

16th October 2023

To

**The Director,
Integrated Regional Office (South Eastern Zone),
Ministry of Environment, Forest & Climate Change (MoEF&CC),
1st Floor, Additional Office Block – GPOA,
Shastri Bhawan, Chennai – 600 006.**

Dear Sir/Madam,

Sub: Proposed construction of Residential Development “Marg Pushkara” at S.F. No. 6/1A1, 1A2B, 1B1A, 1B2 and 8/1A(p), 1B, 1C1 & 1C2 of Kazhipattur Village, Thiruporur Taluk, Chengalpattu District, Tamil Nadu - Submission of Six-Monthly Compliance Report - Regd.

Ref: Environmental Clearance Letter No. SEIAA/F.482/EC/8(a)/194/2011 dt:09.07.2013.



We wish to inform you that we had obtained Environmental Clearance during July 2013 from State Environmental Impact Assessment Authority (SEIAA), Tamil Nadu for our Proposed construction of Residential Development “Marg Pushkara” at S.F. No. 6/1A1, 1A2B, 1B1A, 1B2 and 8/1A(p), 1B, 1C1 & 1C2 of Kazhipattur Village, Thiruporur Taluk, Chengalpattu District, Tamil Nadu. As per the conditions stipulated in the Environmental Clearance, we are submitting herewith the Six-Monthly Compliance Report for your kind perusal.

The receipt of this letter along with the above said report may kindly be acknowledged.

Thanking you.

Yours truly,

For M/s. Marg Properties Limited

Name: M Suresh Kumar
Designation: DGM Projects
Mobile No: +91-9445193831
Landline No: 044-40178989
Email ID: sureshkumar.ms@marggroup.com
Enclosure: Six Monthly Compliance Report



SIX MONTHLY COMPLIANCE REPORT

Proposed construction of Residential Development “**Marg Pushkara**” at S.F. No. 6/1A1, 1A2B, 1B1A, 1B2 and 8/1A(p), 1B, 1C1 & 1C2 of Kazhipattur village, Thiruporur Taluk, Chengalpattu District, Tamil Nadu



By

M/s. Marg Properties Limited

Sri Sai Subhodhaya Apartments,
Basement No. 57/2B, East Coast Road,
Thiruvanmiyur, Chennai - 41.

Submitted to;

Ministry of Environment, Forests and Climate Change (MoEFCC)

Integrated Regional Office, Additional Office Block for GPOA, 1st Floors,
Shastri Bhawan, Haddows Road, Nungambakkam, Chennai – 600 006

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SIX MONTHLY COMPLIANCE REPORT

1.0 Project Background

Marg Properties Limited proposed construction of Residential Development at S.F. No. 6/1A1, 1A2B, 1B1A, 1B2 and 8/1A(p), 1B, 1C1 & 1C2 of Kazhipattur village, Thiruporur Taluk, Chengalpattu District, Tamil Nadu. The area of the plot is 14583.16 Sq.m and total built- up area of the project is 30064.902 Sq.m comprising of Block A – S+4 floors – 48 units, Block B – S+4 floors – 48 units, Block C – S+4 floors – 32 units, Block D – S+4 floors – 32 units & Block E – S+4 floors – 44 units with total No. of dwelling is 204 units and expected No. of Occupancies is 1140. The parking area is covered 4626.98 Sq.m & Open parking area is 997.06 Sq.m and green belt area is 3231.43 Sq.m (site green belt area).

The daily fresh water requirement is 95 KLD which will be met from outsource. Out of which 93 KLD will be used for the domestic purpose and 2 KLD for swimming pool. It is provided sewage treatment plant of 130 KLD capacity for treatment of sewage. The sewage generated after treatment will be 117 KLD. The treated sewage is used for toilet flushing (48 KLD), gardening (9 KLD) and 60 KLD will be disposed to avenue plantation/gardening of Kazhipattur village as committed in the affidavit and in the local body letter. Total solid waste generation is expected to be 698.0 kg/day. Segregation of solid waste into biodegradable, and non-biodegradable will be done and 410.4 kg/day of Bio degradable waste will be treated in Organic Waste Converter, 273.6 kg/day of non-bio degradable waste will be sent to an authorized recycler and the organic sludge generation from STP of 14.00 kg/day will be used as Manure for green belt development.

The power requirement is 1136 KVA with backup power using 2 nos. of 250 KVA DG sets. The emissions from the DG sets will be let out through stacks of adequate heights as per CPCB norms. The increase in the ambient noise levels due to the operation of DG sets will be controlled by providing acoustic enclosure. Thick greenery is proposed to be developed all along the boundary of the project site which will attenuate ambient noise levels and other pollutants.

Storm water drainage for the development is adequately designed with rainwater harvesting arrangements to augment ground water table. Energy conservation measures proposed for the project includes use of energy efficient fixtures & equipments and solar lighting features partly for external areas. Fire fighting measures are proposed as per the applicable norms. Environmental monitoring is a vital process of any development which will be required during the construction and operational phases of the project. All necessary parameters are being monitored periodically as per the guidelines of MoEF/CPCB and Tamil Nadu Pollution Control Board.

2.0 Environmental Clearance

The project proposal falls under category 8(a) of the EIA Notification 2006. Based on this, the proposal was appraised by the SEIAA of Tamil Nadu during July 2013 and accorded Environmental clearance.

3.0 Environmental Monitoring

As per the conditions stipulated in the Environmental Clearance issued by the SEIAA of Tamil Nadu, environmental monitoring is being carried out at the project site so as to ensure that the pollutants do not exceed the prescribed limits. The parameters monitored and the frequencies of sampling are presented below.

Details of Environmental Monitoring

S. No.	Environmental Monitoring	Parameters Tested
1	Ambient Air Quality Monitoring	Particulate Matter-Less than 10µm, Particulate Matter-Less than 2.5µm, Sulphur dioxide, Oxides of Nitrogen, Carbon monoxide, Ozone, Lead, Ammonia, Benzene, Arsenic, Nickel and Benzo alpha Pyrene
2	Noise Level Monitoring	Ambient Noise level in dB(A)
3	DG Stack Emission Monitoring	Flow Rate, Temperature, Gas Velocity, Particulate Matter, Sulphur dioxide, Oxides of Nitrogen & Carbon Monoxide.
4	Ground Water Sampling & Analysis	p ^H @25°C, Temperature, Salinity, Electrical Conductivity@25°C, Color, Odour, Turbidity, Total hardness as CaCO ₃ , Alkalinity as CaCO ₃ , Calcium as Ca, Magnesium as mg, Total Dissolved Solids, Sulphate as SO ₄ , Chloride as Cl, Silica as SiO ₂ , Phosphate as PO ₄ , Iron as Fe Sodium as Na, Potassium as K, Nickel as Ni, Manganese as Mn, Copper as Cu, Zinc as Zn, Chromium as Cr, Mercury as Hg, Arsenic as As, Lead as Pb, Coliforms & E-coli.
5	STP Sampling & Analysis	pH, Electrical Conductivity, Total Suspended Solids, Total Dissolved Solids, Oil & Grease, BOD, COD, NH ₄ , Total Nitrogen, Faecal Coliform.
6	Soil Sampling and Analysis	p ^H @ 25°C, Electrical Conductivity @25°C, Moisture Content, Phenolic Compounds as C ₆ H ₅ OH, Total Kjeldal Nitrogen as N, Phosphorous as P, Sodium as Na, Potassium as K, Nickel as Ni, Manganese as Mn, Copper as Cu, Zinc as Zn, Chromium as Cr, Mercury as Hg, Arsenic as As and Lead as Pb.

3.1 Ambient Air Quality Monitoring

During construction phase, pollutant emission is likely to occur from the site due to soil excavation, movement of vehicles, DG emission etc., the ambient air quality is being monitored for parameters as per NAAQS as per CPCB Notification dated 18th November 2009. Ambient air quality monitoring

is being carried out at two locations within the project site. The test reports of ambient air quality are enclosed herewith as **Annexure-II**.

3.2 DG Stack Emission Monitoring

For providing power for the construction activity, diesel generators are operated during working hours. DG stack emission is being monitored for velocity of the gas discharge, volume of the gas discharge, Particulate Matter (PM), Sulphur dioxide (SO₂), Oxides of Nitrogen (NO_x) and carbon monoxide. The test reports of DG stack emission are enclosed herewith as **Annexure-II**.

3.3 Ambient Noise Level Monitoring

During construction phase the ambient noise level is likely to increase due to excavation, construction and movement of vehicles. Ambient noise level is being monitored at four locations. The test reports of noise levels are enclosed herewith as **Annexure-II**.

3.4 Ground Water Sampling and Analysis

During construction phase, the ground water may get contaminated due to the runoff carrying construction wastes. Hence the ground water is being tested for basic parameters including heavy metals. The test reports of ground water samples are enclosed herewith as **Annexure-II**.

3.5 STP Treated water sampling and Analysis

The STP Treated water was sampled and analyzed. The test report of samples are enclosed as **Annexure-II**.

3.6 Soil Sampling and Analysis

Soil quality during construction phase is likely to get polluted due to the construction wastes and spillages. Hence the soil samples are being collected and analyzed for different parameters including heavy metals. The test reports of soil samples are enclosed as **Annexure-II**.

Annexure – I

Compliance Report on Conditions stipulated in Environmental Clearance

EC Compliance Statement
Letter No. SEIAA/F.482/EC/8(a)/194/2011 dt:09.07.2013

SPECIFIC CONDITION – CONSTRUCTION PHASE		
Sl. No	Condition	Compliance
1	“Consent for Establishment” shall be obtained from the Tamil Nadu Pollution Control Board and a copy shall be submitted to the SEIAA. Tamil Nadu before taking up any construction activity at the site.	Consent for Establishment will be obtained from the Tamil Nadu Pollution Control Board.
2	The proponent should be responsible for all the construction activities will be undertaken beyond 100m from HTL as committed.	We ensure that we have taken up the responsible for all the construction activities will be undertaken beyond 100m from HTL
3	The entire water requirement during construction phase shall be met from the private tankers as committed.	The entire water requirement during construction phase will be met from the private tankers as committed.
4	Provision shall be made for the housing 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 structure to be removed after the completion of the project.	Provision was made for labour housing within the site with all necessary infrastructure and facilities. The housing was in the form of temporary structures and has been removed after the completion of the project.
5	The height and coverage of the construction shall be in accordance with the existing FSI/FAR norms as per Coastal Regulation Zone Notification, 2011.	The height and coverage of the constructions are in accordance with FSI/FAR norms.
6	The approval of the competent authority shall be obtained for structural safety of the buildings due to earthquake, adequacy of fire fighting equipments, etc., as per National Building Code including protection measures from lightning etc.	The approval of the competent authority has been obtained for the structural safety of the buildings due to earthquake, adequacy of fire fighting equipment’s, etc as per National Building Code including protection measures from lightning etc.
7	All required sanitary and hygienic measures should be in place before starting construction activities and they have to be maintained throughout the construction phase.	All required sanitary and hygienic measures were in place before starting the construction activities and the same was maintained throughout the construction phase.
8	A first aid room shall be provided in the project site during the entire construction phase of the project.	First aid rooms with qualified personnel are provided for construction laborers. The same has been followed during the entire construction phase.

9	Adequate drinking water and sanitary facilities should be provided for construction workers at the site. The safe disposal of waste water and solid waste generated during the construction phase should be ensured.	Adequate drinking water and sanitation facilities were provided for the construction workers at the site. The waste water was treated in septic tank followed by soak pit. The solid waste generated was regularly collected and segregated into bio-degradable waste and non-biodegradable waste. The segregated waste was regularly handed over to the local municipal solid waste authorities after removing the recyclable material.
10	All the labourers to be engaged for construction should be screened for health and adequately treated before and during their employment on the work at the site.	All the labourers engaged for construction were screened for health and adequately treated before and during their employment at the site.
11	The solid waste in the form of excavated earth excluding the top soil generated from the project activity shall be scientifically utilized for construction of approach roads and peripheral roads as reported.	The solid waste in the form of excavated earth excluding the top soil generated from the project activity is scientifically utilized for construction of approach roads and peripheral roads.
12	All the top soil excavated during construction activities should be stored for use in horticulture/ landscape development within the project site.	All the top soil excavated was stored and used for horticulture / landscape development within the project site.
13	Disposal of other construction debris during construction phase should not create any adverse effect on the neighboring communities and be disposed off only in approved sites, with the approval of Competent authority with necessary precautions for general safety and health aspects of the people.	The construction debris generated during the construction phase is inert in nature. It is dried and used for raising the ground level within the site and it will not create any adverse effect on the neighbouring communities.
14	Construction spoils, including bituminous materials and other hazardous materials, must not be allowed to contaminate watercourses. The dump sites for such materials must be secured so that they should not leach into the adjacent land/lake/stream etc.	Construction spoils, including bituminous material are used for land filling/site levelling. No hazardous materials are used during construction. Hence there is no leaching of such materials into the ground water.
15	Low Sulphur Diesel shall be used for operating diesel generator sets to be used during construction phase. The air and noise emission shall conform to the standards prescribed in the Rules under the Environment (Protection) Act, 1986, and the Rules framed thereon.	Low sulphur diesel was used as fuel for all the DG sets in construction phase. The air and noise emission levels are conformed to the E (P) Rules prescribed for air and noise emission standards.

16	The diesel required for operating DG sets shall be stored in underground tanks and if required, clearance from Chief Controller of Explosives shall be taken.	No underground tanks provided for storage of diesel.
17	Vehicles hired for bringing construction materials to the site should be in good condition and should conform to air and noise emission standards, prescribed by TNPCB/CPCB. The vehicles should be operated only during non-peak hours.	Vehicles hired for bringing construction material were maintained in good operable condition and conformed to air and noise emission standards prescribed by TNPCB/CPCB. The vehicles was operated only during non peak hours.
18	Ambient air and noise levels should conform to residential standards prescribed by the TNPCB, both during day and night. Incremental pollution loads on the ambient air and noise quality should be closely monitored during the construction phase.	Adequate measures are taken to maintain air quality and noise levels within the prescribed limits during construction phase. Ambient noise level was monitored to ensure conformance to standards both during day and night.
19	Fly – Ash bricks should be used as building material in the construction as per the provision of fly ash notification of September, 1999 and amended as on 27 th August, 2003.	Fly-ash containing cement and bricks are used in construction to comply with the provisions of Fly Ash Notification of September, 1999 and as amended on 27 th August, 2003.
20	Ready – Mix Concrete of high quality should be used in building construction and necessary cub – tests should be conducted to ascertain their quality.	Ready mix concrete was used for building construction and the necessary cub-tests are conducted to ascertain their quality
21	Storm water control and its re-use shall be as per CGWB and BIS standards for various applications.	Storm water control and its re-use are implemented as per CGWB and BIS standards for various applications.
22	Water demand during construction should be reduced by use of pre-mixed concrete, curing agents and other best practices prevalent.	Water demand during construction is reduced by use of pre-mixed concrete & curing agents.
23	Fixtures for showers, toilet flushing and drinking water should be of low flow type by adopting the use of aerators/ pressure reducing devices/ sensor-based control.	Fixtures for toilet flushing and washing are of low flow type by adopting the use of aerators.
24	Use of glass shall be reduced up to 40% to reduce the electricity consumption and load on air conditioning. If necessary, high quality double glass with special reflecting coating shall be used in windows.	The glasses are used only for windows.
25	Roof should meet prescriptive requirement as per Energy Conservation Building Code by using appropriate thermal insulation material, to fulfill the requirement.	Thermal insulation materials are used as per the requirements of energy conservation building codes applicable for buildings

26	Adequate measures to reduce air and noise pollution during construction shall be adopted, conforming to norms prescribed by the TNPCB on noise limits.	Adequate measures are taken to maintain air quality and noise levels within the prescribed limits.
27	Opaque wall should meet prescribed requirement as per Energy Conservation Building Code which is mandatory for all air-conditioned spaces by use of appropriate thermal insulation material to fulfill the requirement.	Thermal insulation materials are used as per the requirements of energy conservation building codes applicable for buildings.
28	The project proponent is requested to indicate the probable date of commissioning of the project supported with necessary bar charts.	The probable date of commissioning of the project has been indicated with necessary bar charts.
29	Adequate fire protection equipments and rescue arrangements should be made as per the prescribed standards.	Adequate fire protection equipment's and rescue arrangements are made as per applicable norms.
30	Proper approach road for fire-fighting vehicles and for rescue operations in the event of emergency shall be made.	Proper approach road for fire fighting vehicles and for rescue operations in the event of emergency is provided.
31	Design of Buildings should be in conformity with the seismic Zone Classifications.	Design of buildings is in conformity with the seismic Zone Classification.
32	All ECBC norms have to be adopted.	All ECBC norms are adopted.
33	The proponent should also ensure to keep necessary road width as per O.M. dated 07.02.12 of MOEF, GOI, New Delhi with respect to high rise building.	Noted and complied.
34	Personnel working in dusty areas should wear protective respiratory devices and they should also be provided with adequate training and information on safety and health aspects. Occupational health surveillance program of the workers should be undertaken periodically to observe any contractions due to exposure to dust and take corrective measures, if needed.	Personnel working in dusty areas are protected with protective respiratory devices and they are also provided with adequate training and information on safety and health aspects. Occupational health surveillance programs are conducted periodically to observe any contractions due to exposure to dust and corrective measures. Corrective measures have been taken.
35	Periodical medical examination of the workers engaged in the project shall be carried out and records maintained. For the purpose, schedule of health examination of the workers should be drawn and followed accordingly. The workers shall be provided with personnel protective measures such as masks, gloves, boots etc.	Periodical medical examinations are carried out for the workers engaged in the project and records are maintained. For this purpose, a schedule of health examination of the workers will be drawn and followed accordingly. The workers are provided with personnel protective measures such as masks, gloves, boots etc.

OPERATION PHASE		
1	The proponent should be responsible for the maintenance of common facilities including greening, rain water harvesting, sewage disposal, solid waste disposal and environmental monitoring for a period of 10 years.	Noted and we will comply.
2	The entire water requirement during entire operation phase shall be met through in house bore well as well as committed throughout the operation.	The entire water requirement during entire operation phase is being met through outsources as well as committed throughout the operation.
3	Flats should be handed over to the customers/ before obtaining completion certificate only after obtaining required permission from CGWA for drawl of ground water as committed in the affidavit.	Noted and complied
4	The proponent as committed shall utilize 48 KLD for flushing, 9 KLD for gardening & 60 KLD disposed to avenue plantation / gardening of Kazhipattur village as committed in the affidavit scientifically throughout the period of operation as committed. The area allotted for gardening shall not be used for any other construction activity.	Noted and compiled.
5	The ground water level and its quality should be monitored regularly in consultation with Central Ground Water Authority.	The ground water level and its quality will be monitored regularly in consultation with Central Ground Water Authority.
6	STP design should be approved by TNPCB before issue of CTE.	Noted.
7	The installation of the Sewage Treatment Plant (STP) should be certified by an independent expert and a report in this regard should be submitted to the SEIAA/ TN before the project is commissioned fir operation. Treated effluent emanating from STP shall be recycled / reused to the maximum extent possible. Treatment of 100% grey water by decentralized treatment should be done. Discharge of unused treated effluent shall confirm to the norms & standards of the Tamilnadu State Pollution Control board. Necessary measures should be made to mitigate the odour problem from STP. Explore the less power consuming systems viz.	The installation of the Sewage Treatment Plant (STP) has been certified by an independent expert. Treated effluent emanating from STP is being be recycled / reused to the maximum extent possible. Treatment of 100% grey water by decentralized treatment has been done. Discharge of unused treated effluent is being confirmed to the norms & standards of the Tamilnadu State Pollution Control board. Necessary measures has been made to mitigate the odour problem from STP.

	baffle reactor etc. for the treatment of sewage.	
8	The Proponent shall install STP unit of Bar Screen Chamber, Equalization Tank, aeration Tank – MBBR, Secondary Clarifier, alum Doser, clarified Water Storage tank, Filter Press, Pressure sand filter, activated carbon filter & UV treatment as committed (Capacity of 130 KLD) and operated continuously to achieve the standards prescribed by the Tamil Nadu Pollution Control Board.	We have installed STP unit of Bar Screen Chamber, Equalization Tank, aeration Tank – MBBR, Secondary Clarifier, alum Doser, clarified Water Storage tank, Filter Press, Pressure sand filter, activated carbon filter & UV treatment as committed and the being operated continuously to achieve the standards prescribed by the Tamil Nadu Pollution Control Board.
9	The Proponent shall operate STP continuously by providing DG set in case of power failure.	We have operated STP continuously by providing DG in case of power failure.
10	It is the sole responsibility of the proponent that the treated sewage water disposed for green belt development/avenue plantation should not pollute the soil/ ground water adjacent canals/ lakes/ ponds, etc.	We assure you that the treated sewage has been reused for green belt development, avenue plantation and we will not pollute the soil, Ground water, adjacent canals, lakes, ponds, etc
11	Adequate measures shall be taken to prevent odour problem from solid waste processing plant and STP.	Adequate measures have been taken to prevent odour problem from solid waste processing plant and STP.
12	The biodegradable solid waste, non – biodegradable solid waste, STP sludge, etc generated from the project activity shall be properly collected, segregated and disposed as committed and as per the provision of Solid Waste (Management and handling) Rules, 2000.	We have properly collected, segregated and disposed of Biodegradable solid waste, non-biodegradable solid waste, STP Sludge etc., generated from our premises and as per the provision of Solid Waste (Management and Handling) Rules, 2000.
13	To facilities easy disposal and making the solid waste disposal less laborious, chute shall be provided in each floor with a collection bin (wheeled bins with top lid arrangement) in the bottom of the chute to be kept in the ground floor level and the bins shall be transferred to solid waste disposal are identified within the facility.	Noted.
14	The biodegradable municipal solid waste shall be decomposed through organic waste convertor and the manure shall be used as compost for green belt development/ avenue plantation as committed.	The biodegradable municipal solid waste will decomposed through Organic waste convertor and the manure will be used for green belt development avenue plantation as committed.
15	The Plastic wastes shall be segregated and disposed as per the provisions of Plastic Waste (Management & Handling) Rules 2011.	Plastic waste is being segregated and disposed as per the provisions laid down in plastic waste [Management & Handling], Rules, 2011.

16	The e - waste generated should be collected and disposed to a nearby authorized e-waste centre as per e waste (Management & Handling), Rules 2011.	The e - waste generated is being collected and disposed to a nearby authorized e-waste recycler as per e - waste (Management & Handling), Rules 2011.
17	DG sets proposed as source of back-up power during operation phase 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. The location of the DG sets may be decided with in consultation with Tamil Nadu Pollution Control Board.	Diesel power generating sets provided as source of back-up power for operation of phase provided with enclosed type and conform to rules made under the Environment (Protection) Act, 1986. The height of stack of DG sets is equal to the height needed for the combined capacity of all provided DG sets.
18	The diesel required for operating DG sets shall be stored in underground tanks and if required, clearance from the Chief Controller of Explosives shall be taken.	No underground tanks provided for storage of diesel.
19	The acoustic enclosures shall be installed at all noise generating equipment's such as DG sets, air conditioning systems, cooling water tower, etc. and the noise level shall be maintained as per MoEF/CPCB/TNPCB guidelines/norms both during day and night time.	As stated above we have provided enclosure to DG sets. Noise levels are monitored during day and night time and it is within the limits.
20	Spent oil from D.G sets should be stored in HDPE drums in an isolated covered facility and disposed as per the Hazardous Wastes (Management, Handling, Transboundary Movement) Rules 2008. Spent oil from D.G sets should be disposed off through registered recyclers.	Spent oil from DG sets is being stored in HDPE drums in an isolated covered facility and disposed as per the Hazardous Wastes (Management, Handling, Transboundary Movement) Rules 2008 and disposed off through registered recyclers.
21	The proponent shall ensure that storm water drain provided at the project site shall being maintained without choking or without causing stagnation and should also ensure that the storm water shall be properly disposed off in the natural drainage/ channels without disrupting the adjacent public. Adequate harvesting of the storm water should also be ensured.	We ensure that storm water drain provided at the project site is being maintained without choking or without causing stagnation. Also storm water is being properly drainage/ disposed off in the natural channels without disrupting the adjacent public.
22	The proponent should also ensure that necessary trenches for openings shall be provided at periodic intervals along the compound wall, so as to let out the storm	We ensure that necessary trenches for openings have been provided at periodic intervals along the compound wall, to let out the Storm water during

	water during rainy season, without stagnation/ ponding.	rainy season, without stagnation/ ponding.
23	The proponent shall ensure that roof rain water run-off collected from the covered roof of the buildings, etc shall be scientifically harvested so as to ensure the maximum beneficiation of rain water harvesting. It shall be stored in a sump of 4nos. of 100 KL capacity each and reused.	We ensure that the roof rain water run-off is being collected in sump of 4nos. of 100 KLD capacity each and reuse the same.
24	Rain water harvesting for surface run-off, as per plan submitted should be implemented. Before recharging the surface run off, pre-treatment with screens, settlers etc. must be done to remove suspended matter, oil and grease, etc. The Proponent shall provide 14no. of bore wells / percolation pits/ etc. as committed. The bore wells / percolation pits/ etc. for rainwater recharging should be kept at least 5 mts. above the highest ground water table.	Rain water harvesting for surface run-off, was implemented as per plan submitted. Sedimentation pits are also provided to remove the suspended matter before recharging. We have provided 14no. of bore wells / percolation pits/ etc. for rainwater recharging to be kept at least 5 mts. above the highest ground water table.
25	Application of solar energy should be incorporated for illumination of common areas, lighting for gardens and street lighting in addition to provision for solar water heating. A hybrids system or fully solar system for a portion of the apartments shall be provided.	Application of solar energy in the project is considered for illumination of common areas and street lighting.
26	A report on the energy conservation measures conforming to energy conservation norms prescribed by the Bureau of Energy Efficiency shall be prepared incorporating details about building materials & technology; R & U factors etc and submitted to the SEIAA in three months' time.	We wish to inform you that our building is only partly occupied. Some of the units are vacant. We will prepare a report on the energy conservation measures and submit it as soon as the building is completely occupied.
27	Energy conservation measures like installation of CFLs/TFLs for lighting the areas outside the building should be integral part of the project design and should be in place before project commissioning. 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. Use of solar panels may be done to the extent possible.	We have provided energy conservation measures like installation of CFLs / TFLs for lighting the areas outside the building. Fused CFLs and TFLs are regularly collected and disposed off / sent for recycling through the authorized e-waste recyclers as per the prevailing guidelines / rules of the regulatory authority to avoid mercury contamination.

28	Traffic congestion near the entry and exit points from the roads adjoining the proposed project site shall be avoided. Parking shall be fully internalized and no public space should be utilized. Parking plan to be as per MoEF norms.	Traffic congestion near the entry and exit points from the roads adjoining the project site is avoided by providing the bell mouth type entry and exit.
29	The proponent shall issue plans showing Separate pipelines marked with different colours with the following details i. Location of STP, compost system, underground sewer line. ii. Pipe Line conveying the treated effluent for green belt development. iii. Pipe Line conveying the treated effluent for toilet flushing iv. Water supply pipeline v. Gas supply pipe line, if proposed vi. Telephone cable vii. Power cable viii. Storm water drains, and ix. Rain water harvesting system., to all the allottees/ owners while executing the allotment order/ sale deed	Noted and complied.
30	A First Aid Room shall be provided during operation of the project, with necessary equipments and life- saving medicines.	First Aid rooms has been provided during operation of the project, with necessary equipment's and life-savings medicines.
31	The green belt design along the periphery of the plot shall achieve attenuation factor conforming to the day and night noise standards prescribed for residential land use. The open spaces inside the plot shall be suitably landscaped and covered with vegetation of suitable variety.	We have developed green belt along the periphery of the plot to achieve attenuation factor conforming to the day and night Noise standards prescribed for residential land use. The open spaces inside the plot will be suitably landscaped and covered with vegetation of suitable variety.
32	Incremental Pollution loads on the ambient air quality, noise and water quality shall be periodically monitored after commissioning of the project.	Incremental pollution loads on the ambient air quality, noise and water quality is periodically monitored.
33	No construction activity of any kind shall be taken up in the OSR area. Consent of the local body concerned should be obtained for using the secondary treated sewage in the OSR area.	No construction activities are taken up in the OSR area.
34	The building should have adequate distance between them to allow free movement of fresh air and passage of natural light, air and ventilation.	The building have got the necessary set back to allow movement of fresh air and passage of natural light, air and cross ventilation. We would like to inform you

	Landscape plan to be revised accordingly.	that all the buildings are provided with adequate set back.
35	A terrace garden shall be developed (771.96 Sq.m of the Roof Top Area) as committed and maintained continuously by the proponent.	Terrace garden will be developed (771.96 Sq.m of the Roof Top Area) and maintained continuously in our premises.
GENERAL CONDITIONS		
1	The construction of the structure should be undertaken as per the plans approved by th concerned local authorities/ local administration.	The construction of the structures is undertaken as per the plans approved by the DTCP.
2	It is mandatory for the project proponent to furnish to the SEIAA, half yearly compliance report in hard and soft copies on 1 st June and 1 st December of each calendar year in respect of the conditions stipulated in the prior Environmental Clearance.	We are submitting the Half yearly compliance report in Hard and Soft copies in respect of the conditions stipulated in the prior Environmental Clearance.
3	In the case of any changes in the scope of the project, a fresh appraisal by the SEAC/ SEIAA shall be obtained.	No changes in the scope work.
4	A copy of the clearance letter shall be sent by the proponent to the commissioner of Corporation municipalities/ executive officers of town panchayat/ Block development officers of panchayat union whichever is applicable and the local NGO, if any, from whom suggestions/ representations, if any, have been received while processing the proposal. The clearance letter shall also be put on the website of the proponent.	Noted and complied.
5	The SEIAA reserves the right to add additional safeguard measures subsequently, if non-compliance of any of the EC conditions are found and to take action, including revoking of this Environmental Clearance as the case may be.	Noted
6	All other statutory clearances such as the approvals for storage of diesel from Chief Controller of Explosives, fire and Rescue Services Department, Civil Aviation Department, Forest Conservation act, 1980 and Wild Life (Protection) Act, 1972, State/ Central Ground Water Authority, Coastal Regulation Zone Authority, other statutory and other authorities as	We have obtained all the necessary statutory clearances.

	applicable to the project shall be obtained by project proponent from the concerned competent authorities.	
7	The project proponent should advertise with basic details at least two local newspapers widely circulated, one of which shall be in the vernacular language of the locality concerned, within 7 days of the issue of clearance and the copy of the clearance letter is available with the state Pollution Control Board and also at website of SEIAA, TN and a copy of the same should be forwarded to the Regional office of the Ministry of Environment and Forests located at Bangalore.	Basic details of the project were advertised in two local newspapers within 7 days of the issuance of Environmental clearance and a copy of the same was forwarded to MoEFCC, Bangalore.
8	Under the provisions of Environment (Protection) Act, 1986, legal action shall be initiated against the project proponent if it is found that construction of the project has been started without obtaining Environmental Clearance and for any other action resulting in violation of any condition stipulated in the Environmental Clearance.	Noted.
9	The proponent shall upload the status of compliance of the stipulated EC conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the Regional Office of MoEF, Bengaluru, the respective Zonal Office of CPCB, Bengaluru and the TNPCB. The criteria pollutant levels namely; SPM, RSPM, SO ₂ , NO _x (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the project shall be monitor and displayed at a convenient location near the main gate of the company in the public domain.	We are submitting six monthly reports on the status of compliance of the stipulated EC conditions including results of monitored data (both in hard copies as well as by e-mail) regularly to the Ministry's Regional Office /Chennai, the respective Zonal Office of CPCB, Bengaluru and the TNPCB. The criteria pollutant levels namely SPM, RSPM, SO ₂ , NO _x (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the project is being monitored and displayed.
10	A copy of the Environmental Clearance (EC) letter shall be issued to all the allottees/ owners while executing the allotment order/ sale deed/ before handing over of the building to allottees.	Noted and complied.
11	A separate environmental management cell with suitable qualified personnel should be set-up under the control of a	Noted and complied.

	Senior Executive, who will report directly to the Head of the Organization	
12	The fund earmarked for environmental protection measures should be kept in separate account and should not be diverted for other purpose. Year wise expenditure should be reported to the MoEF and its Regional Office, Bangalore. Funds for CSR activity shall be allotted and used for that purpose and separate account shall be maintained.	Noted.
13	The Regional Office of the Ministry located at Bangalore 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.	We will extend full co-operation during the visit of Officials from the Regional Office of MoEFCC, Chennai and also the complete set of all the documents will be submitted to Regional Office of MoEF&CC, Chennai.
14	The proponent shall submit six-monthly reports on the status of compliance of the stipulated EC conditions, including results of monitored data (both in hard copies as well as by e-mail) to the MoEF, its Regional Office Bangalore, the respective Zonal Office of Central Pollution Control Board, SEIAA, TN and the State Pollution Control Board.	We are submitting six monthly reports on the status of compliance of the stipulated EC conditions including results of monitored data (both in hard copies as well as by e-mail) regularly to the Ministry's Regional Office, /Chennai, its Regional Office Bengaluru, the respective Zonal office of CPCB, SEIAA, TN and the State Pollution Control Board.
15	The environmental statement for each financial year ending 31 st March in Form-V as is mandated to be submitted by the project proponent to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company. The status of compliance of environmental clearance conditions and shall also be sent to the Regional Office of the Ministry of Environment and Forests, Chennai by e-mail.	Noted and will be complied.

Annexure – II

Environmental Monitoring Reports



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TEST REPORT

Sample ID: 2310004	JOE:2247	Report Date: 11.10.2023	
Customer Name	M/s.MARG Properties Limited - (PUSHKARA),		
Address	S.F. No. Survey No: 6/1A1, 1A2B, 1B1A & 1B2 and 8/1A(P), 1B, 1C1 & 1C2 of Kazhipattur Village, Chengalpattu Taluk, Chengalpattu District		
Date of Sampling	05.10.2023	Sampled by	LSL
Sample Received on	05.10.2023	Sample Description	Ambient Air Quality - AAQ
Test Commenced on	06.10.2023	Sampling duration	8 hrs
Test Completed on	11.10.2023	Ambient Temp during sampling	32°C (Avg.)
Sampling Location	Near Site Office	RH during sampling	62% (Avg.)
Sampling Procedure	Prescribed as per Test Method		

DISCIPLINE		CHEMICAL TESTING				
PRODUCT GROUP		ATMOSPHERIC POLLUTION				
S. No	PARAMETERS	UNIT	TEST METHOD	RESULTS	Specification	
					*NAAQ STANDARDS	
					24 hours	Annual
1	Particulate Matter in (PM ₁₀)	µg/m ³	IS 5182 (Part 23)	49.6	100	60
2	Particulate Matter in (PM _{2.5})	µg/m ³	IS 5182 (Part 24)	17.5	60	40
3	Sulphur Dioxide as SO ₂	µg/m ³	IS 5182 (Part 2)	5.22	80	50
4	Nitrogen Dioxide as NO ₂	µg/m ³	IS 5182 (Part 6)	11.4	80	40
5	Ozone as O ₃	µg/m ³	IS 5182 (Part 9)	BDL (DL:0)	180(1hr)	100(8hr)
6	Ammonia as NH ₃	µg/m ³	IS 5182 (Part 25)	21.4	400	100

Note: BDL: Below Detectable Limit; DL: Detectable Limit.

*NAAQ: National Ambient Air Quality.

Verified by

M. Balaji

M. BALAJI
Quality Manager



For Life Shell Labs India Pvt. Ltd,

K. Kamalanathan

Authorized Signatory

K. KAMALANATHAN
Deputy Technical Manager



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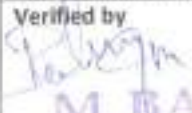
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www.lifeshelllabs.com

TEST REPORT

Sample ID: 2310004		JOE:2247		Report Date: 11.10.2023		
S. No	PARAMETERS	UNIT	TEST METHOD	RESULTS	Specification	
					*NAAQ STANDARDS	
					24 hours	Annual
7	Carbon Monoxide as CO (1hr)	mg/m ³	IS 5182 (Part 10)	BDL (DL:1.15)	4.0(1hr)	02(8hr)
8	Lead as Pb	µg/m ³	IS 5182 (Part 22)	BDL (DL:0.5)	1.0	0.5
9	Benzene as C ₆ H ₆	µg/m ³	IS 5182 (Part 11)	BDL (DL:1.0)	5.0	5.0
10	Arsenic as As	ng/m ³	IS 5182 (Part 22)	BDL (DL:1.0)	6.0	6.0
11	Nickel as Ni	ng/m ³	IS 5182 (Part 22)	BDL (DL:1.0)	20.0	20.0
12	Benzo(a)Pyrene in C ₂₀ H ₁₂	ng/m ³	IS 5182 (Part 12)	BDL (DL:1.0)	1.0	1.0

Note: BDL: Below Detectable Limit; DL: Detectable Limit.
*NAAQ: National Ambient Air Quality.

Verified by

M. BALAJI
Quality Manager

For Life Shell Labs India Pvt. Ltd,

Authorized Signatory
K. KAMALANATHAN
Deputy Technical Manager

*****End of Report*****



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TEST REPORT

Sample ID: 2310005	JOE:2247	Report Date: 11.10.2023	
Customer Name	M/s.MARG Properties Limited - (PUSHKARA),		
Address	S.F. No. Survey No: 6/1A1, 1A2B, 1B1A & 1B2 and 8/1A(P), 1B, 1C1 & 1C2 of Kazhipattur Village, Chengalpattu Taluk, Chengalpattu District		
Date of Sampling	05.10.2023	Sampled by	ISL
Sample Received on	05.10.2023	Sample Description	Ambient Air Quality - AAQ
Test Commenced on	06.10.2023	Sampling duration	8 hrs
Test Completed on	11.10.2023	Ambient Temp during sampling	31°C (Avg.)
Sampling Location	Near South Corner	RH during sampling	64% (Avg.)
Sampling Procedure	Prescribed as per Test Method		

DISCIPLINE		CHEMICAL TESTING				
PRODUCT GROUP		ATMOSPHERIC POLLUTION				
S. No	PARAMETERS	UNIT	TEST METHOD	RESULTS	Specification	
					*NAAQ STANDARDS	
					24 hours	Annual
1	Particulate Matter in (PM ₁₀)	µg/m ³	IS 5182 (Part 23)	46.2	100	60
2	Particulate Matter in (PM _{2.5})	µg/m ³	IS 5182 (Part 24)	16.6	60	40
3	Sulphur Dioxide as SO ₂	µg/m ³	IS 5182 (Part 2)	5.80	80	50
4	Nitrogen Dioxide as NO ₂	µg/m ³	IS 5182 (Part 6)	11.1	80	40
5	Ozone as O ₃	µg/m ³	IS 5182 (Part 9)	BDL (DL:5.0)	180(1hr)	100(8hr)
6	Ammonia as NH ₃	µg/m ³	IS 5182 (Part 25)	19.8	400	100

Note: BDL: Below Detectable Limit; DL: Detectable Limit.

*NAAQ: National Ambient Air Quality.

Verified by

M. Balaji
M. BALAJI

Quality Manager



For Life Shell Labs India Pvt. Ltd,

K. Kamalanathan

Authorized Signatory

K. KAMALANATHAN
Deputy Technical Manager



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www.lifeshelllabs.com

TEST REPORT

Sample ID: 2310005		JOE:2247		Report Date: 11.10.2023		
S. No	PARAMETERS	UNIT	TEST METHOD	RESULTS	Specification	
					*NAAQ STANDARDS	
					24 hours	Annual
7	Carbon Monoxide as CO (1hr)	mg/m ³	IS 5182 (Part 10)	BDL (DL:1.15)	4.0(1hr)	02(8hr)
8	Lead as Pb	µg/m ³	IS 5182 (Part 22)	BDL (DL:0.5)	1.0	0.5
9	Benzene as C ₆ H ₆	µg/m ³	IS 5182 (Part 11)	BDL (DL:1.0)	5.0	5.0
10	Arsenic as As	ng/m ³	IS 5182 (Part 22)	BDL (DL:1.0)	6.0	6.0
11	Nickel as Ni	ng/m ³	IS 5182 (Part 22)	BDL (DL:1.0)	20.0	20.0
12	Benzo(a)Pyrene in C ₂₀ H ₁₂	ng/m ³	IS 5182 (Part 12)	BDL (DL:1.0)	1.0	1.0

Note: BDL: Below Detectable Limit; DL: Detectable Limit.

*NAAQ: National Ambient Air Quality.

Verified by



M. BALAJI

Quality Manager



*****End of Report*****

For Life Shell Labs India Pvt. Ltd,


Authorized Signatory

K. KAMALANATHAN
Deputy Technical Manager



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www.lifeshelllabs.com

TEST REPORT

Sample ID: 2310006	JOE:2247	Report Date: 11.10.2023	
Customer Name	M/s.MARG Properties Limited - (PUSHKARA),		
Address	S.F. No. Survey No: 6/1A1, 1A2B, 1B1A & 1B2 and 8/1A(P), 1B, 1C1 & 1C2 of Kazhipattur Village, Chengalpattu Taluk, Chengalpattu District		
Date of Sampling	05.10.2023	Sampled by	LSL
Sample Received on	05.10.2023	Sample Description	DG-62.5 KVA
Test Commenced on	06.10.2023	Sampling Procedure	Prescribed as per Test Method
Test Completed on	11.10.2023	Ambient Temp during sampling	32°C (Avg.)
Sampling Location	--	RH during sampling	63% (Avg.)

DISCIPLINE		CHEMICAL TESTING			
PRODUCT GROUP		ATMOSPHERIC POLLUTION			
S. No	PARAMETERS	UNIT	TEST METHOD	RESULTS	LIMITS AS PER TAMILNADU POLLUTION CONTROL BOARD
1	Stack Temperature	K	IS 11255 (Part 3)	491	--
2	Flue Gas Velocity	m/s	IS 11255 (Part 3)	18.3	--
3	Flow Rate	Nm ³ /hr	IS 11255 (Part 3)	314	--
4	Particulate Matter (PM)	g/kw -hr	IS 11255 (Part 1)	0.18	<0.3
5	Sulphur dioxide (SO ₂)	mg/Nm ³	IS 11255 (Part 2)	6.40	--
6	Nitrogen dioxide (NO ₂)	g/kw-hr	IS 11255 (Part 7)	0.53	--
7	Carbon monoxide (CO)	g/kw -hr	IS 13270	BDL (DL:0.2)	<3.5

Note: BDL: Below Detectable Limit; DL: Detectable Limit.

Verified by


M. BALAJI
Quality Manager



For Life Shell Labs India Pvt. Ltd.


Authorized Signatory

K. KAMALANATHAN
Deputy Technical Manager

*****End of Report*****



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Email: labs@lifeshell.in, lifeshelllabs@gmail.com

www.lifeshelllabs.com

TEST REPORT

Sample ID: 2310007	JOE:2247	Report Date: 11.10.2023	
Customer Name	M/s.MARG Properties Limited - (PUSHKARA),		
Address	S.F. No. Survey No: 6/1A1, 1A2B, 1B1A & 1B2 and 8/1A(P), 1B, 1C1 & 1C2 of Kazhipattur Village, Chengalpattu Taluk, Chengalpattu District		
Date of Sampling	05.10.2023	Sampled by	LSL
Sample Received on	05.10.2023	Sample Description	Ambient Noise Level
Test Commenced on	06.10.2023	Sampling Procedure	Prescribed as per Test Method
Test Completed on	11.10.2023	Ambient Temp during sampling	32°C (Avg.)
Sampling Location	Mentioned Below	RH during sampling	64% (Avg.)

DISCIPLINE		Chemical Testing		
PRODUCT GROUP		ATMOSPHERIC POLLUTION		
S. No	Sample Location	Test Method	Result in dB (A) Leq.	Limits as per TNPCB*
1	East Corner	IS 9989 : 2001 (R.2014)	48.2	55 dB (A)
2	West Corner		46.1	
3	North Corner		50.3	
4	South Corner		49.7	

* The Noise Pollution (Regulation and Control) Rules 2000 - Ambient Air Quality Standards in Respect of Noise.

Verified by M. BALAJI Quality Manager	 *****End of Report*****	For Life Shell Labs India Pvt. Ltd, K. KAMALANATHAN Deputy Technical Manager
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Email: labs@lifeshell.in, lifeshelllabs@gmail.com

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TEST REPORT

Sample ID: 2310008	JOE:2247	Report Date: 11.10.2023	
Customer Name	M/s.MARG Properties Limited - (PUSHKARA),		
Project Name & Address	S.F. No. Survey No: 6/1A1, 1A2B, 1B1A & 1B2 and 8/1A(P), 1B, 1C1 & 1C2 of Kazhipattur Village, Chengalpattu Taluk, Chengalpattu District		
Date of Sampling	05.10.2023	Sampled by	LSL
Sample Received on	05.10.2023	Sample Description	Ground Water
Test Commenced on	06.10.2023	Sampling Procedure	LSL/SOP/CHE/071
Test Completed on	11.10.2023	Sample Condition	Satisfactory
Sampling Location	Near Site Office	Sample Quantity	2 liters

DISCIPLINE		CHEMICAL TESTING		
PRODUCT GROUP		WATER		
S. No	PARAMETERS	UNIT	TEST METHOD	RESULTS
1	Colour	Hazen	IS 3025-Part 4	5.0
2	Odour	--	IS 3025-Part 5	Agreeable
3	pH @ 25°C	--	IS 3025-Part 11	6.17
4	Electrical Conductivity	µmhos/cm	IS 3025-Part 14	698
5	Temperature	°C	IS 3025-Part 9	27.5
6	Turbidity	NTU	IS 3025-Part 10	0.8
7	Total Dissolved Solids (TDS)	mg/l	IS 3025-Part 16	370
8	Total Hardness as CaCO ₃	mg/l	IS 3025-Part 21	152
9	Sulphate as SO ₄ ²⁻	mg/l	APHA-24 th Edn-2023	36.0
10	Calcium as Ca	mg/l	IS 3025-Part 40	33.6
11	Magnesium as Mg	mg/l	IS 3025-Part 46	16.3
12	Chloride as Cl	mg/l	IS 3025-Part 32	122
13	Sodium as Na	mg/l	IS 3025 part-45	54.0
14	Iron as Fe	mg/l	IS 3025 (Part 53)	0.12
15	Reactive Silica	mg/l	IS 3025 Part 35	29.0
16	Phosphate as PO ₄	mg/l	APHA-24 th Edn-2023	0.68

BOL: Below Detectable Limit; DL: Detectable Limit,

Verified by

M. Balaji

M. BALAJI

Quality Manager



For Life Shell Labs India Pvt. Ltd.

K. Kamalathian

Authorized Signatory

K. KAMALATHIAN
Deputy Technical Manager



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TEST REPORT

Sample ID: 2310008		JOE:2247		Report Date: 11.10.2023
S. No	PARAMETERS	UNIT	TEST METHOD	RESULTS
17	Zinc as Zn	mg/l	IS 3025-Part 49	BDL(DL:0.05)
18	Mercury as Hg	mg/l	IS 3025-Part 48	BDL(DL:0.01)
19	Lead as Pb	mg/l	IS 3025-Part 47	BDL(DL:0.01)
20	Arsenic as As	mg/l	IS 3025-Part 37	BDL(DL:0.05)
21	Total Chromium (as Cr)	mg/l	IS 3025-Part 52	BDL(DL:0.1)
22	Salinity	mg/l	APHA-24 th Edn-2023	201

BDL: Below Detectable Limit; DL: Detectable Limit.

Verified by  M. BALAJI Quality Manager		For Life Shell Labs India Pvt. Ltd.  Authorized Signatory K. KAMALANATHAN Deputy Technical Manager
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TEST REPORT

Sample ID: 2310008	JOE:2247	Report Date: 11.10.2023	
Customer Name	M/s.MARG Properties Limited - (PUSHKARA),		
Project Name & Address	S.F. No. Survey No: 6/1A1, 1A2B, 1B1A & 1B2 and 8/1A(P), 1B, 1C1 & 1C2 of Kazhipattur Village. Chengalpattu Taluk, Chengalpattu District		
Date of Sampling	05.10.2023	Sampled by	LSL
Sample Received on	05.10.2023	Sample Description	Ground Water
Test Commenced on	06.10.2023	Sampling Procedure	LSL/SOP/MIC/004
Test Completed on	11.10.2023	Sample Condition	Satisfactory
Sampling Location	Near Site Office	Sample Quantity	250ml

DISCIPLINE		BIOLOGICAL TESTING		
PRODUCT GROUP		WATER		
S. No	PARAMETERS	UNIT	TEST METHOD	RESULTS
1	Total Coliforms	MPN /100ml	IS 1622:1981	<2
2	E.coli	MPN /100ml	IS 1622:1981	<2

MPN: Most Probable Number.

For Life Shell Labs India Pvt. Ltd.

Verified & Authorized by

M. BALAJI
Quality Manager

*****End of Report*****



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Certificate No. TC-1208

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TEST REPORT

Sample ID: 2310009	JOE:2247	Report Date: 11.10.2023	
Customer Name	M/s.MARG Properties Limited - (PUSHKARA),		
Project Name & Address	S.F. No. Survey No: 6/1A1, 1A2B, 1B1A & 1B2 and 8/1A(P), 1B, 1C1 & 1C2 of Kazhipattur Village, Chengalpattu Taluk, Chengalpattu District		
Date of Sampling	05.10.2023	Sampled by	LSL
Sample Received on	05.10.2023	Sample Description	Soil
Test Commenced on	06.10.2023	Sampling Procedure	LSL/SOP/CHE/074
Test Completed on	11.10.2023	Sample Condition	Satisfactory
Sampling Location	Near Site Office	Sample Quantity	2 Kgs

DISCIPLINE		CHEMICAL TESTING		
PRODUCT GROUP		POLLUTION & ENVIRONMENT		
S. No	PARAMETERS	UNIT	TEST METHOD	RESULTS
1	pH @ 25°C	-	IS 2720 Part -26	8.53
2	Electrical Conductivity	µs/cm	IS 14767 (2000)	314
3	Moisture Content	%	IS 2720 Part -2	6.24
4	Total Kjheldal Nitrogen as N	%	IS 14684	0.028
5	Total Phosphorus as P	%	IS 10158	BDL (DL:0.1)
6	Soluble Sodium (as Na)	meq /100g	Method of analysis for soils of arid and semi-arid Regions, FAO 2007	1.80
7	Soluble Potassium as K	meq /100g		1.04
8	Soluble chromium Cr	%		BDL (DL:0.05)

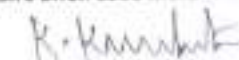
BDL: Below Detectable Limit; DL: Detectable Limit.

Verified by


M. BALAJI
Quality Manager



For Life Shell Labs India Pvt. Ltd,


Authorized signatory

R. MURALIDHARAN
Deputy Technical Manager



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 Email: labs@lifeshell.in, lifeshelllabs@gmail.com
 www.lifeshelllabs.com

TEST REPORT


Sample ID: 2310009		JOE:2247		Report Date: 11.10.2023
S. No	PARAMETERS	UNIT	TEST METHOD	RESULTS
9	Copper as Cu	%	USEPA 3050B- 1996	BDL (DL:0.05)
10	Nickel as Ni	%	USEPA 3050B- 1996	BDL (DL:0.01)
11	Manganese as Mn	%	USEPA 3050B- 1996	BDL (DL:0.01)
12	Mercury as Hg	%	USEPA 3050B- 1996	BDL (DL:0.01)
13	Arsenic as As	%	USEPA 3050B- 1996	BDL (DL:0.01)
14	Lead as Pb	%	EPA 3050B: 1996	BDL (DL:0.01)
15	Phenolic Compounds (as C6H5OH)	%	USEPA 3050B- 1996	BDL (DL:0.05)
16	Zinc as Zn	%	USEPA 3050B- 1996	BDL (DL:0.05)

BDL: Below Detectable Limit; DL: Detectable Limit.

Verified by

M. BALAJI
 Quality Manager



For Life Shell Labs India Pvt. Ltd,

 Authorized signatory
K. KAMALANATHAN
 Deputy Technical Manager

*****End of Report*****



NABL Accredited, ISO 9001 : 2015
OSHAS 18001 - 2007 Certified Company



Certificate No. TC-12826

LIFE SHELL LABS INDIA PVT. LTD.

(The Complete Environmental Service Provider)
No. 20, Nehru Street, Maruthi Nagar, Phase I,
Iyyappanthangal, Chennai - 600077, Tamil Nadu
Tel: +91(44) 48634849, 63809 68684
Email: labs@lifeshell.in, lifeshelllabs@gmail.com
www.lifeshelllabs.com

TEST REPORT


Sample ID: 2310010	JOE:2247	Report Date: 11.10.2023	
Customer Name	M/s.MARG Properties Limited - (PUSHKARA),		
Address	S.F. No. Survey No: 6/1A1, 1A2B, 1B1A & 1B2 and 8/1A(P), 1B, 1C1 & 1C2 of Kazhipattu Village, Chengalpattu Taluk, Chengalpattu District		
Date of Sampling	05.10.2023	Sampled by	ISL
Sample Received on	05.10.2023	Sample Description	STP Treated Water
Test Commenced on	06.10.2023	Sampling Procedure	ISL/SOP/CHE/071
Test Completed on	11.10.2023	Sample Condition	Satisfactory
Sampling Location	STP Plant	Sample Quantity	2 liters

DISCIPLINE		CHEMICAL TESTING			
PRODUCT GROUP		POLLUTION & ENVIRONMENT			
S. No	PARAMETERS	UNIT	TEST METHOD	RESULTS	LIMIT AS PER TNPCB
1	pH @ 25°C	-	IS 3025 (Part 11)	8.16	5.5 to 9.0
2	Electrical Conductivity	µs/cm	IS 3025 (Part 14)	2636	--
3	Total Dissolved Solids (TDS)	mg/l	IS 3025 (Part 16)	1740	--
4	Total Suspended Solids (TSS)	mg/l	IS 3025 (Part 17)	4.0	50
5	Chemical Oxygen Demand	mg/l	APHA-24 th Edn:2023	24.0	150
6	BOD - 3 days @ 27°C	mg/l	IS 3025 (Part 44)	4.0	30
7	Total Kjeldhal Nitrogen (TKN)	mg/l	IS 3025 (Part 34)	4.2	--
8	Ammoniacal Nitrogen	mg/l	IS 3025 (Part 34)	2.2	--
9	Oil and Grease	mg/l	IS 3025 (Part 39)	BDL(DL-1.0)	--
10	Total Coliforms	MPN/100ml	APHA-24 th Edn:2023	110	1000

Note: BDL: Below Detectable Limit; DL: Detectable Limit, MPN: Most Probable Number.

*TNPCB: Tamil Nadu Pollution Control Board

Verified by


M. BALAJI
Quality Manager



For Life Shell Labs India Pvt. Ltd,



Authorized signatory

K. KAMALANATHAN
Deputy Technical Manager

*****End of Report*****