

COMPLIANCE REPORT
APRIL 2025 - SEPTEMBER 2025

**M/S KGA INTERNATIONAL TRADES PVT.
LTD.**

**KOTTAYAM DISTRICT
KERALA**

**KGA International Trades Pvt. Ltd.**

Dt.17-10-2025

The Additional Principal Chief Conservator of Forests (C)
Ministry of Environment, Forests & Climate Change,
4th Floor, E& F Wing, Kendriya Sadan,
Koramangala, Bangalore - 560034

Ref. No.1 :- F. No. 21-95/2021-IA-III Dt. 07-12-2021

Ref. No.2 :- EC identification No. - EC21A038KL118170

Ref. No.3 :- Proposal No. IA/KL/MIS/232468/2021

**Sub :- Environment Clearance – at Vazhappally East Village,
Changanacherry Municipality and Taluk, Kottayam District, Kerala.–
Compliance Report – First half - Reg.**

Respected Sir,

The construction project was accorded Environmental Clearance for **50,911 sq. m** of built-up area on **10-12-2021**, vide **F. No. 21-95/2021-IA-III** by Ministry of Environment Forest and Climate Change, Govt. Of India. As per the condition stipulated in EC order, the half yearly compliance report of **First half** (April 2025 – September 2025) to the specific conditions and standard conditions of the Environment Clearance is enclosed.

Thanking you,

Yours respectfully,

For M/s KGA international Trades Pvt. Ltd.

(Project Head)



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COMPLIANCE REPORT

TO

THE CONDITIONS

OF

ENVIRONMENT CLEARANCE ORDER

(F. NO. 21-59/2021-IA-III)

FOR THE PERIOD OF

April 2025 – September 2025

PREPARED BY

ENVIRONMENTAL ENGINEERS & COUNSULTANTS PVT. LTD.
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INTRODUCTION

M/s KGA international Trades is a commercial project situated at Vazhappally East Village, Changanacherry Municipality and Taluk, Kottayam District, Kerala. The construction project was accorded Environmental Clearance for **50,911 sq.mtr** of built-up area on 10-12-2021 vide order **No F. NO. 21-95/2021-IA-III** by Ministry of Environment, Forest and Climate Change.

The half yearly compliance report needs to be submitted as part of Miscellaneous condition No.4 of Environmental Clearance order by the project proponent. The compliance report to conditions of the Environmental Clearance for the period of **April 2025 - September 2025** (first half) is being submitted.

The piling work was completed. 44.35 % of work has been completed in the project site. Raft foundation work for basement is in progress. The photograph of the project site is attached as Plate.

COMPLIANCE REPORT PART - A SPECIFIC CONDITIONS

SPECIFIC CONDITION

01	Abstraction of groundwater shall be subject to the permission of Central Ground Water Authority (CGWA). Fresh water requirement shall not exceed 105 KLD during operational phase.	Noted
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The basement and foundation works have completed at the project site, and the piling work has been finished. The second and third floor slab work has been underway. Its operational phase the water requirement will not exceed 105 KLD. The proposed project site is located in a safe zone, and therefore does not require clearance from the Central Ground Water Authority (CGWA) for groundwater abstraction. Currently, the Project Proponent does not abstract groundwater, and all water required for construction activities is being sourced externally.

02	As proposed, wastewater shall be treated in an onsite STP of total 200 KLD capacity. At least 154 KLD of treated water from the STP shall be recycled and reused for flushing (121 KLD) gardening (5 KLD) and for make-up water (28 KLD) for cooling towers attached with the HVAC system as proposed.	Noted to be complied
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The construction phase of the building project is currently in progress. During the operational phase, a 280 KLD Sewage Treatment Plant (STP) will be commissioned at the project site to treat all generated wastewater. Of this, a minimum of 154 KLD of treated water will be recycled onsite for uses such as flushing, gardening, HVAC cooling towers, and other non-potable applications. Excavation work for the STP installation is presently underway.

03	The project proponents would commission at 3rd 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 seats using recycled treated waters and fresh waters for flashing, and quality of water being supplied through spray faucets attached to toilet	Will be Complied
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	seats.	
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The project is currently in the construction phase. During the operational period, the Project Proponent will conduct an external study to evaluate the implementation of Environmental Clearance (EC) conditions related to the quantity and quality of recycled and reused treated water, the performance of the treatment systems, the quality of treated water supplied for flushing, and comparative biological assessments of toilet seats using freshwater versus recycled treated water.

04	Area for greenery shall be provided as per the details provided in the project document i.e., area under plantation/ greenery shall be 1600sqm. as proposed. At least 450 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 square metres of land should be planted and maintained. The existing trees will be counted for this purpose. Plantation 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.	Noted
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Construction activities are currently underway. During the operational phase, the project will maintain a minimum of 450 trees within the site. As part of the approved landscape plan, the Project Proponent will ensure the use of native plant species, strictly avoiding invasive and water-intensive varieties. Green space will be developed in accordance with the details submitted to the Expert Appraisal Committee (EAC). A professional landscaping agency will be engaged by the PP to execute the plantation and ensure ecological integrity.

05	No tree can be felled/ transplanted unless exigencies demanded. Where absolutely necessary, tree felling shall be with prior permission from the Concerned regulatory authority. Old tree 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).	Noted
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Permission from the Forest Department to fell trees was not mandatory for this project. Approximately 80 trees were removed from the site, none of which fell under the protected categories listed by the Forest Department. Therefore, as per The Kerala Promotion of Tree Growth in Non-Forest Areas (Amendment) Act, 2007, no prior approval was required for uprooting these trees.

06	Where the trees need to be cut with prior permission from the concern local authority, compensatory plantation in the ratio of 1:10 (i.e., 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.	Noted
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To compensate for the loss of each tree, the Project Proponent has committed to planting ten tree saplings per tree felled. The green belt development will be guided by the data submitted during project appraisal, ensuring alignment with approved plans. As part of the landscape and green belt strategy, all planted saplings will be maintained in healthy condition, and a professional landscaping agency will be engaged to support the development and upkeep of the green space.

07	The local bye-law provisions on rainwater harvesting should be followed. If local bye-law provisions is not available, adequate provision for storage and recharge should be followed as per the Ministry of Urban Development Model Building Byelaws, 2016. As proposed, RWH tank of Total 95 KL capacity shall be provided by PP for rainwater harvesting after filtration.	Being complied
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As mandated under the Kerala Municipality Building Rules (KMBR), the project includes the construction of Rainwater Harvesting (RWH) systems. To promote water conservation, the Project Proponent has initiated the construction of two RWH structures within the project site, with storage capacities of 120 M³ and 117 M³, respectively.

08	The solid waste shall be duly segregated into biodegradable	Noted
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	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 utilised through biogas generation unit/ bio- bin system to be installed within the site. Inert waste shall be disposed off as per norms at authorised site. The recycled waste shall be sold to authorised vendors / recycles. Construction and Demolition C&D waste shall be segregated and managed as per C&D Waste Management Rules, 2016.	
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To ensure effective segregation and management of solid waste, the Project Proponent will establish a dedicated waste management facility at the project site. Biodegradable waste will be processed through Biobins and biogas plants, while non-biodegradable waste will be collected and sold to authorized local vendors. All solid waste handling will strictly adhere to the provisions of the Solid Waste Management Rules, 2016. Additionally, construction and demolition (C&D) waste is being reused onsite for land levelling, filling, and driveway construction, promoting sustainable material reuse.

09	The PP shall provide electric charging points in parking areas for E vehicles as committed.	Will be complied
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Project Proponent will install electric charging points within the designated parking areas to support Electric Vehicles (EVs), promoting sustainable mobility and reducing carbon emissions.

10	As committed, solar water heaters shall be installed on the roof to meet the hot water requirement of at least 14 KLD and solar energy shall be used for external lighting by using light fixtures with standalone solar panel.	Noted
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As part of its commitment to renewable energy, the Project Proponent plans to install 220 kW solar panels on the building rooftop to supply approximately 5% of the electricity demand for common facilities at the project site. Additionally, 120 kW solar panels will be installed specifically for water heating purposes, enhancing energy efficiency and reducing reliance on conventional power sources.

11	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, Statutes as applicable to the project.	Complied
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The Project Proponent has obtained all necessary approvals from relevant departments and authorities to proceed with the construction. The construction activities have commenced and are currently in progress as per the approved plans.

COMPLIANCE REPORT
PART – B
STANDARD CONDITIONS

I. STATUTORY COMPLIANCES

01	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 byelaws.	Complied
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The construction operations are progressing in full compliance with applicable local building byelaws. The Project Proponent has obtained all mandatory licenses, approvals, and clearances from relevant authorities prior to initiating construction activities. The project commenced only after securing the required permissions associated with building development. Below is the list of approvals and licenses obtained by the PP for project execution.

Sl. No	Approvals/Licenses	Issue date	Annexure
01	Structural Stability	28/03/2022	01
02	EC order	07/12/2021	02
03	Building permit	10/06/2022	03
04	Consent for Establishment	26/08/2022	04
05	NOC from Fire and Rescue services	03/08/2022	05

02	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 lightning etc.	Complied
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The Project Proponent has obtained a valid and certified Structural Stability Certificate from a duly approved structural engineer. The building will be constructed in strict adherence to the provisions of the National Building Code (NBC). A copy of the Structural Stability Certificate is enclosed as **Annexure No. 1**

03	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 needed
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Obtaining forest department permission is out of scope of the project because there is no forest land involved in the project.

04	The project proponent shall obtain clearance from the National Board for Wildlife, if applicable.	Not needed
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The project site is located beyond 10 kilometres from any National Park or Wildlife Sanctuary. Therefore, it does not fall under the jurisdiction of the National Board for Wildlife (NBWL), and wildlife clearance is not applicable to this project.

05	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.	Complied
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The Project Proponent has obtained Consent to Establish (CTE) from the State Pollution Control Board, authorizing the commencement of construction activities. A copy of the CTE document is enclosed as **Annexure No. 3**.

06	The project proponent shall obtain the necessary permission for drawl of groundwater / surface water required for the project from the competent authority.	Noted
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The project site is located within a safe zone, and therefore does not require permission from the Central Ground Water Authority (CGWA) for groundwater drawl. If groundwater extraction is considered in the future, the Project Proponent will consult with the Local Self Government. At present, no groundwater is being extracted for the project.

07	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.	Noted
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The Kerala State Electricity Board Limited (KSEBL) is the sole authorized agency responsible for the supply of electricity. No other agency is involved in power distribution within the state.

08	All other statutory clearances such as 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.	Noted
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The Project Proponent has obtained all necessary permissions to commence construction of the commercial building. Relevant licenses and approvals are enclosed in the Annexures. Although Diesel Generator (DG) sets are being used during the construction phase, clearance from the Chief Controller of Explosives is not required, as the diesel storage on site will not exceed 1000 liters, remaining within the permissible limit.

09	The provisions of the Solid Waste Management Rules, 2016, E-Waste (Management) Rules, 2016, and the Plastic Waste Management Rules, 2016, shall be followed.	Being Complied
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All waste generated at the project site will be collected, segregated, and disposed of in accordance with the provisions of the Solid Waste Management Rules, 2016, E-Waste (Management) Rules, 2016, and Plastic Waste Management Rules, 2016. During the construction phase, the Project Proponent is strictly adhering to all applicable waste handling and management guidelines. Dedicated waste collection facilities have been provided onsite, and the bins installed for this purpose are documented in the attached Plate.

10	The project proponent shall follow the ECBC/ECBC-R prescribed by Bureau of Energy Efficiency, Ministry of Power strictly.	Will be Complied
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The Project Proponent is committed to implementing measures in line with the Energy Conservation Building Code (ECBC) for Commercial Buildings, as prescribed by the Bureau of Energy Efficiency (BEE), Ministry of Power. This includes the integration of renewable energy systems, passive design strategies, LED lighting, and water-efficient fixtures. These initiatives are being undertaken in consultation with subject-matter experts to ensure full compliance and promote long-term energy efficiency and sustainability in the commercial building.

II. Air quality monitoring and preservations:

1	Notification GSR 94 (E) 25-012-018 of MoEF&CC regarding Mandatory Implementation of Dust Mitigation Measures for Construction and Demolition Activities for projects requiring Environmental Clearance shall be complied with.	Complied
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Project Proponent has implemented comprehensive dust mitigation measures to control particulate emissions and maintain air quality. These measures include the installation of wind breakers, covering of loose soil stored at the site, regular water sprinkling, and ensuring that vehicles transporting construction materials are properly covered. Additionally, dust-emitting activities such as grinding and earth cutting are being regulated to minimize environmental impact. The dust control measures are attached as **Plate No. 1**.

2	A Management Plan shall be drawn up and implemented to contain the current exceedance in ambient air quality at the site.	Complied
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Project Proponent has prepared a comprehensive Environmental Management Plan (EMP). The project site is actively implementing the prescribed mitigation measures outlined in the EMP to address and reduce ambient air quality exceedances. These actions are aimed at improving site-level air quality and ensuring compliance with applicable environmental standards.

3	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 PM_{2.5} covering upwind and downwind directions during the construction period.	Complied
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The Project Proponent conducts periodic monitoring of PM 2.5 and PM 10 concentrations across both upwind and downwind directions to assess the ambient air quality at the project site. These monitoring results are compiled and submitted along with the half-yearly compliance report, ensuring transparency and adherence to environmental standards.

4	Diesel power generating sets proposed as source of back power should be of enclosed type and confirmed to rules made under the Environment (Protection) Act, 1986. The height of stack of DG sets	Will be complied
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	should be equal to the height needed for the combined capacity of all proposed DG sets. Use of low sulphur diesel. The location of the DG sets may be decided with in consultation with State Pollution Control Board.	
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The proposed enclosed diesel generator (DG) units, intended for backup power supply, will fully comply with the applicable norms under the Environment (Protection) Act, 1986. The Pollution Control Board will be consulted to determine the appropriate location and stack height of the DG sets. During the construction phase, enclosed DG sets were utilized to ensure minimal environmental impact and adherence to regulatory standards.

5	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 metre 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.	Complied
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Prior to the commencement of construction activities, the Project Proponent established a suitable barricade around the site to ensure safety and environmental compliance. To mitigate dust and air pollution, continuous dust/wind-breaking walls of at least 3 meters in height have been installed around the project perimeter, along with protective screens for the building under construction. Vehicles transporting materials such as sand, cement, and murram are covered with plastic or tarpaulin sheets to prevent dust dispersion. These measures are actively enforced to maintain air quality standards. **Plate No. 2** provides photographic evidence of the dust control infrastructure. The piling work has been completed, and basement construction is currently underway.

6	Sand, murram, loose soil, cement, stored on site shall be covered adequately so as to prevent dust pollution.	Complied
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To minimize dust pollution at the project site, plastic and tarpaulin sheet covers have been provided for sand, cement, murram, loose soil, and other dust-prone construction materials stored onsite.

7	Wet jet shall be provided for grinding and stone cutting.	Being Complied
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To minimize dust emissions, water jets are being used during cutting and grinding activities at the project site. These operations are conducted within enclosed areas, not in open spaces, ensuring effective dust control and compliance with environmental safety standards.

8.	Unpaved surfaces and loose soil shall be adequately sprinkled with water to suppress dust.	Complied
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Water is being sprinkled in definite intervals at the project site to reduce dust emission from the unpaved surfaces and loose soil stored at project site.

9.	All construction and demolition debris shall be stored at the site (and not dumped in 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.	Being Complied
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The Project Proponent is ensuring that construction and demolition (C&D) waste generated at the site does not cause any disturbance to the surrounding community. All such waste is securely stored within the project premises and is not disposed of on nearby roads or open areas. Waste handling is being carried out in strict accordance with the provisions of the Construction and Demolition Waste Management Rules, 2016. Additionally, the C&D waste is being reused for site levelling and filling, promoting sustainable construction practices.

10	The diesel generator sets to be used during construction phase shall be low sulphur diesel type and shall confirmed to Environmental (Protection) prescribed for air and noise emission standards.	Complied
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To uphold environmental standards and minimize both air and noise pollution, the Project Proponent will utilize low-Sulphur diesel, which is readily available in the market, for operating diesel generator (DG) sets. This initiative is in line with best practices for emission control and demonstrates the PP's commitment to sustainable construction and regulatory compliance under applicable environmental norms.

11	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.	Complied
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During the operational phase, the Project Proponent will consult with the Pollution Control Board (PCB) to finalize the location and stack height of the diesel generator (DG) sets. Sufficient stack height will be provided to ensure the effective dispersion of gaseous emissions, in full compliance with applicable environmental regulations. To address noise pollution, all DG sets will be fitted with acoustic enclosures. The enclosed DG set utilized during the construction phase is documented in **Plate No. 3**.

12	For indoor air quality the ventilation provisions as per National Building Code of India.	Will be Complied
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The project proponent will make provision for sufficient ventilation. The proponent of the commercial project must keep the indoor air quality well within the acceptable range.

III. Water quality monitoring and preservation:

1	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 system (SUDS) are allowed for maintaining the drainage pattern and to harvest rain water.	Complied
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There is no stream located within the project site, and the Project Proponent is taking all necessary precautions to ensure that construction activities do not obstruct the natural drainage pathways, wetlands, or water bodies in and around the site. The natural drainage system will be preserved and maintained to facilitate the unrestricted flow of water, in alignment with environmental safeguards and sustainable site development practices.

2	Buildings shall be designed to follow the natural topography as much as possible. Minimum cutting and filling should be done.	being Complied
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The natural topography of the project site has been carefully considered in the design of the building and stormwater runoff drainage system. The Project Proponent is committed to preserving the site's terrain throughout the construction process, ensuring minimal cutting and filling activities. A suitable drainage system has been implemented to effectively manage stormwater flow, thereby supporting sustainable site development and reducing the risk of waterlogging or erosion.

3	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 compliance reports.	Will be Complied
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To ensure responsible water management, the Project Proponent will install water meters at the project site to track and document the usage of freshwater, recycled water, and rainwater harvesting. The recorded data will be compiled and submitted along with the Half-Yearly Compliance Report to the Regional Office of the Ministry of Environment, Forest and Climate Change (MoEF&CC), in accordance with regulatory requirements.

4	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 consideration, and the balance water available. This should be specified separately for groundwater and surface water sources, ensuring that there is no impact on other users.	Noted
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The business project does not receive water from the municipal authority. However, adequate water supply is available from the Kerala Water Authority, which has confirmed its capacity to support the project and is able to issue a supply certificate as required. During the construction phase, water is being procured externally to meet building-related requirements, ensuring uninterrupted progress and compliance with resource management protocols.

5	At least 20 percentage of the open spaces as required by the local building bye-laws shall be previous. Use of grass pavers, paver blocks with at least 50 percentage opening, landscape, etc. would be considered as pervious surface.	Being Complied
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In accordance with the local Building Bye-laws, it is mandatory to allocate open spaces within the project site. The Project Proponent will ensure that a minimum of 20% of the site area is designated as open space with pervious surfaces.

6	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.	Will be Complied
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To facilitate a dual plumbing system at the project site, the Project Proponent will construct a Sewage Treatment Plant (STP) for treating used water.

7	Use of water saving devices / fixtures (viz. low flow flushing systems. Use of low flow faucet, tap aerators, etc.) for water conservation shall be incorporated in the building plan.	Will be Complied
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Project Proponent will install water-saving fixtures and devices throughout the built environment. These measures have been integrated into the building plan, ensuring efficient water use and alignment with sustainable development practices.

8	Separation of grey and Blackwater 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.	Will be Complied
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The Project Proponent will implement a dual plumbing system at the project site to ensure the separation of greywater and blackwater. This infrastructure is designed to support efficient wastewater management, enabling the reuse of treated greywater for non-potable applications.

9	Water demand during construction should be reduced by use of pre-mixed concrete, curing agents and other best practices referred.	Complied
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A batching plant has been utilized to ensure efficient material handling, and rainwater harvesting systems have been incorporated to support water conservation. As part of these efforts, the PP has used a total of 20,265.17 m³ of ready-mix concrete for the construction of the current project.

10	Rainwater harvesting recharge pits/ storage tanks shall be provided for groundwater recharging as per the CGWB norms.	Being Complied
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Rainwater harvesting tanks are being built on the project site by the project proponent. The ground water recharge pit is not recommended because of the region's higher ground water table.

11	A rain water harvesting plan needs to be designed where the recharge bores of minimum one recharge bore per 5000 squares of built up area and storage capacity of minimum one day of total freshwater requirement shall be provided. In areas where groundwater recharge is not feasible, the rainwater should be harvested and stored for reuse. The groundwater shall not be withdrawn without approval from Competent Authority.	Will be complied
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To collect rainwater from the roof, the project proponent is being build two rainwater harvesting tanks on the project site. Rainwater harvesting tanks will have a combined capacity of 230KL.

12	All recharge should be limited to shallow aquifer.	Noted
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Considering the high groundwater table in the project area, the project proponent has determined that direct groundwater recharge is not practical for the commercial construction project. However, as part of the site's sustainable water management plan, the PP will make efforts to utilize rainwater harvesting systems to support groundwater recharge wherever feasible, thereby contributing to long-term aquifer sustainability.

13	No groundwater shall be used during construction phase of the project.	Complied
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During the construction phase, the Project Proponent does not utilize groundwater for any project-related activities. Instead, water is procured from external sources, ensuring responsible resource management and compliance with local environmental regulations.

14	Any groundwater 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 groundwater abstraction or dewatering.	Noted
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Although CGWA approval is not required because the proposed site is in a safe zone, the project proponent will engage with the state's ground water department if groundwater dewatering is necessary.

15	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 Regional Office, MOEF&CC along with six monthly Monitoring reports.	Will be Complied
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The proponent will install water meters across the project site to accurately track and document the usage of freshwater, recycled water, and rainwater harvesting. The collected data will be systematically compiled and submitted along with the Half-Yearly Compliance Report to the Regional Office of the Ministry of Environment, Forest and Climate Change (MoEF&CC), in accordance with regulatory obligations.

16	Sewage shall be treated in the STP with tertiary treatment. As proposed, no treated water shall be disposed into municipal drain.	Will be Complied
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To promote wastewater recycling, the project proponent is currently constructing a Sewage Treatment Plant (STP) with a capacity of 280 KLD. The treated water will be reused for gardening, flushing, and other non-potable applications, thereby reducing freshwater demand. The municipal drain will not be used to dispose of treated water.

17	Onsite sewage treatment of capacity of treating 100 percentage waste water to be installed. The installation of the Sewage Treatment Plant (STP) shall be certified by an independent expert and a report in 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 another 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.	Will be Complied
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The proposed Sewage Treatment Plant (STP) at the project site is designed to treat all sewage generated within the premises. Prior to the commencement of operational services, the installation of the STP will be certified by an independent expert, ensuring that it meets all technical and environmental standards and a report on the matter will be sent to the Ministry.

18	Periodical monitoring of water quality of treated sewage shall be conducted. Necessary measures should be made to mitigate the odour problem from STP.	Will be Complied
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The project proponent will conduct monthly monitoring of the treated water from the Sewage Treatment Plant (STP) to assess compliance with prescribed parameter standards.

The PP is committed to the regular maintenance and efficient operation of the STP to ensure optimal performance.

19	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 Sewage and Sewage Treatment System, 2013.	Will be Complied
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Project proponent will install a dewatering machine to reduce the moisture content of sludge generated from the Sewage Treatment Plant (STP). The resulting dewatered sludge, processed into sludge cakes, can be safely repurposed as manure for landscaping and gardening, thereby supporting resource recovery and promoting sustainable waste utilization.

I. Noise Monitoring and Prevention

1	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.	Will be Complied
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The project proponent is actively implementing measures to minimize air and noise pollution during the development phase of the project. Key strategies include the use of wet jets for grinding to suppress dust emissions, covering loose soil and construction areas, and regular water sprinkling to control particulate matter. Additionally, noise-generating activities, such as grinding, are restricted to enclosed zones, avoiding open areas to reduce acoustic impact on the surrounding environment. These practices align with recommended construction-phase environmental safeguards.

2	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 part of six - monthly compliance report.	Complied
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The project proponent engaged an NABL- and PCB-approved laboratory to monitor ambient noise levels. Results are submitted with the Half-Yearly Compliance Report to regulatory authorities.

3	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.	Complied
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The PP has implemented several control measures, including the installation of acoustic enclosures for DG sets, noise barriers around ground-run bays, and the provision of earplugs to operating personnel. These measures aim to protect workers and minimize disturbance to the surrounding environment. Furthermore, acoustic enclosures will continue to be used during the operational phase to ensure sustained noise control.

IV. Energy Conservation Measures:

1	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 come play with the state ECBC.	Will be complied
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The Bureau of Energy Efficiency's Energy Conservation Building Code recommendations have been compiled by the project proponent.

2	Outdoor and common area lighting shall be LED	Will be Complied
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To save energy, all of the lighting that is placed both inside and outside the project will be LED.

3	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 into building design. Wall, window and roof U-values, shall be, as per ECBC specifications.	Being Complied
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The current project is a commercial development, and its architectural design prioritizes energy conservation. All building rooftops are designed to receive adequate daylight, reducing dependence on artificial lighting. The design complies with the Energy Conservation Building Code (ECBC) specifications, particularly with respect to the U-values of roofs, windows, and walls, ensuring optimal thermal performance and energy efficiency throughout the built environment

4	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.	Will be Complied
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The project proponent has installed LED lighting across the exterior and common areas of the commercial building to enhance energy efficiency. Additionally, the PP will recommend LED fixtures for individual lessee spaces, promoting reduced energy consumption and alignment with sustainable building practices.

5	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, bye-law requirement, whichever is higher.	Will be Complied
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As part of its commitment to promoting renewable energy, the PP will install 220 kW capacity solar panels and solar-powered streetlights at the project site. This system is designed to generate approximately 1% of the total electrical demand load, contributing to energy sustainability. A total of 120 solar panels will be deployed across the site to support this initiative.

6	Solar power shall be used for lighting in apartment to reduce the power load on grid. Separate electric meter shall be installed for solar power. Solar water heating shall be provided to meet 20 percentage of the hot water demand of the commercial and institutional building or as per the recruitment of the local building byelaws, whichever is higher. Residential buildings are also recommended to meet its hot water demand from solar water heaters, as far as possible.	Will be Complied
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To promote renewable energy adoption, PP will install a dedicated electric meter to monitor solar power generation. The project site will also be equipped with solar water heating systems, enhancing energy efficiency in daily operations. Furthermore, solar energy will be utilized for apartment lighting, thereby reducing the load on the conventional power grid and supporting sustainable living practices.

V. Waste Management:

1	A certificate from the competent authority handling municipal solid wastes, including the existing civic capacities of handling and their adequacy to cater to the M.S.W generated from project shall be obtained.	Will be complied
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To manage biodegradable waste generated at the project site, the PP will install a biobin system and a biogas plant, enabling on-site treatment and energy recovery. For non-biodegradable waste, disposal will be facilitated through authorized local vendors. As a result, the PP will not require support from the Local Self Government or any other public agency for solid waste management, ensuring self-sufficiency and regulatory compliance

2	Disposal of muck during construction phase shall not create any adverse effect on the neighboring communities and be disposed taking the necessary preparations for general safety and health aspects of people, only in approved sites with the approval of competent authority.	Complied
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The disposal of muck has been managed responsibly by the PP with no adverse impact on the surrounding community. The excavated muck is being reused as filler material within the project site or for approved purposes, ensuring environmentally sound practices and compliance with construction waste management norms.

3	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.	Will be complied
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To ensure proper collection and segregation of waste generated from the commercial buildings, the proponent will provide separate bins for wet and dry waste. This system will facilitate the effective separation of wet waste, inert materials, and other solid waste streams, promoting environmentally responsible disposal and compliance with municipal solid waste handling norms.

4	Organic waste compost / vermiculture pit/Organic Waste Converter within the premises with a minimum capacity of 0.3 kg/person/day must be installed.	Will be Complied
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The PP will install dedicated facilities for the disposal and treatment of biodegradable waste, including an organic waste converter, bio-bin, and biogas plant. These systems will support on-site waste processing, reduce environmental impact, and promote sustainable resource recovery.

5	All non-biodegradable waste shall be handed over to authorized recyclers for which a written tie up must be done with the authorized recyclers.	Will be Complied
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The PP has arranged for the transfer of non-biodegradable waste generated during the construction phase to authorized recyclers. For the operational phase, a formal agreement will be established with a recognized recycling agency to ensure the continued responsible disposal and recycling of non-biodegradable waste. Additionally, local traders will be engaged to purchase recyclable materials, supporting circular economy practices.

6	Any hazardous waste generated during the construction phase, shall be disposed off as per applicable rules and norms with necessary approvals of the State Pollution Control Board.	Complied
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The PP has obtained clearance from the State Pollution Control Board for an authorized agency to manage the disposal of hazardous waste generated at the project site. All hazardous materials will be collected at a designated location identified by the PP and handled in strict accordance with the Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016, ensuring full regulatory compliance and environmental safety.

7	Use of environment friendly materials in bricks, blocks and other construction materials, shall be required for at least 20 percentage of the construction material quantity. These include fly ash bricks, hollow bricks, AACs, fly ash lime, gypsum blocks, compressed earth blocks and other environment friendly materials.	Complied
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The PP is utilizing environmentally friendly materials including sustainable bricks, blocks, and other construction components for at least 20% of the total construction material requirement.

8	Fly ash should be used as building materials in the construction as per the provision of Fly Ash Notification of September, 1999 and amended as on 27th August, 2003 and 25th January 2016, Ready mixed concrete must be used in building construction.	Noted
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The proposed commercial building is being constructed using fly ash-supplemented materials, promoting resource efficiency and reducing the environmental footprint. To further enhance sustainability, the proponent has utilized ready-mixed concrete on-site, which helps minimize water consumption and control pollutant emissions. For the foundation construction, a total of 20,265.17 m³ of ready-mix concrete has been deployed, reflecting the project's commitment to eco-conscious building methods.

9	Any wastes from construction and demolition activities thereto shall be managed so as to strictly conform to the Construction and Demolition Waste Management Rules, 2016.	Complied
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All waste generated from construction and demolition (C&D) activities at the project site is being managed in accordance with the Construction and Demolition Waste Management Rules, 2016.

10	Used CFLs &TFLs should be properly collected and disposed off/sent for recycling as per the prevailing guidelines / rules of the regulatory authority to avoid mercury contamination.	Will be complied
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To prevent mercury exposure, the PP will ensure that all used CFLs and TFLs are collected and disposed of responsibly, in strict adherence to prevailing environmental regulations. The proposed project will exclusively utilize LED lighting, which is free from mercury and more energy-efficient. Furthermore, all used LED fixtures will be disposed of in compliance with applicable waste management rules, reinforcing the project's commitment to safe and sustainable lighting practices.

VI. GREEN COVER

01	No tree can be felled/ transplanted unless exigencies demanded.	Noted
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At the project site, all existing trees that can be retained will be preserved as part of the Project Proponent's commitment to ecological conservation. The removal of certain trees did not require prior approval from the competent authority, as these species are not listed under the Kerala Promotion of Tree Growth Act, 2007, which mandates a No Objection Certificate (NOC) for protected species. As a compensatory measure, the PP will ensure the plantation of tree saplings equivalent to or exceeding the number of trees removed, thereby supporting green cover restoration and sustainable site development.

2	Topsoil should be stripped to a depth of 20 cm from areas proposed for buildings, roads, paved areas and external services. It should be stockpiled, appropriately in designed areas and reapplied during plantation of the proposed vegetation on site.	Complied
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To conserve fertile soil resources, the Project Proponent has carefully removed topsoil from areas designated for buildings, roads, paved surfaces, and external services to a

depth of 20 cm. The excavated topsoil has been stockpiled in designated locations within the project site. Upon commencement of landscaping and vegetation planting, this nutrient-rich topsoil will be reapplied to support healthy plant growth and promote ecological restoration.

VII. Transport:

1	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. <ol style="list-style-type: none"> a. Hierarchy of roads with proper segregation of regular and pedestrian traffic. b. Traffic calming measures. c. Proper design of entry and exit points. d. Parking norms as per local regulation. 	Noted
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The proposed commercial project is situated in Changanacherry town, adjacent to the Main Central (MC) Road, which serves as a key arterial route connecting Trivandrum and Ernakulam. The site benefits from a well-developed road network, with all surrounding roads constructed and maintained by the State Government, ensuring reliable accessibility and transportation infrastructure for the project.

2	Vehicles hired for bringing construction materials to the site should be in good condition and should have a pollution check certificate and should conform to applicable air and noise emission standards be operated only during non-peak hours.	Complied
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All vehicles arriving at the project site for loading and unloading activities are maintained in good operational condition and possess valid Pollution Under Control (PUC) certificates, ensuring adherence to environmental norms. To minimize traffic congestion and ensure safety, transportation activities are regulated during peak hours, in alignment with local traffic management guidelines.

3	A detailed traffic management and traffic decongestion plan shall be drawn up to ensure that the current level of the service of the roads within a 05 kilometers radius of the project is maintained and improved upon after the implementation of the project. This plan should be based on cumulative impact of old development and increased habitation being carried out or proposed to be carried out by the project or other agencies in this 5 kilometers 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 PWD/ 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.	Noted
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To ensure that the existing road infrastructure within the project site is both preserved and improved post-construction, the PP has formulated a comprehensive traffic management and decongestion plan. This strategy addresses vehicular flow, peak-hour regulation, and internal circulation, thereby supporting safe access, reduced congestion, and long-term road quality enhancement.

VIII. Human Health Issues:

1	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.	Complied
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On the project site, there are roughly 185 workers. As part of health and safety, the project sponsor has given all workers on the project site a mask, boot, gloves, helmet, etc.

2	For indoor air quality, the ventilation provisions as per National Building Code of India.	Will be Complied
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The instant commercial building will have adequate ventilation provisions like windows and balcony.

3	Emergency preparedness plan based on the Hazard Identification and Risk Assessment (HIRA) and Disaster Management plan shall be implemented.	Complied
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The Project Proponent has developed a comprehensive Disaster Management Plan (DMP) to address potential emergencies during both construction and operational phases.

4	Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile, STP safe drinking water, medical health care, creche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.	Complied
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The PP has arranged labour camp for construction workers at a location approximately 9 kilometres from the project site. These accommodations are built using removable structures that will be dismantled upon project completion. To ensure worker welfare, the site is equipped with essential facilities including portable restrooms, medical care, and kitchen amenities, in alignment with labour welfare and occupational health standards.

5	Occupational health surveillance of the workers shall be done on a regular basis.	Complied
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The PP ensures regular monitoring of workers at the project site for occupational health concerns, in alignment with prescribed safety standards. During the construction phase, a certified Health and Safety Officer is deployed to oversee compliance with health protocols, conduct routine inspections, and implement preventive measures to safeguard worker well-being.

6	A first Aid Room shall be provided in the project both during construction and operations of the project.	Complied
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A dedicated First Aid Room has been established at the project site to ensure immediate medical support during both the construction and operational phases. This facility is equipped to handle minor injuries and health emergencies, in alignment with occupational health standards. The photographic documentation of the installed First Aid Room is provided as **Plate No. 4**.

IX. Miscellaneous:

1	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 7 days indicating that the project has been accorded environment clearance and the details of MoEF&CC/SEIAA website where it is displayed.	Complied
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In accordance with regulatory requirements, the PP has publicly disclosed the Environmental Clearance (EC) details through prominent advertisements in two local newspapers The New Indian Express (English) and Deepika (Malayalam) dated 03-02-2022. This ensures transparent communication with the public and stakeholders. A copy of the published advertisement is enclosed as **Annexure No. 6**.

2	The copies of the environmental clearance shall be submitted by the project proponent to the Heads of local bodies, Panchayat 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.	Complied
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The PP has formally submitted a copy of the Environmental Clearance (EC) to the Heads of the relevant Local Bodies, ensuring regulatory transparency and institutional compliance.

3	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.	Complied
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The PP has uploaded the status of compliance with the conditions stipulated in the Environmental Clearance (EC), along with monitored results for key environmental

parameters including Ambient Air Quality, Noise Levels, and Water Quality, on the company's official website. These updates are carried out on a half-yearly basis, ensuring transparency and adherence to regulatory norms. Copies of the monitoring results are enclosed as **Annexures No. 7 to 10**. The disclosed information is publicly accessible at: <https://kgacompany.com/kmc-moef-documents>.

4	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.	Complied
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The Project Proponent regularly submits six-monthly compliance reports on the Parivesh Portal, outlining the extent to which the project adheres to the stipulated environmental conditions.

5	The company shall have a well laid down environmental policy, duly approved by the Board of Directors. The environmental policy should prescribe for standard operating procedures to have proper checks and balances and to bring into focus any infringements/ deviations/ violation of the environmental/ Forest/ wildlife norms/ conditions. The company shall have confined system of reporting infringements/ deviation/ violation of the environmental/ forest/ wildlife norms/ conditions and over shareholders stakeholders. The copy of the board resolution in this regard shall be submitted to the MoEF&CC as a part of six-monthly report.	Complied
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The board of directors has formally accepted the environmental policy that the project proponent has created. The guidelines outlined in the EC order serve as the basis for the policy's preparation. The current project involves developing a commercial structure.

6	A separate Environmental Cell both at the project and company headquarter level with qualified personnel shall be set up under the control of senior executive, who will directly report to the head of the organization.	Complied
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With trained personnel, the project proponent established an Environmental Cell at the project and corporate headquarters levels. The cell's leader is a top executive, who has the authority to answer directly to the company's CEO. Below are the specifics of the same. Total of 3 meetings were convened so far.

Environmental Cell at headquarter level

Sl. No.	Name of Members	Designation
1	Mr. K.C. Eapen (Director)	Chairman
2	Mr. Viswapreet. S (Project Director)	Member
3	Mr Anil Kumar M S (Project Engineer)	Member
4	Mr Shamsudeen Mustafa (Project Engineer – MEP)	Member

Environmental Cell at project site level

Sl. No.	Name of Members	Designation
1	Mr. Abraham Thomas (Project Manager)	Chairman
2	Mr. James Joseph (Senior Planning Engineer)	Member
3	Mr. Byju K C (HSE Officer)	Member
4	Mr. Tomy Thomas (Officer Accounts & Admin)	Member

7	Action plan for implementing EMP and environmental conditions along with responsibility matrix of the company shall be prepared and shall be duly approved by competent authority. The year wise funds earmarked for environmental protection measures shall be kept in separate account and not to be diverted for any other purpose. year wise progress of implementation of action plan shall be reported to the Ministry Regional Office along with the Six-Monthly Compliance Report.	Complied
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A comprehensive assessment of environmental conditions has been conducted, and an Environmental Management Plan (EMP) implementation action plan has been formulated to ensure effective mitigation and monitoring. To uphold financial transparency, funds earmarked for environmental protection measures are maintained in an independent

account. Additionally, half-yearly compliance reports, including updates on the EMP implementation status, are regularly submitted to the Regional Office of the Ministry of Environment, Forest and Climate Change (MoEF&CC).

8	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.	Complied
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In compliance with the Environment (Protection) Rules, 1986, the project proponent has submitted the Environmental Statement in Form-V to the State Pollution Control Board for each financial year. These submissions reflect the project's adherence to prescribed environmental norms and operational transparency. The same has been uploaded to the company's official website for public access. A copy of the submitted Form-V is enclosed as **Annexure No. 10.**

9	The project proponent shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities, commencing the land development work and start of production operation by the project.	Will be Complied
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The PP has initiated land preparation activities at the project site, including site clearing and fencing installation, as part of the pre-construction phase. To proceed with construction, the PP has obtained the requisite Building Permit from the competent authority. A copy of the permit is enclosed as Annexure.

10	The project authorities must strictly adhere to the stipulations made by the State Pollution Control Board and the State Government.	Complied
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The project is under construction stage. The all stipulations made by the State Pollution Control Board and State Government is being strictly followed.

11	The project proponent shall abide by all the commitments and recommendations made in the EIA/EMP report and also that during their presentation to the Expert Appraisal Committee.	being Complied
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The project proponent is being abided by all the commitments and recommendations made in the EIA / EMP report and during presentation at Expert Appraisal Committee.

12	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 to be Complied
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The project proponent will apply for fresh EC in case the management decided for further expansion or modification of the project.

13	Concealing factual data or submission of false / fabricated data may result in revocation of this environmental clearance and attract action under the Provision of Environmental (Protection) Act, 1986.	Noted
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All data and documentation submitted to the Expert Appraisal Committee (EAC) were accurate, complete, and truthful, with no information withheld or misrepresented. This reflects the PP's commitment to ethical compliance and regulatory integrity.

14	The ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.	Will be Complied
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The project proponent is being implemented all conditions stipulated in the EC order. Some of the conditions will be implemented during its operational period.

15	The ministry reserves the right to stipulate additional conditions If found necessary. The company in a time bound manner shall implement these conditions.	Will be Complied
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The PP affirms its readiness to adhere to any additional conditions that may be stipulated by the competent authority at any stage of the project's construction or operational phase. This reflects the PP's commitment to regulatory compliance, environmental responsibility, and adaptive governance in line with evolving statutory requirements.

16	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.	Will be Complied
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The PP commits to extending full cooperation and logistical support to the officers of the Regional Office of the Ministry of Environment, Forest and Climate Change (MoEF&CC) during their site inspections. This includes facilitating access to relevant documentation, infrastructure, and personnel to ensure transparent evaluation and regulatory compliance.

17	The above conditions shall be enforced, inter-alia under the Water (prevention & control of Pollution) Act, 1974, the Air (prevention & control of Pollution) Act, 1981, the Environment (Protection) Act, 1986. Hazardous and other waste (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 Honorable Supreme Court of India/ High Courts and any other Court of Law relating to the subject matter.	Will be Complied
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The PP affirms full compliance with all conditions stipulated in the Environmental Clearance (EC) order. Furthermore, the PP is committed to adhering to all applicable Indian laws, rules, and regulations governing the development and operation of commercial projects, ensuring responsible execution and regulatory integrity throughout the project lifecycle.

18	Any appeal against this EC shall lie with the National Green Tribunal, if preferred within a period of 30 days as prescribed	Noted
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	under section 16 of the National Green Tribunal Act 2010.	
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There is no appeal against this EC order filed in NGT within a period of 30 days.

ANNEXURE

Annexure No.1



GEO STRUCTURALS (P) Ltd.
GEO TECHNICAL & STRUCTURAL CONSULTANTS

TO WHOMSOEVER IT MAY CONCERN

This is to certify that the structural design of the proposed project in the name and style KGA MALL CHANGANASERRY (BF+LGF+GF+6 Floors), to be constructed in the proposed site bearing survey nos. 28/65; 29; 51/2,3,4,5,6,9 & 56/67 Vazhappaly East, Changanaserry Taluk, Kottayam District having an extent of 16050.00Sq.m as per revenue records and 15792.00Sq.m as per field measurements promoted by KGA International Traders Private Limited, Kundannoor, XI/641, Maradu.P.O, 682304 has been done as per provisions of the relevant Indian Standard Codes and the design is structurally stable. The Structure is designed for Dead load, Live load, Wind load and Earth quake loads taken as per IS:875 Part I to IV & IS:1893 Design is based on the Architectural drawings prepared as per KMBR, 2019.

This certificate is issued to be submitted before the authorities concerned as per rule 81(9) of KMBR, 2019.

Cochin
 28.03.2022

For GEO STRUCTURALS (P) Ltd.,

Dr. ANIL JOSEPH M.E. (S.M.F.E.), M.I.G.S., PhD
 DIRECTOR



DR. ANIL JOSEPH, M.E. (S.M.F.E.), M.I.G.S., Ph.D
 STRUCTURAL ENGINEER
 L2-3532/07/28 11/EA
 GEO STRUCTURALS (P) LTD.
 PULLEPPADY
 KOCHI-682018

41/1004, Vadakumthala Building, Pulleppady, Cochin - 682 018. Ph : 0484-2367824 | 2368327
 CIN : U74210KL2001PTC014716 GST NO : 32AABCG7088C1ZU
 E-mail : geostructurals@gmail.com www.geostructurals.com

Structural Stability Certificate

Annexure No.2



Government of India
Ministry of Environment, Forest and Climate Change
(Impact Assessment Division)

To,

The Director
M/S KGA INTERNATIONAL TRADES PVT. LTD.
Mr. K.C. Eapen, Director, M/s KGA International Trades Pvt. Ltd., XI/641,
Maradu P.O., Ernakulam, Kerala, India, Kottayam, Kerala-686101

Subject: Grant of Environmental Clearance (EC) to the proposed Project Activity under the provision of EIA Notification 2006-regarding

Sir/Madam,

This is in reference to your application for Environmental Clearance (EC) in respect of project submitted to the Ministry vide proposal number IA/KL/MIS/232468/2021 dated 03 Oct 2021. The particulars of the environmental clearance granted to the project are as below.

- | | |
|--|--|
| 1. EC Identification No. | EC21A038KL118170 |
| 2. File No. | 21-95/2021-IA-III |
| 3. Project Type | New |
| 4. Category | A |
| 5. Project/Activity including Schedule No. | 8(a) Building and Construction projects |
| 6. Name of Project | Proposed commercial complex "KGA Mall" (Shopping Mall, Multiplex, Banquet Hall, Food Court, Hotel and Restaurant) project to be developed by M/s KGA International Trades Pvt. Ltd. at Vazhappally East Village, Changanacherry Taluk, Kottayam. |
| 7. Name of Company/Organization | M/S KGA INTERNATIONAL TRADES PVT. LTD. |
| 8. Location of Project | Kerala |
| 9. TOR Date | N/A |

The project details along with terms and conditions are appended herewith from page no 2 onwards.

Date: 10/12/2021

(e-signed)
Dharmendra Gupta
Scientist F
IA - (INFRA-2 sector)

Note: A valid environmental clearance shall be one that has EC identification number & E-Sign generated from PARIVESH. Please quote identification number in all future correspondence.

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F. No. 21-95/2021-IA-III

Government of India

Ministry of Environment, Forest and Climate Change

(IA.III Section)

Indira Paryavaran Bhawan,
Jor Bagh Road, New Delhi - 110003

December 7th, 2021

To,

Shri K.C. Eapen, Director
M/s KGA International Trades Pvt. Ltd.
XI/641, Maradu P.O.,
Ernakulam – 682304, Kerala
E. mail: kc.eapen@kga.group

Subject: Environmental Clearance for Proposed commercial complex “KGA Mall” (Shopping Mall, Multiplex, Banquet Hall, Food Court, Hotel and Restaurant) project with total built up area of 50,911 sqm. to be developed at Vazhappaly East Village, Changanacherry Municipality, Changanacherry Taluk, Kottayam District, Kerala by M/s KGA International Trades Pvt. Ltd. – regarding.

Sir,

This has reference to your Application/Proposal No. IA/KL/MIS/232468/2021; received on 03rd October, 2021 through Parivesh Portal for Environmental Clearance (EC) for ‘Proposed commercial complex “KGA Mall” (Shopping Mall, Multiplex, Banquet Hall, Food Court, Hotel and Restaurant) project with total built up area of 50,911 sqm. to be developed at Vazhappaly East Village, Changanacherry Municipality, Changanacherry Taluk, Kottayam District, Kerala’ by M/s KGA International Trades Pvt. Ltd.

2. As per the provisions of the Environment Impact Assessment (EIA) Notification, 2006; as amended and notified under the Environment (Protection) Act, 1986 (29 of 1986), the above-mentioned project/activity is covered under category ‘B’ of item 8(a) ‘Building and Construction projects’ of the Schedule to the EIA Notification, 2006 and its subsequent amendments, and requires appraisal at State level. However, due to non-existence of SEIAA in Kerala, the proposal required appraisal at Central level by sectoral EAC.

3. Accordingly, the abovementioned proposal for Environmental Clearance has been examined by the Expert Appraisal Committee (Infra-2) in its 75th meeting held during 27-28th October, 2021.

4. The details of the project, as per the application and documents submitted by the project proponent, and also as informed during the above-mentioned meeting of EAC (Infra-2) are as under:

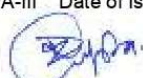
1. The project is located at Survey Nos. 56/67, 28/65, 29, 51/2, 3, 4, 5, 6 & 9 in Block 105 & Survey Nos. 4/1 in Block 104, Vazhappaly East

EC Identification No. - EC21A038KL118170 File No. - 21-95/2021-IA-III Date of Issue EC - 10/12/2021

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Proposal No. IA/KL/MIS/232468/2021

Page 1 of 13



Village, Changanacherry Municipality Changanacherry Taluk, Kottayam District, Kerala with coordinates from 09°26'52.25"N to 09°26'59.05"N Latitude and 76°32'15.01"E to 76°32'19.50"E Longitude.

- ii. The project is new.
- iii. The total plot area is 16,117 sqm. and total construction (Built-up) area is 50,911 sqm. The project will comprise of 1 no. of commercial building block with construction of commercial complex with shopping area / retail area, hotel (54 rooms), banquet hall (1,240 seats), multiplex (670 seats), restaurant / food court (800 seats) & supporting infrastructure facilities. Maximum height of the building is 32.75 m. The details of building are as follows:

Name of Building	Max. no. of floors		Max. Height	Built-up area
Commercial Building Block	Basement + Lower Ground floor + Ground floor + 6 floors		32.75 m	50,911 sqm.
	Floor	Usage		
	Basement	Parking area		
	Ground floor	Shopping mall		
	1 st Floor	Shopping mall		
	2 nd Floor	Multiplex + Food Court		
	3 rd Floor	Banquet Hall		
	4 th – 6 th Floor	Hotel Rooms		

- iv. During construction phase, total water requirement is expected to be 62 KLD which will be met by recycled water from portable STP/Stored rain water (tank) for construction purposes and Kerala Water Authority (KWA) supply for meeting the domestic water requirement expected to be 15 KLD. During the construction phase, portable STP will be provided for disposal of waste water. Temporary sanitary toilets will be provided during peak labor force.
- v. During operational phase, total water demand of the project is expected to be 259 KLD and the same will be met by 105 KLD fresh water from Stored Rain Water Tank (250 KL capacity)/KWA/Ground water and 154 KLD Recycled water. Wastewater generated (171 KLD) will be treated in STP of total 200 KLD capacity. 154 KLD of treated wastewater will be generated which will be recycled and re-used (121 KLD for flushing, 5 KLD for gardening etc.). About 28 KLD treated water from STP will be used for make-up water requirement for cooling towers attached with the HVAC system. Therefore, there is no discharge to the external drainage system or to the land or to any water body.
- vi. About 856 kg/day solid waste will be generated in the project. The biodegradable waste (350 kg/day) will be processed in bio-gas generation unit/OWC unit and the non-biodegradable waste generated (506 kg/day) will be handed over to authorized local vendor.
- vii. The total power requirement during operation phase is 1,534 kWh and will be met from Kerala State Electricity Board (KSEB) & DG Sets (1,250 kVA x 1 nos + 500 kVA x 1 nos.) will be provided as a standby power

- back up arrangement. Total power requirement during construction phase is 100 kW and will be met from KSEB & DG Sets (standby).
- viii. Rooftop rainwater of buildings will be collected in RWH tank of total 250 KL capacity for harvesting after filtration.
- ix. There is a small building existing at site which will be demolished during construction. The demolition waste to be generated will be handled as per the guidelines of Construction and Demolition (C&D) Waste Management & Handling Rules, 2016.
- x. Parking facility for 650 Cars + 1,700 Two Wheelers is proposed to be provided against the requirement of 635 Cars + 1,600 Two Wheelers respectively (according to local norms). Provision for charging for electrically operated vehicles is proposed in each parking floor.
- xi. Proposed energy saving measures would save about 17% of power.
- xii. About 94 nos. of solar water heaters would be installed on the roof to meet the daily hot water requirement of about 14 KL. Solar energy will be used for external lighting by using light fixtures with standalone solar panel.
- xiii. The project is not located in Critically Polluted area.
- xiv. The project is not located within 10 km of Eco Sensitive Zone. NBWL Clearance is not required.
- xv. Forest Clearance is not required.
- xvi. No court case is pending against the project.
- xvii. Green belt area of about 1600 sqm (0.16 Ha) will be developed. 80 trees are existing at the site which will be cut and 450 trees are proposed for plantation.
- xviii. Expected timeline for completion of the project - About 36 months from the date of start of construction.
- xix. Investment/Cost of the project is Rs. 216 Crores.
- xx. Employment potential - About 150 persons during construction phase and about 593 persons during operation phase.
- xxi. Benefits of the project - The project would provide better commercial retail shopping area with supporting infrastructure facilities and amenities to the people. Direct and indirect employment opportunities; The potential for employment and access to new services may draw people to the area around the project. There will be an increase in economic activity and employment for the local community, local skills development. Employment opportunities generation and Revenue to the State.

5. The EAC (Infra 2), based on information and clarifications provided by the project proponent and detailed discussions held on the issues, has recommended granting environment clearance to the project. The aforesaid recommendation of EAC (Infra-2) is subject to certain specific conditions, as stipulated during its 75th meeting held during 27-28th October, 2021.

6. Based on recommendations of EAC (Infra-2), the Ministry of Environment, Forest and Climate Change hereby accords Environmental Clearance to the project for 'Proposed commercial complex "KGA Mall" (Shopping Mall, Multiplex, Banquet Hall, Food Court, Hotel and Restaurant) project with total built up area of 50,911 sqm. to be developed at Vazhappaly East Village, Changanacherry Municipality, Changanacherry Taluk, Kottayam District,

Kerala' by M/s KGA International Trades Pvt. Ltd., under the provisions of the ELA Notification, 2006 and amendments/circulars issued thereon, and subject to the following specific and standard conditions:

A. 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 105 KLD during operational phase.
- ii. As proposed, wastewater shall be treated in an onsite STP of total 200 KLD capacity. At least 154 KLD of treated water from the STP shall be recycled and re-used for flushing (121 KLD) gardening (5 KLD) and for make-up water (28 KLD) for cooling towers attached with the HVAC system as proposed.
- 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 seats using recycled treated waters and fresh waters for flushing, and quality of water being supplied through spray faucets attached to toilet seats.
- iv. Area for greenery shall be provided as per the details provided in the project document i.e., area under plantation/greenery will be 1600 sqm. As proposed, at least 450 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.
- v. 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).
- vi. Where the trees need to be cut with prior permission from the concerned local Authority, compensatory plantation in the ratio of 1:10 (i.e., 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.
- vii. The local bye-law provisions on rain water 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 Byelaws, 2016. As proposed, RWH tank of total 250 KL capacity shall be provided by PP for rain water harvesting after filtration.
- viii. 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/ OWC unit to be installed within the site. Inert waste shall be disposed off 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.

- ix. The PP shall provide electric charging points in parking areas for e-vehicles as committed.
- x. As committed, solar water heaters shall be installed on the roof to meet the hot water requirement of atleast 14 KLD and solar energy shall be used for external lighting by using light fixtures with standalone solar panel.
- xi. 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.

B. Standard Conditions:

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 byclaws.
- ii. The approval of the Competent Authority shall be obtained for structural safety of buildings due to earthquakes, adequacy of fire-fighting equipment etc. as per National Building Code including protection measures from lightening etc.
- 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.
- iv. The project proponent shall obtain clearance from the National Board for Wildlife, if applicable.
- 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.
- vi. The project proponent shall obtain the necessary permission for drawl of ground water/surface water required for the project from the competent authority.
- 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.
- 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.
- 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.

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- x. The project proponent shall follow the ECBC/ECBC-R prescribed by Bureau of Energy Efficiency, Ministry of Power strictly.

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.
- ii. A management plan shall be drawn up and implemented to contain the current exceedance in ambient air quality at the site.
- 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 PM_{2.5}) covering upwind and downwind directions during the construction period.
- 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 low sulphur diesel. The location of the DG sets may be decided with in consultation with State Pollution Control Board.
- 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.
- vi. Sand, murram, loose soil, cement, stored on site shall be covered adequately so as to prevent dust pollution.
- vii. Wet jet shall be provided for grinding and stone cutting.
- viii. Unpaved surfaces and loose soil shall be adequately sprinkled 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.
- x. The diesel generator sets to be used during construction phase shall be low sulphur diesel type and shall conform to Environmental (Protection) prescribed for air and 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.
- xii. For indoor air quality the ventilation provisions as per National Building Code of India.

III. Water quality monitoring 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 rain water.
- ii. Buildings shall be designed to follow the natural topography as much as possible. Minimum cutting and filling should be done.
- iii. The quantity of fresh water 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.
- 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 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.
- v. At least 20% of the open spaces as required by the local building bye-laws shall be pervious. Use of Grass pavers, paver blocks with at least 50% opening, landscape etc. would be considered as pervious surface.
- 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.
- 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.
- 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.
- ix. Water demand during construction should be reduced by use of pre-mixed concrete, curing agents and other best practices referred.
- x. Rain water harvesting recharge pits/storage tanks shall be provided for ground water recharging as per the CGWB norms.
- xi. A rain water 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 fresh water requirement shall be provided. In areas where ground water recharge is not feasible, the rain water should be harvested and stored for reuse. The ground water shall not be withdrawn without approval from the Competent Authority.
- xii. All recharge should be limited to shallow aquifer.
- xiii. No ground water shall be 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.

- xv. The quantity of fresh water 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.
- xvi. Sewage shall be treated in the STP with tertiary treatment. As proposed, no treated water shall be disposed in to municipal drain.
- xvii. No sewage or untreated effluent water would be discharged through storm water drains.
- xviii. Onsite sewage treatment of capacity of treating 100% waste water to be installed. The installation of the Sewage Treatment Plant (STP) shall be certified by an independent expert and a report in this regard shall be submitted to the Ministry before the project is commissioned for operation. Treated waste water 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.
- xix. Periodical monitoring of water quality of treated sewage shall be conducted. Necessary measures should be made to mitigate the odour problem from STP.
- 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.

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.
- 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.
- 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.

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.
- ii. Outdoor and common area lighting shall be LED.
- 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.

- 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.
- 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 bye-laws requirement, whichever is higher.
- vi. Solar power shall be used for lighting in the apartment to reduce the power load on 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 bye-laws, whichever is higher. Residential buildings are also recommended to meet its hot water 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.
- ii. Disposal of muck during construction phase shall not create any adverse effect on the neighbouring 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.
- 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.
- 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.
- 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.
- vi. Any hazardous waste generated during construction phase, shall be disposed off 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 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 27th August, 2003 and 25th January, 2016. Ready mixed concrete must be used in building construction.
- 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.

- x. Used CFLs and TFLs should be properly collected and disposed off/sent for recycling as per the prevailing guidelines/rules of the regulatory authority to avoid mercury contamination.

VII. Green Cover:

- i. No tree can be felled/transplant unless exigencies demand. Where
- ii. 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.

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.
 - a. Hierarchy of roads with proper segregation of vehicular and pedestrian traffic.
 - b. Traffic calming measures.
 - c. Proper design of entry and exit points.
 - d. Parking norms as per local regulation.
- ii. Vehicles hired for bringing construction material to the site should be in good condition and should have a pollution check certificate and should conform to applicable air and noise emission standards be operated only during non-peak hours.
- 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.

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.
- ii. For indoor air quality the ventilation provisions as per National Building Code of India.
- iii. Emergency preparedness plan based on the Hazard identification and Risk Assessment (HIRA) and Disaster Management Plan shall be implemented.
- iv. Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health

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care, crèche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.

- v. Occupational health surveillance of the workers shall be done on a regular basis.
- vi. A First Aid Room shall be provided in the project both during construction and operations of the project.

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 MoEF&CC/SEIAA website where it is displayed.
- 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.
- 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.
- 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.
- 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 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.
- 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.
- 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 earmarked for environmental protection measures shall be kept in separate account and not to be diverted for any other purpose. Year wise progress of implementation of action plan shall be reported to the Ministry/Regional Office along with the Six Monthly Compliance Report
- 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.

- 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 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.
- xi. The project proponent shall abide by all the commitments and recommendations made in the EIA/EMP report and also that during their 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).
- xiii. Concealing factual data or submission of false/fabricated data may result in revocation of this environmental clearance and attract action under the provisions of Environment (Protection) Act, 1986.
- xiv. The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.
- xv. The Ministry reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.
- 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.
- xvii. The above conditions shall be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016, and the Public Liability Insurance Act, 1991 along with their amendments and Rules and any other orders passed by the Hon'ble Supreme Court of India / High Courts and any other Court of Law relating to the subject matter.
- 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.

7. The Environmental Clearance is being granted to M/s KGA International Trades Pvt. Ltd. for Proposed commercial complex "KGA Mall" (Shopping Mall, Multiplex, Banquet Hall, Food Court, Hotel and Restaurant) project with total built up area of 50,911 sqm. to be developed at Vazhappaly East Village, Changanacherry Municipality, Changanacherry Taluk, Kottayam District, Kerala.

8. This issues with the approval of the Competent Authority.



(Dr. Dharmendra Kumar Gupta)
Director (S)

Copy to:

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1. Principal Secretary, Government of Kerala, Department of Environment & Climate Change (DoECC), Devikripa, Pallimukku Pettah P.O., Thiruvananthapuram- 695024, Kerala
2. Regional Officer, Ministry of Environment, Forest and Climate Change, Integrated Regional Office (Southern Zone), Ministry of Environment, Forest and Climate Change, Kendriya Sadan, 4th Floor, E&F Wings, 17th Main Road, Koramangala II Block, Bengaluru – 560034, Karnataka
3. Chairman, Central Pollution Control Board Parivesh Bhavan, CBD-cum-Office Complex, East Arjun Nagar, New Delhi - 110 032.
4. Member Secretary, Kerala State Pollution Control Board, Head Office, Pattom, P. O., Thiruvananthapuram-695004, Kerala
5. Monitoring Cell, MoEF&CC, Indira Paryavaran Bhavan, New Delhi.
6. Guard File/ Record File/ Notice Board/MoEF&CC website.



(Dr. Dharmendra Kumar Gupta)
Director (S)

Copy of Environmental Clearance

Annexure No.3



GOVERNMENT OF KERALA

Deemed Licence issued under section 10 of Kerala Industrial Single Window Clearance Boards and Industrial Township Development Area Act, 1999 (5 of 2000).

Building Permit

Department of Local Self Government(Directorate of Urban Affairs)

UID: 110/2022-SDL
Appl No: KL-7567/2022



Certified that necessary Clearance/ No objection Certificate / Licence is issued to M/s.**K G A MALL CHANGANASSERY,XI/641** in Survey Nos.**Sy.No 313/8,313/11,284/1A,284/1B,314/1,314/2B,314/2C,314/3,314/4,314/6,314/9B,Re-Sy No 4/1-10,28/65,51/2,51/3,51/4,51/5,51/6,51/9,56/67,29** of **Vazhappally East** Village of **Changanacherry** Taluk, **Kottayam** District has been obtained through the online single window portal,for conducting the activity of **Building Permit** in exercise of the powers conferred on this Board by Section 10 of Kerala Industrial Single Window Clearance Boards and Industrial Township Development Area Act,1999 read with Rule 9(2).

The certificate will be valid for the period for which the applicant has applied for.The board has the power to cancel/revoke the licence if the licence is obtained by misrepresentation or suppression of facts or if the applicant has committed breach or any conditions stipulated herein or violation of any provisions of any Act or Rules under which the licence is issued.

This Certificate is issued on this the **10th** day of **July , 2022**.This is a system generated Certificate which requires no signature.

Building permit

Annexure No.4**FILE NO : KSPCB/KT/ICE/10006214/2022****Date of issue : 26-08-2022****KERALA STATE POLLUTION CONTROL BOARD****CONSENT TO ESTABLISH**

ISSUED UNDER

The Water (Prevention & Control of Pollution) Act, 1974

The Air (Prevention & Control of Pollution) Act, 1981

and

The Environment (Protection) Act, 1986

As per Application No. : 10006214**Dated : 01-07-2022****To****KGA Mall****Opp S B College, Changanassery, Kottayam - 686101****Consent No. : KSPCB/KT/ICE/10006214/2022****Valid Upto : 31-07-2027**

1. GENERAL

1.1. This integrated consent is granted subject to the power of the Board to withdraw consent, review and make ☐ variation in or revoke all or any of the conditions as the Board deems fit

1	VALIDITY	31-07-2027
2	Name and Address of the establishment	KGA Mall Opp S B College, Changanassery, Kottayam - 686101
3	Occupier Details	K C Eapen K C Eapen, KGA International Trades Pvt Ltd, XI/641, Kundannoor, Marad P O , Ernakulam - 682304
4	Local Body	Changanassery Municipality
5	Survey Number	29, 56/67, 28/65, 51/2, 51/3, 51/4, 51/5, 51/6, 51/9, 4/1-10
6	Village	Vazhappally East
7	Taluk	Changanassery
8	District	KOTTAYAM
9	Capital Investment(Rs in Lakhs)	21600.0
10	Scale	Large
11	Category	RED
12	Annual fee(Rs)	449000.0
	Total Fee remitted(Rs)	10.0
13	Activity	Establishing a commercial building having shopping mall,multiplex,food court,banquet hall and hotel in B+LG+G+6 floors; Built-up area- 48738 sq.m
14	Machinery details	

GENERAL CONDITIONS

1. This consent is granted subject to the power of the Board to review and make variations in all or any of the conditions as per section 21(6) of the Air (Prevention & Control) of pollution Act 1981 & section 27 of the water (Prevention & control) of pollution Act 1974.
2. This consent unless withdrawn earlier and subject to condition No.5.2 shall be valid for five years from the date of issue. At the end of the validity period if the construction is in progress the same shall be renewed. If the construction is yet to be started, the applicant shall apply afresh for consent to establish.
3. The date of commissioning shall be intimated, at least one month in advance to the District Office of the Board.
4. The applicant shall comply with the instructions that the Board may issue from time to time regarding prevention and control of air, water, land and sound pollution.
5. Consent to Operate shall be obtained before commissioning the industry under the Water (Prevention and Control of Pollution) Act, the Air (Prevention and Control of Pollution) Act and the relevant Rules under Environment (Protection) Act..

2. CONDITIONS AS PER

The Water (Prevention and Control of Pollution) Act, 1974

2.1.Sewage/Effluent Treatment Plant consisting of treatment units having adequate capacity shall be made functional as per the proposal submitted along with the application, before the commissioning of the establishment. Additional facilities required, if any, to achieve the standards laid down by the Board u/s 17(1)(g) of the Water Act shall also be made along with.

2.2. Water Consumption: 254 KLD

2.3. Effluent Generation: 229 KLD

2.4. The characteristics of effluent after treatment shall confirm to the following tolerance limits:

Sl.No	Characteristics	Unit	Tolerance limit(for soakpit discharge	Tolerance limit (for reuse)
1	pH	-	6.5-9.0	6.5-8.5
2	BOD	mg/l	10	3
3	TSS	mg/l	10	10
4	Oil & Grease	mg/l	-	1
5	COD	mg/l	50	-
6	NH4-N	mg/l	5	-
7	N-total	mg/l	10	-
8	Fecal Coliform	MPN/100 ml	<230	-

2.5. Mode of disposal of treated effluent: Soak pit/Reuse

3. CONDITIONS AS PER The Air (Prevention and Control of Pollution) Act, 1981

3.1. Adequate air pollution control measures shall be provided before the commissioning of the industry/establishment/DG set. Additional facilities required, if any, to achieve the standards laid down by the Board shall also be made along with.

4.CONDITIONS AS PER The Environment (Protection) Act, 1986

4.1.The construction activities as well as the operation of the industry / DG set shall be carried out strictly in compliance with the provisions of the Noise Pollution (Regulation and Control) Rules 2000.

- 4.2. Used lead acid batteries, if any shall be disposed of in compliance with the provisions of the Batteries (Management and Handling) Rules, 2001.
- 4.3. E-waste shall be disposed of in compliance with the E-Waste (Management) Rules, 2016.
- 4.4. The solid waste generated shall be treated and disposed of in compliance with the provisions of the Solid Waste (Management) Rules, 2016.
- 4.5. The plastic waste generated shall be disposed of in compliance with the provisions of the Plastic Waste (Management) Rules, 2016.
- 4.6. The hazardous waste generated in the unit shall be disposed of in compliance with the provisions of the Hazardous and other Wastes (Management and Trans boundary Movement) Rules, 2016.

5. SPECIFIC CONDITIONS

- 5.1. This consent is granted subject to the power of the Board to review and make variations in all or any of the conditions as per section 21 of the Air (Prevention and Control of Pollution) Act 1981 and section 25 of the Water (Prevention and Control of pollution) Act 1974.
- 5.2. At the end of the validity period if the construction is in progress, the same shall be got renewed. If the construction is not started in the consent period, the applicant shall apply afresh for consent to establish.
- 5.3. The applicant shall comply with the instructions that the Board may issue from time to time regarding prevention and control of air, water, land and sound pollution.
- 5.4. Consent to Operate under the Water (Prevention and Control of Pollution) Act, 1974 and the Air (Prevention and Control of Pollution) Act, 1981 shall be obtained by the builder before commissioning the project. The date of commissioning of the project shall be intimated at least one month in advance to the District Office of the Board.
- 5.5. Water & energy conservation measures shall be adopted. Renewable source of energy namely solar energy shall be utilized.
- 5.6. Adequate safety measures shall be provided in accordance with fire safety regulation.
- 5.7. No excavation of soil shall be carried out without adequate dust mitigation measures in place.
- 5.8. No loose soil or sand or Construction & Demolition Waste or any other construction material that causes dust shall be left uncovered.
- 5.9. Dust mitigation measures shall be displayed prominently at the construction site for easy public viewing.
- 5.10. Grinding and cutting of building materials in open area shall be prohibited.
- 5.11. Construction material and waste should be stored only within earmarked area and road side storage of construction material and waste shall be prohibited.
- 5.12. No uncovered vehicles carrying construction material and waste shall be permitted.
- 5.13. Construction and Demolition Waste processing and disposal site shall be identified and required dust mitigation measures be notified at the site.
- 5.14. DG set shall be provided with acoustic enclosure and a chimney of height $0.2 \times \sqrt{\text{kVA}}$ above roof level or 2m above the highest nearby building and at a minimum distance of square root of $(\text{kVA}/2)$ from the nearest residential building/educational institutions/hospitals/place of worship/public offices.
- 5.15. The construction camp shall have a well maintained waste management system and sewage and effluent shall be treated to meet the standards. The solid waste and debris from the construction shall be disposed without causing environmental problems. The dredging shall be carried out without causing significant disturbance to the back water system, if any.
- 5.16. The area near the boundary and the buildings and the set back shall be utilized for the development of green belt.
- 5.17. Arrangements shall be provided for rainwater harvesting before commissioning.
- 5.18. Natural drainage of the area shall be protected.
- 5.19. Sewage treatment plant and the outlet shall be set up beyond $10 \log Q$ m (Q is the maximum capacity of the treatment Plant in cubic meters per day) from the nearest residence/water body and there shall be a

minimum setback of 3m from the boundaries to the STP

5.20. Sewage treatment plant shall be constructed above ground level/cellar of the establishment.

5.21. There shall be easy access to each and every treatment unit for inspection. Sufficient sampling points shall be provided to facilitate collection of samples. Lighting arrangements shall be provided in the sewage treatment plant area.

5.22. TOD type energy meter shall be installed exclusively for sewage treatment plant. Water meter shall be fixed to record consumption of water.

5.23. Each and every sewage treatment unit shall be labelled.

5.24. Conditions in the Environmental Clearance shall be complied with.

5.25. Any of the following facility of adequate capacity shall be provided for the proper solid waste management;

- (a) Biogas plant/Highrate bio reactor (b) Biobins/portable biobins (c) Centralized masonry biotanks
- (d) Aerobic ferro-cement bins

5.26. Operation and maintenance contract with Performance Guarantee for the Sewage treatment plant shall be entered into between the consentee and the consultant. The application for Consent to Operate shall be accompanied by

- 1) an undertaking on Rs. 200/- stamp paper by the builder that all facilities required as per the Consent to Establish have been duly installed and are functional;
- 2) a certificate by the consultant to the same effect
- 3) Copy of operation and maintenance contract and
- 4) Copy of performance guarantee.

5.27. Total fee remitted -Rs.22,45,010/- (Total fee remitted shown in I(12) shall be ignored)

Digitally signed by A.B Pradeep Kumar
Date: 2022.08.26 13:03:32 IST

SIGNATURE OF ISSUING AUTHORITY

CHAIRMAN

Copy of consent from PCB

Annexure No.5



WE SERVE TO SAVE



DEPARTMENT OF FIRE AND RESCUE SERVICES
GOVERNMENT OF KERALA

No:FRS/05/CHY/9455/2022/SITE

Date:03/08/2022

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

Name & Address of the Applicant:	KGA INTERNATIONAL TRADES PVT. LTD. KGA INTERNATIONAL TRADES PVT.LTD. REP. BY IT'S DIRECTOR, K C EAPEN, XI/641, KUNDANOOR, MARADU P.O, ERNAKULAM,Kerala 682304 India
Name of the Company:	KGA INTERNATIONAL TRADES PVT. LTD.
Occupancy type of Building:	Residential Buildings cum Assembly Buildings
Height of the building:	Residential Buildings up to 37.5 m Assembly Buildings up to 22.85 m
Number of Floors of the Building:	B1+G+G+6(9 Floors)
Total Built Up Area (in sqm):	Residential Buildings-3658.28 m2 Assembly Buildings -45079.72 m2 Total-48738 m2
Survey No:	Survey NO: 313/8 & 11; 284/1A &1B; 314/1,2B,2C 3,4,6 & 9B Resurvey No: 4/1-10; 28/65; 29; 51/2 3 , 4, 5 6, 9 & 56/67
Village:	Vazhappally East
Municipality:	Changanassery
District:	Kottayam

The above site was inspected by the competent and authorized Officials of this Department. It was 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 (Form No FRS/05/CHY/9455/2022/SITE.) and Prima Facie found to be in Order. The Applicant shall comply with all the Fire Safety arrangements as contained in the relevant Rules and Norms pertaining to Fire Safety, without any deviation. In case, if any deviation is to be made in the construction for any reason, the same shall be intimated to the competent authorities of the Stake Holder Departments including this Department and deposit necessary Fees etc. as per rules to obtain revised clearance.

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.



Digitally signed by Nousad M
Reason: site clearance
Location: Headquarters, Thiruvananthapuram
Date: 2022.08.03 06:44:22 +05:30

To,
Applicant / Concerned Local Authority

This is a computer generated certificate & signature is not required.

Copy of NOC from Fire and Rescue Service

Annexure No.7

**TEST REPORT**

ULR No: TC1293925000020206F		
LRI No.: SEAAL25081755A	Date: 26-08-2025	Page 1 of 1

CUSTOMER DETAILS	
Customer Name & Address	M/s KGA International Traders Pvt Ltd Vazhappally, Changanacherry Kottayam District
Customer Reference	Test Request date: 18-08-2025

SAMPLE DETAILS			
Product Category	Atmospheric Pollution	Sample Code	EN25080604
Sample Name	Ambient Air	Sample Received on	19-08-2025
Sample Conditions at Receipt	Fit for Analysis	Test Commenced on	20-08-2025
Sampled by	Lab Authorized Sampler	Test Completed on	25-08-2025

DETAILS OF SAMPLING			
Sampling Location	Project Site	Date of Sampling	18-08-2025
Sampling Procedure	SEAAL/CHL/SOP/7.3/02	Humidity	70%

INFORMATION PROVIDED BY CUSTOMER - SAMPLING SITE DETAILS			
Survey No.	56/67,28/65,29,51/2,3,4,5,6 & 9 in Block 105 & 4/1 in Block 104		
Village	Vazhappally	Taluk	Changanacherry
District	Kottayam	State	Kerala

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	45.3	100 (Max)
2	Particulate matter PM _{2.5}	IS 5182 (Part 24): 2019	µg/m ³	21.2	60 (Max)
3	Sulphur dioxide as SO ₂	IS 5182 (Part 2): 2001	µg/m ³	<4.00	80 (Max)
4	Nitrogen dioxide as NO ₂	IS 5182 (Part 6): 2006	µg/m ³	<4.00	80 (Max)

Remarks:

End of Report

Shency Joy
TM - Chemical
Checked by



Ramar R.
Technical Head
Authorized Signatory

The results are related to the samples tested; This test report shall not be reproduced except in full, without the written approval of the laboratory. Unless requested by the customer; the samples will not be retained for more than 7 days from the date of report.

Standards Environmental & Analytical Laboratories

Accreditation & Certification:

NABL accredited Laboratory as per ISO/IEC 17025:2017 vide Certificate No. TC-12939; ISO 45001:2018 OHSAS certified laboratory.

Approval & Recognition: MoEF recognized Environmental Laboratory; "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.standardslab.in, E-mail: seaalab@gmail.com

Result of Air

Annexure No.8

**TEST REPORT****ULR No: TC1293925000020207F**

LRI No.: SEEAL25081756A

Date: 26-08-2025

Page 1 of 2

CUSTOMER DETAILS

Customer Name & Address	M/s KGA International Traders Pvt Ltd Vazhappally, Changanacherry Kottayam District
Customer Reference	Test Request date: 18-08-2025

DETAILS OF MONITORING

Product Category	Atmospheric Pollution	Sample Code	EN25080605
Sample Name	Ambient Noise	Monitoring Commenced on	18-08-2025
Test Method	IS 9989:1981	Monitoring Completed on	19-08-2025
Monitoring Location	Project Site	Monitored by	Lab Authorized Sampler

INFORMATION PROVIDED BY CUSTOMER -SAMPLING SITE DETAILS

Survey No.	56/67,28/65,29,51/2,3,4,5,6 & 9 in Block 105 & 4/1 in Block 104		
Village	Vazhappally	Taluk	Changanacherry
District	Kottayam	State	Kerala

MONITORING RESULTS - Leq

TIME	RESULTS dB(A)	TIME	RESULTS dB(A)	TIME	RESULTS dB(A)
06:00	39.6	14:00	53.0	22:00	38.4
07:00	42.4	15:00	53.4	23:00	38.3
08:00	46.9	16:00	54.7	24:00	41.1
09:00	50.6	17:00	55.1	01:00	41.9
10:00	53.0	18:00	49.4	02:00	41.5
11:00	56.3	19:00	45.7	03:00	42.3
12:00	53.4	20:00	41.6	04:00	41.1
13:00	52.6	21:00	41.1	05:00	43.1


Shency Joy
TM - Chemical
 Checked by




Ramar R.
Technical Head
 Authorized Signatory

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



TEST REPORT

ULR No: TC1293925000020207F			
LRI No.: SEAAL25081756A		Date: 26-08-2025	Page 2 of 2
Sl. No.	PARAMETERS	UNIT	RESULT
1	Ambient Sound Level (Leq) Day Time	dB(A)	51.5
2	Ambient Sound Level (Leq) Night Time	dB(A)	41.5

Remarks:

End of Report




Shency Joy
TM - Chemical
 Checked by




Ramar R.
Technical Head
 Authorized Signatory

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'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.standardslab.in, E-mail: seaalab@gmail.com

Result of Noise

Annexure No.9

**TEST REPORT**

ULR No: TC1293925000020208F		
LRI No.: SEAAL25081757A	Date: 26-08-2025	Page 1 of 2

CUSTOMER DETAILS	
Customer Name & Address	M/s KGA International Traders Pvt Ltd Vazhappally, Changanacherry Kottayam District
Customer Reference	Test Request Date: 18-08-2025

SAMPLE DETAILS			
Product Category	Water	Sample Code	WT25080499
Sample Name	Ground Water	Sample Received on	19-08-2025
Sample Description by Customer	Open Well Water	Temperature @ Receipt	4°C
Sample Conditions at Receipt	Fit for Analysis	Test Commenced on	20-08-2025
Sample Quantity & Packing	2 L & 125 ml in a Plastic Bottle	Test Completed on	25-08-2025
Information Provided by Customer	---	Sampled by	Lab Authorized Sampler

DETAILS OF SAMPLING			
Sample Source	Open Well	Date of Sampling	18-08-2025
Sampling Procedure	SEAAL/QAD/SOP/7.3/01	Sample Temperature	27°C

INFORMATION PROVIDED BY CUSTOMER - SAMPLING SITE DETAILS			
Survey No.	56/67,28/65,29,51/2,3,4,5,6 & 9 in Block 105 & 4/1 in Block 104		
Village	Vazhappally	Taluk	Changanassery
District	Kottayam	State	Kerala

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	1	5 (Max)
2	Odour	IS 3025 (Part 5): 2018	---	Agreeable	Agreeable
3	Turbidity	IS 3025 (Part 10): 2023	NTU	<0.10	1.0 (Max)
4	pH @ 25°C	IS 3025 (Part 11): 2022	---	6.92	6.50-8.50
5	Conductivity	IS 3025 (Part 14): 2013	µS/cm	112	---

Shency Joy
TM - Chemical
Checked by



Remya B.
TM-Biological
Authorized Signatory

Ramar R.
Technical Head
Authorized Signatory

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



TEST REPORT

ULR No: TC1293925000020208F		
LRI No.: SEAL25081757A	Date: 26-08-2025	Page 2 of 2

TEST RESULTS- CHEMICAL DISCIPLINE					
Sl. No.	PARAMETERS	TEST METHOD	UNIT	RESULT	Requirement as per Acceptable Limit of IS 10500: 2012
6	Total Dissolved Solids @ 180°C	IS 3025 (Part 16): 2023	mg/L	73.0	500 (Max)
7	Total Hardness as CaCO ₃	IS 3025(Part 21): 2009	mg/L	30.6	200 (Max)
8	Calcium as Ca	IS 3025(Part 40): 1991	mg/L	8.20	75 (Max)
9	Magnesium as Mg	IS 3025 (Part 46): 2023	mg/L	2.48	30 (Max)
10	Chloride as Cl	IS 3025(Part 32): 1988	mg/L	18.3	250 (Max)
11	Total Alkalinity as CaCO ₃	IS 3025 (Part 23): 2023	mg/L	24.0	200 (Max)
12	Iron as Fe	IS 3025(Part 53): 2003	mg/L	0.14	1 (Max)
13	Sulphate as SO ₄	IS 3025 (Part 24/Sec 1): 2022	mg/L	<1.00	200 (Max)


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	----	Absent/100 ml	Absent/ 100 ml
2	E coli	IS 15185 : 2016	----	Absent/100 ml	Absent/ 100 ml

Remarks:

End of Report


Shency Joy
TM - Chemical
 Checked by




Remya B.
TM-Biological
 Authorized Signatory


Ramar R.
Technical Head
 Authorized Signatory

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

Result of Water

Annexure No.10

ANNEXURE

ENVIRONMENTAL STATEMENT FORM-V
(See rule 14)*Environmental Statement for the financial year ending with 31st March***PART-A**

- i. Name and address of the owner/
occupier of the industry
operation or process.
- K.C. EAPEN [DIRECTOR]
M/s KGA INTERNATIONAL TRADES PVT. LTD.
XVI/318-1, KUNDANOOR, MARADU P O,
ERNAKULAM, 682304, KERALA.
COMMERCIAL PROJECT
- ii. Industry category Primary-(STC Code) Secondary- (STC Code)
- iii. Production category – Units.
- iv. Year of establishment
- v. Date of the last environmental statement submitted.

PART -B*Water and Raw Material Consumption:*

- i. Water consumption in m³/d

Process :

Cooling :

Domestic :

ESTIMATED TOTAL
WATER CONSUMPTION : 502.59 m³ / d

Name of Products	Process water consumption per unit of products	
	During the previous financial year	During the current financial year
1.		
2.		
3. NA	NA	NA
4.		
5.		
6.		

ii. *Raw material consumption*

Name of raw materials*	Name of Products	Consumption of raw material per unit of output	
		During the previous financial year	During the current financial year
NA	NA	NA	NA

* Industry may use codes if disclosing details of raw material would violate contractual obligations, otherwise all industries have to name the raw materials used.

PART-C

Pollution discharged to environment/unit of output

(Parameter as specified in the consent issued)

Pollutants	Quantity of Pollutants discharged (mass/day)	Concentration of Pollutants discharged (mass/volume)	Percentage variation of from prescribed standards with reasons.
(a) Water			NOT APPLICABLE
(b) Air			

--	--	--	--

PART-D**HAZARDOUS WASTES**

(as specified under Hazardous Wastes (Management & Handling Rules, 1989).

Hazardous Wastes	Total Quantity (Kg)	
	During the previous financial year	During the current financial year
1. From Process	NA	NA
2. From Pollution Control Facilities	NA	NA

PART – E**SOLID WASTES:**

Solid Wastes	Total Quantity (Kg)	
	During the previous financial year	During the current financial year
a. From process	NA	NA
b. From Pollution Control Facility	NA	NA
c. Quantity recycled or re-utilised within the unit.	PROJECT IS PROPOSED WITH AN STP OF 285 KLD	PROJECT IS PROPOSED WITH AN STP OF 285 KLD

PART – F

Please specify the characteristics (in terms of concentration and quantum) of hazardous as well as solid wastes and indicate disposal practice adopted for both these categories of wastes.

PART-G

Impact of the pollution control measures taken on conservation of natural resources and consequently on the cost of production.

PART – H

Additional measures/investment proposal for environmental protection including abatement of pollution.

PART –I**MISCELLANEOUS:**

Any other particulars in respect of environmental protection and abatement of pollution.

NA

Form V

PLATES

Plate No. 1



Photograph of the Water Sprinkling

Plate No. 2





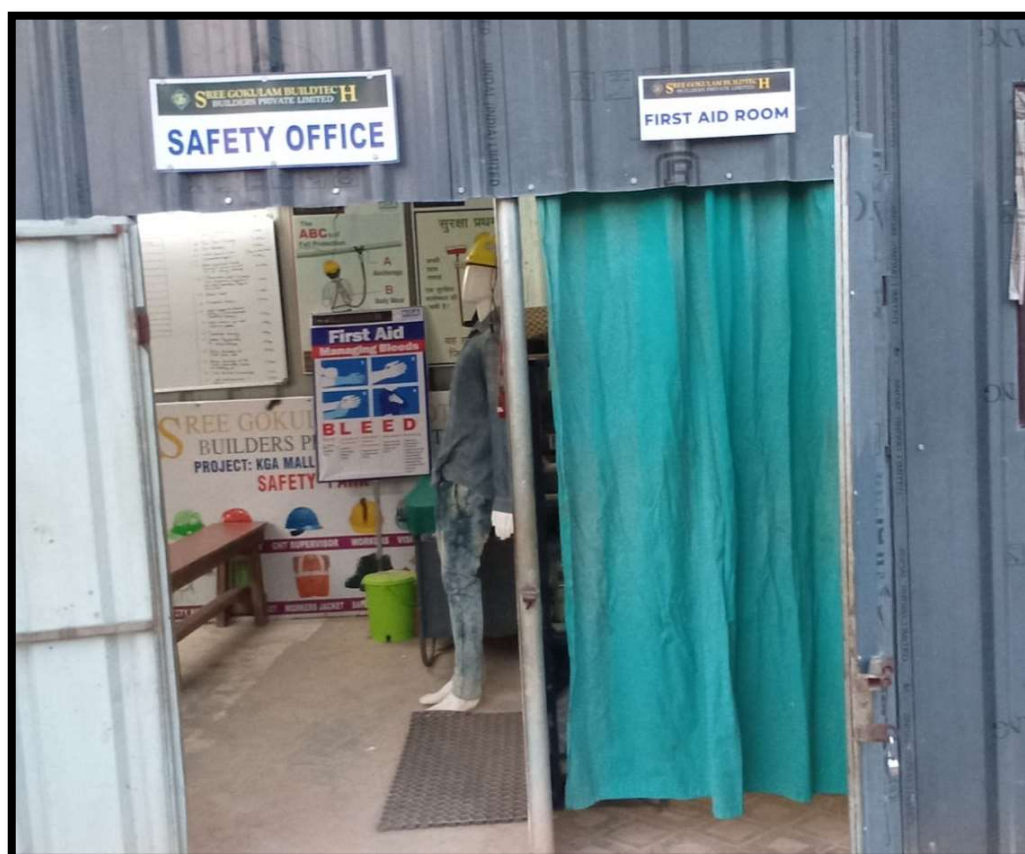
Photograph of the Project site

Plate No. 3



Photograph of the D G Set

Plate No.4



Photograph of the First Aid Room

Plate No. 5



Waste Collecting Bins