354/1-1, 354/2-2-1, 354/2-2, 354/3-2,
354/2-3, 354/3, 353/3-3, 353/3-5, 353/9,
353/11, 353/18, 353/17
- Block No 18 of Nattakom village in Kottayam taluk, Kottayam district Kottayam Municipality.
- (b) I have scrutinized the compliance forms together with the check-lists to ensure compliance with the KSECBC.
- (c) The requisite documents incorporating the energy conservation measures have been duly inspected by the undersigned.
- (d) The Energy Performance Index Ratio of the building design as per construction documents at the design stage is equal to or less than one and is therefore in compliance with the KSECBC.
- (e) It is certified that all the required scrutiny and verification on the documents submitted have been carried out diligently and truthfully and all reasonable professional skill, care and diligence have been taken in scrutinizing and verifying the drawings of the buildings and compliance forms together with check-lists covering the various components of the KSECBC.
- (f) The contents of all the documents submitted along with the application are a true representation of the facts and nothing has been concealed.
- (g) There is no objection for issue of Building Permit in respect of the aforesaid proposed Building in so far as requirements of KSECBC are concerned.

Signature

Name of the KSECBC certified Licensed Engineer/

BEE Certified building energy auditor

Registration No/SEAL.

Date. 14/5/24

PRIYAN B. (B.E) (BEEE)

Building Energy Efficiency Expert

BEEE ID: EMC/BEEE/2021/010

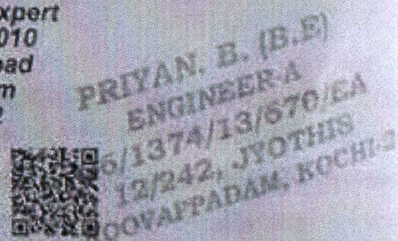
12/242, Arakkaparambu Road

Koovalpadam, Ernakulam

Kerala, Cochin - 682 002

Mob: 9447200294

This is a digitally signed Gazette.

Authenticity may be verified through <https://www.kerala.gov.in>

[See rules 115 (2)]

Pollution Under Control Certificate

Authorised By :

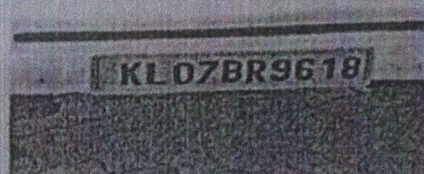
GOVERNMENT OF KERALA

Date : 03/01/2023
 Time : 11:41:18 AM
 Validity upto : 02/07/2023



Certificate SL. No. : KL00700490013192
 Registration No. : KL07BR9618
 Date of Registration : 19/Aug/2011
 Month & Year of Manufacturing : July-2011
 Valid Mobile Number : *****5879
 Emission Norms : BHARAT STAGE III
 Fuel : DIESEL
 PUC Code : KL0070049
 GSTIN :
 Fees : Rs.110.00
 (GST to be paid extra as applicable)
 MIL observation : No

Vehicle Photo with Registration plate
 60 mm x 30 mm



Sr. No.	Pollutant (as applicable)	Units (as applicable)	Emission limits	Measured Value (upto 2 decimal places)
1	2	3	4	5
Idling Emissions	Carbon Monoxide (CO)	percentage (%)		
	Hydrocarbon, (THC/HC)	ppm		
High idling emissions	CO	percentage (%)		
	RPM	RPM	2500 ± 200	
	Lambda	-	1 ± 0.03	
Smoke Density	Light absorption coefficient	1/metre	2.45	2.43

This PUC certificate is system generated through the national register of motor vehicles and does not require any signature.

Note : 1. Vehicle owners to link their mobile numbers to registered vehicle by logging to <https://puc.parivahan.gov.in>

Authorised Signature with stamp of PUC operator
 60mm x 20 mm

MATHRUKA POLLUTION CONTROL
 IMG Jn., KANKADU, KOCCHI
 0471-252725, 0471-252726
 No. 10/2019

Form 59

[See rules 115 (2)]

Pollution Under Control Certificate

Authorised By :

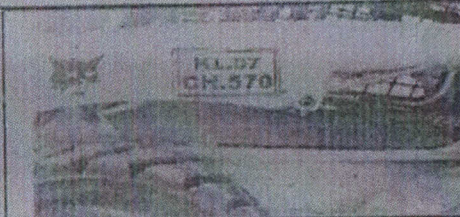
GOVERNMENT OF KERALA

Date : 06/04/2023
 Time : 16:14:35 PM
 Validity upto : 05/10/2023



Certificate SL. No. : KL00500100010732
 Registration No. : KL07CH0570
 Date of Registration : 25/Aug/2016
 Month & Year of Manufacturing : -2015
 Valid Mobile Number : *****2685
 Emission Norms : BHARAT STAGE III
 Fuel : DIESEL
 PUC Code : KL0050010
 GSTIN :
 Fees : Rs.110.00
 (GST to be paid extra as applicable)
 MIL observation : No

Vehicle Photo with Registration plate
 60 mm x 30 mm



Sr. No.	Pollutant (as applicable)	Units (as applicable)	Emission limits	Measured Value (upto 2 decimal places)
1	2	3	4	5
Idling Emissions	Carbon Monoxide (CO)	percentage (%)		
	Hydrocarbon, (THC/HC)	ppm		
High idling emissions	CO	percentage (%)		
	RPM	RPM	2500 ± 200	
	Lambda		1 ± 0.03	
Smoke Density	Light absorption coefficient	1/metre	2.45	0.81

This PUC certificate is system generated through the national register of motor vehicles and does not require any signature.

Note : 1. Vehicle owners to link their mobile numbers to registered vehicle by logging to <https://puc.parivahan.gov.in>

Authorised Signature with stamp of PUC operator
 60mm x 20 mm

Form 59

[See rules 115 (2)]

Pollution Under Control Certificate

Authorised By :
GOVERNMENT OF KERALA

Date : 08/04/2023
Time : 15:24:04 PM
Validity upto : 07/10/2023



Certificate SL. No. : KL00500100010736
Registration No. : KL07BS1305
Date of Registration : 05/Sep/2011
Month & Year of Manufacturing : 2011
Valid Mobile Number : *****2685
Emission Norms : BHARAT STAGE III
Fuel : DIESEL
PUC Code : KL0050010
GSTIN :
Fees : Rs.110.00
(GST to be paid extra as applicable)
MIL observation : No

Vehicle Photo with Registration plate
60 mm x 30 mm

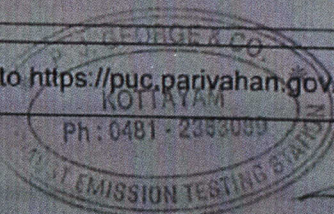


Sr. No.	Pollutant (as applicable)	Units (as applicable)	Emission limits	Measured Value (upto 2 decimal places)
1	2	3	4	5
Idling Emissions	Carbon Monoxide (CO)	percentage (%)		
	Hydrocarbon, (THC/HC)	ppm		
High Idling emissions	CO	percentage (%)		
	RPM	RPM	2500 ± 200	
	Lambda	-	1 ± 0.03	
Smoke Density	Light absorption coefficient	1/metre	2.45	0.33

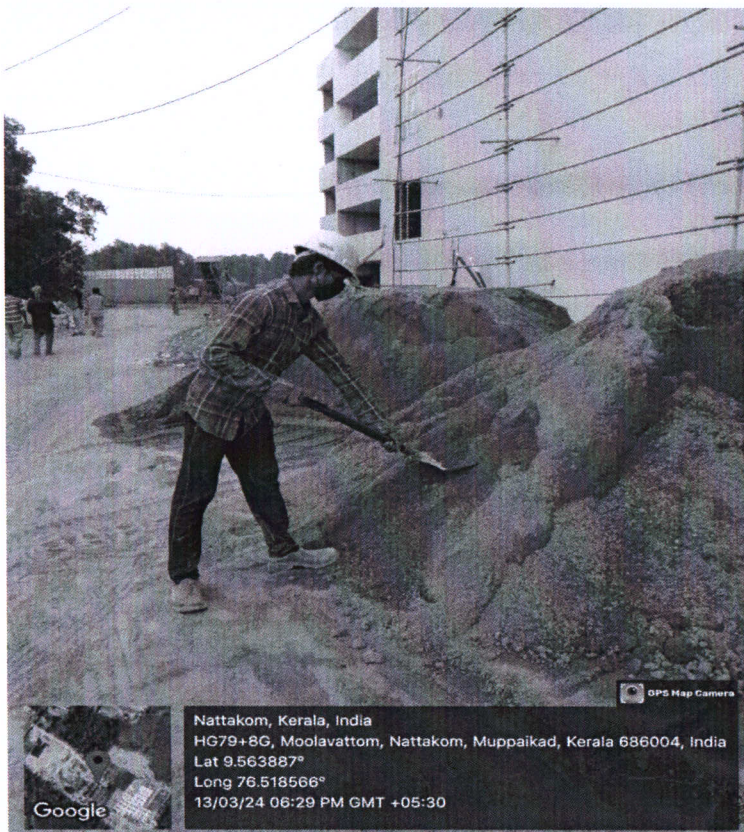
This PUC certificate is system generated through the national register of motor vehicles and does not require any signature.

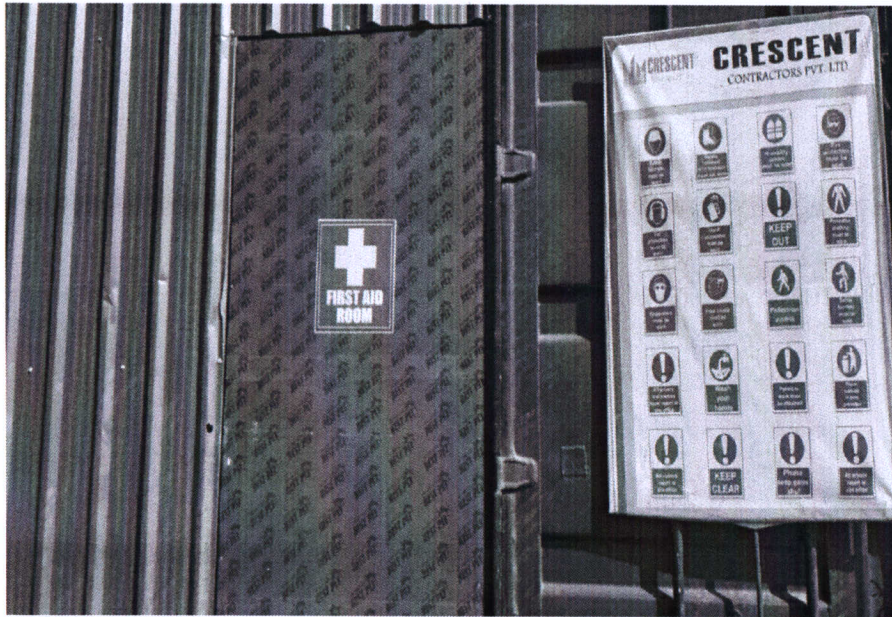
Note : 1. Vehicle owners to link their mobile numbers to registered vehicle by logging to <https://puc.parivahan.gov.in>

Authorised Signature with stamp of PUC operator
60mm x 20 mm



Annexure 20





First Aid room at site



Malls. Hypermarkets. Department stores. Supermarkets

Lulu Mall Kottayam
LULU INTERNATIONAL SHOPPING MALLS PVT.LTD
34, 1000, Old NH 47, Edapally Junction
Nethaji Nagar, Edapally
Kochi – 682 024
Phone No: 0484-2727776/94
Email: lulukochi@luluindia.com

Lulu Shopping Mall Kottayam – EC- EMC Meeting

Meeting No : 3
Date & Time of Meeting : 30-12-2022, 10.30 AM
Venue : Lulu RO Office, Kochi

Attendees:

Name	Designation/ Organization	Title	Absentees
Mr. Sathik Kassim	Commercial Manager - Lulu Kochi	Chairman	
Mr. Babu Varghese	Project Director - Lulu Kochi	Member	
Mr. Paul KO	General Manager (MEP) - Lulu Kochi	Member	
Mr. Midhun Chullickal	Legal officer – Lulu Kochi	Member	
Mr. Beshy Kuriakose	Project Manager – Lulu Kottayam	Member Secretary	

Distribution: All attendees plus

Name	Designation	Organization
Mr. Nishad M A	Director and CEO	Lulu Kochi
Project office		Lulu Kottayam

SI No	Subject/ Action/ Information	Action By	Date
	<p>The Environmental Management Cell was formed as per clause 10.60 of the EC issued to the project. The committee must monitor the actions to be taken to mitigate environmental impacts and other requirements mentioned in EC, if any for this project. This meeting should happen every 6 months. The committee was formed with 1. Mr. Sadik Kasim, Commercial Manager as Chairman; 2. Mr. Babu Varghese, Project Director as Member; 3. Mr. Paul K Olekkengil, General Manager as Member, 4. Mr. Midhun Chullickal, Legal Officer as Member and 5. Mr. Beshy Kuriakose as Member Secretary.</p>		
	<p>The EC was awarded to the project on 22.12.2021 through the environmental clearance number EC21A038KL164412 by Ministry of Environment Forest and Climate change.</p> <p>The committee reviewed all conditions mentioned in the environmental clearance.</p> <p>The committee decided to attend all conditions mentioned in the EC, priority wise as well as project schedule wise.</p> <p>As per the condition mentioned clause 10.4, <i>"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"</i>.</p> <p>The committee reviewed and ensured the previous compliance report was submitted on 14.06.2022, The clearance portal. The next compliance report to be submitted in the month of October 2022,</p> <p>As per the condition mentioned in clause 1.05, in chapter 4, <i>"The project proponent shall obtain Consent to establish from pollution control board"</i>.</p> <p>The project proponent applied for and obtained revised "Consent to establish" from Kerala pollution control board on 02.10.2022.</p>	Lulu	

	<p>As per the clause 11 of chapter 3A, <i>"The Project Proponent is under obligation to obtain approvals / clearances under any other Acts / Regulations or Statutes as applicable."</i></p> <p>It is already applied for obtain building permit from Kottayam municipality as well as the NOC from Kerala fire and rescue department. The committee decided to follow up the same for obtaining approvals.</p> <p>As per the clause 10 of chapter 3A, <i>"The Solar panel vendor M/S Uronic informed that the production of all solar panels has been completed."</i></p> <p>The committee decided to stock the solar panels at own warehouse, till completion of the civil structure.</p> <p>As per Clause 2 of chapter 3A, <i>"The project proponent shall construct 140 KLD capacity sewage treatment plant at the project site".</i></p> <p>The work is already started, and committee evaluated the progress.</p>	Lulu	
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Prepared by Lulu Mall Kottayam

NOTE: The preceding is intended to be an accurate recording of the discussions of the meeting. It is the responsibility of those who present to identify any errors or omissions. These corrections should be noted to the recorder within **two (2) days** of the issuance of these minutes. If no comments are provided in writing within this time frame, the minutes of meeting will be considered as accepted as recorded.