



**Dragonstone Realty Private Limited**

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Ref: TIH/DRPL/ZEN/MOEF/CR/005

26<sup>th</sup> April 2022

To  
The Additional Principal Chief Conservator of Forests (C)  
The Ministry of Environment, Forests & Climate Change - Regional Office (Southern Zone)  
4th Floor, E&F Wings Kendriya Sadan, 17th Main Road  
2nd Block, Koramangala, Bangalore – 560 034

Sub: Submission of Six Monthly Condition Wise Compliance Report for the Period from 01/10/2021 to 31/03/2022 in respect to Construction of our Commercial cum Office complex at Technopark Phase – 3 campus in (Non-SEZ) Sy. Nos 290/2(part), 290/3(part) & others, Village Attipara, Taluk & District Thiruvananthapuram, Kerala.

Ref: File No.SIA/KL/MIS/52546/2018, 1202/EC2/2018/SEIAA dated 6<sup>th</sup> March 2021, Environment Clearance No. 17/2021

Dear Sir,

Please find enclosed herewith the point wise compliance of the condition stipulated in the Environment Clearances as mentioned above.

We hope you find the same in order

Thanking you,

Yours faithfully,  
For Dragonstone Realty Pvt Ltd

Authorized Signatory

Encl: as above

## DESCRIPTION

The proposed mixed land use building construction project by M/s Dragonstone Realty Pvt. Ltd. on 3.937 hectares of plot area with 3,49,786 sq m of built-up area consists of Commercial retail area, Multiplex (2,634 seats), Hotel (231 Rooms), Restaurant (350 seats), Banquet hall (500 seats), Office area & Residential area (310 Units) with supporting infrastructure facilities.



COMPLIANCE STATEMENT FOR THE SPECIFIC CONDITIONS GIVEN IN THE MOEF EIA CLEARANCE FOR THE PROPOSED COMMERCIAL CUM OFFICE COMPLEX PROJECT AT TECHNOPARK PHASE-3 CAMPUS IN (NON-SEZ PLOT) SY. NOS. 290/2(PART), 290/3(PART) & OTHERS, VILLAGE ATTIPRA, TALUK & DISTRICT THIRUVANANTHAPURAM, KERALA BY M/S DRAGONSTONE REALTY PRIVATE LIMITED

**File No.SIA/KL/MIS/52546/2018, 1202/EC2/2018/SEIAA Dated 6<sup>th</sup> March 2021**

**Environment clearance no 17/2021**

## Environment Clearance Tracker for Non-SEZ

EC No.17/2021

Validity expires on 05/03/2028

SI No.	Requirements	Compliance
1	Half Yearly Compliance Report (HYCR): HYCR with its contents of a covering letter, compliance report, and environmental monitoring data has to be in PDF format merged into a single document. The email should mention the name of the project, EC No and date, period of submission and to be sent to the Regional Office of MoEF & CC by email only at email ID <a href="mailto:rosz.bng-mefcc@gov.in">rosz.bng-mefcc@gov.in</a>	Compliance Report for a period till Sep 2021 Submitted to SEIAA
2	Notarized Affidavit: The proponent should provide a notarised affidavit indicating the number and date of EC proceedings that all the conditions stipulated the EC shall be scrupulously followed.	Notarized Affidavit submitted to SEIAA Office. Copy of the Affidavit is attached in <b>Annexure 7 – Notarized Affidavit</b>
3	Advertisement: The 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 on the SEIAA website. copy of the advertisement signed in all pages should be forwarded to the office of SEIAA as confirmation.	Ads Published in 4 Newspapers and copies of ads published are submitted to SEIAA  Copy of the advertisement in the newspaper is attached as <b>Annexure 8 – Newspaper advertisement.</b>
4	Copy of Clearance Letter to: The proponent shall send a copy of the clearance letter to the concerned Grama Panchayath/District Panchayath /Municipality/Corporation/Urban Local Body and also to the local NGO. The Environmental Clearance shall also be uploaded on the website of the company.	copy of clearance letter submitted to Corporation Office and received acknowledgment and EC Order is uploaded in company website. Copy of the clearance letter submitted to the corporation office is attached in Annexure 4 EC clearance URL for the Website: <a href="https://downtownvm.com/compliance/">https://downtownvm.com/compliance/</a> <b>Annexure 4 – EC clearance</b>
5	Display of EC Letter: The details of Environmental Clearance should be prominently displayed in a metallic board of 3 ft x 3 ft with green background and yellow letters of Times New Roman font of size of not less than 40.	The project has displayed the details of environmental clearance and conditions at site. Hence complied



6	<p>All other statutory approvals: Consent to Establish and Consent to Operate from Kerala State Pollution Control Board under Water and Air Act(s) should be obtained before initiating activity. All other statutory clearances should be obtained, as applicable, by project proponents from the respective component authorities including that for blasting and storage of explosives. Copies of statutory clearance obtained shall be enclosed along with first half-yearly compliance report.</p>	<p>Necessary clearance/permission for all relevant agencies has been obtained for commencement of work. Please find the attached permits obtained from the relevant authority.</p> <p><b>Annexure 1- Building permit.</b>  <b>Annexure 2- Fire NOC</b>  <b>Annexure 3- Height NOC from AAI</b></p>
7	<p>Corporate Environment Responsibility (CER): The conditions specified in the EIA notifications 2006 and subsequent amendments, the specific directions given by SEIAA/SEAC should be followed under CER. As per OM no F.No.22-65/2017-IA.III dated 30th September 2020, the Project Proponent shall prepare an Environment Management Plan (EMP) as directed by SEAC during appraisal, covering the issues to address the environmental problems in the project region, indicating both physical and financial target yearwise. The EMP shall be implemented in consultation with District Collector. The indicated cost for CER shall be 1% of Project Cost. The activities carried out under CER should be listed with details in half yearly compliance report along with Status of implementation and certificates from the beneficiaries and photographs.</p>	<p>Will be complied CER activities as for Rain Water Harvesting, Waste management, Infrastructure development of retaining walls (wherever required), soft landscaping for the rejuvenation of Thettiyyar shall be implemented.</p>
8	<p>Forming Environment Monitoring Committee : Environment Monitoring Committee as agreed under the affidavit filed by the proponent should be formed and made functional.</p>	<p>The project has developed an environmental management plan to demonstrate compliance with the various environmental conditions as specified in the approval. Also, a dedicated Environment Monitoring Cell has been put in place to implement this EMP. The environmental cell shall ensure that this environmental management plan is closely monitored throughout the project and shall also keep the record of these activities on an ongoing basis on site.</p> <p>The minutes of the Environment Monitoring Cell meetings held between June 2020 is attached as Annexure 12</p> <p><b>Annexure 12 - MOM of environmental monitoring cell</b></p>

9	Planting Trees : Suitable avenue trees should be planted on either side of approach road and internal roads and open parking areas, if any. The proponent should plant trees at least 5 times of the loss of trees that has occurred while clearing the land for the project.	Will be complied, suitable avenue trees will be planted on either side of approach road and internal roads and open parking area for at least 5 times of the trees which is cleared during the land clearing. The project has planned the design of the entire site in a sustainable manner. There are landscaped areas that have been identified right from the initial stage of design and the same will be implemented at the end of the construction period. No existing trees have been felled onsite. In addition, the project is planning to adopt species of landscaping to be native and adaptive species that are drought tolerant and require minimal water and the same shall be implemented onsite post completion of the project
10	Implementation of Environmental Management Plan :The Project Proponent shall implement the activities proposed in the Environmental Management Plan to ensure the Environmental Stability in the project region	Will be complied. The Project Proponent will implement the activities proposed in the Environmental Management Plan to ensure Environmental Stability in the project region
11	Ensure uninterrupted overflow of storm water to the nearby canal	The site is being planned such that the natural drainage system will be maintained to ensure unrestricted flow of water and there is no obstruction to the flow of water. In addition stormwater channels/trenches will be provided throughout the site to ensure that when the stormwater runs off from the site it does not carry away the soil along with it. Please find the attached stormwater drainage layout  <b>Annexure 5 – Stormwater drainage layout</b>
12	Compensatory afforestation/Miyawaki forest as suggested by SEAC shall be developed within first two years of the project if it is not a part of Environmental Management Plan (EMP)	Will be complied. This will be made a part of the landscape design
13	The construction activities shall be carried out as per the approved Building plan observing all rules and regulations under Kerala Municipal Building Rules	Construction activities will be carried out as per the approved building plan with all the regulations under KMBR and provided in the Building Permit received for the project <b>Annexure 1- Building permit.</b>

14	Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, creche etc. The housing may be in the form of temporary structures to be removed after the completion of the project (Circular No.J-11013/41/2006-IA.II (I) of GoI MoEF dt.22.09.2008 and Regulation of Employment and Conditions of Service)Act,1996)	Provision outside the site has been made for the housing of construction workers and all the necessary infrastructure including fuel for cooking, toilets, mobile STP, safe drinking water, medical care, creche, etc. have been provided. Presently as all site works have been suspended there are no laborers in the labor camps as of date.
15	If blasting is involved in the preparation of site, the required clearances from the competent authorities should be obtained.	Will be complied. If blasting is involved in the preparation of the site, project will obtain required clearances from the competent authorities
16	The stipulations/conditions issued by Statutory Authorities under different Acts and Notifications should be complied with, including 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, Solid Waste Management Rules, 2016 Plastic Waste Management and Handling Rules, 2016 Construction and Demolition Waste Management Rules 2016, the Public Liability (Insurance) Act, 1991 and EIA Notification, 2006.	The project is implementing a detailed construction waste management plan in line with these requirements and LEED norms. The project will ensure that all construction debris will be segregated and stored at the site before they are properly recycled/reused and or diverted. The project confirms that the same will not be dumped on the roads or open spaces outside. <b>Annexure 15- Air quality report.</b>
17	Safety measures should be implemented as per the Fire and Safety Regulations /SDMA guidelines	The project follows stringent safety norms. Contractor selection for the works is based on their track record on EHS. The safety manual/s are approved before the Contractor can start work at the site and the Site Safety Manager appointed shall audit and report on adherence to the EHS manual and policy requirements. Copy of company EHS policy is attached. <b>Annexure 9 – EHS policy</b>
18	The environmental safeguards contained in the EIA Report should be implemented in letter and spirit and status of implementation of each one should be included in the half yearly compliance Report	Will be complied. There are no construction activities happened at the site for the last 6 months due to covid 19 pandemic induced lockdown and suspension of construction activities from March 2020.
19	The Project shall incorporate devices for solar energy generation and utilization to the maximum possible extent with the possibility of contributing the same to the power grid and consumption in future.	Grid interacted solar PV system of 683 kW is considered. To be installed during project commissioning

20	The proponent shall submit half yearly compliance reports on the status of compliance of the stipulated EC conditions including results of monitored data (both in hard copies as well as by e-mail) and upload the same on their website and shall update the same periodically. The compliance report shall be simultaneously sent to the regional Office of Ministry of Environment , Forest and Climate Change, Govt. of India at Bengaluru and also to SEIAA.	6 monthly Compliance reports for the previous have already been submitted to the Regional Office of MoEF and have been uploaded on the website : . URL for the Website: <a href="https://downtownvm.com/compliance/">https://downtownvm.com/compliance/</a>  <b>Annexure 6 - EC compliance report</b>
21	The project proponent is responsible for implementing all the provisions of labour laws applicable from time to time. Provisions should be made for providing cooking facilities and supply of kerosene or cooking gas to the labourers.	The project will adhere to provisions of labour laws applicable from time to time will provide cooking facilities along with the supply of kerosene/cooking gas to the labourers.
22	The Proponent shall co-operate with and provide facilities and documents/data to the Agencies including Officials from the Regional of Ministry of Environment, Forests and Climate Change, Bengaluru during their inspection as part of monitoring the implementation of environmental safeguards.	Project will co-operate and provide facilities, documents/data to the Agencies including Officials from the Regional of Ministry of Environment, Forests and Climate Change, Bengaluru during their inspection as part of monitoring the implementation of environmental safeguards.
23	In the case of any change(s) in the scope of the project, the project would require a fresh appraisal by this Authority.	Noted
24	In case of transfer of EC, the matter shall be intimated and approval from the Authority shall be obtained as per the existing norms	Noted
25	Environmental Clearance is subject to final order of the Hon'ble Supreme Court of India in the matter of Goa Foundation Vs Union of India in Writ Petition (Civil) No.460 of 2004 as may be applicable to this project.	Noted.
26	The Authority 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 Environment (Protection) Act 1986, to ensure effective implementation of the suggested safeguard measures in a time bound and satisfactory manner.	Noted
27	Any appeal against this Environmental Clearance shall lie with the National Green Tribunal 1, if preferred, within a period of 30 days as prescribed under section 11 of the National Green Tribunal Act,1997.	Noted



### Green Conditions

1	Adequate rainwater harvesting facilities shall be arranged for.	To conserve water, a rainwater storage capacity of 550 KL will be provided at the site during the operation phase.
2	Technology and capacity of the STP to be indicated with discharge point (if any) of the treated water	A Sewage Treatment Plant (STP) with MBBR technology has been proposed for the treatment of 100% of wastewater onsite and no untreated water shall leave the site. This treated water shall be 100% reused for flushing, landscape irrigation and cooling tower makeup purposes as mentioned. The project confirms that 100% of the sewage will be treated to tertiary standards and reused onsite
3	Effluent water not conforming to specifications shall not be let out to water bodies	Complied. 100% of the Wastewater onsite shall be treated and reused on-site. This treated water shall be reused for flushing, Irrigation and Cooling tower make up water requirements. We confirm that no sewage or untreated effluent water shall be discharged from site.
4	Maximum reuse of grey water for toilet flushing and gardening and construction work shall be ensured	Project has considered the reuse of greywater for toilet flushing and gardening. During construction treated water will be procured from authorized government agencies.
5	Dual plumbing for flushing shall be done	The project considers dual plumbing system. Hence complied .
6	Provisions for disposal of e-wastes, solid wastes, non-biodegradables and separate parking facility for the buildings shall be provided.	Complied, the project has considered a provision of disposal of e-waste, non-biodegradable waste. As per LEED, a centralized waste collection and recycling room of a minimum 500 sqft will be identified.
7	Generation of solar energy to be mandatory for own uses and/or to be provided to the grid	Grid-connected solar PV of 683 kW is considered. To be installed during project commissioning
8	There shall be no compromise on safety conditions and facilities to be provided by the project proponent, which shall be ensured for occupation, regularisation or consent to operate	Complied. The project design is based in Indian Codes, NBC 2016 requirements, and Fire department NOC.

S.No	General Condition specific to Construction Phase	Compliance
1	All Statutory permissions including "Consent for Establishment " to STP/ETP/, Solid waste management plant, Power Generator etc shall be obtained from Kerala Pollution Control Board under Air Act and Water Act and Environment (Protection) Act. <b>A Copy shall be submitted to the Ministry/SEIAA before start of any construction work at site.</b>	Will be complied. Clearance from the state pollution control board as required under the Air (Prevention and control of pollution) Act, 1981, and water (prevention and control of pollution) Act 1974 will be obtained. Presently project has obtained clearance for state environment impact assessment authority <b>Annexure 4 – EC clearance</b>
2	The approval of the competent authority shall be obtained for structural safety of the building due to earthquake, adequacy of fire fighting equipment's, etc. as per National Building Code including protection measures from lightning etc. Building constructed in the runout area of landslide / rock fall area, shall be provided with suitable structures /measures to prevent earth materials to hit the structure.	Necessary clearance/permission for all relevant agencies has been obtained for commencement of work. Please find the attached permits obtained from the relevant authority. <b>Annexure 1- Building permit.</b> <b>Annexure 2- Fire NOC</b> <b>Annexure 3- Height NOC from AAI</b>
3	All required sanitary and hygienic measures should be in place before starting construction activities which are to be maintained throughout the construction phase.	Sanitary and hygienic measures are already provided before starting construction and ensure that they will be available throughout the construction phase.
4	A First Aid Room shall be provided at the project site both during construction and operation phases of the project.	First aid room has been provided onsite as required
5	Provide safe and healthy basic facilities for construction workers as per the Building & Other Construction Workers (Regulation of Employment and Conditions of Services) Act, 1996.	The project will be providing safe and healthy basic facilities for construction workers as per the Building & Other Construction Workers (Regulation of Employment and Conditions of Services) Act, 1996.
6	Adequate drinking water and sanitary facilities should be provided for construction workers at the site, Provision should be made for mobile toilets. Safe disposal of wastewater and solid wastes generated including piling debris during the construction phase should be ensured.	Adequate drinking water and sanitary facilities have been provided for construction workers at the site, along with the mobile toilets. Also, a waste management tracker is developed to ensure the safe disposal of wastewater and solid wastes generated at site including piling debris during the construction.
7	Unless provided otherwise, all the topsoil excavated during construction phase should be stored and reused for backfilling/horticulture/landscaping purposes within the project site.	Since the project topsoil is not suitable for horticulture and landscaping, the same has been used for backfilling within the site
8	Top soil excavated should not be used for reclaiming wetlands.	As indicated in the above point 7, project has reused the excavated soil for filling purposes.

9	The muck shall be disposed of only at approved sites with the approval of competent authority. The disposal should not create any adverse effect on the neighbouring communities and should be disposed taking necessary precautions for general safety and health of the public. Proof regarding the same shall be enclosed with the respective six monthly compliance reports.	All muck shall be disposed off at designated areas/locations post approval from the Geology & Mining department. The required approval documents shall be submitted along with the 6 monthly compliance reports as and when the activity will start.
10	Construction spoils, including bituminous material and other hazardous materials, must not be allowed to contaminate water sources and the dump sites for such materials must be secured so that they will not leach into the ground water.	Will be complied. The water shall be segregated at site. Nonhazardous waste shall be deposited at locations within the site or at locations approved by the Corporation. Hazardous waste shall be provided to PCB authorized Hazardous waste collection vendors
11	Any hazardous waste generated during construction phase, should be disposed off to authorised/approved Waste Collectors as per applicable rules and norms with necessary approval of the Kerala State Pollution Control Board.	The effort in this project has been firstly to minimize the amount of waste generated by careful resource planning, factory manufacturing of most products, etc. Additionally whatever waste is generated onsite is also being recycled /reused thereby diverting it away from landfills and dump yards. Any hazardous waste will be segregated and disposed off as per applicable CPCB norms.
12	Soil and Ground water samples shall be tested to ascertain that there is no threat to ground water quality by leaching of heavy metals and other toxic contaminants.	Groundwater samples are tested once in the 6 months to ascertain that there is no threat to groundwater quality by leaching of heavy metals and other toxic contaminants. <b>Annexure 13 – water test report.</b>
13	Storm water control and its re-use measures as per CGWB and BIS standards shall be followed for various applications	The project proposes to have a rainwater harvesting pond. The water will be treated and used during the post-construction phase. Will be complied.
14	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 the applicable air and noise emission standards and should be operated only during non-peak hours. During the transportation of building materials / products, the vehicles shall be covered with suitable materials to prevent dust pollution.	The same is being followed onsite and the project will ensure that the vehicles conform to the air and noise emission standards

15	Ambient noise levels should conform to residential standards both during day and night. Incremental pollution loads on the ambient air and noise quality should be closely monitored during construction phase. Adequate measures should be taken to reduce ambient air and noise level during construction phase, so as to conform to the stipulated standards by CPCB/KSPCB.	Ambient noise levels are in line with the Commercial Standard both during day and night as per Noise Pollution (Control and Regulation) Rules, 2000. The noise levels during the entire construction activity have been closely monitored by the project to ensure that they conform to the stipulated standards by CPCB/SPCB. In case of instances when the noise levels exceed the standards, suitable corrective action was taken. As per the noise readings taken recently on site the project confirms that it is within the noise levels as per the stipulated standards. <b>Annexure 14 – Noise level report</b>
16	The diesel generated sets used during construction phase should be of low sulphur diesel type and should conform to Environment (Protection) Rules prescribed for air and noise emission standards. The diesel required for operating DG sets shall be stored in underground tanks and if required, clearance from Chief Controller of Explosives shall be taken. DG sets shall be installed and made functional as per guidelines of KSPCB.	The project confirms that the DG sets used during construction complies with CPCB norms and is of low sulphur diesel type. Necessary certificates of the same are available onsite, Moreover, the project confirms that gaseous emissions from DG set shall be dispersed through adequate stack height as per CPCB standards
17	Ready mixed concrete must be used in building construction. Water demand during construction should be reduced by use of pre-mixed concrete, curing agents and other best practices referred.	Already considered in the design. Will be complied with during the construction.
18	Permission to draw ground water shall be obtained from the competent Authority prior to construction/operation of the project.	Efforts to take avoided Groundwater withdrawal. During construction, the water requirement shall be met from the external water supply that primarily recycled greywater. Technopark / KWA water supply (an assurance letter for assured water supply for 2.5 MLD from Kerala Water Authority (KWA) vide letter dt .17-04-2018 obtained). <b>Annexure 10 -Letter from KWA</b>
19	Separate dual plumbing line should be provided; one line for Toilet Flushing/Gardening/Vehicle wash and another separate line for other domestic uses, for ensuring reuse/recycle of treated waste water to the maximum extent possible.	The project has considered a dual-pipe plumbing system to enable reuse of treated water for flushing, cooling tower makeup, and landscaping purposes separately and freshwater for drinking, cooking, bathing, and other contact purposes in line with the requirements. This is to reduce the potable water requirement for the project.
20	Separation of grey and black water should be done by the use of dual plumbing line for separation of grey and black water	Will be complied.
21	Fixtures for showers, toilets flushing and drinking should be of low flow either by use of aerators or pressure reducing devices or sensor based control.	As per the LEED certification project has proposed to use the low flow water fixtures as per the green building requirement. Dual



		flush water closets 4.2/ 2.1 litres, low flow water fixtures including kitchen faucet at 4 LPM, Lavatory faucet at 2.5 LPM, urinal at 1.15 LPF.
22	Water efficient plumbing features should be adopted	By considering the low flow water-efficient plumbing features, there is an estimated reduction of the water used by over 30% in comparison to conventional buildings
23	Use of glass may be reduced by 40% to reduce the electricity consumption and load on air conditioning. If necessary, use high quality double glass with special reflective coating on windows.	High-performance glass with SHGC less than 0.25 and U value less than 0.3 Btu /hr/sqft F is considered. Also, project is trying the reduce the glass area to less than 40% to minimize the heat load.
24	Design of the building should be in compliance to Energy Building Code as applicable	The project confirms that its design and specifications comply with the ECBC code as well as the ASHRAE 90.1-2010 standard. has been ensured in design. The project is also pursuing the LEED BD+C New construction rating and in line with both ECBC and LEED norms has considered as part of its design - passive solar strategies such as building orientation, shading, appropriate fenestration to harvest maximum natural lighting while minimizing the overall energy consumption. In addition, the project is going for high-performance glazing, high-efficiency HVAC and electrical systems to bring down the energy demand of the building have been planned. The project shall take the energy simulation Whole building performance approach in ECBC as well as the Performance rating method as per ASHRAE 90.1-2010 standard. The project confirms that it meets the ECBC requirements
25	Roof should meet perspective requirement as per Energy Conservation Building Code by using appropriate thermal insulation material to fulfil the requirement.	The project shall take the energy simulation Whole building performance approach in ECBC as well as the Performance rating method as per ASHRAE 90.1-2010 standard. The project confirms that it meets the ECBC requirements
26	Opaque wall should meet perspective requirement as per energy Conservation Building Code which is proposed to be mandatory for all air conditioned spaces while it is optional for non air conditioned spaces by use of appropriate thermal insulation material to fulfil requirement	The project shall take the energy simulation Whole building performance approach in ECBC as well as the Performance rating method as per ASHRAE 90.1-2010 standard. The project confirms that it meets the ECBC requirements.
27	Climate responsive design as per Green Building Guidelines in practice should be	The project is pursuing LEED certification and climate responsive

	adopted.	design is adopted as per the LEED rating. The pre-certification for the retail building has been received and is attached <b>Annexure 11- LEED Pre-certification review report.</b>
28	Building design should cater to the differently - abled citizens	The building complies to differently-abled design stipulations provided in NBC 2016 / KMBR which is a part of the Building Permit approval process . Hence complied.
29	Vegetation should be adopted appropriately on the ground as well as over built structure such as roofs, basements, podiums etc.	Proposed landscape design considers adaption of vegetation on ground and over-built structures. Hence will be complied.
30	Exposed roof area and covered parking should be covered with material having high solar reflective index.	As per LEED requirement project has considered roof with high reflective finish with SRI greater than 82 and also ensured that all the car parks is allocated in the basement. In case if there is any covered car parking, will ensure that materials with high SRI of greater than 29 will be used.
31	Regular supervision of the above and other measures should be in place all throughout the construction phase, so as to avoid disturbances to the surroundings.	Noted.
32	Fly ash should be used as building material in construction as per the provisions of Fly Ash Notification of September, 1999 and Amended as on 27th August 2003,(Applicable to Power Stations)	In line with green building requirements, environment-friendly materials are used i.e., which has good amount of recycled content in it, such as cement with fly ash, bricks/blocks with fly ash content up to 70% and glass with recycled content. In addition to that construction materials which is manufactured locally has given preference to reduce the impact on the environment due to transportation.
33	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 statutory clearances.	The project has obtained the necessary clearance from the environment authority before the commencement of construction.

General Conditions specific to operation phase		Compliance
S.NO	Condition	
1	The buildings should have adequate distance between them to allow movement of fresh air and passage of nature light and ventilation.	The master plan design have taken into consideration the requirement of fresh air , passage of light and natural ventilation.
2	Sewage Treatment Plant (STP) should be installed and made functional as per KSPCB guidelines. On/site Treatment of Sewage and Sullage should be done with scientific method ensuring efficiency of treatment, ease in operation, sustainability and it should contain the units of primary, secondary, tertiary and quaternary type of treatment scheme. The installation of the STP should be certified by an independent expert and a report in this regard should be submitted to the Ministry/SEIAA before the project is commissioned for operation. Treated effluent emanating from STP shall be recycled / reused to the maximum extent possible. Treatment of 100% grey water shall be done through a decentralized treatment. Reuse of water shall be practiced for flushing process and garden purposes. Discharge of unused treated effluent shall conform to the norms and standards of the Kerala State Pollution Control Board. Necessary measures should be taken to mitigate the odour problem from STP.	A Sewage Treatment Plant (STP) with MBBR technology has been proposed for the treatment of 100% of wastewater onsite and no untreated water shall leave the site. This treated water shall be 100% reused for flushing, landscape irrigation and cooling tower makeup purposes as mentioned. The project confirms that 100% of the sewage will be treated to tertiary standards and reused onsite
3	Solid waste management plant shall be installed and made functional as per the guidelines of KSPCB. 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. Adequate measures should be taken to prevent odour problem from solid waste processing plant and STP.	The project has proposed to dedicate a separate area for solid waste management within the premises, which will include the area for waste collection and segregation. This area shall have bins for segregating paper, plastic, metals, cardboard, and glass. In addition, the wet waste shall be separated and using onsite waste converter units shall be converted to manure which will then be reused in the landscaping. A dedicated forced ventilation system is considered for STP and solid waste processing plant.
4	Provide adequate Material Collection Facility (MCF) for storage of non-biodegradable waste including plastic waste and E waste, for handing over the same to Recyclers/ Local Body, as stipulated by Kerala State Pollution Control Board.	The project has proposed to dedicate a separate area for solid waste management within the premises, which will include the area for waste collection and segregation. This area shall have bins for segregating paper, plastic, metals, cardboard and glass. In addition, the wet waste shall be separated and using onsite waste converter units shall be converted to manure which will then be reused in the landscaping. Recyclable waste will be handed over to the KSPCB approved recyclers/ local body.

5	Diesel power generating sets proposed as source of back up power for elevators and common area illumination during operation phase should be enclosed type and conform to rules made under the Environment (Protection) Act, 1986. The height of stack of DG sets should be equal to the height needed for the combined capacity of all proposed DG sets.	The project confirms that the DG sets used during construction comply with CPCB norms and is of low sulphur diesel type. Necessary certificates of the same are shall be made available onsite, Moreover the project confirms that gaseous emissions from DG set shall be dispersed through adequate stack height as per CPCB standards
6	Low sulphur diesel shall be used as fuel in DG sets. The location of the DG sets may be decided in consultation with Kerala State Pollution Control Board. DG sets should not be housed in sub basement levels.	Noted.
7	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.	Necessary design intervention to meet the noise levels as per the standard has been considered in the design.
8	The green belt of adequate width and density shall be revised preferably with local species along the periphery of the project site so as to provide protection against particulate matter and noise.	Will be complied. The landscape consultant will ensure that local species will be planted at the periphery of the project site
9	Weep holes shall be provided in the compound walls to ensure natural drainage of rain water during the monsoon period.	Noted.
10	Rain Water Harvesting structures should be installed as per the prevailing provisions of KMBR/KPBR, unless otherwise specified elsewhere. Rain water harvesting measures for roof run-off and surface run-off, as per approved building plan 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 m above the highest ground water table.	To conserve water, a rainwater storage capacity of 550 KL will be provided at the site. Roof rainwater will be directed to rain harvesting tanks after de-siltation, the removal of oil and grease through a trap within the site. This water will be used for daily requirements after suitable treatment. Excess rainwater shall be lead to a storm water drain available near the site.
11	The ground water level and its quality should be monitored regularly in consultation with State Groundwater Department/Central Ground Water Authority.	Noted.
12	Traffic congestion near the entry and exit points from the roads adjoining the project site must be avoided. Parking should be fully internalized and no public space should be utilized.	The project has considered the traffic impact assessment study and ensured that there is no traffic congestion and no public space are utilized for parking.



13	<p>A Report on the energy conservation measures, conforming to energy conservation norms issued by Bureau of Energy Efficiency, should be prepared incorporating details about building materials &amp; technology, R &amp; U Factors etc and submit to the Ministry in three months time.</p>	<p>The project confirms that its design and specifications comply with ECBC code as well as the ASHRAE 90.1-2010 standard. has been ensured in design. The project is also pursuing the LEED BD+C New construction rating and inline with both ECBC and LEED norms has considered as part of its design - passive solar strategies such as building orientation, shading, appropriate fenestration to harvest maximum natural lighting while minimizing the overall energy consumption. In addition the project is going for high-performance glazing, high-efficiency HVAC and electrical systems to bring down the energy demand of the building have been planned. The project shall take the energy simulation Whole building performance approach in ECBC as well as the Performance rating method as per ASHRAE 90.1-2010 standard. The project confirms that it meets the ECBC requirements</p>
14	<p>Energy conservation measures like installation of LED/CFLs/TECs for the lighting the areas outside the building should be an integral part of the project design and should be in place before project commissioning. Used LED/CFLs and TECs should be properly collected and disposed off/sent for recycling as per the prevailing guidelines/rules of the regulatory authority to avoid mercury contamination. Solar panels may be used to the extent possible.</p>	<p>Yes, the project will be implementing several energy conservation measures including LEDs for external lighting and common area lightings and will have in place a program for the recycling of the LEDs to avoid any mercury contamination as per the prevailing norms. Grid-connected solar PV of 683 kW is considered. To be installed during project commissioning</p>

## SITE PROGRESS PHOTO

Due to COVID 19 pandemic induced lockdown all construction activities at site suspended from March 2020



## LIST OF ANNEXURES

S.No	Annexure
1	Building Permit
2	Fire NOC
3	Height NOC from AAI
4	EC clearance - Phase 2
5	Storm water drianage layout
6	EC Six month compliance report
7	Notarized Affidavit
8	News Paper Advertisement
9	EHS Policy
10	Letter from KWA
11	LEED Pre-Certification review report
12	MOM of environmental monitoring cell
13	Water test report
14	Noise level report
15	Air quality report

# ANNEXURE 1



**BUILDING PERMIT****Technopark Area Single Window Clearance Board****Technopark Phase 3 Campus**

No. BP/PH3/002/WR

Date: 4<sup>th</sup> July 2019

- Ref:** (i) The drawings/proposals submitted by M/s. Dragonstone Realty & M/s.Dorne Realty Pvt for "Building Permit"  
(ii) 8<sup>th</sup> meeting of the Technopark Area Single Window Clearance Board held on 27<sup>th</sup> May 2019.

Permission is granted for the construction of office building, hotel building, retail & residential building for M/s.Dragonstone Realty Pvt Ltd & M/s.Dorne Realty Pvt Ltd in Technopark Phase 3 campus in allotted Re. Sy. Nos. of Attipra Village in Thiruvananthapuram Taluk of Thiruvananthapuram District subject to the below mentioned conditions and other conditions mentioned in the letter No.

**ETPK/PH3/SWC/2019-20/995 dated 4<sup>th</sup> July 2019.**

1. The Environmental Clearance for the construction of all the buildings (Office, Residential, Hotel & Retail buildings) should be obtained before commencement of its works.
2. Demarcated Parking facilities need to be provided as per Kerala Cinemas (Regulation) Rules, 1988 and its attest amendments.
3. Approvals are to be obtained from Kerala State Pollution Control Board and Department of Factories & Boilers wherever applicable.
4. The Government Order amendment related to Rain Water Harvesting Survey Numbers and changes in Revenue records due to canal diversion shall be obtained.

Type of Building	Total Plinth Area (m <sup>2</sup> )	No: of Floors	Height of Building (m)
Office Building	62242.19	B+G+16	61
Residential Building	43175.23	2B+ 1B + G +26	87.55
Hotel Building	44200.16	B+G+17	68.7
Retail Building	117846.05	B+ G + 5	30

For Electronics Technology Parks- Kerala



Hrishikesh Nair

Chief Executive Officer



# ANNEXURE 2



**DEPARTMENT OF FIRE & RESCUE SERVICES  
GOVERNMENT OF KERALA**

**No. F2-5288/2019**

**Dated : 09.07.2019.**

**FIRE SAFETY CLEARANCE FOR SITE**

1. Name & Address of the Applicant : M/S.Dragonstone Realty Pvt. Ltd. & M/S.Dorne Realty Pvt. Ltd., B'Hub, Cardinal Cleemis Centre for Innovations, Mar Ivanious Vidya Nagar, Nalanchira, Thiruvananthapuram-695003.
2. Name of the Company : -
3. Occupancy type of Building : Business
4. Height of the Building : 61 mtrs.
5. Number of Floors of the Building : 18 F (B+G+16 F)  
(Parking – upto 7<sup>th</sup> Floor)
6. Total Plinth Area (in sqm) : 62242.19 m<sup>2</sup>
7. Survey No : 290/2(part), 290/3(part), 290/4(part), 290/5(part), 290/6, 290/7(part), 290/8(part), 291/2(part), 291/3(part), 291/4(part), 291/5(part), 291/6(part), 291/7, 291/8, 291/9, 291/10(part), 291/11(part), 291/12, 291/13, 291/14, 291/15, 291/16, 291/17, 291/18, 291/19, 292/1, 292/2, 292/3, 292/4(part), 292/5, 292/6(part), 292/7(part), 292/8(part), 292/9, 292/10, 292/11(part), 292/12(part), 292/14(part), 292/18(part), 295/1(part), 295/2(part), 295/3(part), 295/8(part), 295/9, 295/10, 295/11(part), 295/12, 295/13, 295/14, 295/15, 295/16, 295/17(part), 295/18(part), 295/19(part), 296/1(part), 296/2(part), 296/5(part), 296/6(part), 296/7, 296/8, 296/9, 296/10, 296/11, 296/12, 296/13, 296/14, 296/15, 296/16, 296/17, 296/18, 296/19, 297/8(part), 297/18(part), 297/19(part).
8. Village : Attipra
9. Corporation : Thiruvananthapuram
10. District : Thiruvananthapuram





**No: F2-5288/19**

The above site was inspected by the competent and authorized Officials of this Department. It was found that the site is suitable, prima facie for the proposed construction as per KMBR.

The Fire Plan drawings were scrutinized and compared with the Checklist (Form No.B6) and Prima Facie found to be in Order. The Applicant shall comply with all the Fire Safety arrangements as contained in the filled up Checklist, copy of which is attached to this clearance letter without any deviation. In case of some deviation to be made, the same shall be intimated to the competent authorities of the Stake holder Departments including this Department and the Applicant shall deposit necessary Fees etc. as per rules to obtain further clearance.

On completion of construction of the Building, the Applicant shall fill the Checklist Cum Application (Form No.B6) again and also prepare a Fire Plan Drawing and submit following the due procedure. On receiving the Plan & the Checklist Cum Application duly filled, the authorized and competent Officials of this Department will inspect & verify the arrangements made as per the filled up Checklist to consider issuance of Certificate of Approval from this Department.

This clearance is limited to the Fire Safety measures/Arrangements for the proposed Building. The Fire Safety Clearance for the Site is issued for facilitating the construction of the proposed Building.



**R.PRASAD**  
**DIRECTOR(TECHNICAL),**  
**For DIRECTOR GENERAL.**

To,

**The Secretary, Thiruvananthapuram Corporation (In Original).**

Enclosures: 1) Approved Checklist Cum Application form duly signed by the Competent Official.  
2) Fire Plan duly affixed with Seal.

Copy to: 1) The Applicant with the above Enclosures  
2) The Regional Fire Officer, Thiruvananthapuram.  
3) The District Fire Officer, Thiruvananthapuram.  
4) The Station Officer, Kazhakkootam.

F4.9/7.





**DEPARTMENT OF FIRE & RESCUE SERVICES  
GOVERNMENT OF KERALA**

**No. F2-5054/2019**

**Dated : 29.05.2019.**

**FIRE SAFETY CLEARANCE FOR SITE**

1. Name & Address of the Applicant : **M/s.Dragonstone Realty Pvt. Ltd. & M/s.Dorne Realty Pvt. Ltd., Sri.Anilkumar (Authorised Signatory) B'Hub, Cardinal Cleemis Centre for Innovations, Mar Ivanious Vidya Nagar, Nalanchira, Thiruvananthapuram-695003.**
2. Name of the Company : -
3. Occupancy type of Building : **Assembly (Multiplex Mall)**
4. Height of the Building : **30 mtrs.**
5. Number of Floors of the Building : **7 F (B+G+5 F)**
6. Total Plinth Area (in sqm) : **117846.05 m<sup>2</sup>**
7. Survey No : **290/2(part), 290/3(part), 290/4(part), 290/5(part), 290/6, 290/7(part), 290/8(part), 291/2(part), 291/3(part), 291/4(part), 291/5(part), 291/6(part), 291/7, 291/8, 291/9, 291/10(part), 291/11(part), 291/12, 291/13, 291/14, 291/15, 291/16, 291/17, 291/18, 291/19, 292/1, 292/2, 292/3, 292/4(part), 292/5, 292/6(part), 292/7(part), 292/8(part), 292/9, 292/10, 292/11(part), 292/12(part), 292/14(part), 292/18(part), 295/1(part), 295/2(part), 295/3(part), 295/8(part), 295/9, 295/10, 295/11(part), 295/12, 295/13, 295/14, 295/15, 295/16, 295/17(part), 295/18(part), 295/19(part), 296/1(part), 296/2(part), 296/5(part), 296/6(part), 296/7, 296/8, 296/9, 296/10, 296/11, 296/12, 296/13, 296/14, 296/15, 296/16, 296/17, 296/18, 296/19, 297/8(part), 297/18(part), 297/19(part).**
8. Village : **Attipara**
9. Corporation : **Thiruvananthapuram**
10. District : **Thiruvananthapuram**





No: F2-5054/19

The above site was inspected by the competent and authorized Officials of this Department. It was found that the site is suitable, prima facie for the proposed construction as per KMBR.

The Fire Plan drawings were scrutinized and compared with the Checklist (Form No.A6) and Prima Facie found to be in Order. The Applicant shall comply with all the Fire Safety arrangements as contained in the filled up Checklist, copy of which is attached to this clearance letter without any deviation. In case of some deviation to be made, the same shall be intimated to the competent authorities of the Stake holder Departments including this Department and the Applicant shall deposit necessary Fees etc. as per rules to obtain further clearance.

On completion of construction of the Building, the Applicant shall fill the Checklist Cum Application (Form No.A6) again and also prepare a Fire Plan Drawing and submit following the due procedure. On receiving the Plan & the Checklist Cum Application duly filled, the authorized and competent Officials of this Department will inspect & verify the arrangements made as per the filled up Checklist to consider issuance of Certificate of Approval from this Department.

This clearance is limited to the Fire Safety measures/Arrangements for the proposed Building. The Fire Safety Clearance for the Site is issued for facilitating the construction of the proposed Building.



**N.V.JOHN,**  
**DIRECTOR(ADMINISTRATION),**  
**For DIRECTOR GENERAL.**

To,

**The Secretary, Thiruvananthapuram Corporation (In Original).**

Enclosures: 1) Approved Checklist Cum Application form duly signed by the Competent Official.  
2) Fire Plan duly affixed with Seal.

Copy to: 1) The Applicant with the above Enclosures  
2) The Regional Fire Officer, Thiruvananthapuram.  
3) The District Fire Officer, Thiruvananthapuram.  
4) The Station Officer, Kazhakkootam.



DEPARTMENT OF FIRE & RESCUE SERVICES  
GOVERNMENT OF KERALA

No. F2-5287/2019

Dated : 26.06.2019.

**FIRE SAFETY CLEARANCE FOR SITE**

1. Name & Address of the Applicant : M/s.Dragonstone Realty Pvt. Ltd. & M/s.Dorne Realty Pvt. Ltd., Sri.Anil Kumar (Authorized Signatory) B'Hub, Cardinal Cleemis Centre for Innovations, Mar Ivanious Vidya Nagar, Nalanchira, Thiruvananthapuram-695 003.
2. Name of the Company : -
3. Occupancy type of Building : Residential (Hotel)
4. Height of the Building : 65.20 mtrs.
5. Number of Floors of the Building : 19 F (B + G + 17 F)
6. Total Plinth Area (in sqm) : 44200.16 m<sup>2</sup>
7. Survey No : 290/2(part), 290/3(part), 290/4(part), 290/5(part), 290/6, 290/7(part), 290/8(part), 291/2(part), 291/3(part), 291/4(part), 291/5(part), 291/6(part), 291/7, 291/8, 291/9, 291/10(part), 291/11(part), 291/12, 291/13, 291/14, 291/15, 291/16, 291/17, 291/18, 291/19, 292/1, 292/2, 292/3, 292/4(part), 292/5, 292/6(part), 292/7(part), 292/8(part), 292/9, 292/10, 292/11(part), 292/12(part), 292/14(part), 292/18(part), 295/1(part), 295/2(part), 295/3(part), 295/8(part), 295/9, 295/10, 295/11(part), 295/12, 295/13, 295/14, 295/15, 295/16, 295/17(part), 295/18(part), 295/19(part), 296/1(part), 296/2(part), 296/5(part), 296/6(part), 296/7, 296/8, 296/9, 296/10, 296/11, 296/12, 296/13, 296/14, 296/15, 296/16, 296/17, 296/18, 296/19, 297/8(part), 297/18(part), 297/19(part).
8. Village : Attipra
9. Corporation : Thiruvananthapuram
10. District : Thiruvananthapuram





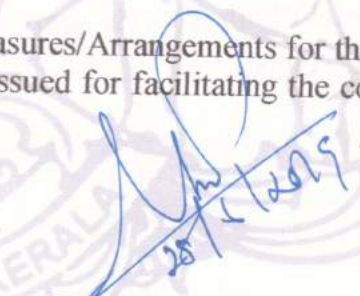
**No: F2-5287/19**

The above site was inspected by the competent and authorized Officials of this Department. It was found that the site is suitable, prima facie for the proposed construction as per KMBR.

The Fire Plan drawings were scrutinized and compared with the Checklist (Form No.R10) and Prima Facie found to be in Order. The Applicant shall comply with all the Fire Safety arrangements as contained in the filled up Checklist, copy of which is attached to this clearance letter without any deviation. In case of some deviation to be made, the same shall be intimated to the competent authorities of the Stake holder Departments including this Department and the Applicant shall deposit necessary Fees etc. as per rules to obtain further clearance.

On completion of construction of the Building, the Applicant shall fill the Checklist Cum Application (Form No.R10) again and also prepare a Fire Plan Drawing and submit following the due procedure. On receiving the Plan & the Checklist Cum Application duly filled, the authorized and competent Officials of this Department will inspect & verify the arrangements made as per the filled up Checklist to consider issuance of Certificate of Approval from this Department.

This clearance is limited to the Fire Safety measures/Arrangements for the proposed Building. The Fire Safety Clearance for the Site is issued for facilitating the construction of the proposed Building.

  
**M.NOUSAD,**  
**DIRECTOR(ADMINISTRATION),**  
**For DIRECTOR GENERAL.**

To,

**The Secretary, Thiruvananthapuram Corporation (In Original).**

Enclosures: 1) Approved Checklist Cum Application form duly signed by the Competent Official.  
2) Fire Plan duly affixed with Seal.

Copy to: 1) The Applicant with the above Enclosures  
2) The Regional Fire Officer, Thiruvananthapuram.  
3) The District Fire Officer, Thiruvananthapuram.  
4) The Station Officer, Thiruvananthapuram.





DEPARTMENT OF FIRE & RESCUE SERVICES  
GOVERNMENT OF KERALA

No. F2-5334/2019

Dated : 26.06.2019.

**FIRE SAFETY CLEARANCE FOR SITE**

1. Name & Address of the Applicant : M/s.Dragonstone Realty Pvt. Ltd. & M/s.Dorne Realty Pvt. Ltd., Sri.Anil Kumar (Authorized Signatory) B'Hub, Cardinal Cleemis Centre for Innovations, Mar Ivanious Vidya Nagar, Nalanchira, Thiruvananthapuram-695 003.
2. Name of the Company : -
3. Occupancy type of Building : Residential
4. Height of the Building : 84.55 mtrs.
5. Number of Floors of the Building : 29 F (BE2 + BF1 + GF + 26 F)
6. Total Plinth Area (in sqm) : 43151.32 m<sup>2</sup>
7. Survey No : 290/2(part), 290/3(part), 290/4(part), 290/5(part), 290/6, 290/7(part), 290/8(part), 291/2(part), 291/3(part), 291/4(part), 291/5(part), 291/6(part), 291/7, 291/8, 291/9, 291/10(part), 291/11(part), 291/12, 291/13, 291/14, 291/15, 291/16, 291/17, 291/18, 291/19, 292/1, 292/2, 292/3, 292/4(part), 292/5, 292/6(part), 292/7(part), 292/8(part), 292/9, 292/10, 292/11(part), 292/12(part), 292/14(part), 292/18(part), 295/1(part), 295/2(part), 295/3(part), 295/8(part), 295/9, 295/10, 295/11(part), 295/12, 295/13, 295/14, 295/15, 295/16, 295/17(part), 295/18(part), 295/19(part), 296/1(part), 296/2(part), 296/5(part), 296/6(part), 296/7, 296/8, 296/9, 296/10, 296/11, 296/12, 296/13, 296/14, 296/15, 296/16, 296/17, 296/18, 296/19, 297/8(part), 297/18(part), 297/19(part).
8. Village : Attipra
9. Corporation : Thiruvananthapuram
10. District : Thiruvananthapuram



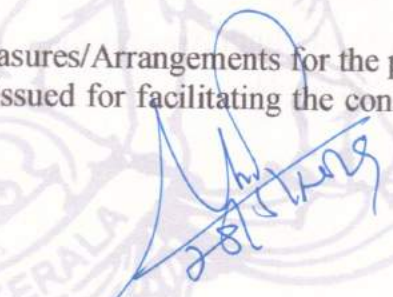
**No: F2-5334/19**

The above site was inspected by the competent and authorized Officials of this Department. It was found that the site is suitable, prima facie for the proposed construction as per KMBR.

The Fire Plan drawings were scrutinized and compared with the Checklist (Form No.R5) and Prima Facie found to be in Order. The Applicant shall comply with all the Fire Safety arrangements as contained in the filled up Checklist, copy of which is attached to this clearance letter without any deviation. In case of some deviation to be made, the same shall be intimated to the competent authorities of the Stake holder Departments including this Department and the Applicant shall deposit necessary Fees etc. as per rules to obtain further clearance.

On completion of construction of the Building, the Applicant shall fill the Checklist Cum Application (Form No.R5) again and also prepare a Fire Plan Drawing and submit following the due procedure. On receiving the Plan & the Checklist Cum Application duly filled, the authorized and competent Officials of this Department will inspect & verify the arrangements made as per the filled up Checklist to consider issuance of Certificate of Approval from this Department.

This clearance is limited to the Fire Safety measures/Arrangements for the proposed Building. The Fire Safety Clearance for the Site is issued for facilitating the construction of the proposed Building.

  
**M.NOUSAD,**  
**DIRECTOR(ADMINISTRATION),**  
**For DIRECTOR GENERAL.**

To,

**The Secretary, Thiruvananthapuram Corporation (In Original).**

Enclosures: 1) Approved Checklist Cum Application form duly signed by the Competent Official.  
2) Fire Plan duly affixed with Seal.

Copy to: 1) The Applicant with the above Enclosures  
2) The Regional Fire Officer, Thiruvananthapuram.  
3) The District Fire Officer, Thiruvananthapuram.  
4) The Station Officer, Kazhakkootam.

# ANNEXURE 3





भारतीय विमानपत्तन प्राधिकरण  
AIRPORTS AUTHORITY OF INDIA

Hrishikesh R. Nair, Chief Executive Officer, Electronics Technology Parks- Kerala (TechnoparkDate: 05-06-2017)

Chief Executive Officer, Electronics  
Technology Parks- Kerala  
(Technopark), Park Centre,  
Technopark Campus, Kariavattom Po,  
Thiruvananthapuram- 695581

Valid Upto: 04-06-2022

**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/051517/219939
Applicant Name*	Ajay Prasad
Site Address*	Technopark Phase 3 Campus, Non SEZ plot with Synos-290/2(part), 290/3(part), 290/4(part), 290/5(part), 290/6(part), 290/7(part), 291/2(part), 291/3(part), 291/4, 291/5, 291/6, 291/7, 291/8, 291/9, 291/10(part), 291/11(part), 291/12, 291/13, 291/14, 291/15, 291/16, 291/17, 292/1, 292/2, 292/3, 292/4(part), 292/5(part), 292/6(part), upto 297/19
Site Coordinates*	76 52 45.85-8 32 54.98, 76 52 47.49-8 32 59.92, 76 52 49.36-8 33 2.27, 76 52 51.39-8 32 55.22, 76 52 51.41-8 33 2.51, 76 52 52.27-8 32 57.89,
Site Elevation in mtrs AMSL as submitted by Applicant*	5.399 M
Permissible Top Elevation in mtrs Above Mean Sea Level(AMSL)	95.65M

\*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 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.

c. 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.

d. No radio/TV Antenna, lighting arresters, staircase, Mumtee, Overhead water tank and attachments of fixtures of any kind shall project above the Permissible Top Elevation of 95.65M, as indicated in para 2.

Page 1/2

राजीव गांधी भवन

सफदरजंग हवाई अड्डा नई दिल्ली-110003

दूरभाष : 24632950

Rajiv Gandhi Bhawan

Safdarjung Airport, New Delhi-110003

Phone: 24632950



भारतीय विमानपत्तन प्राधिकरण  
AIRPORTS AUTHORITY OF INDIA

- e. Only use of oil fired or electric fired furnace is permissible, within 8 KM of the Aerodrome Reference Point.
- f. The certificate is valid for a period of 5 years from the date of its issue. If the construction of structure/Chimney is not commenced within the period, a fresh 'NOC' from the Designated Officer of Airports Authority of India shall be obtained. However, if construction work has commenced, onetime revalidation request, for a period not exceeding 8 years from the date of issue of NOC in respect of building/structure and for a period not exceeding 12 years from the date of issue of NOC in respect of chimney, may be considered by AAI. The date of completion of the Structure should be intimated to this office.
- g. 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
- h. 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.
- i. 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
- j. 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.
- k. This NOC has been issued w.r.t. the Civil Airports. Applicant needs to seek separate NOC from Defence, if the site lies within their jurisdiction.
- l. In case of any discrepancy/interpretation of NOC letter, English version shall be valid.
- m. 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: vomn.noc@aai.aero

Contact No: 044-22560046

संयुक्त महाप्रबंधक (वि.प्र.)  
Jt. General Manager (ATM)  
भा.वि.प्रा, दक्षिणी क्षेत्र / A.A.I, Southern Region  
चेन्नई / Chennai - 600 027

Page 2/2

# ANNEXURE 4





**Validity expires on 05.03.2028**

**PROCEEDINGS OF THE  
STATE ENVIRONMENT IMPACT ASSESSMENT  
AUTHORITY – KERALA, THIRUVANANTHAPURAM**

***Present: Dr.H.Nagesh Prabhu IFS (Retd), Chairman; Dr.V.Venu IAS, Member Secretary  
and Dr.Jayachandran.K, Member***

**Sub: SEIAA- Environmental Clearance for the proposed expansion of the Mixed Land Use (Master Plan) project by M/s Dragonstone Realty Pvt. Ltd. at Technopark Phase-3 Campus in Re-Sy. Nos. 290/2 part & others, in Attipra Village , Thiruvananthapuram Taluk, Thiruvananthapuram District, Kerala- Granted- Orders issued**

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**State Environment Impact Assessment Authority, Kerala**

**No.SIA/KL/MIS/52546/2018,1202/EC2/2018/SEIAA**

**dated, Thiruvananthapuram : 06.03.2021**

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- Ref: 1. Application received on 20/03/2020 through PARIVESH from Mr.R.AnilKumar, Authorized Signatory,M/s Dragonstone Realty Pvt. Ltd., B Hub, Mar Ivanios, Vidya Nagar, Nalanchira, Trivandrum, Kerala- 695015.
2. Minutes of the 112<sup>th</sup> SEAC held on 12<sup>th</sup>,13<sup>th</sup> & 14<sup>th</sup>, August 2020
3. Minutes of the 115<sup>th</sup> SEAC meeting held on 3 – 5, November 2020
4. Minutes of the 116<sup>th</sup> SEAC meeting held on 2nd, 3rd and 7th December, 2020
5. Minutes of the 118<sup>th</sup> SEAC held on 1<sup>st</sup>, 2<sup>nd</sup> & 3<sup>rd</sup> February, 2021
6. Minutes of the 107<sup>th</sup> meeting of SEIAA held on 18<sup>th</sup> & 19<sup>th</sup> February 2021
7. G.O(Rt.) No.29/2019/Env dt.12.04.2019.

**ENVIRONMENTAL CLEARANCE NO. 17 /2021**

Mr.R.AnilKumar, Authorized Signatory,M/s Dragonstone Realty Pvt. Ltd., B Hub, Mar Ivanios, Vidya Nagar, Nalanchira, Trivandrum, Kerala- 695015, has submitted an application for Environmental Clearance via PARIVESH on 20/03/2020 for the proposed expansion of the Mixed Land Use (Master Plan) project by M/s Dragonstone Realty Pvt. Ltd.

at Technopark Phase-3 Campus, Attipra Village, Thiruvananthapuram Corporation, Taluk & District Thiruvananthapuram, Kerala. The details of the project are as follows:

SL.No.	Particulars	Details
1	Name of the Project	Expansion of the Mixed Land Use (Master Plan) project by M/s Dragonstone Realty Pvt. Ltd
2	Proposed Activity	New Construction Projects and Industrial Estates
3	Name of the Sector & Schedule No. (in the EIA Notification, 2006)	Category 'B' Schedule 8 (b) Townships and Area development projects
4	Name & Address of the Project Proponent	Mr.R.AnilKumar, Authorized Signatory,M/s Dragonstone Realty Pvt. Ltd., B Hub, Mar Ivanios, Vidya Nagar, Nalanchira, Trivandrum - 695015
5	Project Location	
	a) Survey Nos:	Re-Sy. Nos. 290/2 part, 290/3 part, 290/4 part, 290/5 part, 290/6 , 290/7 part, 291/2 part, 291/4 part, 291/5 part, 291/6 part, 291/7, 291/8, 291/9 part, 291/11 part, 291/12, 291/13, 291/14, 291/15, 291/16, 291/17, 291/18, 291/19, 292/1, 292/2, 292/3, 292/4 part, 292/5 part, 292/6 part, 292/8 part, 292/9, 292/10, 295/1 part, 295/2 part, 295/3 part, 295/8 part, 295/9, 295/10, 295/11 part, 295/12, 295/13, 295/14, 295/17 part, 295/19 part, 295/23 part, 296/1 part, 296/2 part, 296/5 part, 296/6 part, 296/7, 296/8, 296/9, 296/10, 296/11, 296/12, 296/13, 296/14, 296/15, 296/16, 296/17, 296/18, 296/19, 297/8 part, 297/18 part, 297/19 part, 292/2 part, 292/3 part, 292/8 part, 292/9 part, 292/10 part, 292/11 part, 292/12 part, 292/14 part, 292/18 part, 295/14 part, 295/15,



		295/16, 295/17 part, 295/18 part, 296/10 part, 296/18 part, 296/19 part
	b) Revenue Village	Attipra Village
	c) Taluk	Thiruvananthapuram
	d) District	Thiruvananthapuram
6	Geo Co-ordinates	08 <sup>0</sup> 33'02.82" to 08 <sup>0</sup> 32'55.64" N 76°52'52.50" to 76°52'43.58"E
7	Total Plot Area	3.937 ha
8	Total Built-up Area	2,71,164.4 sq.m (approved built up area by MoEF&CC 1,33,491 sq.m + additional built up area now proposed 1,37,673.4 sq.m)
9	Project Cost	800 Crores
10	Total Water Requirement	1,137 KL/day
11	Sewage Generation	709 KL/day
12	Total Power Requirement	13 MVA
13	ToR approved letter No.	1202/EC2/2018/SEIAA dated 09.09.2019
14	Field Inspection Details	18 <sup>th</sup> December 2020
15.	CER details	1% of the project cost = 8 crores
16.	Validity	7 years

2. The proposal was placed in the 118<sup>th</sup> SEAC meeting held on 1<sup>st</sup>, 2<sup>nd</sup> & 3<sup>rd</sup> February, 2021. The proposed expansion of Mixed Land Use (Master Plan) development is in plot area of 3.937 ha. with total cumulative built-up area of 2,71,164.4 sq.m. (Approved built-up area 1,33,491 sq m + Proposed expansion of built-up area of 1,37,673.4 sq m). The Hon'ble Supreme Court by judgment dated 29.10.20 dismissed the Civil Appeal 2535/2020 filed by Shri.Thomas Lawrence Challenging the order of NGT with a direction that the Collector has passed an order pursuant to the NGT's order dated 19.12.2018, it is clear that the execution application filed before the

NGT has become infructuous. The Committee examined all the additional documents/details filed by the proponent and decided to recommend the issuance of EC for a total built up area of 2,71,164.4 sq m. subject to following specific conditions.

- 1) Ensure uninterrupted overflow of storm water to the nearby canal.
- 2) Compensatory afforestation/ Miyawaki forest may be developed within first two years of the project.
- 3) Maximum non-conventional energy resource potential must be tapped to meet energy requirement of the project.

3. The proposal was placed in the 107<sup>th</sup> SEIAA meeting held on 18<sup>th</sup> & 19<sup>th</sup> February 2021. The decision is as follows:

“ The Authority noted that as per the legal opinion given Standing Counsel Adv. G Prakash there is no case pending in Hon: Supreme court of India and as well as in Hon: NGT with regard to phase 3 Project lands of M/S Dragonstone Realty Pvt.Ltd., as reported by SEAC.

Authority noted that M/S Dragonstone Realty Pvt.Ltd. have obtained EC for 1,33,491 sq m from MoEF&CC already as per EC order No. 21-48/2018-IA.III dated 7.6.2019. Hence out of the total area of of 2,71,164.4 sq m , Authority need to issue EC for balance area of 1,37,673.4 sq m.

Authority also noted that SEAC had appraised the proposal based on Form IA, Conceptual Plan, the filed inspection report, the additional details/documents obtained from the proponent as the part of the appraisal. After the due appraisal SEAC has recommended to issue EC subject to certain conditions.

***Authority decide to issue EC for 7 years as recommended by SEAC for the balance built up area of 1,37,673.4 sqm subject to following specific conditions and general conditions.***

1. *The Project proponent shall scrupulously follow the EC conditions imposed by MoEF&CC while issuing EC for 1, 33,491 sq m. as per EC order No. 21-48/2018-IA.III dated 7.6.2019.*
2. *The Project Proponent shall implement the activities proposed in the Environmental Management Plan to ensure the Environmental stability in the project region.*



3. *Ensure uninterrupted overflow of storm water to the nearby canal.*
4. *Compensatory afforestation/Miyawaki forest as suggested by SEAC shall be developed within first two years of the project if it is not a part of Environment Management Plan (EMP)*
5. *Maximum non-conventional energy resource potential shall be tapped to meet energy requirement of the project.*
6. *The Project Proponent shall obtain all required clearances from all the concerned local self-government organizations and Thiruvananthapuram Corporation.*
7. *The construction activities shall be carried out as per the approved Building plan observing all rules and regulations under Kerala Municipal Building rules.*
8. *Corporate Environment Responsibility (CER): As per OM no F.No.22-65/2017-IA.III dated 30<sup>th</sup> September 2020, the project Proponent shall prepare an Environment Management Plan (EMP) as directed by SEAC during appraisal, covering the issues to address the environmental problems in the project region, indicating both physical and financial targets year wise. The EMP shall be implemented in consultation with District Collector. The indicated cost for CER shall be 1% of the project cost. The follow up action on implementation of CER shall be included in the half yearly report which will be subjected to field inspection at regular intervals.*
9. *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 (Circular No.J-11013/41/2006-IA.II (I) of GoI, MoEF dt.22.09.2008 and Regulation of Employment and Conditions of Service) Act, 1996)".*

4. In this circumstance, Environmental Clearance is granted to Mr.R.AnilKumar, Authorized Signatory, M/s Dragonstone Realty Pvt. Ltd., B Hub, Mar Ivanios, Vidya Nagar, Nalanchira, Trivandrum, Kerala- 695015, for the proposed expansion of the Mixed Land Use (Master Plan) project by M/s Dragonstone Realty Pvt. Ltd. at Technopark Phase-3 Campus in Re-Sy. Nos. 290/2 part & others, Attipra Village , Thiruvananthapuram Taluk,

Thiruvananthapuram District, Kerala, subject to the condition in para 3 of this order and the usual general conditions for projects other than mining appended hereto. Also the following green conditions should be strictly adhered to.

### **Green Conditions.**

1. *Adequate rain water harvesting facilities shall be arranged for.*
  2. *Technology and capacity of the STP to be indicated with discharge point (if any) of the treated effluent.*
  3. *Effluent water not conforming to specifications shall not be let out to water bodies.*
  4. *Maximum reuse of grey water for toilet flushing and gardening and construction work shall be ensured.*
  5. *Dual plumbing for flushing shall be done.*
  6. *Provisions for disposal of e-wastes, solid wastes, non-biodegradables and separate parking facility for the buildings shall be provided.*
  7. *Generation of solar energy to be mandatory for own use and/or to be provided to the grid.*
  8. *There shall be no compromise on safety conditions and facilities to be provided by the project proponent, which shall be ensured for occupation, regularisation or consent to operate.*
5. The Clearance will also be subject to full and effective implementation of all the undertakings given in the application form, all the environmental impact mitigation and management measures undertaken by the project proponent in the documents submitted to SEIAA, and the mitigation measures and waste management proposal as assured in the Form - 1 and Form-1A, Environment Management Plan as submitted. The assurances and clarifications given by the proponent in the application and related documents will be deemed to be part of these proceedings as conditions as undertaken by the proponent, as if incorporated herein.
6. Validity of the Environmental Clearance will be for **Seven years** from the date of issuance of E.C, subject to inspection by SEIAA on annual basis and compliance of the conditions, subject to earlier review of E.C in case of violation or non-compliance of any of



the conditions stipulated herein or genuine complaints from residents within the scrutiny area of the project.

7. Compliance of the conditions herein will be monitored by the State Environment Impact Assessment Authority or its agencies and also by the Regional Office of the Ministry of Environment and Forests, Govt. of India, Bangalore.

8. Necessary assistance for entry and inspection by the concerned officials and staff should be provided by the project proponents.

9. Instances of violation if any shall be reported to the District Collector, Thiruvananthapuram to take legal action under the Environment (Protection) Act 1986.

10. The Half Yearly Compliance Report (HYCRs) with its contents of a covering letter, compliance report and environmental monitoring data has to be in PDF format merged into a single document. The email should clearly mention the name of the project, EC No and date, period of submission and to be sent to the Regional Office of MoEFF& CC by email only at email ID [rosz.bng-mefcc@gov.in](mailto:rosz.bng-mefcc@gov.in) . Hardcopy of HYCRs shall not be acceptable.

11. The given address for correspondence with the authorized signatory of the project is Mr.R.AnilKumar, Authorized Signatory, M/s Dragonstone Realty Pvt. Ltd., B Hub, Mar Ivanios, Vidya Nagar, Nalanchira, Trivandrum, Kerala- 695015.

**Anil P. Antony**  
**Administrator, SEIAA**  
**For Member Secretary, SEIAA**

To,

Mr.R.AnilKumar,  
Authorized Signatory,  
M/s Dragonstone Realty Pvt. Ltd.,  
B Hub, Mar Ivanios,  
Vidya Nagar, Nalanchira,  
Trivandrum, Kerala- 695015



Copy to:

1. MoEF Regional Office, Southern Zone, KendriyaSadan, 4<sup>th</sup> Floor, E&F Wing, II Block, Koramangala, Bangalore-560034.(through e-mail: rosz.bng-mefcc@gov.in)
2. The Principal Secretary to Government, Environment Department
3. The Director, Directorate of Environment & Climate Change, 4th Floor KSRTC Bus Terminal, Thampanoor, Thiruvananthapuram, Kerala 695001
4. The Principal Secretary to Government, Environment Department
5. The District Collector, Thiruvananthapuram
6. The District Town Planner, Thiruvananthapuram
7. The Tahsildhar, Thiruvananthapuram Taluk, Thiruvananthapuram District
8. The Member Secretary, Kerala State Pollution Control Board
9. The Secretary, Attipara Village Office, Sreekariyam Kazhakuttam Road, Manvila Industrial Estate, Manvila, Thiruvananthapuram -695001.
10. Chairman, SEIAA, Kerala
11. Website
12. Stock file
13. O/c

**STATE ENVIRONMENT IMPACT ASSESSMENT AUTHORITY (SEIAA),  
KERALA**

**GENERAL CONDITIONS FOR PROJECTS OTHER THAN MINING**

1. The proponent should provide notarized affidavit indicating the number and date of Environmental Clearance proceedings that all the conditions stipulated in the EC shall be scrupulously followed.
2. 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 on the website of SEIAA [www.seiaakerala.in](http://www.seiaakerala.in). The advertisement should be made within 10 days from the date of receipt of the Clearance letter and a copy of the same signed in all pages should be forwarded to the office of this Authority as confirmation.
3. The proponent shall send a copy of the clearance letter to the concerned Grama Panchayath/District Panchayath/Municipality/Corporation/Urban Local Body and also to the local NGO, if any, from whom suggestions/representations, if any, were received while processing the proposal. The Environmental Clearance shall also be uploaded on the website of the company.
4. The details of Environmental Clearance should be prominently displayed in a metallic board of 3 ft x 3 ft with green background and yellow letters of Times New Roman font of size of not less than 40.
5. Consent to Establish and Consent to Operate from Kerala State Pollution Control Board under Water and Air Act(s) should be obtained before initiating activity. All other statutory clearances should be obtained, as applicable, by project proponents from the respective competent authorities including that for blasting and storage of explosives. Copies of statutory clearance obtained shall be enclosed along with first half yearly compliance report.
6. If blasting is involved in the preparation of site, the required clearances from the competent authorities should be obtained.
7. The stipulations/conditions issued by Statutory Authorities under different Acts and Notifications should be complied with, including 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, Solid Waste Management Rules,2016 Plastic Waste Management and Handling Rules, 2016, Construction and Demolition Waste Management Rules 2016, the Public Liability (Insurance) Act, 1991 and EIA Notification, 2006.

8. The conditions specified in the EIA notifications 2006 and subsequent amendments, the specific directions given by SEIAA/SEAC should be followed under corporate Environment Responsibility. The activities carried out under CER should be listed with details in Half yearly compliance report along with Status of Implementation and certificates from the beneficiaries and photographs.
9. Safety measures should be implemented as per the Fire and Safety Regulations/SDMA guidelines.
10. The environmental safeguards contained in the EIA Report should be implemented in letter and spirit and status of implementation of each one should be included in the half yearly compliance Report.
11. Environment Monitoring Committee as agreed under the affidavit filed by the proponent should be formed and made functional. Environmental Monitoring Committee with defined functions and responsibility should foresee post operational environmental problems (Eg. development of slums near the site, increase in traffic congestion, power failure, increase in noise level, natural calamities, and increase in suspended particulate matter etc.) and action taken to solve these immediately with mitigation measures
12. Suitable avenue trees should be planted on either side of approach road and internal roads and open parking areas, if any. The proponent should plant trees at least 5 times of the loss of trees that has occurred while clearing the land for the project. The native flowering and fruiting species only shall be used for planting and planning should be done considering the nature of public use.
13. The project shall incorporate devices for solar energy generation and utilization to the maximum possible extent with the possibility of contributing the same to the power grid and consumption in future.
14. The proponent shall submit half yearly compliance reports on the status of compliance of the stipulated EC conditions including results of monitored data (both in hard copies as well as by e-mail) and upload the same on their website and shall update the same periodically. The



compliance report shall be simultaneously sent to the Regional Office of Ministry of Environment, Forests and Climate Change, Govt. of India at Bengaluru and also to SEIAA.

15. The project proponent is responsible for implementing all the provisions of labour laws applicable from time to time. Provision should be made for providing cooking facilities and supply of kerosene or cooking gas to the labourers.
16. The proponent shall co-operate with and provide facilities and documents/data to the Agencies including the Officials from the Regional of Ministry of Environment, Forests and Climate Change, Bengaluru during their inspection as part of monitoring the implementation of environmental safeguards.
17. In the case of any change(s) in the scope of the project, the project would require a fresh appraisal by this Authority.
18. In case of transfer of EC, the matter shall be intimated and approval from the Authority shall be obtained as per the existing norms.
19. Environmental Clearance is subject to final order of the Hon'ble Supreme Court of India in the matter of Goa Foundation Vs. Union of India in Writ Petition (Civil) No.460 of 2004 as may be applicable to this project.
20. The Authority 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 Environment (Protection) Act 1986, to ensure effective implementation of the suggested safeguard measures in a time bound and satisfactory manner.
21. Any appeal against this Environmental Clearance shall lie with the National Green Tribunal 1, if preferred, within a period of 30 days as prescribed under section 11 of the National Green Tribunal Act, 1997.

#### **General Conditions specific to Construction Phase**

1. All statutory permissions including "Consent for Establishment" to STP/ETP, Solid waste management plant, Power Generator etc shall be obtained from Kerala State Pollution Control Board under Air Act and Water Act and Environment ( Protection) Act. A copy shall be submitted to the Ministry/SEIAA before start of any construction work at the site.
2. The approval of the competent authority shall be obtained for structural safety of the buildings due to earthquake, adequacy of fire fighting equipments, etc. as per National Building Code including protection measures from lightning etc. Building constructed in the

runout area of landslide / rock fall area, shall be provided with suitable structures/ measures to prevent earth materials to hit the structure.

3. All required sanitary and hygienic measures should be in place before starting construction activities which are to be maintained throughout the construction phase.
4. A First Aid Room shall be provided at the project site both during construction and operation phases of the project.
5. Provide safe and healthy basic facilities for construction workers as per the Building & Other Construction Workers (Regulation of Employment and Conditions of Service) Act, 1996
6. Adequate drinking water and sanitary facilities should be provided for construction workers at the site, Provision should be made for mobile toilets. Safe disposal of wastewater and solid wastes generated including piling debris during the construction phase should be ensured.
7. Unless provided otherwise, all the topsoil excavated during construction phase should be stored and re-used for backfilling/ horticulture/landscaping purposes within the project site.
8. Top soil excavated should not be used for reclaiming wetlands.
9. The muck shall be disposed of only at approved sites with the approval of competent authority. The disposal should not create any adverse effect on the neighbouring communities and should be disposed taking necessary precautions for general safety and health of the public. Proof regarding the same shall be enclosed with the respective six monthly compliance reports.
10. Construction spoils, including bituminous material and other hazardous materials, must not be allowed to contaminate watercourses and the dump sites for such materials must be secured so that they will not leach into the ground water.
11. Any hazardous waste generated during construction phase, should be disposed off to authorised/approved Waste Collectors as per applicable rules and norms with necessary approval of the Kerala State Pollution Control Board.
12. Soil and ground water samples shall be tested to ascertain that there is no threat to ground water quality by leaching of heavy metals and other toxic contaminants.
13. Storm water control and its re-use measures as per CGWB and BIS standards shall be followed for various applications.
14. 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 the applicable air and noise



emission standards and should be operated only during non-peak hours. During the transportation of building materials/products, the vehicles shall be covered with suitable materials to prevent dust pollution.

15. Ambient noise levels should conform to residential standards both during day and night. Incremental pollution loads on the ambient air and noise quality should be closely monitored during construction phase. Adequate measures should be taken to reduce ambient air and noise level during construction phase, so as to conform to the stipulated standards by CPCB/KSPCB.
16. The diesel generator sets used during construction phase should be of low sulphur diesel type and should conform to Environment (Protection) Rules prescribed for air and noise emission standards. The diesel required for operating DG sets shall be stored in underground tanks and if required, clearance from Chief Controller of Explosives shall be taken. DG sets shall be installed and made functional as per guidelines of KSPCB.
17. Ready mixed concrete must be used in building construction. Water demand during construction should be reduced by use of pre-mixed concrete, curing agents and other best practices referred.
18. Permission to draw ground water shall be obtained from the competent Authority prior to construction/operation of the project.
19. Separate dual plumbing line should be provided; one line for Toilet Flushing / Gardening / Vehicle wash and another separate line for other domestic uses, for ensuring reuse / recycle of treated waste water to the maximum extent possible.
20. Separation of grey and black water should be done by the use of dual plumbing line for separation of grey and black water.
21. 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.
22. Water efficient plumbing features should be adopted
23. Use of glass may be reduced by 40% to reduce the electricity consumption and load on air conditioning. If necessary, use high quality double glass with special reflective coating on windows.
24. Design of the building should be in compliance to Energy Building Code as applicable

25. Roof should meet perspective requirement as per Energy Conservation Building Code by using appropriate thermal insulation material to fulfill the requirement.
26. Opaque wall should meet perspective requirement as per energy Conservation Building Code which is proposed to be mandatory for all air conditioned spaces while it is optional for non-airconditioned spaces by use of appropriate thermal insulation material to fulfill requirement
27. Climate responsive design as per Green Building Guidelines in practice should be adopted
28. Building design should cater to the differently-abled citizens
29. Vegetation should be adopted appropriately on the ground as well as over built structure such as roofs, basements, podiums etc.
30. Exposed roof area and covered parking should be covered with material having high solar reflective index
31. Regular supervision of the above and other measures should be in place all throughout the construction phase, so as to avoid disturbance to the surroundings.
32. Fly ash should be used as building material in construction as per the provisions of Fly Ash Notification of September, 1999 and Amended as on 27<sup>th</sup> August 2003. (Applicable to Power Stations).
33. 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 the statutory clearances.

**General Conditions specific to operation phase**

1. The buildings should have adequate distance between them to allow movement of fresh air and passage of natural light and ventilation.
2. Sewage Treatment Plant (STP) should be installed and made functional as per KSPCB guidelines. On/site Treatment of Sewage and Sullage should be done with scientific method ,ensuring efficiency of treatment, ease in operation , sustainability and it should contain the units of primary, secondary, tertiary and quaternary type of treatment scheme. The installation of the STP should be certified by an independent expert and a report in this regard should be submitted to the Ministry/SEIAA before the project is commissioned for operation. Treated effluent emanating from STP shall be recycled / reused to the maximum extent possible. Treatment of 100% grey water shall be done through a decentralized treatment. Reuse of water shall be practiced for flushing process and garden purposes. Discharge of



unused treated effluent shall conform to the norms and standards of the Kerala State Pollution Control Board. Necessary measures should be taken to mitigate the odour problem from STP.

3. Solid waste management plant shall be installed and made functional as per the guidelines of KSPCB. 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. Adequate measures should be taken to prevent odour problem from solid waste processing plant and STP.
4. Provide adequate Material Collection Facility (MCF) for storage of non-biodegradable waste including plastic waste and E waste, for handing over the same to Recyclers/ Local Body , as stipulated by Kerala State Pollution Control Board.
5. 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.
6. Low sulphur diesel shall be used as fuel in DG sets. The location of the DG sets may be decided in consultation with Kerala State pollution Control Board. DG sets should not be housed in sub basement levels.
7. 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.
8. The green belt of adequate width and density shall be raised preferably with local species along the periphery of the project site so as to provide protection against particulate matter and noise.
9. Weep holes shall be provided in the compound walls to ensure natural drainage of rain water during the monsoon period.
10. Rain Water Harvesting structures should be installed as per the prevailing provisions of KMBR/KPBR, unless otherwise specified elsewhere. Rain water harvesting measures for roof run-off and surface run-off, as per approved building plan 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 m above the highest ground water table.

11. The ground water level and its quality should be monitored regularly in consultation with State Groundwater Department/Central Ground Water Authority.
  12. Traffic congestion near the entry and exit points from the roads adjoining the project site must be avoided. Parking should be fully internalized and no public space should be utilized.
  13. A Report on the energy conservation measures, conforming to energy conservation norms issued by Bureau of Energy Efficiency, should be prepared incorporating details about building materials & technology, R & U Factors etc and submit to the Ministry in three months time.
  14. Energy conservation measures like installation of LED /CFLs/TFLs for the lighting the areas outside the building should be an integral part of the project design and should be in place before project commissioning. Used LED/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. Solar panels may be used to the extent possible.
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# ANNEXURE 5







# ANNEXURE 6



**Dragonstone Realty Private Limited**

Registered Office: B'Hub,  
Cardinal Cleemis Centre for Innovation,  
Mar Ivanios Vidya Nagar, Nalanchira,  
Trivandrum 695015  
Landline: 799 444 80 60  
W: www.tihholdings.in  
CIN: U45201KL2015FTC038988

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Ref: TIH/DRPL/ZEN/MOEF/CR/004

09<sup>th</sup> November 2021

To

The Additional Principal Chief Conservator of Forests (C)  
The Ministry of Environment, Forests & Climate Change - Regional Office (Southern Zone)  
4th Floor, E&F Wings Kendriya Sadan, 17th Main Road  
2nd Block, Koramangala, Bangalore – 560 034

Sub: Submission of Six Monthly Condition Wise Compliance Report for the Period from 01/04/2021 to 30/09/2021 in respect to Construction of our Commercial cum Office complex at Technopark Phase – 3 campus in (Non-SEZ) Sy. Nos 290/2(part), 290/3(part) & others, Village Attipara, Taluk & District Thiruvananthapuram, Kerala.

Ref: File No.SIA/KL/MIS/52546/2018, 1202/EC2/2018/SEIAA dated 6<sup>th</sup> March 2021, Environment Clearance No. 17/2021

Dear Sir,

Please find enclosed herewith the point wise compliance of the condition stipulated in the Environment Clearances as mentioned above.

We hope you find the same in order

Thanking you,

Yours faithfully,  
For Dragonstone Realty Pvt Ltd

Authorized Signatory

Encl: as above



PROPOSED COMMERCIAL CUM OFFICE COMPLEX PROJECT AT TECHNOPARK PHASE-3 CAMPUS IN (NON-SEZ PLOT) SY. NOS. 290/2(PART), 290/3(PART) & OTHERS, VILLAGE ATTIPRA, TALUK & DISTRICT THIRUVANANTHAPURAM, KERALA BY M/S DRAGONSTONE REALTY PRIVATE LIMITED

**PART A — SPECIFIC CONDITIONS:**

S. No.	Conditions	Compliances
1	The project proponent shall obtain all necessary clearance/ permission from all relevant agencies including town planning authority before commencement of work.	All clearance / permission for all relevant agencies have been received for commencement of work
2	Consent to Establish/Operate for the project shall be obtained from the State Pollution Control Board as required under the Air (Prevention and Control of Pollution) Act, 1981 and the Water (Prevention and Control of Pollution) Act, 1974	The project has submitted all the relevant documents and the fee for getting the Consent to Establish and is awaiting for the same
3	The approval of the Competent Authority shall be obtained for structural safety of buildings due to earthquakes, adequacy of firefighting equipment etc as per National Building Code including protection measures from lightening etc	Shall be provided post completion of the project construction
<b>Topography and natural Drainage</b>		
4	The natural drain system should be maintained for ensuring unrestricted flow of water. No construction shall be allowed to obstruct the natural drainage through the site, on wetland and water bodies. Check dams, bio-swales, landscape, and other sustainable urban drainage systems (SUDS) are allowed for maintaining the drainage pattern and to harvest rainwater.	The site is being planned such that the natural drain system will be maintained to ensure unrestricted flow of water and there is no obstruction to the flow of water. In addition storm water channels/trenches will be provided throughout the site to ensure that when the storm water runs off from site it does not carry away the soil along with it.
<b>Water requirement, Conservation, rainwater Harvesting, and Ground Water Recharge</b>		
5	Water requirement – as proposed the fresh water requirement from Kerala Water Authority/Rain water shall not exceed 174 KLD	The project will be installing a Sewage treatment plant (STP) to treat 100% of the waste water from the building. This treated water from STP shall then be reused for flushing, irrigation and cooling tower make up water requirements thereby reducing the fresh water/potable water requirement for the project significantly. Only the water for domestic uses which is estimated to be around 131 KLD will be potable water. Even this will be

		further minimized by reuse of collected rain water to thereby ensure that the fresh water requirement from KWA does not exceed 174 KLD.
6	A certificate shall be obtained from the local body supplying water, specifying the total annual water availability with the local authority, the quantity of water already committed the quantity of water allotted to the project under consideration and the balance water available. This should be specified separately for ground water and surface water sources, ensuring that there is no impact on other users.	The project is coming up as part of the larger Technopark development. As per the arrangement with Technopark, they will be supplying water for the project based on the agreement. Relevant certificate for the same shall be provided by Technopark
7	The quantity of freshwater usage, water recycling and rainwater harvesting shall be measured and recorded to monitor the water balance as projected by the project proponent. The record shall be submitted to the Regional Office, MoEF & CC along with six monthly Monitoring reports	Water meters shall be provided to monitor the water consumption post completion of the building. During the construction process the project shall use rain water collected onsite or water supplied by KWA for construction purposes. The quantity of this water shall be tracked by contractors. Currently the project is in the excavation stage only and hence there is very minimal water requirement. As the project construction progresses, it will track the water requirement and submit the same along with the six monthly reports. To start with onsite the project has also tested the existing water sample from the open well to ascertain the water quality. Attached is the test report from the NABL accredited 3rd party testing agency for reference. <b>ANNEXURE 01- Test report on water quality</b>
8	At least 20% of the open spaces as required by the local building bye-laws shall be pervious. Use of Grass pavers, paver blocks with at least 50% opening, landscape etc. would be considered as pervious surface	The project is providing open space area as required and in addition will be providing grass pavers in the external areas to increase pervious areas and reduce storm water runoffs. Please refer to the landscaping plans for details of the same
9 & 11	Installation of dual pipe plumbing for supplying fresh water for drinking, cooking and bathing etc and other for supply of recycled water for flushing, landscape irrigation, car washing, thermal cooling, conditioning etc. shall be done	Project has considered dual pipe plumbing system to enable reuse of treated water for flushing, cooling tower makeup and landscaping purposes separately and fresh water for drinking, cooking, bathing and other contact purposes in line with the requirements. This is to reduce the potable water requirement for the project.
10	Use of water saving devices/ fixtures (viz. low flow flushing systems; use of	Project has proposed to use the low flow water fixtures as per the green building requirement.



	low flow faucets tap aerators etc) for water conservation shall be incorporated in the building plan.	Dual flush water closets 4.2/ 2.1 litres, low flow water fixtures including kitchen faucet at 4 LPM, Lavatory faucet at 2.5 LPM, urinal at 1.15 LPF. The effort is to reduce the water use by over 30% in comparison to conventional buildings
12	Water consumption during construction.	It is proposed to reduce the water demand during construction by use of pre-mixed concrete, curing agents and other best practices. In addition the project shall use collected rain water, treated water or water supplied by KWA to reduce the potable/ground water use during construction
13	The local bye-law provisions on rain water harvesting should be followed. If local bye-law provision is not available, adequate provision for storage and recharge should be followed as per the Ministry of Urban Development Model Building Byelaws, 2016.	Project has considered the rainwater harvesting tank of 200 KLD to harvest the storm water runoff at site. The entire roof run off as well as the surface runoff is harvested in the tank which can then be reused for various purposes. In addition recharge pits shall be provided on the periphery of the site to recharge the excess runoff into the aquifers
14	As proposed, no ground water shall be used during construction/ operation phase of the project.	The project will only be using collected rain water and water supplied by KWA for construction purposes and confirms that no ground water will be used during the construction as well as operation phase of the project
15	Any ground water dewatering should be properly managed and shall conform to the approvals and the guidelines of the CGWA in the matter.	Yes. The project shall ensure that any ground water dewatering if done shall conform to the approval and guidelines of CGWA
<b>Solid Waste Management</b>		
16	The provisions of the Solid Waste (Management) Rules, 2016, e-Waste (Management) Rules, 2016, and the Plastics Waste (Management) Rules, 2016 shall be followed.	Yes the project confirms that it shall be following the same
17	Disposal of muck during construction phase shall not create any adverse effect on the neighboring communities and be disposed taking the necessary precautions for general safety and health aspects of people, only in approved sites with the approval of competent authority.	The project shall be reusing all the excavated soil back for filling and levelling purposes. In addition the project is also providing storm water trenches onsite to capture any soil that is washed away by rain so that no soil leaves the site. Moreover the vehicles leaving the site shall have their wheels washed to ensure no muck it taken through the wheels into the neighbouring communities. All construction debris including the muck if to be disposed shall be taken out by the contractor and disposed safely in approved site only



18	Separate wet and dry bins must be provided in each unit and at the ground level for facilitating segregation of waste.	Project has proposed to dedicate separate area for solid waste management within the premises, which will include the area for waste collection and segregation. This area shall have bins for segregating paper, plastic, metals, cardboard and glass. In addition the wet waste shall be separated and using onsite waste converter units shall be converted to manure which will then be reused in the landscaping
19	Any hazardous waste generated during construction phase, shall be disposed off as per applicable rules and norms with necessary approvals of the State Pollution Control Board.	The effort in this project has been firstly to minimize the amount of waste generated by careful resource planning, factory manufacturing of most products etc. Additionally whatever waste is generated onsite is also being recycled /reused thereby diverting it away from landfills and dump yards. Any hazardous waste will be segregated and disposed off as per applicable CPCB norms.
20	A certificate from the competent authority handling municipal solid wastes, indicating the existing civic capacities of handling and their adequacy to cater to the M.S.W. generated from project shall be obtained.	Shall be obtained at the stage of completion of the project
<b>Sewage Treatment</b>		
21	Sewage shall be treated in the STP based on MBBR Technology with tertiary treatment i.e. Ultra Filtration. The treated effluent from STP shall be recycled/re-used for flushing, gardening, HVAC Cooling. As proposed, no treated water shall be discharged to Municipal drain.	A Sewage Treatment Plant (STP) with MBBR technology has been proposed for treatment of 100% of waste water onsite and no untreated water shall leave the site. This treated water shall be 100% reused for flushing, landscape irrigation and cooling tower make up purposes as mentioned. The capacity of the STP for (Mall + Parking) shall be 337 cum and the project confirms that 100% of the sewage will be treated to tertiary standards and reused onsite
22	The project/activity shall be dove tailed with the sewerage collection and disposal facilities to be created by the Municipal Corporation/Competent State Authorities so that all sewage generated in the construction and operation phases is disposed accordingly. Necessary permission from the Municipal Authority shall be obtained.	The project ensure that the same is done and the necessary permission for the same shall be obtained
23	No sewage or untreated effluent water would be discharged through storm water drains.	100% of the Waste water onsite shall be treated and reused on site. This treated was shall be reused for flushing, Irrigation and Cooling tower make up water requirements.

		We confirm that no sewage or untreated effluent water shall be discharged from site.
24	The installation of the Sewage Treatment Plant (STP) shall be certified by an independent expert and a report in this regard shall be submitted to the Ministry before the project is commissioned for operation.	Yes the same shall be provided. Once the STP has been installed it shall be certified by an independent expert and the same shall be provided at the end of completion of the project
25	Sludge from the onsite sewage treatment, including septic tanks, shall be collected, conveyed and disposed as per the Ministry of Urban Development, Central Public Health and Environmental Engineering Organization (CPHEEO) Manual on Sewerage and Sewage Treatment Systems, 2013	Yes the same shall be taken care of in line with CPHEEO norms once the STP has been installed on site and becomes operational
<b>Energy</b>		
26	Compliance with the Energy Conservation Building Code (ECBC) of Bureau of Energy Efficiency shall be ensured. Buildings in the States which have notified their own ECBC, shall comply with the State ECBC. Outdoor and common area lighting shall be LED. Concept of passive solar design that minimize energy consumption in buildings by using design elements, such as building orientation, landscaping, efficient building envelope, appropriate fenestration, increased day lighting design and thermal mass etc. shall be incorporated in the building design. Wall, window, and roof u-values shall be as per ECBC specifications.	The project confirms that its design and specifications are in compliance with ECBC code as well as the ASHRAE 90.1-2010 standard. has been ensured in design. The project is also pursuing the LEED BD+C New construction rating and inline with both ECBC and LEED norms has considered as part of its design - passive solar strategies such as building orientation, shading, appropriate fenestration to harvest maximum natural lighting while minimizing the overall energy consumption. In addition the project is going for high performance glazing, high efficiency HVAC and electrical systems to bring down the energy demand of the building have been planned. The project shall take the energy simulation Whole building performance approach in ECBC as well as the Performance rating method as per ASHRAE 90.1-2010 standard. The project confirms that it meets the ECBC requirements
27	Energy conservation measures like installation of CFLs/ LED for the lighting the area outside the building should be integral part of the project design and should be in place before project commissioning. Used CFLs, TFL and LED shall be properly collected and disposed off/sent for recycling as per the prevailing guidelines/rules of the regulatory authority to avoid mercury contamination.	Yes the project will be implementing several energy conservation measures including LEDs for external lighting and common area lightings and will have in place a program for recycling of the LEDs to avoid any mercury contamination as per the prevailing norms



28	Solar, wind or other Renewable Energy shall be installed to meet electricity generation equivalent to 1% of the demand load or as per the state level/ local building bye-laws requirement, whichever is higher. Follow super ECBC requirement of ECBC 2017 and provide compliance report.	Solar Photovoltaic system of 448 KW is proposed onsite which is approximately 6.7% of the total demand load. This solar power shall be used for common area lighting, external lighting and other loads onsite.
29	Solar power shall be used for lighting in the apartment to reduce the power load on grid. Separate electric meter shall be installed for solar power. Solar water heating shall be provided to meet 20% of the hot water demand of the commercial and institutional building or as per the requirement of the local building bye-laws, whichever is higher. Residential buildings are also recommended to meet its hot water demand from solar water heaters, as far as possible	Yes the onsite solar PV panels provided will be used for common area lighting and separate metering for solar shall also be installed. In addition the project has planned to provide 4000 litres of solar hot water systems catering to more than 20% of the hot water requirement in the commercial building
30	Use of environment friendly materials in bricks, blocks and other construction materials, shall be required for at least 20% of the construction material quantity. These include Fly Ash bricks, hollow bricks, AACs, Fly Ash Lime Gypsum blocks, Compressed earth blocks, and other environment friendly materials. Fly ash should be used as building material in the construction as per the provision of Fly Ash Notification of September, 1999 and amended as on 27th August, 2003 and 25th January, 2016. Ready mixed concrete must be used in building construction	In line with green building requirement environment friendly materials are used i.e., which has good amount of recycled content in it, such as cement with fly ash, bricks / blocks with fly ash content up to 70% and glass with recycled content. In additional to that construction materials which is manufactured locally has given preference to reduce the impact on environment due to transportation.
31	A certificate of adequacy of available power from the agency supplying power to the project along with the load allowed for the project shall be submitted.	The project is coming up as part of the larger Technopark development. As per the arrangement with Technopark, they will be supplying adequate power for the project based on the agreement and the requirement. Relevant certificate for the same shall be provided by Technopark
<b>Air Quality and Noise</b>		
32	Construction site shall be adequately barricaded before the construction begins. Dust, smoke & other air pollution prevention measures shall be provided for the building as well as the site. These measures shall include	Yes all these measures have been implemented on site. The project has adequately barricaded the entire site with 3m height barricades. Various dust, smoke & other air pollution prevention measures such as spraying water regularly on site, dust screens, covering

	<p>screens for the building under construction, continuous dust/ wind breaking walls all around the site (at least 3 meter height). Plastic/tarpaulin sheet covers shall be provided for vehicles bringing in sand, cement, murrum and other construction materials prone to causing dust pollution at the site as well as taking out debris from the site. Sand, murrum, loose soil, cement, stored on site shall be covered adequately so as to prevent dust pollution. Wet jet shall be provided for grinding and stone cutting. Unpaved surfaces and loose soil shall be adequately sprinkled with water to suppress dust.</p>	<p>vehicles bringing various materials with tarpaulin sheets, temporary vegetation, wheel washing etc. has been done to control dust onsite. shall be provided for the building as well as the site.</p>
33	<p>All construction and demolition debris shall be stored at the site (and not dumped on the roads or open spaces outside) before they are properly disposed. All demolition and construction waste shall be managed as per the provisions of the Construction and Demolition Waste Rules, 2016. All workers working at the construction site and involved in loading, unloading, carriage of construction material and construction debris or working in any area with dust pollution shall be provided with dust mask.</p>	<p>The project is implementing a detailed construction waste management plan in line with these requirements and LEED norms. The project will ensure that all construction debris will be segregated and stored at the site before they are properly recycled/reused and or diverted. The project confirms that the same will not be dumped on the roads or open spaces outside</p>
34 & 35	<p>The diesel generator sets to be used during construction phase shall be low sulphur diesel type and shall conform to Environmental (Protection) prescribed for air and noise emission standards. (xxxv)</p> <p>The gaseous emissions from DG set shall be dispersed through adequate stack height as per CPCB standards. Acoustic enclosure shall be provided to the DG sets to mitigate the noise pollution. Low sulphur diesel shall be used. The location of the DG set and exhaust pipe height shall be as per the provisions of the Central Pollution Control Board (CPCB) norms.</p>	<p>The project confirms that the DG sets used during construction complies with CPCB norms and is of low sulphur diesel type. Necessary certificates of the same are available onsite, Moreover the project confirms that gaseous emissions from DG set shall be dispersed through adequate stack height as per CPCB standards</p>
36	<p>Indoor air quality the ventilation provisions as per National Building Code of India.</p>	<p>As per green building requirement the project will adhere to the ventilation requirements as</p>



		per ASHRAE 62.1.2010 standard and NBC norms as applicable
37	<p>Ambient noise levels shall conform to Commercial Standard both during day and night as per Noise Pollution (Control and Regulation) Rules, 2000.</p> <p>Incremental pollution loads on the ambient air and noise quality shall be closely monitored during construction phase. Adequate measures shall be made to reduce ambient air and noise level during construction phase, so as to conform to the stipulated standards by CPCB / SPCB</p>	<p>Ambient noise levels were measured onsite are in line with the Commercial Standard both during day and night as per Noise Pollution (Control and Regulation) Rules, 2000. During the entire site construction activity till date onsite, the ambient noise levels have been closely monitored by the project to ensure that the confirm to the stipulated standards by CPCB/SPCB. And whenever there were any instances when the noise levels exceeded the standards even marginally, suitable corrective action was taken onsite. We are enclosing the latest set of noise measurements that were taken onsite in Dec 2019 by an NABL accredited 3<sup>rd</sup> party testing agency for reference. Please refer to <b>ANNEXURE 02 -Test report on Noise Levels.</b></p>
38	<p>A management plan shall be drawn up and implemented to contain the current exceedance in ambient air quality at the site.</p>	<p>A plan has been put in place listing the various measures that have to be implemented to ensure that the air quality at the site is within acceptable limits. The project has also taken regular measurements on site on the ambient air quality to ensure that the same is within the limits as stipulated under the NAAQ standard. We are attaching herewith the report on are the various parameters measured at site by the NABL 3<sup>rd</sup> party accredited testing agency. Based on the report, it can be observed that Particulate matter (PM<sub>10</sub>, PM<sub>2.5</sub>), Sulphur dioxide, Nitrogen dioxide are all within the limits prescribed by National Ambient Air Quality Standard. Please refer to <b>Annexure 3 – Test report on Ambient Air quality.</b></p> <p>The project will continue to regularly measure its ambient air quality and ensure that the same is always in line with the NAAQ standard requirements until the construction activities are complete.</p>
<b>Green Cover</b>		
39	<p>No tree can be felled/transplant unless exigencies demand. Where absolutely necessary, tree felling shall be with prior permission from the Tree Authority constituted as per the Kerala Preservation of Trees Act, 1986 (Act 35 of</p>	<p>The project has planned the design of the entire site in a sustainable manner. There are landscaped areas that have been identified right from the initial stage of design and the same will be implemented at the end of the construction period. There were no existing</p>



	1986). Old trees should be retained based on girth and age regulations as may be prescribed by the Forest Department. Plantations to be ensured species (cut) to species (planted).	trees on site in the phase 1 development as it can be seen in the survey plans. However in line with the sustainability commitment the project will now plan landscaping and trees in line with the requirements and also ensure that the entire species of landscaping to be native and adaptive species which are drought tolerant and require minimal water
40	A minimum of 1 tree for every 80 sqm of land should be planted and maintained. The existing trees will be counted for this purpose. The landscape planning should include plantation of native species. The species with heavy foliage, broad leaves and wide canopy cover are desirable. Water intensive and/or invasive species should not be used for landscaping. Where the trees need to be cut with prior permission from the concerned local Authority, compensatory plantation in the ratio of 1:10 (i.e. planting of 10 trees for every 1 tree that is cut) shall be done and maintained. Plantations to be ensured species (cut) to species (planted). As proposed 5,906 sqm area shall be provided for green area development.	The project confirms that it will plan 1 tree for every 80 sqm as per the requirement. The species of these trees shall be native/ adaptive type and with broad canopy to provide shading and reduce urban heat islands. However given the minimal space available in the phase 1 of the development in case all these trees cannot be located on site, the project will plan the planting of these trees along the areas adjoining the site boundary and access roads to ensure that 1 tree for every 80 sqm is provided.
41	<b>Top Soil preservation and Reuse</b> - Topsoil should be stripped to a depth of 20 cm from the areas proposed for buildings, roads, paved areas, and external services. It should be stockpiled appropriately in designated areas and reapplied during plantation of the proposed vegetation on site.	Project has conducted a soil fertility test to ascertain the quality of the top 20 cm of the soil and it has been found that the soil is not worthy of reuse for landscaping. Hence the soil is being reused for filling and other purposes onsite. The project confirms that it will not send any soil outside of the site.
<b>Transport</b>		
42	A comprehensive mobility plan, as per MoUD best practices guidelines (URDPFI), shall be prepared to include motorized, non-motorized, public, and private networks. Road should be designed with due consideration for environment, and safety of users. The road system can be designed with these basic criteria. <ul style="list-style-type: none"> <li>• Hierarchy of roads with proper segregation of vehicular and pedestrian traffic.</li> <li>• Traffic calming measures</li> </ul>	The project has prepared a detailed traffic study plan as per the MoUD guidelines and other international norms. It confirms that it shall ensure that same has been planned with due consideration for environment and safety of users



	<ul style="list-style-type: none"> <li>• Proper design of entry and exit points.</li> <li>• Parking norms as per local regulation</li> </ul>	
43	<p>A detailed traffic management and traffic decongestion plan shall be drawn up to ensure that the current level of service of the roads within a 02 kms radius of the project is maintained and improved upon after the implementation of the project. This plan should be based on cumulative impact of all development and increased habitation being carried out or proposed to be carried out by the project or other agencies in this 02 Kms radius of the site in different scenarios of space and time and the traffic management plan shall be duly validated and certified by the State Urban Development department and the P.W.D. / competent authority for road augmentation and shall also have their consent to the implementation of components of the plan which involve the participation of these departments.</p>	<p>The same has been prepared by the project to ensure that there is no traffic congestion and the same shall be duly validated by the State Urban Development department and the P.W.D. / competent authority for road augmentation.</p>
44	<p>Vehicles hired for bringing construction material to the site should be in good condition and should have a pollution check certificate and should conform to applicable air and noise emission standards be operated only during nonpeak hours.</p>	<p>The same is being followed onsite and the project will ensure that the vehicles conform to the air and noise emission standards</p>
<b>Environment management Plan</b>		
45	<p>An environmental management plan (EMP) as prepared and submitted along with the Form-1/1A shall be implemented to ensure compliance with the environmental conditions specified above. A dedicated Environment Monitoring Cell with defined functions and responsibility shall be put in place to implement the EMP. The environmental cell shall ensure that the environment infrastructure like Sewage Treatment Plant, Landscaping, Rain Water Harvesting, Energy efficiency and conservation, water efficiency and conservation, solid waste management, renewable energy etc. are kept operational and meet the required standards. The environmental cell shall</p>	<p>As required by MOEF the project has developed this detailed environmental management plan (EMP) to demonstrate compliance with the various environmental conditions as specified in the approval. Also a dedicated Environment Monitoring Cell has been put in place to implement this EMP. The environmental cell meets at regular frequency and is ensuring that the environmental management plan is closely implemented in the project and shall also keep the record of these activities on an ongoing basis on site.</p>



	also keep the record of environment monitoring and those related to the environment infrastructure.	
<b>OTHERS</b>		
46	Provisions shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, creche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.	Provision outside the site has been made for the housing of construction workers and all the necessary infrastructure including fuel for cooking, toilets, mobile STP, safe drinking water, medical care, creche etc. have been provided
47	A First Aid Room shall be provided in the project both during construction and operations of the project.	First aid room has been provided onsite as required
48	The company shall draw up and implement corporate social Responsibility plan as per the Company's Act of 2013.	The project shall implement corporate social Responsibility requirement as per Company's Act of 2013 in due course of the project
49	As per the Ministry's Office Memorandum F.No. 22-65/2017-IA.III dated 1 <sup>st</sup> May 2018, and proposed by the project proponent, an amount of Rs. 5.4 Crore (@1.0% of project Cost) shall be earmarked under Corporate Environment Responsibility (CER) for the activities such as Waste Management, Promotion of Education, Healthcare, Water Conservation, Infrastructural Development etc. The activities proposed under CER shall be restricted to the affected area around the project. The entire activities proposed under the CER shall be treated as project and shall be monitored. The monitoring report shall be submitted to the regional office as a part of half yearly compliance report, and to the District Collector. It should be posted on the website of the project proponent	The project is currently planning on implementing few corporate environment responsibility (CER) measures such as Rain Water Harvesting, Waste management, Infrastructure development of retaining walls as required, soft landscaping for the rejuvenation of Thettiyyar and other activities such as education and basic healthcare awareness creation in the neighbourhood. The project will be implementing these measures in the coming months and shall also provide required reports of these activities from time to time

Note: All activities on site were stopped from 20 March 2020 due to COVID 19 lockdown.




**ANNEXURE 1 : WATER TEST REPORT**

**Standard<sup>S</sup>**  
Environmental Monitoring

**TEST REPORT**



Test Report No:TC540219000004372F	Date: 28.12.2019	Page 1 of 1
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CUSTOMER DETAILS			
Customer Details	Name & Address	M/s Dragonstone Realty Pvt. Ltd. Technopark Phase-3 Campus, Attipra, Thiruvananthapuram District.	
Location of Site	Re - Survey No	290/2 part, 290/3 part, 290/4 part, 290/5 part, 290/6 & others,	
	Village	Attipra	
	Taluk	Thiruvananthapuram	
	District	Thiruvananthapuram	
	State	Kerala	
Customer Reference	Test Request form dated 14.01.2020		
SAMPLE DETAILS			
Sample Code	19000004372	Sample Received On	14.01.2020
Sample Name	Water	Sampling Procedure	SEAAL/ENL/GEN/SOP/01& SEAAL/MBL/SOP/06
Sample Description	Open Well	Sampling Location	Near to site
Identification By Customer	---	Sample Condition	Good
Sampled On	14.01.2020	Test Started On	15.01.2020
Sampled By	Laboratory	Test Completed On	17.01.2020
Location and Coordinates	Monitoring Location	Open Well - Near to site	
	Latitude	N0 08°33'01.9"	
	Longitude	E076°52'49.5"	

SL NO	TEST PARAMETER	TEST METHOD	UNITS	RESULT	ACCEPTABLE LIMIT (IS 10500 - 2012)
01	Colour	IS 3025 Part 4:1983 RA 2017	Hazen	1.00	5.00 (Max)
02	Odour	IS 3025 Part 5:2018	---	Agreeable	Agreeable
03	Turbidity	IS 3025 Part 10:1984 RA 2017	NTU	54.5	1.00 (Max)
04	pH	IS 3025 Part 11:1983 RA 2017	---	7.30	6.50 - 8.50
05	Conductivity	IS 3025 Part 14:1984 RA 2019	µS/cm	630	---
06	Total Dissolved Solids	IS 3025 Part 16:1984 RA 2017	mg/L	421	500 (Max)
07	Total Hardness (asCaCO <sub>3</sub> )	IS 3025 Part 21:2009 RA 2019	mg/L	140	200 (Max)
08	Calcium (as Ca)	IS 3025 Part 40:1991 RA 2019	mg/L	44.1	75.0 (Max)
09	Magnesium (as Mg)	IS 3025 Part 46:1994 RA 2019	mg/L	7.31	30.0 (Max)
10	Chloride (as Cl)	IS 3025 Part 32:1988 RA 2019	mg/L	348	250 (Max)
11	Total Alkalinity (asCaCO <sub>3</sub> )	IS 3025 Part 23:1986 RA 2019	mg/L	348	200 (Max)
12	Iron (as Fe)	IS 3025 Part 53:2003 RA 2019	mg/L	4.17	1.00 (Max)
13	Sulphate (SO <sub>4</sub> )	IS 3025 Part 24:1986 RA 2019	mg/L	3.62	200 (Max)
17	Total Coli form Bacteria	IS 15185 : 2016	----	Present/100 ml	Absent/ 100 ml
18	E coli	IS 15185 : 2016	----	Absent/100 ml	Absent/ 100 ml

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

For and on behalf of  
Standard<sup>S</sup> Environmental & Analytical Laboratories

Authorized Signatory

**Preethu Haresh**  
Microbiologist

Authorized Signatory

**Laju P.N.**  
Laboratory Head

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

**Standard<sup>S</sup> Environmental & Analytical Laboratories**

Accreditation and Approval: NABL as per ISO 17025: 2017 & "A" Grade Laboratory of KSPCB

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Web www.sealabs.in, E-mail: seaalab@gmail.com



**ANNEXURE 2 - Test report on Ambient noise levels.**



**TEST REPORT**



Test Report No:TC540219000004368F	Date: 28.12.2019	Page 1 of 1
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CUSTOMER DETAILS		
Customer Details	Name & Address	M/s Dragonstone Realty Pvt. Ltd. Technopark Phase-3 Campus, Attipra, Thiruvananthapuram District.
Location of Site	Re - Survey No	290/2 part, 290/3 part, 290/4 part, 290/5 part, 290/6 & others,
	Village	Attipra
	Taluk	Thiruvananthapuram
	District	Thiruvananthapuram
	State	Kerala
Customer Reference	Test Request form dated 23.12.2019	
SAMPLE DETAILS		
Source of Sample	Ambient Sound Level	
Sample Code	19000004368	
Location of Monitoring	Project Site	
Date of Monitoring	23.12.2019	
Method	IS 9989:1981 RA2008	
Location and Coordinates	Monitoring Location	Project Site
	Latitude	N0 08°32'57.0"
	Longitude	E076°52'50.1"

DAYTIME	RESULT	NIGHTTIME	RESULT
06.00 Hrs	38.3 dB (A)	23.00 Hrs	39.1 dB (A)
07.00 Hrs	41.1 dB (A)	00.00 Hrs	38.7 dB (A)
08.00 Hrs	45.4 dB (A)	01.00 Hrs	39.4 dB (A)
09.00 Hrs	49.0 dB (A)	02.00 Hrs	39.1 dB (A)
10.00 Hrs	51.4 dB (A)	03.00 Hrs	39.8 dB (A)
11.00 Hrs	54.5 dB (A)	04.00 Hrs	38.7 dB (A)
12.00 Hrs	51.7 dB (A)	05.00 Hrs	40.5 dB (A)
13.00 Hrs	51.0 dB (A)	RESULTS	
14.00 Hrs	51.4 dB (A)		
15.00 Hrs	51.7 dB (A)	Noise Level (Leq) Daytime	49.8 dB (A)
16.00 Hrs	52.9 dB (A)		
17.00 Hrs	53.3 dB (A)		
18.00 Hrs	47.8 dB (A)		
19.00 Hrs	44.2 dB (A)	Noise Level (Leq) Nighttime	38.4 dB (A)
20.00 Hrs	40.3 dB (A)		
21.00 Hrs	39.8 dB (A)		
22.00 Hrs	37.1 dB (A)		

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

For and on behalf of  
Standard S Environmental & Analytical Laboratories



Authorized Signatory  
*[Signature]*  
Ajju P. N.  
Laboratory Head

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

**Standard S Environmental & Analytical Laboratories**

Accreditation and Approval: NABL as per ISO 17025: 2017 & "A" Grade Laboratory of KSPCB  
K.J. Tower, Pathalam, Udyogamandal P.O., Ernakulam-683 501, Tel. 0484-2546660, 93 87 27 24 02, 90 74 34 14 43  
Web: www.sealabs.in, E-mail: seaalab@gmail.com



**Annexure 3 – Test report on Ambient air quality**

**TEST REPORT**

Test Report No:TC540219000004364F	Date: 28.12.2019	Page 1 of 1
-----------------------------------	------------------	-------------

CUSTOMER DETAILS			
Customer Details	Name & Address	M/s Dragonstone Realty Pvt. Ltd. Technopark Phase-3 Campus, Attipra, Thiruvananthapuram District.	
Location of Site	Re - Survey No	290/2 part, 290/3 part, 290/4 part, 290/5 part, 290/6 & others,	
	Village	Attipra	
	Taluk	Thiruvananthapuram	
	District	Thiruvananthapuram	
	State	Kerala	
Customer Reference	Test Request form dated 23.12.2019		
SAMPLE DETAILS			
Source of Sample	Ambient Air	Sample Code	19000004364
Location of Monitoring	Project site	Sampled By	Laboratory
Date of Monitoring	23.12.2019	Test Started On	26.12.2019
Sample Received On	24.12.2019	Test Completed On	28.12.2019
Humidity	68 %	Sampling Procedure	SEAAL/ENL/GEN/SOP/02
Location and Coordinates	Monitoring Location	Project site	
	Latitude	N0 08°32'55.7"	
	Longitude	E076°52'50.0"	

SL NO	TEST PARAMETER	TEST METHOD	UNIT	RESULTS	NAAQ STANDARD
01	Particulate matter (PM <sub>10</sub> )	IS 5182 Part 23: 2006 RA 2017	µg/m <sup>3</sup>	58.9	100
02	Particulate matter (PM <sub>2.5</sub> )	EPA 40 CFR Part 50 Appendix - L	µg/m <sup>3</sup>	25.3	60.0
03	Sulphur dioxide (SO <sub>2</sub> )	IS 5182 Part 2: 2001 RA 2017	µg/m <sup>3</sup>	< 2.00	80.0
04	Nitrogen dioxide (NO <sub>2</sub> )	IS 5182 Part 6: 2006 RA 2017	µg/m <sup>3</sup>	< 2.00	80.0

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

For and on behalf of  
Standard<sup>S</sup> Environmental & Analytical Laboratories



Authorized Signatory  
*[Signature]*  
Laboratory Head

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

**Standard<sup>S</sup> Environmental & Analytical Laboratories**

Accreditation and Approval: NABL as per ISO 17025: 2017 & "A" Grade Laboratory of KSPCB  
K.J. Tower, Pathalam, Udyogamandal P.O., Ernakulam-683 501, Tel. 0484-2546660, 93 87 27 24 02, 90 74 34 14 43  
Web: www.sealabs.in, E-mail: sealab@gmail.com



Ref: TIH/DRPL/ZEN/MOEF/CR/002

25<sup>th</sup> March 2021

To

The Additional Principal Chief Conservator of Forests (C)

The Ministry of Environment, Forests & Climate Change - Regional Office (Southern Zone)

4th Floor, E&F Wings Kendriya Sadan, 17th Main Road

2nd Block, Koramangala, Bangalore – 560 034

Sub: Submission of Six Monthly Condition Wise Compliance Report for the Period from 01/4/2020 to 30/09/2020 in respect to Construction of our Commercial cum Office complex at Technopark Phase – 3 campus in (Non-SEZ) Sy. Nos 290/2(part), 290/3(part) & others, Village Attipara, Taluk & District Thiruvananthapuram, Kerala.

Ref: MOEF EC No. 21-48/2018–IA–III, Dt: 07th June, 2019

Dear Sir,

We wish to inform that all activities related to the project was suspended on 20<sup>th</sup> March 2020 due to the lockdown imposed by COVID 19 pandemic. We haven't resumed any project activities during the 6 month period from the lockdown date of 20<sup>th</sup> March 2020 till 30<sup>th</sup> September 2020.

This is for your kind information and records.

Thanking you,

Yours faithfully,

For Dragonstone Realty Pvt Ltd

Authorized Signatory





# ANNEXURE 7



കേരളം കേരल KERALA

CX 040858

AFFIDAVIT

I, R. Anil Kumar, Authorized signatory of M/s Dragonstone Realty Pvt. Ltd., having its correspondence office at B. Hub, Mar Ivanios, Vidya Nagar, Nalanchira, Trivandrum, Kerala – 695 015 do hereby affirm and confirm as follows:

1. That, M/s Dragonstone Realty Pvt. Ltd proposes construction of Expansion of the Mixed Land Use (Master Plan) at Technopark Phase-3 Campus in in Re-Sy. Nos. 290/2 part, 290/3 part, 290/4 part, 290/5 part, 290/6 , 290/7 part, 291/2 part, 291/4 part, 291/5 part, 291/6 part, 291/7, 291/8, 291/9 part, 291/11 part, 291/12, 291/13, 291/14, 291/15, 291/16, 291/17, 291/18, 291/19, 292/1, 292/2, 292/3, 292/4 part, 292/5 part, 292/6 part, 292/8 part, 292/9, 292/10, 295/1 part, 295/2 part, 295/3 part, 295/8 part, 295/9, 295/10, 295/11 part, 295/12, 295/13, 295/14, 295/17 part, 295/19 part, 295/23 part, 296/1 part, 296/2 part, 296/5 part, 296/6 part, 296/7, 296/8, 296/9, 296/10, 296/11, 296/12, 296/13, 296/14, 296/15, 296/16, 296/17, 296/18, 296/19, 297/8 part, 297/18 part, 297/19 part, 292/2 part, 292/3 part, 292/8 part, 292/9 part, 292/10 part, 292/11 part, 292/12 part, 292/14 part, 292/18 part, 295/14 part, 295/15, 295/16, 295/17 part, 295/18 part, 296/10 part, 296/18 part, 296/19 part, in Attipra Village, Thiruvananthapuram Taluk, Thiruvananthapuram District, Kerala.

2. That, the Environmental Clearance proceedings number and date are SIA/KL/MIS/52546/2018, 1202/EC2/2018/SEIAA dated 06.03.2021.



SANTHOSH KUMAR M.  
Advocate & Notary  
Roll No: K/723/2001  
Regd. No: 19322

Thiruvananthapuram Dist, Kerala

Dragonstone Realty Pvt. Ltd.

LALA S.S.  
CAYOM VENDES



No. 24648  
18/3/2021

R. Anil Kumar





കേരളം കേരल KERALA

CX 040859

3. That, all the conditions stipulated in the Environment Clearance would be scrupulously followed.



DEPONENT

**Verification:**

Verified that my above statements are true to the best of my knowledge and belief and nothing material has been concealed therein.



DEPONENT

Place: Thiruvananthapuram

Date: 19/03//2021

Solemnly affirmed and signed this before me by the deponent at my office at Thiruvananthapuram on this 19th day of March 2021



SANTHOSH KUMAR M.  
Advocate & Notary  
Roll No: K/720/2001  
Regd. No: 19322  
Thiruvananthapuram Dist., Kerala

NOTARIAL REGISTER ENTRY

Sl. No: 111 Vol: 1

No. 24644  
18/3/2021

Dragon Stone Reality Pvt. Ltd.

LALA S.S.  
ATTORNEY VENDOR





# ANNEXURE 8

PILLAI, vide affidavit dated 19.03.2021 before Adv. D. RADHAKRISHNAN NAIR. It is to change the same in Army records.

**NOTICE**

I Miss.Premakumari.M D/o P. Ramanatha panicker Ex-Army No.7005496 Mannil House, P.O Mankara, Palakkad District, Kerala, do here by declare that my correct name and Date of birth is PREMAKUMARI.M and 09/02/1948 as this is wrongly recorded in the record of my deceased father as PREMAKUMARI and 15/03/1949 respectively.

**PUBLIC NOTICE****NOTICE**

This is to inform to the General Public that the construction of expansion of the Mixed Land Use (Master Plan ) at Techno parkPhase-3 Campus in Re-Sy.Nos.290/2 part 290/3 part, 290/4 part, 290/5 part, 290/6, 290/7 part,291/2 part, 291/4 part,291/5 part,291/6 part, 291/7,291/8,291/9 part,291/11 part, 291/12,291/13,291/14,291/15,291/16,291/17,291/18, 291/19, 292/1, 292/2, 292/3, 292/4 part, 292/5 part,292/6 part, 292/8 part, 292/9, 292/10, 295/1 part, 295/2 part, 295/3 part, 295/4 part, 295/9, 295/10, 295/11 part, 295/12, 295/13, 295/14, 295/17 part, 295/19 part, 295/23 part, 296/1 part, 296/2 part, 296/5 part, 296/6 part, 296/7, 296/8, 296/9, 296/10, 296/11, 296/12,296/13, 296/14, 296/15, 296/16, 296/17, 296/18, 296/19, 297/8 part, 297/18 part, 297/19 part, 292/2 part,292/3 part, 292/8 part,292/9 part, 292/10 part, 292/11part, 292/12 part, 292/14 part, 292/18 part, 295/14 part , 295/15, 295/16, 295/17 part, 295/18 part , 295/10 part, 295/16 part, 295/19 part in Altipra Village, Thiruvananthapuram, Taluk, Thiruvananthapuram District, Kerala being developed by M/s. Dragonstone Realty Pvt. Ltd. is accorded with ENVIRONMENTAL CLEARANCE by State Environment Impact Assessment Authority, Kerala vide order SIA /KLMIS /52546 /2018, 1202/EC2 /2018 /SEIAA dated 06.03.2021 and the copy of the Environmental Clearance is available on the web site of State Environment Impact Assessment Authority ( SEIAA) [www.seiaa.kerala.in].

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**RENTAL****COLLEGE COMPLEX BUILDINGS FOR LEASE**

Malineni Lakshmaiah Engineering College Premises Buildings which have been established in 60 acres of land and out of which 2Lakhs Sq.ft buildings (20 KM from Ongole) situated at Singarayakonda, NH-16, Prakasam Dist., Andhra Pradesh will be given for LEASE for Colleges/ Coaching Centres (NEET/ JEE.. etc) / Academy/ Hospitals etc., and for all kinds of Commercial, Private, Government Sectors. (Suitable for International Schools)  
**Special Features:** +60 acres +Bank facility +Post Office +24X7 Bus & Rail transport +Computer Labs + Separate Ladies & Gents Hostels + Canteen + Mineral Water + Large Dining Halls + Cell Towers + Net facility.  
Contact : Dr. Malineni Lakshmaiah  
Cell: 093988 11245

**REAL ESTATE****PLOT FOR SALE**

33 cents plot for sale near Calicut Airport, opp. Hajj House.  
Contact:  
8589011640  
9562728009

**PERSONAL****CHANGE OF NAME**

I, Prabha G.Nair, Spouse of Ex.NK.7772360A, Gopalakrishnan Nair.N of CMP records, Bangalore-25, residing at Karunyam Puthu Veettu Mele, Perukavu PO, Thiruvananthapuram-695573, Kerala, changed my name from PRABHA G.NAIR to PRABHA KUMARI V.S. vide Affidavit dt. 19.03.2021 at Thiruvananthapuram-35, Kerala.

**PUBLIC NOTICE****CHANGE OF NAME**

I, NANDU son of Ex.No.14349994 L Rank HAV. VIJAYAN. V, resident of ROADVILA VEEDU, KANJIRATHUMMOODU, AYIRAKUZZHI (P.O) have changed my name from NANDU to NANDU. V.S and Date of birth 27-02-2001 vide affidavit Dated 15-03-2021 before Adv. V.T.ALEXANDER, Notary Kollam.

I Mariyamma spouse of No 1066332A Ex LD(NK) Boben K residing at St. Mary Vilasam, 11<sup>th</sup> mile, Marthandankara PO 691312 Kollam Dist, Kerala have changed my name from Mariyamma to Lalikutty A and my date of birth is on 21.04.1966 vide affidavit dated 17.03.2021 attested before Adv PB Janardanan Nair Notary Public at Punalur.

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**tender & notices**

**PUBLIC NOTICE**

**NOTICE**

This is to inform to the General Public that the construction of expansion of the Mixed Land Use (Master Plan) at Techno park Phase-3 Campus in Res.No.250/2 part, 290/3 part, 290/4 part, 290/5 part, 290/6, 290/7 part, 291/2 part, 291/4 part, 291/5 part, 291/6 part, 291/7, 291/8, 291/9 part, 291/11 part, 291/12, 291/13, 291/14, 291/15, 291/16, 291/17, 291/18, 291/19, 292/1, 292/2, 292/3, 292/4 part, 292/5 part, 292/6 part, 292/8 part, 292/9, 292/10, 295/1 part, 295/2 part, 295/3 part, 295/8 part, 295/9, 295/10, 295/11 part, 295/12, 295/13, 295/14, 295/17 part, 295/19 part, 295/23 part, 296/1 part, 296/2 part, 296/5 part, 296/6 part, 296/7, 296/8, 296/9, 296/10, 296/11, 296/12, 296/13, 296/14, 296/15, 296/16, 296/17, 296/18, 296/19, 297/8 part, 297/18 part, 297/19 part, 292/2 part, 292/3 part, 292/8 part, 292/9 part, 292/10 part, 292/11 part, 292/12 part, 292/14 part, 292/18 part, 295/14 part, 295/15, 295/16, 295/17 part, 295/18 part, 296/10 part, 296/19 part in Attipra Village, Thiruvananthapuram, Taluk, Thiruvananthapuram District, Kerala being developed by M/s. Dragonstone Realty Pvt. Ltd. is accorded with ENVIRONMENTAL CLEARANCE by State Environment Impact Assessment Authority, Kerala vide order SIA /KL/MIS /52546 /2018, 1202/EC2 /2016 /SEIAA dated 06.03.2021 and the copy of the Environmental Clearance is available on the web site of State Environment Impact Assessment Authority (SEIAA) [www.seiaa.kerala.in]

established and experienced vendors for following items.  
Tender Ref :- UB/DBD/2020-21/SAPBP.  
Item/Job Description: Supply, Installation and Maintenance of 1000 Barcode based Semi Automatic Passbook Printers (SAPBP).  
Date and time of tender publication: 22.03.2021 11:00 hours.  
Last Date and Time for Bid Submission: 20.04.2021 16:00 hours.  
For other details and downloading of RFP document, please visit our Bank's website: www.unionbankofindia.co.in or the Government tender portal www.eprocure.gov.in. Please visit https://ubi.abcpocure.com for participation in the e-tender.

**personal**

**CHANGE OF NAME**

**CHANGE OF NAME**  
I, PRABHA G. NAIR, Sponse of Ex.NK 7772360A, GOPALAKRISHNAN NAIR N of CMP RECORDS, BANGALORE - 23, Residing at Karunyam Puthu Veedu Mele, Perukavu PO, Thiruvananthapuram - 695572, Kerala, changed my name from PRAHA G. NAIR to PRAHA KUMARI V.S. vide Affidavit dt. 19.03.2021 at Thiruvananthapuram - 35, Kerala.

I, Roshni Majeed C M alias Roshini Sagir alias Roshini Majeed D/o Chirammal Abdul Majeed W/o Sagir A.R/o 83/2891, Niyasha, Masjid Lane, 7th Road, Kochi, Ernakulam - 682018, have changed my name to Roshni Majeed for all purposes.



**Luker Electric Technologies**  
Calicut: 9747477777, Ernakulam: 8870810999, Chennai: 9866077902, Hyderabad: 9866077902.

**in peril**

have to walk more than one kilometre to cross over to the neighbouring state and to get into their buses. Some people were using their two-wheelers and four-wheelers to travel to Tamil Nadu but the high cost of diesel and petrol has hit them.  
"The workers are now seeking temporary passes from the Tamil Nadu government. People from the district depend on the neighbouring state also for trade of agricultural and other products," said Kerala State Tamil Protection Council general secretary M Pechimuthu.  
"Due to the curbs, livelihood of people in the border areas of both the states has been affected. Hence, passes should be issued by following Covid protocol," he said.

**year of closure**

**Palakkad:** Kuzhalmannam, the biggest cattle trading centre in the state, and 40 other markets in the district were reopened after a year of closure due to Covid-19 pandemic lockdown.  
Majority of the cattle come from other states to Kuzhalmannam, but due to Covid-19 restrictions there was difficulty in bringing them to the market, the traders said.  
Now, 80% of the cattle that used to come before the pandemic, has arrived in the markets in the district, the traders added.  
Every week, 400 truckloads of cattle are expected to arrive in the markets, mainly from Tamil Nadu and Andhra Pradesh. But due to Covid-19 restrictions cattle movement from Karnataka has been stopped.

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Our beloved Saroj Rani Swarup  
passed away peacefully on March 20th, 2021  
our inspiration, our guide, our life,  
remain our source of love, strength and happiness forever.

Aravind Swarup  
& Ajay Swarup  
& Ajay Modi  
Radhika & Shekhar  
Devika, Shraddha and Naina  
Anika Rani  
Swarup Family & Khandelwal Family

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# ANNEXURE 9



# Environment, Health and Safety ( EHS) Policy

---

Our goal is simply stated - to eliminate accidents and harm to people, the Environment and the business. As a minimum, wherever we operate in the world, we will comply with legislation and work with our clients, consultants, contractors and regulators to raise the standards of the industry.

To fulfill the above commitment, we will ensure the following :

- Be responsible for the protection of environment, health and safety. It is as critical to the success of our business as cost, time and quality.
- Remain committed to continual improvement to eliminate accidents and harm to people, the environment and the business.
- Encourage its associates to demonstrate the same level of commitment for continual improvement in health, safety and environmental performance.
- Follow all the applicable statutory regulations.
- Develop and maintain effective safety management processes to mitigate or minimize identified risk by use of proactive and cost effective measures and procedures.
- Record, analyze and investigate all reported safety incidents/accidents to prevent their recurrence.
- Ensure compliance with the policy through a process of education, training, guidance, review and audit.
- Make available appropriate resources to implement this policy.
- Ensure that all the employees will contribute for implementation of this policy

Date: 15<sup>th</sup> July 2019



**R Anil Kumar**

Chief Operating Officer



# ANNEXURE 10

Email : [eephdivisionkwa.tvpm@gamil.com](mailto:eephdivisionkwa.tvpm@gamil.com)

Tel. 0471 - 2322798



## KERALA WATER AUTHORITY

Office of the Executive Engineer  
Public Health Division (North)  
Vellayambalam  
Thiruvananthapuram  
Dated: 17-04-2018

No: KWA/PHDN-TN/DB2-780/2017

From  
EXECUTIVE ENGINEER

To  
Sri. Madhavan Praveen  
D.G.M (Projects), Technopark,  
Thiruvananthapuram

Sir,

Sub: - Supply of water by KWA at Technopark Phase III Campus  
Ref: - That office letter No. ETPK/KWA/2018-19/AL-59/52

Certified that Technopark Campus received a bulk supply of 2.5 mld of Treated Water from Kerala Water Authority. The present supply meets all the needs of Techopark campus now.

With regard to future demand of 2 mld the same can be meet once the augmentation of TWSS is completed

Yours faithfully,

  
EXECUTIVE ENGINEER

**EXECUTIVE ENGINEER**  
PH DIVISION (NORTH)  
KERALA WATER AUTHORITY  
VELLAYAMBALAM  
THIRUVANANTHAPURAM - 695 037





# ANNEXURE 11



# LEED Certification Review Report

This report contains the results of the technical review of an application for LEED® certification submitted for the specified project. LEED certification is an official recognition that a project complies with the requirements prescribed within the LEED rating systems as created and maintained by the U.S. Green Building Council® (USGBC®). The LEED certification program is administered by Green Business Certification Inc. (GBCI®).

## TAURUS ZENTRUM

**Project ID** 1000113154  
**Rating system & version** LEED V4 BD+C: CS  
**Project registration date** 12/04/2018



### Precertification Final Review Decision

CERTIFIED: 40-49, SILVER: 50-59, GOLD: 60-79, PLATINUM: 80+

## LEED V4 BD+C: CORE AND SHELL

ATTEMPTED: 65, DENIED: 2, PENDING: 1, AWARDED: 62 OF 130 POINTS

<b>INTEGRATIVE PROCESS</b>	<b>1 OF 1</b>
Integrative Process	1 / 1

<b>LOCATION AND TRANSPORTATION</b>	<b>11 OF 40</b>
LEED for Neighborhood Development Location	0 / 20
Sensitive Land Protection	0 / 2
High Priority Site	0 / 3
Surrounding Density and Diverse Uses	6 / 6
Access to Quality Transit	3 / 6
Bicycle Facilities	0 / 1
Reduced Parking Footprint	1 / 1
Green Vehicles	1 / 1

<b>SUSTAINABLE SITES</b>	<b>6 OF 11</b>
Construction Activity Pollution Prevention	Y
Site Assessment	1 / 1
Site Development - Protect or Restore Habitat	0 / 2
Open Space	0 / 1
Rainwater Mgmt	3 / 3
Heat Island Reduction	1 / 2
Light Pollution Reduction	0 / 1
Tenant Design and Construction Guideline	1 / 1

<b>WATER EFFICIENCY</b>	<b>11 OF 11</b>
Outdoor Water Use Reduction	Y
Outdoor Water Use Reduction	2 / 2
Indoor Water Use Reduction	Y
Indoor Water Use Reduction	6 / 6
Building-Level Water Metering	Y
Cooling Tower Water Use	2 / 2
Water Metering	1 / 1

<b>ENERGY AND ATMOSPHERE</b>	<b>18 OF 33</b>
Fundamental Commissioning and Verification	Y
Minimum Energy Performance	Y
Optimize Energy Performance	9 / 18
Building-Level Energy Metering	Y
Fundamental Refrigerant Mgmt	Y
Enhanced Commissioning	4 / 6
Advanced Energy Metering	1 / 1
Demand Response	1 / 2
Renewable Energy Production	0 / 3
Enhanced Refrigerant Mgmt	1 / 1
Green Power and Carbon Offsets	2 / 2

<b>MATERIALS AND RESOURCES</b>	<b>3 OF 14</b>
Storage and Collection of Recyclables	Y
Construction and Demolition Waste Mgmt Planning	Y
Building Life-Cycle Impact Reduction	0 / 6
Product disclosure & optimization - Environmental Product Declarations	1 / 2
Product disclosure & optimization - Sourcing of Raw Materials	0 / 2
Product disclosure & optimization - Material Ingredients	0 / 2
Construction and Demolition Waste Mgmt	2 / 2

<b>INDOOR ENVIRONMENTAL QUALITY</b>	<b>3 OF 10</b>
Minimum IAQ Performance	Y
Environmental Tobacco Smoke Control	Y
Enhanced IAQ Strategies	2 / 2
Low-Emitting Materials	0 / 3
Construction IAQ Mgmt Plan	1 / 1
Daylight	0 / 3
Quality Views	0 / 1

<b>INNOVATION</b>	<b>5 OF 6</b>
Innovation	4 / 5
LEED Accredited Professional	1 / 1

<b>REGIONAL PRIORITY CREDITS</b>	<b>4 OF 4</b>
Rainwater Mgmt	1 / 1
Heat Island Reduction	1 / 1
Outdoor Water Use Reduction	1 / 1
Indoor Water Use Reduction	1 / 1

**TOTAL** 62 OF 130



## Project Information

### Project Information

**Awarded**

#### PRECERTIFICATION FINAL REVIEW

Awarded.

#### PRECERTIFICATION PRELIMINARY REVIEW

The LEED Worksheet states that the total gross floor area for the project is 1,004,092 square feet. The date of substantial completion of construction is anticipated to be December 1, 2021. The worksheet includes the required project summary details and documents.

1. It appears that the occupancy numbers (5,500 FTE, 5,000 daily average transients, and 6,000 peak transient) have not been determined correctly based on the project gross square footage and Default Occupancy Counts provided in CS Appendix 2 of the LEED BD+C v4 Reference Guide. While spaces associated with underground and/or structured parking should be excluded from the calculations, spaces such as common areas, mechanical spaces, and circulation should be included in the gross square footage of the building.

Provide a narrative in a revised worksheet to confirm that the entire area of the building (excluding parking) and defaults provided in CS Appendix 2 of the Reference Guide have been used to determine the project occupancy numbers.

For the Certification applications, ensure that renderings or drawings of the project both inside and out have been provided. Additionally, note that the mechanical schedule is essentially a snapshot of all mechanical heating, ventilation, and conditioning systems (i.e., air handling units, chillers, etc.) provided in the project. Each segment of components has a separate mechanical schedule. Examples include a water air heat pump schedule, supply fan schedule, energy recover unit cooling coil schedule, VAV control unit schedule, and an air handling unit schedule. Additionally, each schedule contains detailed data about each component within that category. For example, an air handling unit schedule includes data, for each unit, about the supply air fan (supply CFM and minimum outside air CFM), return fan, evaporative-cooled condenser, compressor, coiling coil, heating, etc. Mechanical schedules are typically provided in a table format, clearly showing the required HVAC parameters for all equipment installed within the building.

Please note that credits without a review comment have been approved as part of the Precertification Review process.





## Integrative Process

### Integrative Process

POSSIBLE POINTS: 1

ATTEMPTED: 1, DENIED: 0, PENDING: 0, AWARDED: 1

**Awarded : 1**

#### PRECERTIFICATION PRELIMINARY REVIEW

Awarded.

For the Certification application, ensure that descriptions for the energy-related systems have been provided to demonstrate that two potential load reduction strategies for each category (site conditions, massing and orientation, basic envelope attributes, lighting levels, thermal comfort ranges, plug and process loads, and programmatic and operational parameters) were analyzed within the simple box energy model created during the discovery phase. Additionally, ensure that the worksheet confirms that the water budget analysis included outdoor water demand, the process water demand, and all potential nonpotable water supply source volumes.



## Location And Transportation

**LEED for Neighborhood Development Location**  
POSSIBLE POINTS: 20

**Not Attempted**

**Sensitive Land Protection**  
POSSIBLE POINTS: 2

**Not Attempted**

**High Priority Site**  
POSSIBLE POINTS: 3

**Not Attempted**

**Surrounding Density and Diverse Uses**  
POSSIBLE POINTS: 6  
ATTEMPTED: 6, DENIED: 0, PENDING: 0, AWARDED: 6

**Awarded : 6**

**Access to Quality Transit**  
POSSIBLE POINTS: 6  
ATTEMPTED: 3, DENIED: 0, PENDING: 0, AWARDED: 3

**Awarded : 3**

**Bicycle Facilities**  
POSSIBLE POINTS: 1  
ATTEMPTED: 1, DENIED: 1, PENDING: 0, AWARDED: 0

**Denied : 1**

### PRECERTIFICATION FINAL REVIEW

1. The documentation does not address whether the long-term bicycle storage provided for the regular building occupants will be covered to protect bicycles from rain and snow, as required. For future submittals, ensure that the narrative confirms that the long-term bicycle storage will be covered.

The documentation does not demonstrate compliance.

### PRECERTIFICATION PRELIMINARY REVIEW

Case 1: Commercial or Institutional Projects, 125 short-term spaces and 220 long-term spaces; 17 showers

1. As outlined in PI Project Information, it is unclear whether the occupancy values have been accurately reported. Therefore, it is unclear whether sufficient bicycle storage and shower facilities will be provided.

Provide a revised narrative to ensure that the occupancy values have been accurately reported within the LEED Worksheet. Note that, as outlined in the LEED BD+C v4 Reference Guide, Core and Shell projects must refer to Appendix 2, Default Occupancy Counts, for occupancy count requirements and guidance.

2. It is unclear whether the long-term bicycle storage provided for the regular building occupants will be covered to protect bicycles from rain and snow.

Provide a revised narrative to confirm that the long-term bicycle storage will be covered.

**Reduced Parking Footprint**  
POSSIBLE POINTS: 1  
ATTEMPTED: 1, DENIED: 0, PENDING: 0, AWARDED: 1

**Awarded : 1**

**Green Vehicles**  
POSSIBLE POINTS: 1  
ATTEMPTED: 1, DENIED: 0, PENDING: 0, AWARDED: 1

**Awarded : 1**

### PRECERTIFICATION PRELIMINARY REVIEW

Preferred parking spaces, 5%; Option 1: Electric Vehicle Charging, 2%

Awarded.

For the Certification application, note that the dedicated preferred parking spaces for green vehicles and electrical supply equipment (EVSE) must be provided separately (i.e., at least 2% of the total parking capacity must be reserved for spaces with EVSE in addition to the 5% of the total parking capacity reserved for the green vehicles). Additionally, note that, according to the LEED BD+C v4 Reference Guide, green vehicles are those vehicles which achieve a minimum score of 45 on the American Council for an Energy Efficient Economy (ACEEE) annual vehicle rating guide (or a local equivalent for projects outside the U.S.). Therefore, not all electrical vehicles are green vehicles, and vice versa.







## Sustainable Sites

### Construction Activity Pollution Prevention

**Awarded**

#### Site Assessment

POSSIBLE POINTS: 1

ATTEMPTED: 1, DENIED: 0, PENDING: 0, AWARDED: 1

**Awarded : 1**

#### PRECERTIFICATION PRELIMINARY REVIEW

Awarded.

For the Certification application, ensure that information has been provided regarding the hydrology, climate, vegetation, soils, human use, and human health effects.

### Site Development - Protect or Restore Habitat

POSSIBLE POINTS: 2

**Not Attempted**

### Open Space

POSSIBLE POINTS: 1

**Not Attempted**

### Rainwater Management

POSSIBLE POINTS: 3

ATTEMPTED: 3, DENIED: 0, PENDING: 0, AWARDED: 3

**Awarded : 3**

### Heat Island Reduction

POSSIBLE POINTS: 2

ATTEMPTED: 1, DENIED: 0, PENDING: 0, AWARDED: 1

**Awarded : 1**

### Light Pollution Reduction

POSSIBLE POINTS: 1

**Not Attempted**

### Tenant Design and Construction Guideline

POSSIBLE POINTS: 1

ATTEMPTED: 1, DENIED: 0, PENDING: 0, AWARDED: 1

**Awarded : 1**

#### PRECERTIFICATION PRELIMINARY REVIEW

Awarded.

For the Certification application, ensure that the Tenant Design and Construction Guidelines include all of the required information, such as recommendations, including examples, for sustainable strategies, products, materials, and services. Note that the Tenant Design and Construction Guidelines are intended to provide user-friendly, project-specific, technical information on the sustainable strategies incorporated in the Core and Shell building and how these can be coordinated to help facilitate a LEED-CI submittal.



## Water Efficiency

### Outdoor Water Use Reduction

**Awarded**

### Outdoor Water Use Reduction

POSSIBLE POINTS: 2

ATTEMPTED: 2, DENIED: 0, PENDING: 0, AWARDED: 2

**Awarded : 2**

### Indoor Water Use Reduction

**Awarded**

#### PRECERTIFICATION FINAL REVIEW

Usage-based Calculation, 55.40%

Awarded.

For the Certification submittal, ensure that only those plumbing fixtures, appliances, and process water installed as a part of the Core and Shell project's scope of work (i.e., what the developer is installing in the project) has been included in the prerequisite calculations. As-yet-uninstalled (future) plumbing fixtures, appliances, and process water must not be included for the prerequisite.

#### PRECERTIFICATION PRELIMINARY REVIEW

Usage-based Calculation, 55.40%

1. Based on the general project narrative, it is unclear whether future tenants will install additional plumbing fixtures.

Provide a revised narrative clarifying whether all plumbing fixtures will be installed within the Owner scope of work or whether future tenants may install additional fixtures. Note that according to the LEED BD+C v4 Reference Guide, only plumbing fixtures, appliances, and process water installed as part of the Core and Shell project's scope of work should be considered for this prerequisite. Ensure that the plumbing scope of work has been reported correctly and consistently across the submittal.

### Indoor Water Use Reduction

POSSIBLE POINTS: 6

ATTEMPTED: 6, DENIED: 0, PENDING: 0, AWARDED: 6

**Awarded : 6**

#### PRECERTIFICATION FINAL REVIEW

Usage-based Calculation, 55.40%

Awarded.

#### PRECERTIFICATION PRELIMINARY REVIEW

Usage-based Calculation, 55.40%

1. WEp Indoor Water Use Reduction is pending clarifications.

Refer to the comments within the prerequisite and resubmit this credit.

### Building-Level Water Metering

**Awarded**

### Cooling Tower Water Use

POSSIBLE POINTS: 2

ATTEMPTED: 2, DENIED: 0, PENDING: 0, AWARDED: 2

**Awarded : 2**

### Water Metering

POSSIBLE POINTS: 1

ATTEMPTED: 1, DENIED: 0, PENDING: 0, AWARDED: 1

**Awarded : 1**



## Energy And Atmosphere

### Fundamental Commissioning and Verification

**Awarded**

#### Minimum Energy Performance

**Awarded**

##### PRECERTIFICATION FINAL REVIEW

Option 1: Whole Building Energy Simulation, 19.67%

Awarded.

##### PRECERTIFICATION PRELIMINARY REVIEW

Option 1: Whole Building Energy Simulation, 19.67%

1. Based on the narrative provided within PI Project Information and this credit, future tenants will install additional HVAC and lighting systems, yet it is unclear whether these tenant-installed systems will be considered in the energy cost savings calculations. Note that, according to the Rating Systems Variations section of the LEED BD+C v4 Reference Guide, projects can claim credit for energy reductions in tenant spaces if those reductions (such as lighting power density reductions or improved HVAC efficiency) are required through a Tenant Sales and/or Lease Agreement (TSLA) or other legally binding document.

Provide a revised narrative confirming whether the tenant work will be considered in the energy cost savings calculations. If the tenant work will only be suggested or encouraged in Tenant Design and Construction Guidelines, provide a revised narrative confirming that all tenant-installed systems will be modeled as neutral in the energy cost savings calculations. Alternatively, provide a narrative to confirm that energy reductions within the tenant spaces will be required through a legally-binding TSLA. Refer to the Further Explanation: Common Issues in Energy Modeling section of the Reference Guide and LEED Interpretation 10463 for additional guidance.

### Optimize Energy Performance

POSSIBLE POINTS: 18

ATTEMPTED: 9, DENIED: 0, PENDING: 0, AWARDED: 9

**Awarded : 9**

##### PRECERTIFICATION FINAL REVIEW

Option 1: Whole Building Energy Simulation, 19.67%

Awarded.

##### PRECERTIFICATION PRELIMINARY REVIEW

Option 1: Whole Building Energy Simulation, 19.67%

1. EAp Minimum Energy Performance is pending clarifications.

Refer to the comments within the prerequisite and resubmit this credit.

### Building-Level Energy Metering

**Awarded**

### Fundamental Refrigerant Management

**Awarded**

##### PRECERTIFICATION PRELIMINARY REVIEW

Awarded.

It is noted that the LEED Worksheet indicates that the project will reuse existing HVAC&R equipment with CFC-based refrigerants, whereas the general project narrative states that the project includes the new, ground-up design and construction of commercial building in its entirety. For future submittals, ensure that the correct compliance path has been selected. In this case, the general project narrative and the narrative provided for EAc Enhanced Refrigerant Management confirms that no CFC-based refrigerants will be included in any new mechanical cooling or refrigeration equipment serving the project. Compliance is not affected.

### Enhanced Commissioning

POSSIBLE POINTS: 6

ATTEMPTED: 4, DENIED: 0, PENDING: 0, AWARDED: 4

**Awarded : 4**



## Advanced Energy Metering

POSSIBLE POINTS: 1

ATTEMPTED: 1, DENIED: 0, PENDING: 0, AWARDED: 1

**Awarded : 1**

### PRECERTIFICATION FINAL REVIEW

Awarded.

### PRECERTIFICATION PRELIMINARY REVIEW

1. Based on the provided narrative, it is unclear whether the tenant energy submeters will be installed within the Core and Shell scope of work, as required.

Provide a revised narrative to confirm tenant energy submeters, at least one meter per energy source per floor, will be installed within the Core and Shell scope of work.

---

## Demand Response

POSSIBLE POINTS: 2

ATTEMPTED: 1, DENIED: 0, PENDING: 0, AWARDED: 1

**Awarded : 1**

### PRECERTIFICATION FINAL REVIEW

Awarded.

### PRECERTIFICATION PRELIMINARY REVIEW

Case 2: Demand Response Program Not Available

1. The narrative does not confirm that the Demand Response processes will be included in the scope of work for the commissioning authority, including participation in at least one full test of the Demand Response Plan. Additionally, the narrative does not confirm that the project will contact the local utility representatives to discuss participation in future Demand Response programs.

Provide a revised narrative to confirm that the project will participate in all of the required activities outlined in the Requirements section of the LEED BD+C v4 Reference Guide.

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## Renewable Energy Production

POSSIBLE POINTS: 3

**Not Attempted**

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## Enhanced Refrigerant Management

POSSIBLE POINTS: 1

ATTEMPTED: 1, DENIED: 0, PENDING: 0, AWARDED: 1

**Awarded : 1**

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## Green Power and Carbon Offsets

POSSIBLE POINTS: 2

ATTEMPTED: 2, DENIED: 0, PENDING: 0, AWARDED: 2

**Awarded : 2**



## Materials And Resources

### Storage and Collection of Recyclables

**Awarded**

### Construction and Demolition Waste Management Planning

**Awarded**

#### PRECERTIFICATION FINAL REVIEW

Awarded.

#### PRECERTIFICATION PRELIMINARY REVIEW

1. The provided narrative does not indicate the anticipated types and quantities (if known) of relevant construction debris and materials to be diverted. Additionally, the narrative does not report the anticipated percentages of total waste that these materials represent, as required by the LEED Worksheet.

Provide a revised narrative that confirms the anticipated types and quantities (if known) of relevant construction debris and materials to be diverted, as well as the anticipated percentages of total waste that these materials represent. Ensure that at least five materials have been targeted for diversion.

2. The provided narrative does not describe the on-site diversion strategies.

Provide a revised narrative that describes the on-site diversion strategies.

### Building Life-Cycle Impact Reduction

POSSIBLE POINTS: 6

**Not Attempted**

### Building Product Disclosure and Optimization - Environmental Product Declarations

POSSIBLE POINTS: 2

ATTEMPTED: 1, DENIED: 0, PENDING: 0, AWARDED: 1

**Awarded : 1**

#### PRECERTIFICATION PRELIMINARY REVIEW

Option 1: Environmental Product Declaration, 20 products

Awarded.

For the Certification application, ensure that the product EPDs comply with the relevant referenced standards and that the relevant information in them has been highlighted. The EPD must comply with ISO 14025, ISO 14040, and ISO 14044; the PCR must comply with EN 15804 or ISO 21930. Either the full EPD or an EPD summary and a link to the full Environmental Product Declaration (EPD) must be provided. If the link is separate from the summary, ensure that the same product is referenced in both.

### Building Product Disclosure and Optimization - Sourcing of Raw Materials

POSSIBLE POINTS: 2

**Not Attempted**

### Building Product Disclosure and Optimization - Material Ingredients

POSSIBLE POINTS: 2

**Not Attempted**

### Construction and Demolition Waste Management

POSSIBLE POINTS: 2

ATTEMPTED: 2, DENIED: 0, PENDING: 0, AWARDED: 2

**Awarded : 2**

#### PRECERTIFICATION FINAL REVIEW

Option 1: Diversion; Path 2: Divert 75% and Four Materials Streams

Awarded.

#### PRECERTIFICATION PRELIMINARY REVIEW

Option 1: Diversion; Path 2: Divert 75% and Four Materials Streams

1. MRp Construction and Demolition Waste Management Planning is pending clarifications.

Refer to the comments within the prerequisite and resubmit this credit.

2. It is unclear which compliance path will be attempted, as the provided narrative does not contain the anticipated diversion percentage of total construction and demolition material or the number of waste streams to be diverted.

Provide a revised narrative that confirms which compliance path will be attempted. Note that for Path 1, the project must divert at least 50% of the total construction and demolition material from at least three material streams. For Path 2, the project must divert at least 75% of the total construction and demolition material from at least five material streams.





## Indoor Environmental Quality

### Minimum Indoor Air Quality Performance

**Awarded**

#### PRECERTIFICATION FINAL REVIEW

Awarded.

For the Certification application, ensure that the documentation addresses whether the project is located in an area where the most recent three-year average, annual fourth-highest daily maximum eight-hour average ozone concentration of 0.107 ppm is exceeded and if the ventilation system design will comply with Section 6.2.1.1 of ASHRAE Standard 62.1-2010, as required.

#### PRECERTIFICATION PRELIMINARY REVIEW

Option 1: ASHRAE Standard 62.1-2010

1. It is unclear whether the project is located in an area where the most recent three-year average, annual fourth-highest daily maximum eight-hour average ozone concentration of 0.107 ppm is exceeded and if the ventilation system design will comply with Section 6.2.1.1 of ASHRAE Standard 62.1-2010, as required.

Provide a revised narrative to confirm that the ambient ozone concentration does not exceed the 0.107 ppm limit for the project location. Alternatively, provide a revised narrative to confirm that the project will have air-cleaning devices for ozone or meets one of the exceptions for ozone air cleaning, per Section 6.2.1.3 of ASHRAE Standard 62.1-2010.

For the Certification application, note that Core and Shell buildings must make reasonable assumptions about the distribution of spaces and ensure that ventilation systems are capable of providing sufficient outdoor air for anticipated occupants and space types. Ensure that the Ventilation Rate Procedure (VRP) calculations have been based on assumptions of a feasible tenant fit-out.

### Environmental Tobacco Smoke Control

**Awarded**

### Enhanced Indoor Air Quality Strategies

**Awarded : 2**

POSSIBLE POINTS: 2

ATTEMPTED: 2, DENIED: 0, PENDING: 0, AWARDED: 2

#### PRECERTIFICATION FINAL REVIEW

Option 2: Additional Enhanced IAQ Strategies

B. Increased Ventilation

Awarded.

#### PRECERTIFICATION PRELIMINARY REVIEW

Option 1: Enhanced IAQ Strategies

Awarded.

For the Certification application, ensure that entryway systems will be installed at all regularly used entrances, including the entrances located underground.

-----

Option 2: Additional Enhanced IAQ Strategies

B. Increased Ventilation

1. EQp Minimum Indoor Air Quality Performance is pending clarifications.

Refer to the comments within the prerequisite and resubmit this credit.

### Low-Emitting Materials

**Not Attempted**

POSSIBLE POINTS: 3

### Construction Indoor Air Quality Management Plan

**Awarded : 1**

POSSIBLE POINTS: 1

ATTEMPTED: 1, DENIED: 0, PENDING: 0, AWARDED: 1

#### PRECERTIFICATION FINAL REVIEW

Awarded.

**PRECERTIFICATION PRELIMINARY REVIEW**

1. The narrative does not describe how the project will implement the required SMACNA Design Approaches.

Provide a revised narrative to describe how the project will implement the required SMACNA Design Approaches: HVAC Protection, Source Control, Pathway Interruption, Housekeeping, and Scheduling.

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**Daylight**  
POSSIBLE POINTS: 3

**Not Attempted**

---

**Quality Views**  
POSSIBLE POINTS: 1

**Not Attempted**



## Innovation

### Innovation

POSSIBLE POINTS: 5

ATTEMPTED: 5, DENIED: 1, PENDING: 0, AWARDED: 4

**Awarded : 4**

#### PRECERTIFICATION FINAL REVIEW

Innovation 1: Exemplary Performance for WEc Indoor Water Use Reduction

Awarded.

One point is awarded.

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Innovation 2: Green Building Education

Awarded.

One point is awarded.

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Innovation 3: LEED O+M Starter Kit: Green Cleaning and Integrated Pest Management (IPM) Practices

Awarded.

One point is awarded.

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Innovation 4: LEED O+M Starter Kit: Ongoing Purchasing and Waste Policy and Facility Maintenance and Renovation Policy

Awarded.

One point is awarded.

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Innovation 5: Differently Able People Design - Universal Design

The LEED Worksheet narrative indicates that this credit has been withdrawn.

One point is denied.

#### PRECERTIFICATION PRELIMINARY REVIEW

Innovation 1: Exemplary Performance for WEc Indoor Water Use Reduction

The requirement for exemplary performance is 55% and the project has documented 55.40%.

1. Refer to the comments within WEc Indoor Water Use Reduction. Ensure that any issues noted there are addressed within the exemplary performance documentation when resubmitting this credit. Alternatively, the project team may replace this strategy for the next review phase.

One point is pending clarifications.

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Innovation 2: Green Building Education

The LEED Worksheet states that the project team has developed and implemented a Public Education program.

1. The narrative does not indicate the two strategies the project will implement.

Provide a revised narrative describing the two educational strategies the project team intends to implement. Alternatively, the project may pursue a different Innovation strategy for the Final Review.

One point is pending clarifications.

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Innovation 3: Green Cleaning Policy

The LEED Worksheet states that the project team will develop and implement a Green Cleaning Policy.

1. This strategy is not listed in the LEED v4 credit list in the online Innovation Catalog (<http://www.usgbc.org/credits/new-construction/v4/innovationcatalog>). Therefore, this strategy is not applicable for this project. However, this policy may contribute to the LEED O+M Starter Kit.

The project team may replace this strategy with the LEED O+M Starter Kit or another strategy for the Certification application. If



attempting the LEED O+M Starter Kit, note that, to achieve one Innovation in Design point, the required documentation for two of the five credits listed in the O+M Starter Kit requirements must be submitted. Therefore, to document the maximum of two Innovation in Design points using O+M Starter Kit credits, four of the five credits listed in the O+M Starter Kit requirements must be submitted. Ensure that the narrative includes details regarding the implemented strategies. Additionally, ensure that the narrative describes how the policy will be implemented within the tenant spaces. Alternatively, the project team may replace this strategy for the next review phase. Note that Core & Shell projects must provide evidence that the credits have been developed with the participation of the property management team that will be responsible for their implementation. Additionally, as LEED O+M is a whole building rating system, Core & Shell projects must provide a copy of a legally binding tenant sales and lease agreement stating that the tenants meet the requirements of the LEED O+M strategy.

One point is pending clarifications.

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#### Innovation 4: Integrated Pest Management Practices

The LEED Worksheet states that the project team will develop and implement an Integrated Pest Management Plan.

1. This strategy is not listed in the LEED v4 credit list in the online Innovation Catalog (<http://www.usgbc.org/credits/new-construction/v4/innovationcatalog>). Therefore, this strategy is not applicable for this project. However, this policy may contribute to the LEED O+M Starter Kit.

The project team may replace this strategy with the LEED O+M Starter Kit or another strategy for the Certification application. If attempting the LEED O+M Starter Kit, note that, to achieve one Innovation in Design point, the required documentation for two of the five credits listed in the O+M Starter Kit requirements must be submitted. Therefore, to document the maximum of two Innovation in Design points using O+M Starter Kit credits, four of the five credits listed in the O+M Starter Kit requirements must be submitted. Ensure that the narrative includes details regarding the implemented strategies. Additionally, ensure that the narrative describes how the policy will be implemented within the tenant spaces. Alternatively, the project team may replace this strategy for the next review phase. Note that Core & Shell projects must provide evidence that the credits have been developed with the participation of the property management team that will be responsible for their implementation. Additionally, as LEED O+M is a whole building rating system, Core & Shell projects must provide a copy of a legally binding tenant sales and lease agreement stating that the tenants meet the requirements of the LEED O+M strategy.

One point is pending clarifications.

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#### Innovation 5: Differently Able People Design - Universal Design

The LEED Worksheet states that the project team will develop and implement a Universal Design for Differently Able People.

1. A narrative describing the attempted Innovation strategy has not been provided, as required. Therefore, it is unclear how this strategy qualifies as an Innovation strategy. Note that an Innovation strategy must be comprehensive (i.e., must have more than one product or process), in addition to including quantitative performance improvements, to qualify as an Innovation strategy.

Provide a revised narrative listing the project-specific approach to achieving the Innovation strategy.

Ensure that the narrative describes how this strategy is comprehensive. Alternatively, the project may pursue a different Innovation strategy for the Final Review.

One point is pending clarifications.

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### LEED Accredited Professional

POSSIBLE POINTS: 1

ATTEMPTED: 1, DENIED: 0, PENDING: 0, AWARDED: 1

**Awarded : 1**



## Regional priority credits

### Rainwater Management

POSSIBLE POINTS: 1

ATTEMPTED: 1, DENIED: 0, PENDING: 0, AWARDED: 1

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### Heat Island Reduction

POSSIBLE POINTS: 1

ATTEMPTED: 1, DENIED: 0, PENDING: 0, AWARDED: 1

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### Outdoor Water Use Reduction

POSSIBLE POINTS: 1

ATTEMPTED: 1, DENIED: 0, PENDING: 0, AWARDED: 1

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### Indoor Water Use Reduction

POSSIBLE POINTS: 1

ATTEMPTED: 1, DENIED: 0, PENDING: 0, AWARDED: 1

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### Optimize Energy Performance

POSSIBLE POINTS: 1

ATTEMPTED: 1, DENIED: 0, PENDING: 1, AWARDED: 0

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### Renewable Energy Production

POSSIBLE POINTS: 1

**TOTAL**

**130**

**65**

**2**

**1**

**62**



REVIEW SUMMARY

Review			POINTS:			
	SUBMITTED	RETURNED	SUBMITTED	DENIED	PENDING	AWARDED
<b>Precertification Preliminary</b>	<b>03/22/2019</b>	<b>07/17/2019</b>	<b>65</b>	<b>0</b>	<b>29</b>	<b>36</b>
Credit	STATUS	TYPE	POINTS: ATTEMPTED	DENIED	PENDING	AWARDED
Project Information	Pending		0	0	0	0
Integrative Process	Awarded	Design	1	0	0	1
Surrounding Density and Diverse Uses	Awarded	Design	6	0	0	6
Access to Quality Transit	Awarded	Design	3	0	0	3
Bicycle Facilities	Pending	Design	1	0	1	0
Reduced Parking Footprint	Awarded	Design	1	0	0	1
Green Vehicles	Awarded	Design	1	0	0	1
Construction Activity Pollution Prevention	Awarded	Construction	0	0	0	0
Site Assessment	Awarded	Design	1	0	0	1
Rainwater Management	Awarded	Design	4	0	0	4
Heat Island Reduction	Awarded	Design	2	0	0	2
Tenant Design and Construction Guideline	Awarded	Design	1	0	0	1
Outdoor Water Use Reduction	Awarded	Design	0	0	0	0
Outdoor Water Use Reduction	Awarded	Design	3	0	0	3
Indoor Water Use Reduction	Pending	Design	0	0	0	0
Indoor Water Use Reduction	Pending	Design	7	0	7	0
Building-Level Water Metering	Awarded	Design	0	0	0	0
Cooling Tower Water Use	Awarded	Design	2	0	0	2
Water Metering	Awarded	Design	1	0	0	1
Fundamental Commissioning and Verification	Awarded	Construction	0	0	0	0
Minimum Energy Performance	Pending	Design	0	0	0	0
Optimize Energy Performance	Pending	Design	10	0	10	0
Building-Level Energy Metering	Awarded	Design	0	0	0	0
Fundamental Refrigerant Management	Awarded	Design	0	0	0	0
Enhanced Commissioning	Awarded	Construction	4	0	0	4
Advanced Energy Metering	Pending	Design	1	0	1	0
Demand Response	Pending	Construction	1	0	1	0
Enhanced Refrigerant Management	Awarded	Design	1	0	0	1
Green Power and Carbon Offsets	Awarded	Construction	2	0	0	2
Storage and Collection of Recyclables	Awarded	Design	0	0	0	0
Construction and Demolition Waste Management Planning	Pending	Construction	0	0	0	0
Building Product Disclosure and Optimization - Environmental Product Declarations	Awarded	Construction	1	0	0	1

Construction and Demolition Waste Management	<b>Pending</b>	Construction	<b>2</b>	<b>0</b>	<b>2</b>	<b>0</b>
Minimum Indoor Air Quality Performance	<b>Pending</b>	Design	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
Environmental Tobacco Smoke Control	<b>Awarded</b>	Design	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
Enhanced Indoor Air Quality Strategies	<b>Pending</b>	Design	<b>2</b>	<b>0</b>	<b>1</b>	<b>1</b>
Construction Indoor Air Quality Management Plan	<b>Pending</b>	Construction	<b>1</b>	<b>0</b>	<b>1</b>	<b>0</b>
Innovation	<b>Pending</b>	Design	<b>5</b>	<b>0</b>	<b>5</b>	<b>0</b>
LEED Accredited Professional	<b>Awarded</b>	Construction	<b>1</b>	<b>0</b>	<b>0</b>	<b>1</b>

**Precertification Final****07/26/2019****08/20/2019****30****2****1****27**

<b>Credit</b>	<b>STATUS</b>	<b>TYPE</b>	<b>POINTS: ATTEMPTED</b>	<b>DENIED</b>	<b>PENDING</b>	<b>AWARDED</b>
Project Information	<b>Awarded</b>		<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
Bicycle Facilities	<b>Denied</b>	Design	<b>1</b>	<b>1</b>	<b>0</b>	<b>0</b>
Indoor Water Use Reduction	<b>Awarded</b>	Design	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
Indoor Water Use Reduction	<b>Awarded</b>	Design	<b>7</b>	<b>0</b>	<b>0</b>	<b>7</b>
Minimum Energy Performance	<b>Awarded</b>	Design	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
Optimize Energy Performance	<b>Awarded</b>	Design	<b>10</b>	<b>0</b>	<b>1</b>	<b>9</b>
Advanced Energy Metering	<b>Awarded</b>	Design	<b>1</b>	<b>0</b>	<b>0</b>	<b>1</b>
Demand Response	<b>Awarded</b>	Construction	<b>1</b>	<b>0</b>	<b>0</b>	<b>1</b>
Construction and Demolition Waste Management Planning	<b>Awarded</b>	Construction	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
Construction and Demolition Waste Management	<b>Awarded</b>	Construction	<b>2</b>	<b>0</b>	<b>0</b>	<b>2</b>
Minimum Indoor Air Quality Performance	<b>Awarded</b>	Design	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
Enhanced Indoor Air Quality Strategies	<b>Awarded</b>	Design	<b>2</b>	<b>0</b>	<b>0</b>	<b>2</b>
Construction Indoor Air Quality Management Plan	<b>Awarded</b>	Construction	<b>1</b>	<b>0</b>	<b>0</b>	<b>1</b>
Innovation	<b>Awarded</b>	Design	<b>5</b>	<b>1</b>	<b>0</b>	<b>4</b>



# ANNEXURE 12

## ENVIRONMENT MANAGEMENT CELL – COMMITTEE MEETING

<b>PROJECT:</b> Commercial cum Office complex at Technopark Phase-3 campus in (Non-SEZ) Sy. Nos 290/2(part), 290/3(part) & others, Village Attipara, Taluk & District Thiruvananthapuram, Kerala			
<b>EC REFERENCE NO:</b> 21-48/2018-IA-III, Dt: 07 <sup>th</sup> June, 2019		<b>Date:</b> 14 <sup>th</sup> Oct 2021	<b>Time:</b> 04:00PM
<b>MEETING NO:</b> TIH   DRPL   EMC   MOM   006		<b>VENUE:</b> Virtual through Microsoft Teams	
COMMITTEE MEMBERS			
SI No	Name	Designation	Company
1	R. Anil Kumar	Chief Operating Officer	Taurus Investment Holdings
2	Subash Muthanna	Chief Technical Officer	Taurus Investment Holdings
3	Jegadeswaran	AVP Development	Taurus Investment Holdings
4	P.Z. Thomas	Managing Director	Environmental Engineering & Consultant
5	Kavin.N	Consultant	En3 Sustainability Solution
6	Aneesh V A	Project Manager	Keller Ground Engineering Ltd
7	Vineed Thankappan	Manager HSE	Colliers International
8	Aswathy	Project Coordinator	JCJR Partnership
<b>Apologies:</b>			
<b>Distribution:</b>			

SL NO	POINTS DISCUSSED	OBSERVATIONS	REMARKS
1	COVID19 pandemic and lockdown	From 23-Feb-2020 onwards till date the site is under lockdown and hence no activities have happened. This is based on court order to Technopark / GoK and considering the health and wellness of site personnel	Post the lockdown once site resumes activities the measures will continue to be implemented as planned
2	Consent To Establish	Applied for Consent to establish from Kerala State Pollution Control Board for Taurus Zentrum Retail Mall on 26 <sup>th</sup> oct 2019.	Approval is yet to be provided by the authority. To be followed up as required
3	Other approvals	All the other clearances including fire, building permit, airport NOC are all on track and valid. The airport NOC is valid until 4/7/2022 and as of now no action needs to be taken	Info
4	This month completed activities	Nil	Info
5	Site preparation Post COVID19 and lockdown	It was suggested by the committee that the contractor must come up with a plan to ensure that post the lockdown once the site activities resume then various precautions and measures are taken to ensure safety and wellness of the workers and site personnel	Plan to be developed by contractor and implemented onsite once lockdown is lifted and site activities resume

Note: Necessary photographs and documents should be submitted before the mom. In case of any noncompliance of environmental measures, it should be brought to the notice of environmental monitoring cell immediately.

# ANNEXURE 13




## TEST REPORT

<b>ULR No:TC540222000001760F</b>		
LRI No.:SEAAL22030408A	Date: 14-03-2022	Page 1 of 2


CUSTOMER DETAILS	
Customer Name & Address	<b>M/s DORNE REALTY PRIVATE LIMITED</b> B'Hub, TC No.11/2402-3 Cardinal Cleemis Centre for Innovations, Mar Ivanios Vidya Nagar, Nalanchira, Thiruvananthapuram District
Customer Reference	Test Request dt : 07-03-2022

SAMPLE DETAILS			
Product Category	Water	Sample Code	WT22030057
Sample Name	Water	Sample Received on	09-03-2022
Sample Conditions at Receipt	Fit for Analysis	Temperature @ Receipt	5 °C
Sample Quantity& Packing	2L & 500 mL Plastic Bottle	Test Commenced on	09-03-2022
Sampled by	Lab Authorized Sampler	Test Completed on	12-03-2022
DETAILS OF SAMPLING			
Sample Source	KINFRA Supply -Storage Tank	Date of Sampling	07-03-2022
Sampling Procedure	SEAAL/ENL/GEN/SOP/01& SEAAL/MBL/SOP/06	Sample Temperature	31 °C

TEST RESULTS- CHEMICAL PARAMETERS					
Sl. No.	PARAMETERS	TEST METHOD	UNIT	RESULT	Requirement as per Acceptable Limit of IS 10500 : 2012
1	Colour	IS 3025 (Part 4):1983	Hazen	1.00	Max 5
2	Odour	IS 3025 (Part 5):2018	---	Agreeable	Agreeable
3	Turbidity	IS 3025 (Part 10):1984	NTU	<0.10	Max 1
4	pH	IS 3025 (Part 11):1983	---	6.92	6.50 - 8.50

  
**Shency Joy**  
Dy. TM Chemical  
Checked by:

  
**Salini T. S.**  
Microbiologist  
Authorized Signatory

  
**Lijun M.**  
Laboratory Head  
Authorized Signatory

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

### Standard<sup>S</sup> Environmental & Analytical Laboratories

Accreditation & Approval: NABL accredited Testing Laboratory as per ISO/IEC 17025:2017  
vide Certificate No. TC - 5402 & "A" Grade Laboratory approved by KSPCB.

K.J. Tower, Pathalam, Udyogamandal P.O., Ernakulam-683 501, Tel. 0484-2546660, 93 87 27 24 02, 90 74 34 14 43  
Web: www.sealabs.in, E-mail: seaalab@gmail.com

## TEST REPORT


<b>ULR No:TC540222000001760F</b>		
LRI No.:SEAAL22030408A	Date: 14-03-2022	Page 2 of 2


TEST RESULTS- CHEMICAL PARAMETERS					
Sl. No.	PARAMETERS	TEST METHOD	UNIT	RESULT	Requirement as per Acceptable Limit of IS 10500 : 2012
5	Conductivity	IS 3025 (Part 14):1984	μS/cm	77.0	---
6	Total Dissolved Solids	IS 3025 (Part 16):1984	mg/L	49.0	Max 500
7	Total Hardness as CaCO <sub>3</sub>	IS 3025 (Part 21):2009	mg/L	18.0	Max 200
8	Calcium as Ca	IS 3025 (Part 40):1991	mg/L	5.60	Max 75
9	Magnesium as Mg	IS 3025 (Part 46):1994	mg/L	<1.00	Max 30
10	Chloride as Cl	IS 3025 (Part 32):1988	mg/L	7.92	Max 250
11	Total Alkalinity as CaCO <sub>3</sub>	IS 3025 (Part 23):1986	mg/L	15.9	Max 200
12	Iron as Fe	IS 3025 (Part 53):2003	mg/L	<0.10	Max 1
13	Sulphate as SO <sub>4</sub>	IS 3025 (Part 24):1986	mg/L	1.62	Max 200

TEST RESULTS - BIOLOGICAL PARAMETERS					
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\*\*\*

  
 Agency Joy  
 Dr. TM Chemical  
 Checked by:

  
 Salini T. S.  
 Microbiologist  
 Authorized Signatory

  
 Leju P. N.  
 Laboratory Head  
 Authorized Signatory

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K.J. Tower, Pathalam, Udyogamandal P.O., Ernakulam-683 501, Tel. 0484-2546660, 93 87 27 24 02, 90 74 34 14 43

Web: www.sealabs.in, E-mail: seaalab@gmail.com

# ANNEXURE 14



## TEST REPORT

<b>ULR No: TC540222000001759FF</b>		
LRI No.:SEAAL22030407A	Date: 14-03-2022	Page 1 of 1

CUSTOMER DETAILS	
Customer Name & Address	<b>M/s DORNE REALTY PRIVATE LIMITED</b> B'Hub, TC No.11/2402-3 Cardinal Cleemis Centre for Innovations, Mar Ivanios Vidya Nagar, Nalanchira, Thiruvananthapuram District
Customer Reference	Test Request dt : 07-03-2022

DETAILS OF MONITORING			
Product Category	Atmospheric Pollution	Sample Code	EN22030127
Sample Name	Ambient Noise	Monitoring Commenced on	07-03-2022/ 06:00
Monitoring Location	Project Site-South Side	Monitoring Completed on	08-03-2022/ 06:00
Test Method	IS 9989:1981	Monitored by	Lab Authorized Sampler
Information Provided by Customer	---		

MONITORING RESULTS - Leq					
TIME	RESULTS dB(A)	TIME	RESULTS dB(A)	TIME	RESULTS dB(A)
06:00	31.9	14:00	42.8	22:00	30.9
07:00	34.2	15:00	43.1	23:00	34.5
08:00	37.8	16:00	44.1	24:00	37.0
09:00	40.8	17:00	44.4	01:00	37.7
10:00	42.8	18:00	39.8	02:00	37.4
11:00	45.4	19:00	36.8	03:00	38.1
12:00	43.1	20:00	33.6	04:00	37.0
13:00	42.4	21:00	33.2	05:00	38.8

TEST RESULTS- CHEMICALPARAMETERS			
Sl. No.	PARAMETERS	UNIT	RESULT
1	Ambient Sound Level (Leq) Day Time (06:00 to 22:00)	dB(A)	41.2
2	Ambient Sound Level (Leq) Night Time (22:00 to 06:00)	dB(A)	37.4

Remarks:

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

Checked by:  
Anency Joy  
By: TM Chemical

Lalju P. N.  
Laboratory Head  
Authorized Signatory

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

# ANNEXURE 15

## TEST REPORT


<b>ULR No:TC540222000001758F</b>		
LRI No.:SEAAL22030406A	Date: 14-03-2022	Page 1 of 1

CUSTOMER DETAILS	
Customer Name & Address	<b>M/s DORNE REALTY PRIVATE LIMITED</b> B'Hub, TC No.11/2402-3 Cardinal Cleemis Centre for Innovations, Mar Ivanios Vidya Nagar, Nalanchira, Thiruvananthapuram District
Customer Reference	Test Request dt: 07-03-2022

SAMPLE DETAILS			
Product Category	Atmospheric Pollution	Sample Code	EN22030126
Sample Name	Ambient Air	Sample Received on	09-03-2022
Sample Conditions at Receipt	Fit for Analysis	Test Commenced on	09-03-2022
Sampled by	Lab Authorized Sampler	Test Completed on	12-03-2022
Information Provided by Customer	---		
DETAILS OF SAMPLING			
Sampling Location	Project Site-South Side	Date of Sampling	07-03-2022
Sampling Procedure	SEAAL/ENL/GEN/SOP/02	Humidity	68%

TEST RESULTS- CHEMICAL PARAMETERS					
Sl. No.	PARAMETERS	TEST METHOD	UNIT	RESULT	NAAQ Standards
1	Particulate Matter, PM <sub>10</sub>	IS 5182 (Part 23):2006	µg/m <sup>3</sup>	38.4	Max 100
2	Particulate Matter, PM <sub>2.5</sub>	EPA 40 CFR (Part 50) Appendix - L	µg/m <sup>3</sup>	14.8	Max 60
3	Sulphur Dioxide as SO <sub>2</sub>	IS 5182 (Part 2): 2001	µg/m <sup>3</sup>	<2.00	Max 80
4	Oxides of Nitrogen as NO <sub>2</sub>	IS 5182 (Part 6): 2006	µg/m <sup>3</sup>	<2.00	Max 80

Remarks:

  
**Shency Joy**  
 Dy. TM Chemical  
 Checked by:



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

  
**Laiju P. N.**  
 Laboratory Head  
 Authorized Signatory

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



