

COMPLIANCE REPORT
OCTOBER 2024 -MARCH 2025

M/S. INDROYAL PROPERTY DEVELOPERS PVT. LTD

THIRUVANANTHAPURAM DISTRICT
KERALA

COMPLIANCE REPORT

TO

THE CONDITIONS

OF

ENVIRONMENT CLEARANCE ORDER

(F. No. 21-163/2014-IA.III)

FOR THE PERIOD OF

October 2024 – March 2025

PREPARED FOR

**M/s Indroyal Property Developers Pvt. Ltd
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INTRODUCTION

M/s Indroyal Property Developers Pvt. Ltd is a residential project situated at Survey Nos. at Sy. Nos. 2413/B1, 2414/1, 2415,2413/B,24131 A, 2414 of Vanchiyur Village,Trivandrum Municipal Corporation, Thiruvananthapuram Taluk, Thiruvananthapuram District, Kerala. The construction project was accorded Environmental Clearance for **47,630.74sq.mtr** of built up area on 18-06-2015 vide **File .No. 21-163/2014-IA.III** by Ministry of Environment, Forest and Climate Change,New Delhi.

The half yearly compliance report needs to be submitted as part of general condition No.13 of Environmental Clearance order by the project proponent. The compliance report to conditions of the Environmental Clearance for the period of **October 2024 to March 2025** (Second half) is being submitted.

COMPLIANCE REPORT

SPECIFIC CONDITIONS CONSTRUCTION PHASE

| | | |
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| 01 | The Project Proponent shall insure that the guidelines issued vide this Ministry's OM No. 19-2/2013-IA.III dated 09.06.2015, to be followed for building and construction projects to ensure sustainable environmental management in pursuance of Notification No. 3252 (E) dated 22. 12.2014 under the EIA Notification, 2006, as applicable, are followed in this project. | Complied |
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Compliance:

The Project proponent has been implementing the guidelines issued vide this Ministry's OM No. 19-2/2013-IA.III dated 09.06.2015 during construction phase to prevent Air pollution, noise pollution and other type of pollution from the construction site.

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| 02 | The Project Proponent shall obtain all necessary clearance/ permission from all relevant agencies including town planning authority before commencement of work. | Complied |
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Compliance:

The project proponent has obtained all necessary clearance and permission from the concerned department before commencing the construction activity. The copy of Environmental Clearance is attached as **Annexure No.1**.

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| 03 | "Consent for Establishment shall be obtained from State Pollution Control Board under Air (Prevention and Control of Pollution) Act, 1981 and Water (Prevention and Control of Pollution) Act, 1974, | Complied |
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Compliance:

The project proponent has obtained Consent for Establishment from pollution Control Board. The copy of the same is attached as **Annexure No.2**.

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| 04 | The total plot area is 9,429.51 sqm. FSI area shall be 34,900 sqm. and total construction area shall be 47,630.74 sqm. The project will comprise of two residential blocks with with 208 residential units buildings. Total 208 flats shall be developed. Maximum height of the building shall be 44 m. | Complied |
|----|---|-----------------|

Compliance:

The civil work of the proposed project has completed and the total plot area is 9,429.51 sqm, FSI area is 34,900 sqm and total construction area is higher than the permitted area. The

project comprises of two residential blocks with 208 residential units buildings. The maximum height of the building is 44 meter. The PP has followed all norms stipulated in the Kerala Municipal Building Rules and the data submitted before the authority.

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| 05 | During construction phase, total water requirement is 29 KLD (14 KL domestic 15 KL construction demand) which shall be met by Kerala. Water Authority supply, Open well existing at site & Stored rain water. Portable toilets with mobile STP for disposal of waste water shall be provided. Temporary sanitary toilets shall be provided for labor force. | Complied |
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Compliance:

The Project proponent has constructed water tanks in the project site to harvest rain water for the use of construction in the project site. To dispose the waste water, the PP has constructed temporary sanitary toilets with soak pit.

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| 06 | During operational phase, total water demand of the project is 144.90 KLD which shall be met by 71.30 Recycled Water. Wastewater generated (115.92 KLD) shall be treated in STP of total 140 KLD capacity. 71.30 KLD of treated wastewater shall be recycled (48.30 KLD for flushing & 23 KLD for gardening). About 32.70 KLD shall be disposed in to municipal drain. | Being Complied |
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Compliance:

In operational phase the project proponent will recycle the waste water through STP. The treated water will be used for flushing and gardening as proposed. The excess water can disposed to the public sewer line.

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| 07 | About 0.416 TPD solid wastes will be generated in the project. The biodegradable waste (249.60 Kg/Day) shall be processed Bio-gas generation plant and the non-biodegradable waste generated (166.40 Kg/Day) shall be handed over to authorized local vendor. | Complied |
|-----------|--|-----------------|

Compliance:

The project proponent has purchased Organic Waste Converter 350Kg/ 8 hour . All waste generted from the project site will be treated through OWC. The manure can be used in the garden at the project site. The non bio degradable waste will be handed over to authoirsed local vendor.

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| 08 | The total power requirement during construction phase is 40 kVA and shall be met from Kerala State Electricity Board and 62.50 kVA capacity D.G. Set shall be installed. The total power requirement during operation phase is 1,300 kWh which shall be met net from Kerala State Electricity Board and D.G. Sets having capacity of 200 kVA x 1 and 380 KVA x 1 shall be installed as standby. D.G sets shall be at least 6 m away from the boundary. | Complied |
|-----------|--|-----------------|

Compliance:

The project proponent has got electrical connection from KSEB for both during construction and operational phase. The D G is installed in discussion with the Kerala State Pollution Control Board. The distance of D G from boundary is having more than 6 meter.

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| 09 | Rooftop rainwater of buildings shall be collected in RCC RWH tanks of total about 100 KL capacity for harvesting after filtration. | Complied |
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Compliance:

The Project proponent has constructed rain water harvesting tank in the project site with 165 KL capacity. The rain water is collected from roof top of the project.

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| 10 | Parking facility for 247 cars and 104 two-wheelers shall be provided against the requirement of 247 cars and 104 two-wheelers respectively (according to local norms). | Complied |
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Compliance:

The project proponent has provided adequate car and two wheeler parking space in the project site as per Kerala Municipal Building Rules. The PP has provided parking facility for car and two wheelers in the project site.

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| 11 | The project proponent shall comply with the conditions of NOC/Clearance from Fire Department. | Noted |
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Compliance:

The project proponent has obtained initial fire NOC from Fire and rescue department of Kerala. After completion of construction work, the P P has obtained final NOC. The initial and Final NOC from fire and rescue department is attached as **Annexure No.3**.

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| 12 | All the construction shall be in accordance with the local building byelaws. The Project Proponent shall obtain all necessary clearances. | Complied |
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Compliance:

The project proponent has obtained building permit from Municipal Corporation. The project proponent has constructed the building based on the Kerala Municipal Building Rules. After completion of construction, the project proponent has obtained Occupancy Certificate from Local Self Government. The copy of same is attached as **Annexure No.4.**

| | | |
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| 13 | The project proponent shall put in place credible enforcement mechanism for compliance of energy conservation measures with its allottees, as projected, in perpetuity. This would be monitored by the designed Energy Conservation/efficiency Authority in the State. | Complied |
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Compliance:

As per the norm of Kerala Municipal Building Rule, the project proponent has installed solar panels with the capacity of 40 KWp in the project site. All lights were LED to conserve energy.

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| 14 | Temporary toilets will be provided for all construction labour. | Complied |
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Compliance:

The project proponent has constructed and provided temporary toilets for the labours in the project site during construction phase.

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| 15 | Suitable toilet fixtures for water conservation shall be provided. | complied |
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Compliance:

The Project proponent has installed dual flushing toilets to reduce the water consumption.

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| 16 | Proponent shall obtain permission for ground water withdrawal from State Ground Water Authority. | Complied |
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Compliance:

The Ground water Department has constructed one bore well in the project site on the request of project proponent. The report prepared by the department is attached as **Annexure No.5.**

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| 17 | The rainwater harvesting plan should be incorporated by the CGWA. | Complied |
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Compliance:

The project proponent has constructed rain water harvesting tank with the capacity of 160 KL in the project site.

| | | |
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| 18. | Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, crèche etc. The housing may be in the form of temporary structures to be removed after the completion of the project. | Complied |
|-----|---|----------|

Compliance:

During construction phase, the project proponent has provided necessary infrastructure and facilities such as fuel for cooking, mobile toilets, safe drinking water, medical health care, etc. The housing was in the form of temporary structures to be removed after the completion of the project. All temporary houses were removed as per the condition.

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| 19 | A First Aid Room will be provided in the project both during construction and operation of the project. | Complied |
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Compliance:

The project proponent had setup a First Aid room in the project site during construction phase with adequate first aid kits and other needed equipment.

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| 20 | All the topsoil excavated during construction activities should be stored for use in in horticulture/landscape development within the project site. | Complied |
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Compliance:

The PP has excavated topsoil during construction phase and stored in the project site. During the progress of the construction, the stacked topsoil was used for land scape development within the project site.

| | | |
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| 21 | Disposal of muck during construction phase should 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 | Complied |
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| | competent authority. | |
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Compliance:

The generated muck from the project site during piling stage was stacked in the near to the construction and filled back after construction of basements.

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| 22 | Soil and ground water samples will be tested to ascertain that there is no threat to ground water quality by leaching of heavy metals and other toxic contaminants. | Complied |
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Compliance:

The soil and ground water samples are being tested regularly by a NABL accredited laboratory. The parameters are well within the limit.

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| 23 | Construction spoils, including bituminous material and other hazardous materials, must not be allowed to contaminate watercourses and the dump sites for such material must be secured. be secured so that they should not leach into the ground water. | Complied |
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Compliance:

The PP did not use bituminous in the project site for construction drive way. The hazardous waste waste handed over to the agency having approval from Kerala State Pollution Control Board. The ground water is being regularly monitored.

| | | |
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| 24 | Any hazardous waste generated during construction phase, should be disposed off as per applicable rules and norms with necessary approvals of the State Pollution Control Board. | Complied |
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Compliance:

The hazardous waste generated from the project site is being managed as per the rules made in 2016. The Hazardous waste generated from is being handed over to the agency having approval from Kerala State Pollution Control Board.

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| 25 | The diesel generator sets to be used during construction phase should be low sulphur diesel type and should conform to Environment | Complied |
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| | (Protection) Rules prescribed for air and noise emission standards. | |
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Compliance:

The diesel generator used in construction phase was confirmed to the stipulated air and noise emission standards.

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| 26 | The diesel required for operating DG sets shall be stored in underground tanks and clearance from Chief Controller of Explosives shall be taken, applicable. | Complied |
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Compliance:

The Project proponent did not keep more than 1000 liters of diesel in the project site for D G set. Therefore clearance from Chief Controller of Explosives was not necessary.

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| 27 | 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 and noise emission standards and should be operated only during non-peak hours. | Complied |
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Compliance:

The project proponent has used good vehicles for transportation of materials. All vehicles had pollution Check certificate and it was operated only during non peak hours.

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| 28 | Ambient noise levels should conform to residential standards both during day and night as per Noise Pollution (Control and Regulation) Rules, 2000. Incremental pollution loads on the ambient air and noise quality should be closely monitored during construction phase. Adequate measures should be made to reduce ambient air and noise level during construction phase. CPCB/SPCB. | Complied |
|----|--|----------|

Compliance:

The project proponent had implemented measures to reduce emission of dust from construction site and to reduce noise. The air and noise quality were closely monitored by an approved Laboratory during construction phase. Sprinkling, Barricade around the project

site, restriction on night work, restriction of grinding and cutting at open space were some of the measures taken to reduce air and noise pollution.

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| 29 | Fly ash should be used as building material in the construction as per the provisions of Fly Ash Notification of September, 1999 and amended as on 27th August, 2003. | Complied |
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Compliance:

The project proponent has used fly ash mixed cement for the construction of residential building. There is no thermal power station within 100 km vicinity to the project site. Therefore it is not mandatory however, the fly ash included construction materials were used for the construction of building.

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| 30 | Ready mixed concrete must be used in building construction. | Complied |
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Compliance:

The project proponent has used ready mixed concrete for the construction of building.

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| 31 | Storm water control and its re-use as per CGWB and BIS standards for various applications. | Complied |
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Compliance:

The project proponent had constructed rain water harvesting tank during construction phase. This water used for construction purposes. Storm water flow was controlled by the drain constructed in the project site.

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| 32 | 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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Compliance:

The project proponent had used pre mixed concrete or ready mixed concrete for the construction of building which reduced not only the water demand but also air pollution. The curing agents were used to reduce water consumption in the project site.

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| 33 | Permission to draw ground water shall be obtained from the competent Authority prior to construction/operation of the project. | Complied |
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Compliance:

One of the borewell was constructed by the Ground water department of Kerala. Since the Kerala state is in a safe position, the permission for draw ground water was not necessary.

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| 34 | Separation of grey and black water should be done by the use of dual plumbing line for separation of grey and black water. | Complied |
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Compliance:

The project proponent has implemented / installed dual plumbing for separation of grey and black water.

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| 35 | Fixtures for showers, toilet flushing and drinking should be of low flow either by use of aerators or pressure reducing devices or sensor based control. | Complied |
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Compliance:

The project proponent has purchased all fixtures based on water efficiency. The water taps are low flow by use of aerators, toilets are fitted with dual flushing.

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| 36 | Use of glass may be reduced by up-to 40% to reduce the electricity consumption and load on air-conditioning. If necessary, use high quality double glass with special reflective coating in windows. | Complied |
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Compliance:

The use of glass is reduced by upto 40% in this residential project. The used glass was high quality glass to reduce heat. The PP will instruct the allottees to use curtain at every window which can reduce the electricity consumption and load on air conditioning.

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| 37 | Regular supervision of the above and other measures for monitoring | Complied |
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| | should be in place all through the construction phase, so as to avoid disturbance to the surroundings. | |
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Compliance:

The project proponent had appointed project manager for regular supervision of implementation of various measures to reduce pollution in the project site during construction phase.

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| 38 | Under the provisions of Environment (Protection) Act, 1986, legal action shall be initiated against the project proponent if it was found that construction of the project has been started without obtaining environmental clearance. | Complied |
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The construction was started in the project site after obtaining environmental clearance. There was no construction activity before obtaining Environmental Clearance.

COMPLIANCE REPORT

SPECIFIC CONDITIONS OPERATIONAL PHASE

| | | |
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| 01 | 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. | Being Complied |
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Compliance:

The residential project is yet to reach in the full occupancy. The PP has installed water meter for monitoring the volume of water saved through rain water harvesting, fresh water usage and treated water from STP.

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| 02 | The treated wastewater of 71.30 KLD shall be recycled and reused for flushing (48.30 KLD) and gardening (23 KLD) to reduce the demand of fresh water as committed. | Noted to be Complied |
|-----------|---|-----------------------------|

Compliance:

To reduce the demand of fresh water, the project proponent has installed plumbing line for treated water to reuse as water for flushing and gardening.

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| 03 | Solid waste management shall be collected, treated disposed in accordance with the Municipal Solid Waste (Management & Handling) Rules, 2000. No municipal waste should be disposed off outside the premises. | Complied |
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Compliance:

The PP has purchased Organic Waste Converter (OWC) for the management of bio degradable waste generated from the project site. The waste will be manure and it is being used for gardening. The municipal solid waste is being managed in accordance with Municipal Solid Waste (Management & Handling) Rules, 2016. All bio degradable waste is being managed in side the project premises.

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| 04 | The Operation and Maintenance of STP shall be made in the MoU with STP supplier. Project Proponent shall ensure regular operation and maintenance of the STP. | Noted to be Complied |
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Compliance:

The PP has constructed STP and it is yet to start operation due to low occupancy rate in the residential project. The PP will enter in an MOU with an agency for operation and regular maintenance of STP.

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| 05 | Parking facility with 6 m clear driveway shall be provided as committed. | Complied |
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Compliance:

The project proponent has provided adequate parking provisions with 6. meter clear drive way in the residential project. All parking space are in side the project site.

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| 06 | The Project Proponent shall explore the possibilities of reusing the treated wastewater from nearby projects. | Complied |
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Compliance:

The treated water from the project site is enough for the water requirement of flushing and gardening in the residential project.

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| 07 | The installation of the Sewage Treatment Plant (STP) should be certified by an independent expert and report in this regard should be submitted to the Ministry before the project is commissioned for operation. Treated affluent 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 affluent shall conform to the norms and standards of the State Pollution Control Board. Necessary measures should be made to mitigate the odour problem from STP. | Complied |
|-----------|--|-----------------|

Compliance:

The project proponent has installed STP and it is yet to start its operation due to low occupancy rate. The PP has approached Cochin University to get a third party Certificate on STP. This will be submitted at MOEF&CC before commission of STP. The PP has provided mechanical ventilation to eliminate odor and regular maintenance will be there in for the proper operation of STP.

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| 8 | The solid waste generated should be properly collected and segregated. Wet garbage should be composted and dry/ inert solid | Complied |
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| | waste should be garbage disposed off to the approved sites for land filling after recovering recyclable material. | |
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Compliance:

The project proponent has placed color coded bins to collect bio degradable and non bio degradable waste as separate. The bio degradable waste is being treated in the Organic waste Converter. The Non bio degradable waste is being sold to the local vendor.

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| 9 | Diesel power generating sets proposed as source of back-up power for elevators and common area illumination 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. Use low sulphur diesel. The location of the DG sets may be decided with in consultation with State Pollution Control Board. | Complied |
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Compliance:

The DG installed in the project site is enclosed type and conformed to rules made under the Environment (Protection) Act, 1986. The height of the stack of DG decided based on the combined capacity of all DG sets. The location of DG is decided based on the discussion and permission of State pollution Control Board.

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| 10 | Noise should be controlled to ensure that it does not exceed the prescribed standards. During night time the noise levels measured at the boundary of the building shall be restricted to the permissible levels to comply with the prevalent regulations. | Noted |
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Compliance:

Since it is residential project the main noise generating activity will be playing of vehicles. The D G will work only during failure of electricity. There is no operation other than residence the project site.

| | | |
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| 11 | The green belt of the adequate width and density preferably with local species along the periphery of the plot shall be raised so as to provide protection against particulates and noise. | complied |
|-----------|--|-----------------|

Compliance:

The project proponent has planted various saplings around the project site. The PP has created a green area near to the project site.

| | | |
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| 12 | Rain water harvesting for roof run off and surface run off, as plan submitted should be implemented. Before recharging the surface run off, pre-treatment must be done remove suspended matter, oil and grease. The borewell for rainwater recharging should be kept at least 5 mts. above the highest ground water table. | complied |
|----|--|-----------------|

Compliance:

The PP has created a rain water harvesting tank in the project site. The PP is harvesting rain water from roof top no water is being harvested from surface runoff. The ground water level is high in this region therefore construction of recharge pit is not feasible in the project site.

| | | |
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| 13 | Energy conservation measures like installation of CFLs/TFLs for the lighting the areas outside the building should be integral part of the project design and should be in place before project commissioning. Use 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. | Complied |
|----|--|-----------------|

Compliance:

The all lightening in the project is LED which can reduce the energy consumption. All domestic hazard waste generated from the apartments and project will be collected and stored in a earmarked area in the project site. This will be managed and disposed through an approved agency. The PP has installed solar panel of 40 kWp in the project site.

COMPLIANCE REPORT

GENERAL CONDITIONS

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| 01 | A copy of the environmental clearance letter shall also be displayed on the website of concerned State Pollution Control Board. The EC letter shall also be displayed at the Regional Office, District Industries centre and Collector's Office/Tehsildar's office for 30 days. | Complied |
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Compliance:

The PP has submitted a copy of EC in the State Pollution Control Board, Regional Office, District Industries centre and Collector's Office

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| 02 | The funds earmarked for environmental protection measures shall be kept in separate account and shall not be diverted for other purpose. Year-wise expenditure shall be reported to this Ministry and its concerned Regional Office. | Complied |
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Compliance:

The funds earmarked for environmental protection measures was kept in separate account. The same was used for construction of rain water harvesting tank, STP, OWC, landscaping, Solar installation, LED lights, monitoring of various parameters etc.

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| 03 | Officials from the Regional Office of MoEF&CC, Bangalore who would be monitoring the implementation of environmental safeguards should be given full cooperation, facilities and documents/data by the project proponents during their inspection. A complete set of all the documents submitted to MoEF&CC should be forwarded to the CCF, Regional office of MoEF&CC, Bangalore. | Noted to be Complied |
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Compliance:

The project proponent will extend full support to the officer of MoEF&CC, Bangalore for their inspection in the project site.

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| 04 | In the case of any change(s) in the scope of the project, the project would require a fresh appraisal by this Ministry. | Noted to be Complied |
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Compliance:

The nature of the project was residential project during the appraisal of the project. The nature is not changed and there is no change in the scope of the project.

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| 05 | The Ministry reserves the right to add additional safeguard measures subsequently, if found necessary, and to take action including revoking of the environment clearance under the provisions of the Environmental (Protection) Act, 1986, ensure effective implementation of the suggested safeguard measures in time bound and satisfactory manner. | Noted |
|-----------|--|--------------|

Compliance:

The project proponent is aware that the Ministry reserves the right to add additional safeguard measures subsequently, if found necessary, and to take action including revoking of the environment clearance under the provisions of the Environmental (Protection) Act, 1986. The PP has been implementing all conditions stipulated in the E C Order.

| | | |
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| 06 | All other statutory clearances such as the approvals for storage of diesel from Chief Controller of Explosives, Fire Department, Civil Aviation Department, Forest Conservation Act, 1980 and Wildlife (Protection) Act, 1972 etc. shall be obtained, as applicable by project proponents from the respective competent authorities. | Being complied |
|-----------|--|-----------------------|

Compliance:

The project proponent has obtained all certificate for commencing the construction activity. The PP has obtained building permit, occupancy certificate, Consent to Establish, Fire NOC etc. All relevant approvals are attached as Annexure. The copy of height clearance is attached as **Annexure No.7**.

| | | |
|-----------|---|-----------------|
| 07 | These stipulations would be enforced among others under the provisions of Water (Prevention and Control of Pollution) Act, 1974, the Air (Prevention and control of Pollution) act 1981, the Environment (Protection) Act, 1986, the Public Liability (Insurance) Act, 1991 and EIA Notification, 2006. | Complied |
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Compliance:

The project proponent has been implementing conditions stipulated in E C and the provisions of other Acts in connection with the construction of residential project.

| | | |
|-----------|--|-----------------|
| 08 | The project proponent should advertise in at least two local Newspapers widely circulated in the region, one of which shall be in the vernacular language informing that the project has been accorded Environmental Clearance and copies of clearance letters are available with the State Pollution Control Board and may also be seen on the website of the Ministry of Environment, Forests & Climate Change at http://www.envfor.nic.in . The advertisement should be made within Seven days from the date of receipt of the Clearance letter and a copy of the same should be forwarded to the Regional Office of this Ministry at Bangalore. | Complied |
|-----------|--|-----------------|

The project proponent advertised in two local news paper one in vernacular language and other in english informing that the project has been accorded Environmental Clearance and copies of clearance letters are available with the State Pollution Control Board and may also be seen on the website of the Ministry of Environment, Forests & Climate Change at <http://www.envfor.nic.in>.

| | | |
|-----------|--|--------------|
| 09 | This Clearance is subject to final order of the Hon'ble Supreme Court of India in the matter of Goa Foundation v/s. Union of India in Writ Petition (Civil) No.460 of 2004 as may be applicable to this project. | Noted |
|-----------|--|--------------|

The condition is noted for implementation

| | | |
|-----------|---|--------------|
| 10 | Any appeal against this clearance shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010. | Noted |
|-----------|---|--------------|

There was no appeal against the project at NGT.

| | | |
|-----------|---|-----------------|
| 11 | A copy of the clearance letter shall be sent by the proponent to concerned Panchayat, Zilla Parisad/Municipal Corporation, Urban Local Body and the Local NGO, if any, from whom suggestions/representations, if any, were received while processing the proposal. The clearance letter shall also be put on the website of the company by the proponent. | Complied |
|-----------|---|-----------------|

The project proponent has submitted a copy of E C at Municipality Corporation. The clearance letter was uploaded in the website of the company.

| | | |
|-----------|---|-----------------|
| 12 | 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&CC, the respective Zonal Office of CPCB and the SPCB. 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 monitored and displayed at a convenient location near the main gate of the company in the public domain. | Complied |
|-----------|---|-----------------|

The project proponent has been regularly submitting Half Yearly Compliance Report at Ministry of Environment, Forest and Climate Change. The criteria pollutant levels of Air and stack emission of DG is displayed in the website near the main gate of the company in the public domain.

| | | |
|-----------|---|-----------------|
| 13 | The environmental statement for each financial year ending 31 March in Form-V as is mandated to be submitted by the project proponent to the concerned State Pollution Control Board prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of EC conditions | Complied |
|-----------|---|-----------------|

| | | |
|--|---|--|
| | and shall also be sent to the respective Regional Offices of MoEF&CC by e-mail. | |
|--|---|--|

The project proponent is regularly submitting environmental statement in form V at State Pollution Control Board. This is uploaded in the website of the company and made the part of Half Yearly Compliance Report.

ANNEXURE

Annexure No.1

F.No. 21-163/2014-IA.III

Government of India

Ministry of Environment, Forests & Climate Change
(IA.III Section)Indira Paryavaran Bhawan,
Jor Bagh Road,
New Delhi - 110 003Dated: 18th June, 2015

To

The Managing Director,

M/s Indroyal Property Developers Pvt. Ltd.,
T.C. 2/2465 (5,6) M. G. Road, Royal Plaza, Pattom,
Thiruvananthapuram - 695 004, Kerala.

Subject: Proposed construction of residential project at Sy. Nos. 2413/B1, 2414/1, 2415, 2413/B, 2413/A, 2414 of Vanchiyur Village, Trivandrum Municipal Corporation, Thiruvananthapuram Taluk, Thiruvananthapuram District, Kerala by M/s Indroyal Property Developers Pvt. Ltd. - Environmental Clearance - Reg.

Sir,

This has reference to your application Nil dated Nil seeking prior Environmental Clearance on the above-mentioned subject.

2. The Ministry of Environment, Forests & Climate Change has considered the application. It is noted that the proposal is for grant of Environmental Clearance for **Proposed construction of residential project at Sy. Nos. 2413/B1, 2414/1, 2415, 2413/B, 2413/A, 2414 of Vanchiyur Village, Trivandrum Municipal Corporation, Thiruvananthapuram Taluk, Thiruvananthapuram District, Kerala by M/s Indroyal Property Developers Pvt. Ltd.** The proposal was considered by the EAC in its meeting held on 28th - 30th January, 2015. The proponent has informed that:

- i. The proposal involves construction of residential project at Sy. Nos. 2413/B1, 2414/1, 2415, 2413/B, 2413/A, 2414 of Vanchiyur Village, Trivandrum Municipal Corporation, Thiruvananthapuram Taluk, Thiruvananthapuram District, Kerala by M/s Indroyal Property Developers Pvt. Ltd. The project is located at 80° 30'19.22" N Latitude and 76° 56'15.03" E Longitude. The project site is located within the Municipal Corporation Limit of Thiruvananthapuram Municipal Corporation and Lakshadweep Sea is about 4.50 km (aerial distance) away from the project site.
- ii. The total plot area is 9,429.51 sqm. FSI area is 34,900 sqm. and total construction area of 47,630.74 sqm. The project will comprise of two residential blocks with 208 residential units buildings. Total 208 flats shall be developed. Maximum height of the building will be 44 m.
- iii. During construction phase, total water requirement is expected to be 29 KLD (14 KL domestic + 15 KL construction demand) which will be met by Kerala Water Authority supply, Open well existing at site & Stored rain water. Portable toilets with mobile STP for disposal of waste water proposed to be provided. Temporary sanitary toilets will be provided for labor force.

EC_Indroyal Properties



Page 1 of 8

- iv. During operational phase, total water demand of the project is expected to be about 144.90 KLD which will be met by 71.30 Recycled Water. Wastewater generated (115.92 KLD) will be treated in STP of total 140 KLD capacity. 71.30 KLD of treated wastewater will be recycled (48.30 KLD for flushing & 23 KLD for gardening). About 32.70 KLD will be disposed in to municipal drain.
 - v. About 0.416 TPD solid wastes will be generated in the project. The biodegradable waste (249.60 Kg/Day) will be processed Bio-gas generation plant and the non-biodegradable waste generated (166.40 Kg/Day) will be handed over to authorized local vendor.
 - vi. The total power requirement during construction phase is 40 kVA and will be met from Kerala State Electricity Board and 62.50 kVA capacity D.G. Set is proposed to be installed. The total power requirement during operation phase is 1,300 kWH which will be met from Kerala State Electricity Board and D.G. Sets having capacity of 200 kVA x 1 + 380 kVA x 1 proposed to be installed as standby.
 - vii. Rooftop rainwater of buildings will be collected in RCC RWH tanks of total about 100 KL capacity for harvesting after filtration.
 - viii. Parking facility for 247 Cars and 104 two wheelers is proposed to be provided against the requirement of 247 Cars and 104 Two-wheelers respectively (according to local norms).
 - ix. Proposed energy saving measures would save about 23.92 % of power.
 - x. The cost of the project is Rs.85 crores.
 - xi. **Wildlife issues:** There is no Eco-Sensitive area located within 10 km radius of the proposed project site.
 - xii. **Forest land:** No forest land involved in the project.
 - xiii. There is no **court cases/violation** pending with the project proponent.
3. The proposal was considered by the Expert Appraisal Committee (EAC) and recommended in its 144th EAC meeting held on 28th - 30th January, 2015 for granting Environmental Clearance. The Ministry of Environment, Forests & Climate Change hereby accords Environmental Clearance for the above-mentioned **Proposed construction of residential project at Sy. Nos. 2413/B1, 2414/1, 2415, 2413/B, 2413/A, 2414 of Vanchiyur Village, Trivandrum Municipal Corporation, Thiruvananthapuram Taluk, Thiruvananthapuram District, Kerala by M/s Indroyal Property Developers Pvt. Ltd.** under the provisions of the Environment Impact Assessment Notification, 2006 and amendments thereto and Circulars issued thereon and subject to the compliance of the following specific conditions, in addition to the general conditions mentioned below:

PART A – SPECIFIC CONDITIONS

I. Construction Phase

- (i) The Project Proponent shall insure that the guidelines issued vide this Ministry's OM No. 19-2/2013-IA.III dated 09.06.2015, to be followed for building and construction projects to ensure sustainable environmental management in pursuance of Notification No. 3252 (E) dated 22.12.2014 under the EIA Notification, 2006, as applicable, are followed in this project.
- (ii) The Project Proponent shall obtain all necessary clearance/ permission from all relevant agencies including town planning authority before commencement of work.

- (iii) "Consent for Establishment" shall be obtained from State Pollution Control Board under Air (Prevention and Control of Pollution) Act, 1981 and Water (Prevention and Control of Pollution) Act, 1974.
- (iv) The total plot area is 9,429.51 sqm. FSI area shall be 34,900 sqm. and total construction area shall be 47,630.74 sqm. The project will comprise of two residential blocks with 208 residential units buildings. Total 208 flats shall be developed. Maximum height of the building shall be 44 m.
- (v) During construction phase, total water requirement is 29 KLD (14 KL domestic + 15 KL construction demand) which shall be met by Kerala Water Authority supply, Open well existing at site & Stored rain water. Portable toilets with mobile STP for disposal of waste water shall be provided. Temporary sanitary toilets shall be provided for labor force.
- (vi) During operational phase, total water demand of the project is 144.90 KLD which shall be met by 71.30 Recycled Water. Wastewater generated (115.92 KLD) shall be treated in STP of total 140 KLD capacity. 71.30 KLD of treated wastewater shall be recycled (48.30 KLD for flushing & 23 KLD for gardening). About 32.70 KLD shall be disposed in to municipal drain.
- (vii) About 0.416 TPD solid wastes will be generated in the project. The biodegradable waste (249.60 Kg/Day) shall be processed Bio-gas generation plant and the non-biodegradable waste generated (166.40 Kg/Day) shall be handed over to authorized local vendor.
- (viii) The total power requirement during construction phase is 40 kVA and shall be met from Kerala State Electricity Board and 62.50 kVA capacity D.G. Set shall be installed. The total power requirement during operation phase is 1,300 kWh which shall be met from Kerala State Electricity Board and D.G. Sets having capacity of 200 kVA x 1 + 380 kVA x 1 shall be installed as standby. D.G sets shall be at least 6 m away from the boundary.
- (ix) Rooftop rainwater of buildings shall be collected in RCC RWH tanks of total about 100 KL capacity for harvesting after filtration.
- (x) Parking facility for 247 cars and 104 two-wheelers shall be provided against the requirement of 247 cars and 104 two-wheelers respectively (according to local norms).
- (xi) The project proponent shall comply with the conditions of NOC/Clearance obtained from Fire Department.
- (xii) All the construction shall be in accordance with the local building byelaws. The Project Proponent shall obtain all necessary clearances.
- (xiii) The project proponent shall put in place a credible enforcement mechanism for compliance of energy conservation measures with its allottees, as projected, in perpetuity. This would be monitored by the designed Energy Conservation/ efficiency Authority in the State.



- (xiv) Temporary toilets will be provided for all construction labour.
- (xv) Suitable toilet fixtures for water conservation shall be provided.
- (xvi) Proponent shall obtain permission for ground water withdrawal from State Ground Water Authority.
- (xvii) The rainwater harvesting plan should be incorporated by the CGWA.
- (xviii) Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, crèche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.
- (xix) A First Aid Room will be provided in the project both during construction and operation of the project.
- (xx) All the topsoil excavated during construction activities should be stored for use in horticulture/landscape development within the project site.
- (xxi) Disposal of muck during construction phase should 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.
- (xxii) Soil and ground water samples will be tested to ascertain that there is no threat to ground water quality by leaching of heavy metals and other toxic contaminants.
- (xxiii) Construction spoils, including bituminous material and other hazardous materials, must not be allowed to contaminate watercourses and the dump sites for such material must be secured so that they should not leach into the ground water.
- (xxiv) Any hazardous waste generated during construction phase, should be disposed off as per applicable rules and norms with necessary approvals of the State Pollution Control Board.
- (xxv) The diesel generator sets to be used during construction phase should be low sulphur diesel type and should conform to Environment (Protection) Rules prescribed for air and noise emission standards.
- (xxvi) The diesel required for operating DG sets shall be stored in underground tanks and clearance from Chief Controller of Explosives shall be taken, as applicable.
- (xxvii) 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 and should be operated only during non-peak hours.
- (xxviii) Ambient noise levels should conform to residential standards both during day and night as per Noise Pollution (Control and Regulation)

quality should be closely monitored during construction phase. Adequate measures should be made to reduce ambient air and noise level during construction phase, so as to conform to the stipulated standards by CPCB/ SPCB.

- (xxix) Fly ash should be used as building material in the construction as per the provisions of Fly Ash Notification of September, 1999 and amended as on 27th August, 2003.
- (xxx) Ready mixed concrete must be used in building construction.
- (xxxi) Storm water control and its re-use as per CGWB and BIS standards for various applications.
- (xxxii) Water demand during construction should be reduced by use of pre-mixed concrete, curing agents and other best practices referred.
- (xxxiii) Permission to draw ground water shall be obtained from the competent Authority prior to construction/operation of the project.
- (xxxiv) Separation of grey and black water should be done by the use of dual plumbing line for separation of grey and black water.
- (xxxv) Fixtures for showers, toilet flushing and drinking should be of low flow either by use of aerators or pressure reducing devices or sensor based control.
- (xxxvi) Use of glass may be reduced by up-to 40% to reduce the electricity consumption and load on air-conditioning. If necessary, use high quality double glass with special reflective coating in windows.
- (xxxvii) Regular supervision of the above and other measures for monitoring should be in place all through the construction phase, so as to avoid disturbance to the surroundings.
- (xxxviii) Under the provisions of Environment (Protection) Act, 1986, legal action shall be initiated against the project proponent if it was found that construction of the project has been started without obtaining environmental clearance.

II. Operation Phase

- (i) 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.
- (ii) The treated wastewater of 71.30 KLD shall be recycled and reused for flushing (48.30 KLD) and gardening (23 KLD) to reduce the demand of fresh water as committed.
- (iii) Solid waste management shall be collected, treated disposed in accordance with the Municipal Solid Waste (Management & Handling)



Rules, 2000. No municipal waste should be disposed off outside the premises.

- (iv) The Operation and Maintenance of STP shall be made in the MoU with STP supplier. Project Proponent shall ensure regular operation and maintenance of the STP.
- (v) Parking facility with 6 m clear driveway shall be provided as committed.
- (vi) The Project Proponent shall explore the possibilities of reusing the treated wastewater from nearby projects.
- (vii) 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 Ministry before the project is commissioned for operation. Treated affluent 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 affluent shall conform to the norms and standards of the State Pollution Control Board. Necessary measures should be made to mitigate the odour problem from STP.
- (viii) The solid waste generated should be properly collected and segregated. Wet garbage should be composted and dry/ inert solid waste should be disposed off to the approved sites for land filling after recovering recyclable material.
- (ix) Diesel power generating sets proposed as source of back-up power for elevators and common area illumination 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. Use low sulphur diesel. The location of the DG sets may be decided with in consultation with State Pollution Control Board.
- (x) Noise should be controlled to ensure that it does not exceed the prescribed standards. During night time the noise levels measured at the boundary of the building shall be restricted to the permissible levels to comply with the prevalent regulations.
- (xi) The green belt of the adequate width and density preferably with local species along the periphery of the plot shall be raised so as to provide protection against particulates and noise.
- (xii) Rain water harvesting for roof run- off and surface run- off, as plan submitted should be implemented. Before recharging the surface run off, pre-treatment must be done to remove suspended matter, oil and grease. The borewell for rainwater recharging should be kept at least 5 mts. above the highest ground water table.
- (xiii) Energy conservation measures like installation of CFLs/TFLs for the lighting the areas outside the building should be integral part of the project design and should be in place before project commissioning. Use CFLs and TFLs should be properly collected and disposed off/sent for

authority to avoid mercury contamination. Use of solar panels may be done to the extent possible.

PART - B. GENERAL CONDITIONS

- (i) A copy of the environmental clearance letter shall also be displayed on the website of the concerned State Pollution Control Board. The EC letter shall also be displayed at the Regional Office, District Industries centre and Collector's Office/ Tehsildar's office for 30 days.
 - (ii) The funds earmarked for environmental protection measures shall be kept in separate account and shall not be diverted for other purpose. Year-wise expenditure shall be reported to this Ministry and its concerned Regional Office.
4. Officials from the Regional Office of MoEF&CC, Bangalore who would be monitoring the implementation of environmental safeguards should be given full cooperation, facilities and documents/data by the project proponents during their inspection. A complete set of all the documents submitted to MoEF&CC should be forwarded to the CCF, Regional office of MoEF&CC, Bangalore.
 5. In the case of any change(s) in the scope of the project, the project would require a fresh appraisal by this Ministry.
 6. The Ministry reserves the right to add additional safeguard measures subsequently, if found necessary, and to take action including revoking of the environment clearance under the provisions of the Environmental (Protection) Act, 1986, to ensure effective implementation of the suggested safeguard measures in a time bound and satisfactory manner.
 7. All other statutory clearances such as the approvals for storage of diesel from Chief Controller of Explosives, Fire Department, Civil Aviation Department, Forest Conservation Act, 1980 and Wildlife (Protection) Act, 1972 etc. shall be obtained, as applicable by project proponents from the respective competent authorities.
 8. These stipulations would be enforced among others under the provisions of Water (Prevention and Control of Pollution) Act, 1974, the Air (Prevention and control of Pollution) act 1981, the Environment (Protection) Act, 1986, the Public Liability (Insurance) Act, 1991 and EIA Notification, 2006.
 9. The project proponent should advertise in at least two local Newspapers widely circulated in the region, one of which shall be in the vernacular language informing that the project has been accorded Environmental Clearance and copies of clearance letters are available with the State Pollution Control Board and may also be seen on the website of the Ministry of Environment, Forests & Climate Change at <http://www.envfor.nic.in>. The advertisement should be made within Seven days from the date of receipt of the Clearance letter and a copy of the same should be forwarded to the Regional Office of this Ministry at Bangalore.
 10. This Clearance is subject to final order of the Hon'ble Supreme Court of India in the matter of Goa Foundation v/s. Union of India in Writ Petition (Civil) No.460 of 2004 as may be applicable to this project.

EC_Indoroyal Properties



Page 7 of 8

11. Any appeal against this clearance 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.

12. A copy of the clearance letter shall be sent by the proponent to concerned Panchayat, Zilla Parishad/Municipal Corporation, Urban Local Body and the Local NGO, if any, from whom suggestions/ representations, if any, were received while processing the proposal. The clearance letter shall also be put on the website of the company by the proponent.

13. 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&CC, the respective Zonal Office of CPCB and the SPCB. The criteria pollutant levels namely; SPM, RSPM, SO₂, NO_x (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the project shall be monitored and displayed at a convenient location near the main gate of the company in the public domain.

14. The environmental statement for each financial year ending 31st 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 along with the status of compliance of EC conditions and shall also be sent to the respective Regional Offices of MoEF&CC by e-mail.

Yours faithfully,



(Dr. R. Warriér)
Director

Copy to:

- 1) The Secretary, Department of Environment, Government of Kerala, Thiruvananthapuram.
- 2) The Chairman, Central Pollution Control Board, Parivesh Bhawan, CBD-cum-Office Complex, East Arjun Nagar, Delhi-110 032.
- 3) The Member Secretary, Kerala State Pollution Control Board, Palamoodu Junction, Pattom Place, P.O. Thiruvananthapuram - 695 004.
- 4) Additional Principal Chief Conservator of Forests (C), Ministry of Environment, Forests and Climate Change, Regional Office (SZ), Kendriya Sadan, 4th Floor, E&F Wing, 17th Main Road, Koramangala II Block, Bangalore - 560034.
- 5) IA - Division, Monitoring Cell, MoEF, New Delhi - 110003.
- 6) Guard file.



(Dr. R. Warriér)
Director

EC Order

Annexure No.2



KERALA STATE POLLUTION CONTROL BOARD

FILE NO. :PCB/HO/TVM/ICE/12487/2009

Date of issue :08/01/2020

INTEGRATED CONSENT TO ESTABLISH - RENEWAL

Consent No : PCB/HO/TVM/ICE-R/01/2020

Ref : PCB/HO/TVM/ICE-R/12/2015 VALID UP TO 30/11/2018.

The 'Integrated Consent to Establish' issued as per reference above to M/s THE UPTOWN By INDROYAL, MULAVANA JUNCTION, THIRUVANANTHAPURAM, is hereby renewed up to 30/11/2023 and issued to M/s THE UPTOWN By INDROYAL, MULAVANA JUNCTION, THIRUVANANTHAPURAM. The consent(s)/ variation order(s) cited under reference are integral part of this renewal order and this order is subject to the conditions stipulated therein and the following modifications/ additions.

I. GENERAL

| S.No. | Items | Description |
|-------|---------------------|---|
| 1 | VALIDITY | 30/11/2023 |
| 2 | FEE REMITTED | Rs.14,65,084/- |
| 3 | CAPITAL INVESTMENT | Rs.7641.76 Lakhs |
| 4 | ANNUAL FEE | Rs.239000/- |
| 5 | Water consumption | 129 KLD |
| 6 | Effluent generation | 103 KLD |
| 7 | Activity | Construction of residential complex with 172 apartments |
| 8 | Category | Red |

II. Stack Details

| Stack No. | Source of Emission | Emission Rate(Nm3/Hr) | Stack Height above | | Control Equipment |
|----------------------------------|--------------------|-----------------------|--------------------|------------|-------------------|
| | | | Ground Level | Roof Level | |
| No change from previous consent. | | | | | |

III. CONDITIONS

1. At the end of the validity period if the construction is in progress, the same shall be got renewed.
2. The applicant shall comply with the instructions that the Board may issue from time to time regarding the prevention and control of air, water, land and sound pollution.
3. The date of commissioning shall be intimated, at least one month in advance, to the District Office of the Board.
4. Consent to Operate / Authorisation shall be obtained, before commissioning , under the Water (Prevention and Control of Pollution) Act 1974, the Air (Prevention and Control of Pollution) Act 1981 and the relevant Rules under Environment (Protection) Act 1986
5. Further expansion of the apartment shall only be done with prior statutory approval from the KSPCB".

All other conditions of the Integrated Consent to Establish issued as per reference above remain unchanged.

SREEKALA S

Digitally signed by SREEKALA S
Date: 2020.01.22 11:08:39 +05'30'

DATE :08/01/2020

SIGNATURE & SEAL OF ISSUING AUTHORITY
MEMBER SECRETARY

**To**

J SUGATHAN
MANAGING DIRECTOR
INDROYAL PROPERTY DEVELOPERS (P) LTD. ROYAL PLAZA,
PATTOM,
THIRUVANANTHAPURAM

Page2

CTE from KSPCB

Annexure No.3

Office of the District Fire Officer,
Fire and Rescue Services,
Fire Force Junction,
Thiruvananthapuram,
Pin:695001,
Ph: 0471 2333109
Email:adotvm.frs@kerala.gov.in
16-10-2024

DFOTVM/3072/2024-G.

NO OBJECTION CERTIFICATE
(RENEWAL)

The Board headed by the Station Officer, Fire & Rescue Station, Thiruvananthapuram has inspected 13F(G+12) Storied 42.4 meters height Residential Building in Survey No . 2413/B1 , 2414/1 , 2415, 2413/B, 2413/A , 2414 at Vanchiyoor village in Thiruvananthapuram District under Thiruvananthapuram Corporation owned by Sri.J.Sugathan (MD. Indroyal Properties Pvt.Ltd) . The Uptown By Indroyal , Mulavana Jn , PMG - Kannammoola Road , Vanchiyoor.P.O , Trivandrum - 695035 and recommended to renew the No Objection Certificate No. FRS/01/TVM/19070/2023/FINAL , Dated: 10/10/2023 of the Director General, Fire & Rescue Services ,Thiruvananthapuram for the occupation of the said building as per report No.FRSTVM/1550//2024-C. Dated: 09/10/2024 of the Station Officer, Fire & Rescue Station, Thiruvananthapuram for one year.

2. In the circumstances, this No Objection Certificate is issued under my seal and authority for the continued occupation of the above building. No further construction will be allowed in the vacant spaces provided in the approved plan.

3. This certificate is issued on the condition that the fire fighting system installed will be kept always functional and the owner of the building should take special care to maintain the systems installed in proper working condition. This certificate is valid for one year from the date of issue. After one year the certificate must be renewed. Non renewal of the certificate within the time limit will result in the loss of eligibility for insurance coverage and appropriate legal action by the Local Self Government/Revenue Department. All Officers of and above the rank of Station Officers of the Fire & Rescue Services Department will have the right to inspect the building on any day/time after serving 7 days notice to ensure that the installed systems are in good working condition.



DISTRICT FIRE OFFICER

Signed by
Sooraj S

Date: 16-10-2024 16:34:39

Fire NOC

Annexure No.4



CORPORATION OF THIRUVANANTHAPURAM

File No. G11/6.0.068/23

APPENDIX 'H'

[Sec Rule 22(3) and 142(2)]

OCCUPANCY CERTIFICATE
OR
USE CERTIFICATE

A1 Residential

Certified that the construction or ~~reconstruction or alteration or addition~~ of building or ~~erection of telecommunication tower or pole structure or work~~ under the permit No. G11/BA/56561 dated 29.11.23 issued to J. Sugathan M.D. Indroyal and supervised by Keshy Mathew has been inspected by me and that the work executed is in accordance with the permit and the building /tower or pole structure is now fit for occupation/use.

Date of Completion 18.8.23

Plinth area Separately attached

Signature

Corporation Office,
ThiruvananthapuramB. N. S. S. S.
Town Planning Officer
Local Municipal Corporation
Thiruvananthapuram

Glmk-2502-22

Ccupancy Certificate

Annexure No. 5

No. GW/DOT/867/2014

Dated: 11/12/2014

GROUND WATER DEPARTMENT
DISTRICT OFFICE, THIRUVANANTHAPURAMWELL COMPLETION REPORT

1. Name of Site/Location : Introyal Property Developers Pvt.
Address : Royal, Plaza, Pattom. Ltd.
2. Period of work :
3. Whether Govt/Pvt/Quasi Govt/LSGD :
4. Name of Grama Panchayath : Tvpm Corporation
5. Name of Taluk/Block :
6. Name of L.A. Constituency :
7. Total depth drilled : 103 m.
8. Overburden drilled : 17.5 m.
9. Casing pipe used details. Ø 200 mm : 18 m.
10. Inner casing pipe used details. Ø110 mm : supplied by district office
110 mm, 4 kg/cm² : 105m
11. Diameter of bore well : supplied by district office
165 mm
12. Discharge/Yield (in lph) : 4000 lph
13. Water bearing zones (in m) : 20, 40
14. Static Water Level (mbgl) :
15. End cap dia : 200 mm
supplied by district office
16. Total cost of well :
17. Refund if any disbursed to the party) (Order No. :
18. If work carried out by Dept./Name of drilling unit) JCR



DISTRICT OFFICER

DIST OFFICER
Ground Water Dept
Jalavijnana Bhavan, Kowdiar P.O.
THIRUVANANTHAPURAM-695001

NO.GW/DOT/867/2014

| FINAL BILL | | |
|------------|--|---|
| 1 | Name of site | Introyal Property Developers Pvt. Ltd. Royal, Plaza, Pattom |
| 2 | Period of work | 03/12/14 to 10/12/14. |
| 3 | Address | Introyal Property Developers Pvt. Ltd. Royal, Plaza, Pattom. Thiruvananthapuram . |
| 4 | Diameter of bore well | 6 ½ " |
| 5 | Total depth drilled | 103 m. |
| 6 | Over Burden drilled | 17.5 m. |
| 7 | Casing pipe used 200 mm 110 mm | 18 m. 105 m |
| 8 | Drilling charge @ Rs.600 /m for 103 m. | Rs.61,800/- |
| 9 | 200 mm PVC pipe (8kg/cm2) @ Rs.1000/m. for 18m. 110 mm PVC pipe (4kg/cm2) @ Rs.200/m. For 105m. | Rs.18,000/- Rs.21,000/- |
| | End cap 1 No. | Rs.350/- |
| 9 | Total construction charge of the bore well | Rs.1,01,150/- |
| 10 | Amount remitted by party | D.D. No.201730 dated : 27/10/2014.for Rs.1,13,350/- |
| 11 | Balance amount due to party. | Rs.12,200/-(Rupees Twelve thousand and two hundred only) |



DISTRICT OFFICER

DIST OFFICER
Ground Water Dept
Jalavihara Bhavan, Kowdiar, P.O.
Thiruvananthapuram-695004

Bore well Report

AnnexureNo.6



भारतीय विमानपत्तन प्राधिकरण
AIRPORTS AUTHORITY OF INDIA

J. Sujathan

Date: 09-03-2020

Managing Director, Indroyal Properties Pvt.
Ltd., Royal Plaza Pattom,
Thiruvananthapuram.

Valid Upto: 07-03-2028

No Objection Certificate for Height Clearance

1. This NOC is issued by Airports Authority of India (AAI) in pursuance of responsibility conferred by and as per the provisions of Govt. of India (Ministry of Civil Aviation) order GSR751 (E) dated 30th Sep. 2015 for Safe and Regular Aircraft Operations.
2. This office has no objection to the construction of the proposed structure as per the following details:

| | |
|--|--|
| NOC ID : | THIR/SOUTH/B/021020/449763 |
| Applicant Name* | Bhuvanesh B 9995378871 , 9495476086 |
| Site Address* | Located Near Mulavana Survey No- 2413/B1, 2414/1, 2415, 2413/B, 2413/A, 2414 Vanchiyoor Village Thiruvananthapuram Taluk Thiruvananthapuram District, Thiruvananthapuram /Vanchiyoor /Mulavana, Thiruvananthapuram, Kerala |
| Site Coordinates* | 8 30 16.76N 76 56 12.20E, 8 30 17.81N 76 56 12.27E, 8 30 16.03N 76 56 13.73E, 8 30 18.22N 76 56 13.76E, 8 30 17.45N 76 56 15.69E, 8 30 19.97N 76 56 15.69E, 8 30 16.22N 76 56 15.82E, 8 30 18.82N 76 56 16.37E |
| Site Elevation in mtrs AMSL as submitted by Applicant* | 12.61 M |
| Permissible Top Elevation in mtrs Above Mean Sea Level(AMSL) | 50.2 M (Restricted) |

*As provided by applicant

3. This NOC is subject to the terms and conditions as given below:

- a. Permissible Top elevation has been issued on the basis of Site coordinates and Site Elevation submitted by Applicant. AAI neither owns the responsibility nor authenticates the correctness of the site coordinates & site elevation provided by the applicant. If at any stage it is established that the actual data is different, this NOC will stand null and void and action will be taken as per law. The office in-charge of the concerned aerodrome may initiate action under the Aircraft (Demolition of Obstruction caused by Buildings and Trees etc.) Rules, 1994"
- b. The Site coordinates as provided by the applicant in the NOC application has been plotted on the street view map and satellite map as shown in ANNEXURE. Applicant/Owner to ensure that the plotted coordinates corresponds to his/her site. In case of any discrepancy, Designated Officer shall be requested for cancellation of the NOC.
- c. Airport operator or his designated representative may visit the site (with prior coordination with applicant or owner) to ensure that NOC terms & conditions are complied with.
- d. The Structure height (including any superstructure) shall be calculated by subtracting the Site elevation in AMSL from the Permissible Top Elevation in AMSL i.e. Maximum Structure Height = Permissible Top Elevation minus (-) Site Elevation.
- e. The issue of the 'NOC' is further subject to the provisions of Section 9-A of the Indian Aircraft Act, 1934 and any notifications issued there under from time to time including the Aircraft (Demolition of Obstruction caused by Buildings and Trees etc.) Rules, 1994.

क्षेत्रीय मुख्यालय दक्षिणी क्षेत्र भा.वि.प्रा. परिचालन कार्यालय परिसर, चेन्नई हवाई अड्डा, चेन्नई - 600 027
दूरभाष संख्या : 44-2256 1234

Regional headquarter Southern Region, AAI Operational Offices Complex, Chennai Airport, Chennai 600 027
Tel. No: 44-2256 1234



भारतीय विमानपत्तन प्राधिकरण AIRPORTS AUTHORITY OF INDIA

f. No radio/TV Antenna, lighting arresters, staircase, Muntree, Overhead water tank and attachments of fixtures of any kind shall project above the Permissible Top Elevation of 50.2 M (Restricted) (AMSL), as indicated in para 2.

g. Use of oil, electric or any other fuel which does not create smoke hazard for flight operations is obligatory, within 8 KM of the Aerodrome Reference Point.

h. The certificate is valid for a period of 8 years from the date of its issue. One time revalidation without assessment may be allowed, provided construction work has commenced, subject to the condition that such request shall be made within the validity period of the NOC and the delay is due to circumstances which are beyond the control of the developer.

i. No light or a combination of lights which by reason of its intensity, configuration or colour may cause confusion with the aeronautical ground lights of the Airport shall be installed at the site at any time, during or after the construction of the building. No activity shall be allowed which may affect the safe operations of flights

j. The applicant will not complain/claim compensation against aircraft noise, vibrations, damages etc. caused by aircraft operations at or in the vicinity of the airport.

k. Day markings & night lighting with secondary power supply shall be provided as per the guidelines specified in chapter 6 and appendix 6 of Civil Aviation Requirement Series B Part I Section 4, available on DGCA India website: www.dgca.nic.in

l. The applicant is responsible to obtain all other statutory clearances from the concerned authorities including the approval of building plans. This NOC for height clearances is to ensure the safe and regular aircraft operations and shall not be used as document for any other purpose/claim whatsoever, including ownership of land etc.

m. This NOCID has been assessed w.r.t Thiruvananthapuram Airport(s). NOC has been issued w.r.t. the AAI aerodromes and other licensed civil aerodromes as listed in Schedule-III, Schedule-IV(Part-1), Schedule-IV(Part-2;RCS Airports Only) and Schedule-VII of GSR751(E).

n. Applicant needs to seek separate NOC from Defence, if the site lies within the jurisdiction of Defence Aerodromes as listed in Schedule-V of GSR751(E). As per Rule 13 of GSR751(E), applicants also need to seek NOC from the concerned State Govt. for sites which lies in the jurisdiction of unlicensed aerodromes as listed in Schedule-IV (Part-2: other than RCS airports) of GSR751(E).

o. In case of any discrepancy/interpretation of NOC letter, English version shall be valid.

p. In case of any dispute w.r.t site elevation and/or AGL height, top elevation in AMSL shall prevail.

Chairman NOC Committee

Region Name: SOUTH

Address: General Manager Airports Authority of
India, Regional Headquarter, Southern
Region, Chennai Airport,
Chennai-600027 (Tamil Nadu)

Email ID: vomm.noc@aai.aero

Contact No: 044-22560046

Digitally signed by R SRIDHAR
Date: 2020.03.09 17:46:18 +05'30'

| Name / Designation / Sign with Date | |
|-------------------------------------|---|
| Prepared By : | Digitally signed by K S RAGUNATHAN Date: 2020.03.09 17:26:48 +05'30' |
| Verified By : | Digitally signed by M K PRASANNA KUMAR Date: 2020.03.09 17:38:04 +05'30' |

क्षेत्रीय मुख्यालय दक्षिणी क्षेत्र भा.वि.प्रा. परिचालन कार्यालय परिसर, चेन्नई हवाईअड्डा, चेन्नई - 600 027
दूरभाष संख्या : 44-2256 1234

Regional headquarter Southern Region, AAI Operational Offices Complex, Chennai Airport, Chennai 600 027
Tel. No: 44-2256 1234

Height clearance from Airport Authority

Annexure No.

**TEST REPORT**

| | | |
|-------------------------------------|------------------|-------------|
| ULR No.: TC1293925000006865F | | |
| LRI No.: SEAAL25033026A | Date: 29-03-2025 | Page 1 of 2 |

| CUSTOMER DETAILS | |
|-------------------------|--|
| Customer Name & Address | M/s Indroyal Property Developers Pvt Ltd T.C.2/2465(5,6) M.G Road,Royal Plaza,Pattom Thiruvananthapuram District. |
| Customer Reference | Test Request Date: 24-03-2025 |

| SAMPLE DETAILS | | | |
|------------------------------|------------------------|--------------------|------------|
| Product Category | Atmospheric Pollution | Sample Code | EN25031642 |
| Sample Name | Ambient Air | Sample Received on | 25-03-2025 |
| Sample Conditions at Receipt | Fit for Analysis | Test Commenced on | 26-03-2025 |
| Sampled by | Lab Authorized Sampler | Test Completed on | 28-03-2025 |

| DETAILS OF SAMPLING | | | |
|---------------------|----------------------|------------------|------------|
| Sampling Location | Project Site | Date of Sampling | 24-03-2025 |
| Sampling Procedure | SEAAL/CHL/SOP/7.3/02 | Humidity | 68 % |

| SAMPLING SITE DETAILS | | | |
|-----------------------|--|-------|-----------|
| Survey No. | 2413/B1,2414/1,2415,2413/B,2413/A,2414 | | |
| Village | Thiruvananthapuram | Taluk | Vanchiyur |
| District | Thiruvananthapuram | 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 | 60.1 | 100 (Max) |
| 2 | Particulate matter PM _{2.5} | IS 5182 (Part 24): 2019 | µg/m ³ | 27.8 | 60.0 (Max) |


Shency Joy
TM - Chemical
 Checked by




Ramar R.
Technical Head
 Authorized Signatory

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Standards Environmental & Analytical Laboratories
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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

**TEST REPORT**

| | | |
|------------------------------------|------------------|-------------|
| ULR No.: TC129392500006865F | | |
| LRI No.: SEAAL25033026A | Date: 29-03-2025 | Page 2 of 2 |

| TEST RESULTS-CHEMICAL DISCIPLINE | | | | | |
|----------------------------------|---------------------------------------|-------------------------|-------------------|--------|---------------|
| SL NO | PARAMETERS | TEST METHOD | UNIT | RESULT | NAAQ STANDARD |
| 3 | Sulphur dioxide as SO ₂ | IS 5182 (Part 2): 2001 | µg/m ³ | 4.25 | 80.0 (Max) |
| 4 | Oxides of nitrogen as NO ₂ | IS 5182 (Part 6): 2006 | µg/m ³ | 4.82 | 80.0 (Max) |
| 5 | Carbon monoxide as CO | IS 5182 (Part 10): 1999 | mg/m ³ | <0.10 | 4 (Max) |

End of Report

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

Result of Air

Annexure No.

**TEST REPORT**

| | | |
|-----------------------------------|------------------|-------------|
| ULR No: TC129392500006866F | | |
| LRI No.: SEAL25033027A | Date: 29-03-2025 | Page 1 of 2 |

CUSTOMER DETAILS

| | |
|-------------------------|--|
| Customer Name & Address | M/s Indroyal Property Developers Pvt Ltd T.C.2/2465(5,6) M.G Road,Royal Plaza,Pattom Thiruvananthapuram District. |
| Customer Reference | Test Request Date: 24-03-2025 |

DETAILS OF MONITORING

| | | | |
|---------------------|-----------------------|-------------------------|------------------------|
| Product Category | Atmospheric Pollution | Sample Code | EN25031643 |
| Sample Name | Ambient Noise | Monitoring Commenced on | 24-03-2025 |
| Test Method | IS 9989:1981 | Monitoring Completed on | 25-03-2025 |
| Monitoring Location | Project Site | Monitored by | Lab Authorized Sampler |

SAMPLING SITE DETAILS

| | | | |
|------------|--|-------|-----------|
| Survey No. | 2413/B1,2414/1,2415,2413/B,2413/A,2414 | | |
| Village | Thiruvananthapuram | Taluk | Vanchiyur |
| District | Thiruvananthapuram | State | Kerala |

MONITORING RESULTS - Leq

| TIME | RESULTS dB(A) | TIME | RESULTS dB(A) | TIME | RESULTS dB(A) |
|-------|---------------|-------|---------------|-------|---------------|
| 06:00 | 39.1 | 14:00 | 52.4 | 22:00 | 37.9 |
| 07:00 | 41.9 | 15:00 | 52.8 | 23:00 | 37.4 |
| 08:00 | 46.3 | 16:00 | 54.0 | 24:00 | 40.1 |
| 09:00 | 50.0 | 17:00 | 54.4 | 01:00 | 40.9 |
| 10:00 | 52.4 | 18:00 | 48.8 | 02:00 | 40.5 |
| 11:00 | 55.6 | 19:00 | 45.1 | 03:00 | 41.3 |
| 12:00 | 52.8 | 20:00 | 41.1 | 04:00 | 40.1 |
| 13:00 | 52.0 | 21:00 | 40.6 | 05:00 | 42.1 |


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: TC1293925000006866F | | |
| LRI No.: SEAAL25033027A | Date: 29-03-2025 | Page 2 of 2 |

| Sl. No. | PARAMETERS | UNIT | RESULT |
|---------|--------------------------------------|-------|--------|
| 1 | Ambient Sound Level (Leq) Day Time | dB(A) | 50.9 |
| 2 | Ambient Sound Level (Leq) Night Time | dB(A) | 40.6 |

Remarks:

End of Report



Shency Joy
TM - Chemical
 Checked by



Ramar R.
Technical Head
 Authorized Signatory

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Result of Noise

Annexure

**TEST REPORT****ULR No: TC129392500006863F**

LRI No.: SEAAL25033024A

Date: 29-03-2025

Page 1 of 2

CUSTOMER DETAILS

| | |
|-------------------------|--|
| Customer Name & Address | M/s Indroyal Property Developers Pvt Ltd T.C.2/2465(5,6) M.G Road,Royal Plaza,Pattom Thiruvananthapuram District. |
| Customer Reference | Test Request Date: 24-03-2025 |

SAMPLE DETAILS

| | | | |
|----------------------------------|----------------------------------|-----------------------|------------------------|
| Product Category | Water | Sample Code | WT25030922 |
| Sample Name | Ground Water | Sample Received on | 25-03-2025 |
| Sample Description by Customer | Bore Well Water | Temperature @ Receipt | 4°C |
| Sample Conditions at Receipt | Fit for Analysis | Test Commenced on | 26-03-2025 |
| Sample Quantity & Packing | 2 L & 125 ml in a Plastic Bottle | Test Completed on | 28-03-2025 |
| Information Provided by Customer | --- | Sampled by | Lab Authorized Sampler |

DETAILS OF SAMPLING

| | | | |
|--------------------|----------------------|--------------------|------------|
| Sample Source | Project Sites | Date of Sampling | 24-03-2025 |
| Sampling Procedure | SEAAL/QAD/SOP/7.3/01 | Sample Temperature | 27 °C |

SAMPLING SITE DETAILS

| | | | |
|------------|--|-------|-----------|
| Survey No. | 2413/B1,2414/1,2415,2413/B,2413/A,2414 | | |
| Village | Thiruvananthapuram | Taluk | Vanchiyur |
| District | Thiruvananthapuram | 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 |

Shency Joy
TM - Chemical
Checked by



Remya B.
TM-Biological
Authorized Signatory

Ramar R.
Technical Head
Authorized Signatory

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**TEST REPORT****ULR No: TC1293925000006863F**

LRI No.: SEAAL25033024A

Date: 29-03-2025

Page 2 of 2

TEST RESULTS – CHEMICAL DISCIPLINE

| Sl. No. | PARAMETERS | TEST METHOD | UNIT | RESULT | Requirement as per Acceptable Limit of IS 10500: 2012 |
|---------|---------------------------------------|-------------------------------|-------|--------|---|
| 3 | Turbidity | IS 3025 (Part 10): 2023 | NTU | 0.90 | 1.0 (Max) |
| 4 | pH | IS 3025 (Part 11): 2022 | --- | 6.81 | 6.50–8.50 |
| 5 | Conductivity | IS 3025 (Part 14): 2013 | μS/cm | 162 | --- |
| 6 | Total Dissolved Solids | IS 3025 (Part 16): 2023 | mg/L | 105 | 500 (Max) |
| 7 | Total Hardness as CaCO ₃ | IS 3025 (Part 21): 2009 | mg/L | 44.9 | 200 (Max) |
| 8 | Calcium as Ca | IS 3025 (Part 40): 1991 | mg/L | 12.0 | 75 (Max) |
| 9 | Magnesium as Mg | IS 3025 (Part 46): 2023 | mg/L | 3.48 | 30 (Max) |
| 10 | Chloride as Cl | IS 3025 (Part 32): 1988 | mg/L | 28.0 | 250 (Max) |
| 11 | Total Alkalinity as CaCO ₃ | IS 3025 (Part 23): 2023 | mg/L | 30.0 | 200 (Max) |
| 12 | Iron as Fe | IS 3025 (Part 53): 2003 | mg/L | 0.48 | 1 (Max) |
| 13 | Sulphate as SO ₄ | IS 3025 (Part 24/Sec 1): 2022 | mg/L | 4.88 | 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: seaalab@gmail.com

Result of Bore Well water

**TEST REPORT**

| | | |
|------------------------------------|------------------|-------------|
| ULR No: TC1293925000006864F | | |
| LRI No.: SEAL25033025A | Date: 29-03-2025 | Page 1 of 2 |

CUSTOMER DETAILS

| | |
|-------------------------|--|
| Customer Name & Address | M/s Indroyal Property Developers Pvt Ltd T.C.2/2465(5,6) M.G Road,Royal Plaza,Pattom Thiruvananthapuram District. |
| Customer Reference | Test Request Date: 24-03-2025 |

SAMPLE DETAILS

| | | | |
|----------------------------------|----------------------------------|-----------------------|------------------------|
| Product Category | Water | Sample Code | WT25030923 |
| Sample Name | Water | Sample Received on | 25-03-2025 |
| Sample Description by Customer | KWA Water | Temperature @ Receipt | 4°C |
| Sample Conditions at Receipt | Fit for Analysis | Test Commenced on | 26-03-2025 |
| Sample Quantity & Packing | 2 L & 125 ml in a Plastic Bottle | Test Completed on | 28-03-2025 |
| Information Provided by Customer | --- | Sampled by | Lab Authorized Sampler |

DETAILS OF SAMPLING


| | | | |
|--------------------|----------------------|--------------------|------------|
| Sample Source | Project Sites | Date of Sampling | 24-03-2025 |
| Sampling Procedure | SEAAL/QAD/SOP/7.3/01 | Sample Temperature | 27 °C |

SAMPLING SITE DETAILS

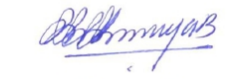
| | | | |
|------------|--|-------|-----------|
| Survey No. | 2413/B1,2414/1,2415,2413/B,2413/A,2414 | | |
| Village | Thiruvananthapuram | Tahuk | Vanchiyur |
| District | Thiruvananthapuram | State | Kerala |

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 |


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: TC1293925000006864F**

LRI No.: SEAAL25033025A

Date: 29-03-2025

Page 2 of 2

TEST RESULTS – CHEMICAL DISCIPLINE

| Sl. No. | PARAMETERS | TEST METHOD | UNIT | RESULT | Requirement as per Acceptable Limit of IS 10500: 2012 |
|---------|---------------------------------------|-------------------------------|-------|--------|---|
| 3 | Turbidity | IS 3025 (Part 10): 2023 | NTU | <0.10 | 1.0 (Max) |
| 4 | pH | IS 3025 (Part 11): 2022 | --- | 6.95 | 6.50–8.50 |
| 5 | Conductivity | IS 3025 (Part 14): 2013 | µS/cm | 55.0 | --- |
| 6 | Total Dissolved Solids | IS 3025 (Part 16): 2023 | mg/L | 35.6 | 500 (Max) |
| 7 | Total Hardness as CaCO ₃ | IS 3025 (Part 21): 2009 | mg/L | 14.0 | 200 (Max) |
| 8 | Calcium as Ca | IS 3025 (Part 40): 1991 | mg/L | 4.00 | 75 (Max) |
| 9 | Magnesium as Mg | IS 3025 (Part 46): 2023 | mg/L | <1.00 | 30 (Max) |
| 10 | Chloride as Cl | IS 3025 (Part 32): 1988 | mg/L | 8.00 | 250 (Max) |
| 11 | Total Alkalinity as CaCO ₃ | IS 3025 (Part 23): 2023 | mg/L | 6.00 | 200 (Max) |
| 12 | Iron as Fe | IS 3025 (Part 53): 2003 | mg/L | <0.10 | 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

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

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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 KWA water

AnnexureNo.10

**TEST REPORT**

| | | |
|-----------------------------------|------------------|-------------|
| ULR No: TC129392500006867F | | |
| LRI No.: SEAAL25033028A | Date: 29-03-2025 | Page 1 of 2 |

CUSTOMER DETAILS

| | |
|-------------------------|--|
| Customer Name & Address | M/s Indroyal Property Developers Pvt Ltd T.C.2/2465(5,6) M.G Road,Royal Plaza,Pattom Thiruvananthapuram District. |
| Customer Reference | Test Request Date: 24-03-2025 |

SAMPLE DETAILS

| | | | |
|------------------------------|------------------------|--------------------|------------|
| Product Category | Atmospheric Pollution | Sample Code | EN25031644 |
| Sample Name | Stack Emission | Sample Received on | 25-03-2025 |
| Sample Conditions at Receipt | Fit for Analysis | Test Commenced on | 26-03-2025 |
| Sampled by | Lab Authorized Sampler | Test Completed on | 28-03-2025 |

DETAILS OF SAMPLING


| | | | |
|----------------|----------------|--------------------|----------------------|
| Stack Identity | 160 KVA DG Set | Date of Sampling | 24-03-2025 |
| Stack Diameter | 0.15 m | Sampling Procedure | SEAAL/CHL/SOP/7.3/04 |

INFORMATION PROVIDED BY CUSTOMER-SAMPLING SITE DETAILS

| | | | |
|------------|--|-------|-----------|
| Survey No. | 2413/B1,2414/1,2415,2413/B,2413/A,2414 | | |
| Village | Thiruvananthapuram | Taluk | Vanchiyur |
| District | Thiruvananthapuram | State | Kerala |

TEST RESULTS-CHEMICAL DISCIPLINE

| Sl. No. | PARAMETERS | TEST METHOD | UNIT | RESULT | CPCB LIMIT |
|---------|-------------------------|-------------------------|-------|--------|------------|
| 1 | Temperature of Emission | IS 11255 (Part 3): 2008 | °C | 145 | --- |
| 2 | Velocity of Emission | IS 11255 (Part 3): 2008 | m/sec | 5.94 | --- |


Shency Joy
 TM - Chemical
 Checked by




Ramar R.
 Technical Head
 Authorized Signatory

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**TEST REPORT****ULR No: TC1293925000006867F**

LRI No.: SEAAL25033028A

Date: 29-03-2025

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TEST RESULTS-CHEMICAL DISCIPLINE

| Sl. No. | PARAMETERS | TEST METHOD | UNIT | RESULT | CPCB LIMIT |
|---------|---------------------------------------|-------------------------|---------------------|--------|------------------------------|
| 3 | Volume of Gas Discharged | IS 11255 (Part 3): 2008 | Nm ³ /Hr | 269 | --- |
| 4 | Particulate Matter | IS 11255 (Part 1): 1985 | mg/Nm ³ | 26.7 | <95 |
| 5 | Sulphur dioxide as SO ₂ | IS 11255 (Part 2): 1985 | mg/Nm ³ | 5.76 | --- |
| 6 | Oxides of Nitrogen as NO _x | IS 11255 (Part 7): 2005 | mg/Nm ³ | 10.89 | NO _x +HC <1903 |

Remarks:

End of Report

Shency Joy
TM - Chemical
Checked by



Ramar R.
Technical Head
Authorized Signatory

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Result of Stack emission - D G