

SIX-Monthly Environmental Compliance Report of Stipulated Conditions of Environmental Clearance

(JULY 2023)

Of

CONSTRUCTION OF TOWNSHIP PROJECT

At

SURVEY NO. 27/1, 30/4c, 31/4, 7,8,9, 32/4 351b,

OLAVANNA PANCHAYATH, DISTRICT

CALICUT, KERALA



CHAPTER 1

INTRODUCTION

1. **Project Type:** Building and Construction project
2. **Project Category:** Project comes under Category 8 (a) of EIA Notification 2006 and its amendments.
3. **Name of Project:**Construction of Township Project by M/s. Calicut Landmark Builders & Developers (India) Pvt. Ltd
4. **Location of Project:** survey no. 27/1, 30/4c,31/4,7,8,9,32/4 ,351b of pantheerankavu village olavanna panchayath, Kozhikode district , kerala.
5. **Environmental Clearance letter/OM No. & Date:** No 1193/EC2/2018/SEIAA dated 12.03.2020
6. **Address of Correspondence:**

M/s. Calicut Landmark Builders & Developers (India) Pvt. Ltd.
NH-17 Bypass Kozhikode ,Kerala 673014
7. **Compliance Period:** JULY 2023

CHAPTER 2

STATUS OF THE PROJECT

MoEF has accorded EC for construction of township Project at survey no. 27/1, 30/4c,31/4,7,8,9,32/4 ,351b of pantheerankavu village , olavanna panchayath, District Calicut, Kerala on a plot area of 3.309 ha and total built up area of 81589 sq.m by M/s. Calicut Landmark Builders & Developers (India) Pvt. Ltd.

Construction of the township project status given below,

CONSTRUCTION STATUS

CONSTRUCTION STATUS OF TOWNSHIP PROJECT At Survey no. 27/1, 30/4c,31/4,7,8,9,32/4 ,351b of Pantheerankavu village , Olavanna panchayath, District Calicut, Kerala	
TOWER NAME	STATUS
MILLENNIA CENTRE	95% finished.
LEON CENTRE	Structure Work in progress. – 13 th FLOOR SLAB
BUSINESS CENTRE	Structure Work in progress. – FOURTH FLOOR SLAB
CONVENTION CENTRE	78% finished.
INFRA STRUCTURE WORK	IN PROGRESS

CHAPTER 3

PURPOSE OF THE PROJECT

This six-monthly report will be submitted as per the conditions stipulated in the Environmental Clearance letter.

Further, the study will envisage the environmental impacts that have generated in the local environment due to the project.

The environmental assessment is being carried out to verify:

- That the project does not have any adverse environmental impacts in the project area and its surrounding .
- Compliance with the conditions stipulated in the Environmental Clearance Letter.
- That the Project Management is implementing the environmental mitigation measures as suggested in the approved Form-I, Form-IA and Environmental Management Plan (EMP).

CHAPTER-4

ENVIRONMENTAL CLEARANCE LETTER

COPY



AFFIDAVIT

We hereby undertake that we are following all EC guidelines provided by SEIAA Kerala for the project named "Landmark Trade Centre" with reference to the Environmental clearance no. 44/2020 dated 12.03.2020.

06.01.2022
Calicut


Calicut Landmark Builders & Developers India Pvt. Ltd.


Anvar Sadath C
(DIRECTOR)



I, the deponent solemnly affirmed and signed before me at Calicut on 6/1/2022




MUJEEBURAHMAN. K
ADVOCATE & NOTARY
CHALATH TOWER, OPP. COURT COMPLEX GATE
COURT ROAD, CALICUT, KERALA - 673 001
S. INDIA, Mob: 9946364131, 9447263131

Notarial Register Particulars
Sl. No. 63 Vol. 53 Page No. 131
Date 6/1/2022



Validity expires on 11.03.2025

**PROCEEDINGS OF THE ADMINISTRATOR, STATE
ENVIRONMENT IMPACT ASSESSMENT AUTHORITY,
THIRUVANANTHAPURAM**
(Present. SHAHER BANU)

Sub: SEIAA- Environmental Clearance for the Proposed Mixed use Township Development Project 'Landmark Trade Centre' in Survey Nos. 27/1, 30/4c, 31/4, 7, 8, 9, 32/4, 351b of Pantheerankavu Village, Olavanna Panchayath, Kozhikode Taluk & Kozhikode District, Kerala by Mr. Anwar Sadath, Director, M/s Calicut Landmark Builders & Developers (India) Pvt. Ltd - granted - Orders issued

STATE ENVIRONMENTAL IMPACT ASSESSMENT AUTHORITY

No. 1193/EC2/2018/SEIAA

Dated, Thiruvananthapuram 12.03.2020

- Ref:
1. Application dated 27.11.2018 from Sri.Anwar Sadath, Director, M/s Calicut Landmark Builders & Developers (India) Pvt. Ltd. Landmark World, N.H.17 Bypass, Kozhikode, Kerala-673014.
 2. Minutes of 89th meeting of SEAC held on 1st December 2018
 3. Minutes of 95th SEAC meeting held on 27th & 28th March 2019.
 4. Minutes of the 97th meeting of SEAC held on 21st & 22nd May 2019.
 5. Minutes of 93rd meeting of SEIAA held on 30th May 2019
 6. Minutes of 95th meeting of SEIAA held on 29th July 2019
 7. Minutes of 97th SEIAA meeting held on 24.09.2019
 8. Minutes of 100th SEIAA meeting held on 23rd and 24th December 2019.
 9. Minutes of 101st SEIAA meeting held on 17th & 18th January 2020
 10. Minutes of 110th meeting of SEAC held on 11th & 12th February 2020

ENVIRONMENTAL CLEARANCE NO. 44 /2020

Sri.Anwar Sadath, Director, M/s Calicut Landmark Builders & Developers (India) Pvt. Ltd, Landmark World, N.H.17 Bypass, Kozhikode, Kerala-673014 vide his application received on 27.11.2018 has sought environmental clearance under the EIA Notification, 2006 for the proposed mixed use Township Development Project 'Landmark Trade Centre' in Survey Nos. 27/1, 30/4c, 31/4, 7, 8, 9, 32/4, 351b of Pantheerankavu Village, Kozhikode Taluk & Kozhikode District, Kerala. It is inter alia, noted that the project comes under the Category B 8(a) of Schedule of EIA Notification 2006.

The proposed Mixed use Township development consisting of 2 residential towers (210 units), studio apartment (204 units), business park, 70 key hotel with restaurant facility and 500 pax convention centre and a club house. The total plot area of the project is 3.309 ha and the total built-up area is 81, 589 sq.m. The maximum height of the proposed building is 44.80 m. The parking proposed is 775 cars & 2900 two- wheelers. The total power requirement is 6.50 MW, which is sourced from Kerala State Electricity Board & D.G. Sets (standby). The total project cost is 350 crores.

2) The proposal placed in the 89th SEAC meeting held on 4th December, 2018 and the committee deferred the proposal for next meeting for want of following additional details:

1. Measures taken to segregate floating population
2. Need assessment mechanism to be ensured with CER
3. Report from pollution control Board
4. Measures taken to prevent minor subsidence due to sub-surface clay patches
5. Access road should have a minimum width of 14 m
6. Mechanisms to be taken for access to all type of people
7. Water management report
8. Report on evacuation

3) The proponent submitted additional documents as sought by 89th SEAC and the proposal placed before 95th SEAC meeting held on 27th & 28th March 2019 and committee decided to conduct the site visit.

4) Site Visit conducted on 03.05.2019 by sub committee of SEAC and the proposal placed in 97th meeting of SEAC held on 21st & 22nd May 2019. The committee observed that the proponent had already started land development and construction activities without waiting for environmental clearance from SEIAA. This is clear violation of relevant rules and procedures issued by the Ministry of Environment and Forests. So sub committee recommended to initiate action for gross violation of rules and procedures. SEAC accepted the recommendation of sub committee and decided to recommend SEIAA for starting action against the proponent for violating relevant rules and regulations for issuing environmental clearance.

5) The proposal was placed in the 93rd SEIAA meeting held on 30th May 2019. SEIAA accepted the recommendation of SEAC and decided the following

1. Direct the District collector and the Secretary, Kozhikkode Corporation to issue Stop Memo and report compliance.
2. Initiate violation proceedings against the proponent as per S.O 1030 (E) dt.08.03.2018 under EIA Notification 2006.

6) The proponent vide his letters dated 29.05.2019 and 12.06.2019 informed that proposed project was first envisaged as a mere commercial building with total built up area of 6826 square metres of which the construction initiated is only 800 sqmtrs. Since the total area is less than 20000 square metres, it was not necessary to get the prior Environmental

Clearance approval as per EIA 2006. Later they had thought of expansion of the project and hence submitted application to develop a mixed use township. In view of this, the proponent informed that they does not comes under the purview of violation proceedings.

7) The proposal is considered in the 95th SEIAA meeting held on 29th July, 2019 and Authority examined the representations dt.29.05.2019 & 12.06.2019 submitted by the proponent. The Authority is of the opinion that, the representation do not deserve any consideration and hence Authority decided to stick to the above decisions taken in its 93rd meeting held on 03rd June 2019. Accordingly direction given to the District Collector and the Secretary, Kozhikkode Corporation on 27.08.2019 to issue Stop Memo and report compliance.

8) The proponent as per his representation dated.26.08.2019, has intimated that, as per Judgment of the Hon'ble Supreme Court in IA Nos-2609-2610 of 2009 in WP(C) No.202/95 filed by T.N Godavarman Thirumulpad, no EC is required from SEIAA or MoEF for the building of a Township below the area of 1,50,000 sq.m and hence requested to consider their application, at the earliest, and to accept their request to invalidate the decision of SEIAA based on the judgment.

9) The proposal Placed in 97th SEIAA meeting held on 24.09.2019. The Authority noted that the building permit was granted by Olavanna Grama Panchayat on 26.10.2017. This project is basically a township development project but covered under category B(8a) of the schedule, as the built up area is 81589 sq.mts, which is less than 1,50,000 sq.mts required for considering the project under township area development projects. All category B(8a) (building & construction projects) require EC. No doubt, the project of this magnitude will have environmental impact and EC is mandatory under EIA Notification 2006. This was known to the proponent and he has applied for EC but started construction before issue of EC leading violation of EIA Notification 2006.

The proponent vide his letter dated 26.08.2019 addressed to Member Secretary has requested for withdrawal of violation proceedings quoting a Supreme Court Judgment in I.A. Nos. 2609-2610 of 2009 in WP (Civil) No.2002 of 1995, dt.03.12.2010. A perusal of the Judgment shows that Supreme Court was analysing the reasons for classifying the projects under category 8(a) or 8(b) and ultimately Supreme Court was also of the opinion that there is an ambiguity in classification of category 8(a) & 8(b) projects based on the area. Finally Supreme Court decided that the project in question in UP state does not come under category 8 (b), as the area is less than 1,50,000 sq.mts and hence project does not fall within the limit of EIA Notification S.O 1533 (E) dated 14th September 2006. This judgment pertains to a different project in the State of Uttar Pradesh, specific to that project under given circumstances of the case and this may not be made uniformly applicable to other projects in the whole of the country.

Authority noted that the proponent project is covered under category 8(a) and there is no ambiguity on that account and the proposal was processed accordingly right from the beginning for obtaining EC. In S.O 804(E) dated.14.03.2017, sub paragraph (3) in para 13 reads that " in cases of violation action will be taken against the project proponent by

respective state or State Pollution Control Board under the provision of S.19 of the EPA Act 1986 and further no consent to operator or occupance certificate will be issued till the project is granted EC”.

In the meantime MoEF in its latest OM dated 09th September 2019 has clarified that the violation falling in the window period of 14.03.2017 to 13.09.2017 & 14.03.2018 to 13.04.2018 or prior to it, can be considered for initiating violation procedures under OM dated.14.03.2017 & 08.03.2018. MoEF& CC is silent on the violation that have taken place beyond this window period. In this instant case the violation has taken place beyond this window period.

Authority decided to take up the matter with MoEF& CC for an urgent clarification on this issue with directions for procedure to be followed for the violation that have taken place beyond the window period.

Letter has been sent to Director, MoEF&CC to consider the matter and furnish urgent clarification on this issue. But no report received.

11) Sri. Anwar Sadath, Director submitted a request on 12.12.2019 enclosing a copy each of the Judgment of the Hon'ble High Court of Bombay in WP, © 470/2013 and Judgment dated 10.07.2019. in WA 215/2018 and requested for a personal hearing.

12) The proposal was considered in the 100th SEIAA meeting held on 23rd December 2019. As requested by the Project Proponent in his letter dated 11.12.2019, an opportunity of being heard was given to the Project Proponent on 23.12.2019. The Authorised representatives of Project Proponent appeared before the Authority and put forth their views in support of their claim that there had been no violation to EIA Notification 2006. They also produced two judgments one each from of Hon'ble High Court of Maharashtra and Hon'ble High Court of Kerala in support of their claim. However they have failed in convincing the Authority that no violation of EIA Notification 2006 had taken place. Authority decided to wait for the reply from MoEF& CC, Gol. for further course of action.

13) The proponent again submitted a representation dated 28.12.2019 as appeal against the decision of the Authority. The proponent also submitted an affidavit stating that the construction activities beyond 20,000 sq.m will commence only after getting EC from SEIAA. Proponent has been invited for hearing at 101st SEIAA meeting on 17.01.2020. The Olavanna Grama Panchayath Secretary, also invited to attend the meeting.

14) The proposal was placed before 101st SEIAA meeting held on 17th & 18th January 2020. Authority noted all the developments that have taken place after the submission of the application for EC. Authority also perused all the documents produced by the proponent in support of their claim that there had been no violations to EIA Notification 2006. The proponent appeared before the Authority and stated that the construction work of only one building with built up area of less than 20,000 m² for which EC was not required, was commenced on site and in their application (Form I) they have wrongly stated the project, as a totally new project. He stated that, in fact the project is an expansion of the existing building and they have made a mistake in Form I by not mentioning it and they have apologized for the mistakes they have committed. The proponent had requested to treat their application for the expansion of the existing building of area less than 20,000 m² upto which

EC is not required. He has also stated that he will be careful in future and will not commit any irregularity in violation of EIA notification both during construction and operation phases of the project.

As per the direction of the Authority, Panchayat Secretary, Olavanna Grama Panchayat had also appeared before the Authority and stated that he had given a building permit [Permit No.A4-BA(90337)/2017 dt.26.10.2017] for the construction of a building with a total building area of 508.84 m². Proponent stated that he has taken up the construction of only this building as permitted by the local authorities. Proponent had also given a written statement narrating all the above points.

As per para 7 (ii) of EIA Notification 2006, prior Environmental Clearance can be given for the expansion or modernization or change of product mix in the existing project. During the hearing the proponent has given an undertaking that no further construction activity will be taken in excess of 20,000 m² without taking prior Environmental Clearance under the provision of EIA Notification 2006.

Under the circumstance Authority decided to give approval for the project considering it as an expansion, subject to the following conditions.

1. *In the SEIAA meeting held on 17th January 2020, after the personal hearing, proponent has given an undertaking and he shall scrupulously follow his undertaking during the construction and operation phase of the project.*
2. *Proponent shall not violate any rules and regulations under EIA Notification 2006 as well as other rules and regulations of Govt. Kerala applicable to this Project.*
3. *Proponent shall carry out all ameliorative measures to rectify the environmental damage caused if any, in the project region, due to present construction activity, as suggested by SEAC to the best satisfaction of SEAC.*
4. *During the pendency of EC, SEAC shall make an inspection and the proponent shall abide by the conditions if any suggested.*
5. *Activities relating to Corporate Environmental Responsibilities amounting to Rs.7 crores shall be carried out leading to protection and promotion of environment including waste management in the project district as per OM F.No.22-65/2017-IA-III dt.01.05.2018 of MoEF& CC as directed by Director, Directorate of Environment & Climate Change and supervised by District Collector.*
6. *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).*

15) The proposal was placed in the 110th SEAC meeting held on 11th & 12th February 2020 and committee entrusted the Subcommittee to conduct the field inspection and monitor the compliance of the conditions of the EC.

16) In this circumstances, Environmental Clearance is granted to Mr. Anwar Sadath, Director, M/s. Calicut Landmark Builders and Developers (India) Pvt.Ltd for the project considering it as an expansion for the proposed Mixed use Township Development Project 'Landmark Trade Centre' in Survey Nos. 27/1, 30/4c, 31/4, 7, 8, 9, 32/4, 351b of Pantheerankavu Village, Kozhikode Taluk & Kozhikode District, Kerala subject to the conditions in para 14 above 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 on 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.

17. 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.

18. Validity of this Environmental Clearance will be five years from the date of issuance of Environmental Clearance subject to inspection by SEIAA on annual basis and compliance of the conditions, subject to earlier review of EC 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 .

19) Compliance of the conditions herein will be monitored by Authority or its agencies and also by the regional office of the Ministry of Environment& Forests Government of India, Bangalore.

20) Necessary assistance for entry and inspection should be provided by the project proponent.

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

22) 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 . Hardcopy of HYCRs shall not be acceptable.

23) The given address for correspondence with the authorised signatory of the project is Sri Anwar Sadath, Director, M/s Calicut Landmark Builders & Developers (India) Pvt. Ltd., Landmark World, N.H.17 Bypass, Kozhikode, Kerala-673014.


SHAHER BANU
Administrator, SEIAA

To,

Sri Anwar Sadath, Director,
M/s Calicut Landmark Builders &
Developers (India) Pvt. Ltd.
Landmark World, N.H.17 Bypass,
Kozhikode, Kerala-673014

Copy to,

1. MoEF Regional Office, Southern Zone, Kendriya Sadan, 4th 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, Government of Kerala
3. The Director, Directorate of Environment & Climate Change, 4th Floor KSRTC Bus Terminal, Thampanoor, Thiruvananthapuram, Kerala 695001.
4. District Collector, Kozhikkode
5. The Member Secretary, Kerala State Pollution Control Board
6. The District Town Planner, Kozhikkode
7. Tahsildar, Kozhikkode Taluk
8. Village Officer, Pantheerankavu Village, Kozhikkode- 673014
9. Secretary, Olavanna Grama Panchayath, G.A. College (P.O.) Mangavu, Pantheerankavu Road, Mathara, Kozhikkode- 673014
10. Chairman, SEIAA.
11. Website,
12. S.f/ O/c

Minutes of Meeting held on August 7th 2021 of y Environmental monitoring Cell - Landmark Trade Centre held at construction site - Pantheeramkavu - Calicut.

Attendees: Project Manager - Biljith P
Health & Safety Officer - Akshay Mohan
Project Engineer - Rajesh P
Representative of Director - Ubaib P

The meeting discussed several measures to deal with the Environmental management plans and it was decided to implement the following strategies.

1. Sprinkling and wetting of Roads to avoid dust.
2. Do safety fencing for deep excavations.
3. Segregation of Plastic waste & scrap waste for proper recycling and disposal.

The meeting concluded at 11 Am. and minutes forwarded to Director for Approval.

Approved



CHAPTER-5

SITE PHOTOGRAPHS

1.MILLENNIA CENTRE



STP



SIX MONTHLY COMPLIANCE REPORT OF TOWN SHIP PROJECT AT SURVEY NO. 27/1,30/4c,31/4,7,8,9,32/4 351b OF PANTHEERANKAVU VILLAGE , OLAVANNA PANCHAYATH, KOZHIKODE DISTRICT , KERALA.



Fire Room





2. LEON CENTRE



3. BUSINESS CENTRE



STP



4. CONVENTION CENTRE



CHAPTER 6

POINT-WISE COMPLIANCE OF STIPULATED ENVIRONMENTAL CONDITIONS/ SAFEGUARDS IN THE ENVIRONMENTAL CLEARANCE

No. 1193/EC2/2018/SEIAA dated 12.03.2020

Sl. No.	Conditions	Status of Compliance
PART A - SPECIFIC CONDITIONS: Construction Phase:-		
1	“Consent for Establishment” shall be obtained from Kerala State Pollution Control Board under Air and Water Act and a copy shall be submitted to the Ministry before start of any construction work at the site.	“Consent for Establishment” already obtained from Kerala State Pollution Control Board under Air and Water Act Consent PCB/KKD/DO/ICE-EXP/03/2022 dated 23/02/2022 and valid upto 22/02/2027. a copy is enclosed as Annexure-I
2	Provision shall be made for the 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.	For the construction labour within the site (peak time maximum 100 workers) all necessary infrastructure and facilities such as canteen, power, toilets, safe drinking water etc., is made available. Provided soak pit and cooking gas facility within the site.
3	A first aid room will be provided in the project both during construction and operation of the project.	First Aid room has being provided in the construction site and it will be kept for operation phase. Details is enclosed as Annexure- III.
4	All the topsoil excavated during construction activities should be stored for use in horticulture/ landscape development within the project site.	The top soil excavated was being stored within the project site for use in landscape during the later stages of the development and is duly being used for the landscaping work. Details is enclosed as Annexure- IV.
5	Disposal of muck during construction phase should 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.	Precautions are being taken while disposing muck during construction phase so it will not create any adverse effect on the neighboring communities.
6	Soil and ground water samples will be tested to ascertain that there is no threat to ground water quality by leaching of heavy metals and other toxic contaminants.	Testing of soil and Ground water analysis is being done from time to time and no signs of contamination have been found. Water Analysis reports.

SIX MONTHLY COMPLIANCE REPORT OF TOWN SHIP PROJECT AT SURVEY NO. 27/1,30/4c,31/4,7,8,9,32/4 351b OF PANTHEERANKAVU VILLAGE , OLAVANNA PANCHAYATH, KOZHICODE DISTRICT , KERALA.

7	Construction spoils, including bituminous material and other hazardous materials, must not be allowed to contaminate water courses and the dump sites for such material must be secured so that they should not leach into the ground water.	Construction spoils are used for leveling that it on the middle of the site. Our hot mix plants are located far away from site from which the mixes are prepared and transported to site and using mechanical devices and pavers for surfacing roads. So the contamination in this manner can be ruled out. Plant showing photographs are enclosed as Annexure- V .
8	Any hazardous waste generated during construction phase, should be disposal off as per applicable rules and norms with necessary approval of the Kerala State Pollution Control Board.	Only spent oil of D.G. sets is hazardous waste generated during construction phase which is disposed of as per applicable Rules & norms to sold to approved recyclers.
9	The diesel generator sets to be used during construction phase should be low sulphur diesel type and should conform to Environment (Protection) Rules prescribed for air and noise emission standards.	Low Sulphur Diesel is being used for the DG set (2 nos 125 KVA. 1 nos 400 KVA with acoustic system) during construction phase. It is attached as Annexure- VI .
10	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.	The quantity of diesel required during construction phase is very less and during operation phase it will be stored in underground tanks if required.
11	Vehicles hired for bringing construction material to the site should be in good condition and should have pollution check certificate and should conform to applicable air and noise emission standards and should be operated only during non-peak hours.	It is being ensured that vehicles(Max 15 vehicles in the peak period) hired for bringing construction material at site are in good condition and with valid “pollution under check” (PUC) certificate and conform to applicable air and noise emission standards and are operated only during non-peak hours. Pollution Under Check certificate for the vehicles are attached as Annexure – VII
12	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 made to reduce ambient air and noise level during construction phase, so as to conform to the stipulated standards by CPCB/KSPCB.	Ambient noise levels will conform to standards both during day and night. Incremental pollution loads on the ambient air and noise quality is being closely monitored during construction phase. Adequate measures are being made to reduce ambient air and noise level during construction phase, so as to conform to the stipulated standards. Noise levels & air monitoring reports are attached as Annexure – IX .
13	Fly ash should be used as building material in the construction as per the provisions of Fly Ash Notification of September, 1999 and amended as on 27 th August, 2003. (The above condition is applicable only if the project site is located within the 100 km of Thermal Power Stations)	Since the fly ash is not common in this area. We are unable to use the fly ash material as construction material.

14	Ready mixed concrete must be used in building construction.	Ready mixed concrete is only being used in building construction. Photos of RMC at site attached as Annexure- V
15	Storm water control and its re-use as per CGWB and BIS standards for various applications.	We will follow the CGWB and BIS standards and will install Rain Water harvesting pits and waste water will be treated in a STP and treated water will be reused as much as possible in the project premises.
16	Water demand during construction should be reduced by use of premixed concrete, curing agents and other best practices referred.	Water demand is being reduced in the construction phase to the level possible. In the monsoon season no extra water needs to be used for curing due to the continuous rains
17	Permission to draw ground water shall be obtained from the Competent Authority prior to construction / operation of the project.	Application has been filled for withdrawal of water for the construction and operation phase.
18	Separation of grey and black water should be done by the use of dual plumbing line for separation of grey and black water.	Dual plumbing system has been installed for meeting chiller, horticulture and flushing needs.
19	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.	Water efficient fixtures will only be used and the water fixtures that come under tenant's scope will be insisted.
20	Use of glass may be reduced by up to 40% to reduce the electricity consumption and load on air-conditioning. If necessary, use high quality double glass with special reflective coating in windows.	High quality double glass with special reflective coating is being used in the building.
21	Roof should meet prescriptive requirement as per Energy Conservation Building Code by using appropriate thermal insulation material to fulfill requirement.	Proper thermal insulation material for roof will be provided to reduce energy requirement and ECBC norms will be adhered to.
22	Opaque wall should meet prescriptive requirement as per Energy Conservation Building Code which is proposed to be made mandatory for all air-conditioned spaces while it is aspirational for non-air conditioned spaces by use of appropriate thermal insulation material to fulfill requirement.	ECBC norms will be adhered to.

23	The approval of the competent authority shall be obtained for structural safety of the building due to earthquake, adequacy of firefighting equipments, etc. as per National Building Code including protection measures form lightening etc.	The structural Designer has considered all these aspects prior to the designing and has done structural design .Approval has been taken from the Fire department vide letter No. F2-2336/2020 dated 16.03.2020 , F2-2338/2020 dated 16.03.2020, F2-2339/2020 dated 16.03.2020,F2-2623 dated 16.03.2020 Lightening Arrestors will be put up on the roof of the buildings. Fire NOC copy is enclosed as Annexure- VIII.
24	Regular supervisions of the above and other measures for monitoring should be in place all through the construction phase, so as to avoid disturbance to the surroundings.	Proper barricading is done so as to avoid disturbance to the surroundings and supervisors are there to supervise the project work and control the impact on environment during construction phase. Photos of the same attached as Annexure- XI.
25	Under the provisions of environment (protection) Act, 1986, legal action shall be initiated against the project proponent if it was found that construction of the project has been started without obtaining environmental clearance.	Environmental Clearance letter has been obtained from SEIAA Kerala 1193/EC2/2018/SEIAA dated 12.03.2020 Copy of Environmental Clearance letter is enclosed in Chapter-6.
II. OPERATION PHASE		
1	The installation of the Sewage treatment Plant (STP) should be certified by an independent expert and a report in this regard should be submitted to the ministry before the project is commissioned for operation. Treated affluent emanating from STP shall be recycled/reused to the maximum extent possible. Treatment of 100% grey water by decentralized treatment should be done. Discharge of unused treated affluent shall conform to the norms and standards of the Kerala State Pollution Control Board. Necessary measure should be made to mitigate the odor problem from STP.	The STP will be installed for the treatment of sewage generated to the prescribed standards including odor and treated effluent will be recycled to the maximum extent possible to achieve Zero Discharge. In case treated effluent is to discharge separately during monsoon period the effluent will conform to the norms of Kerala State Pollution Control Board. “Consent for Operate” already obtained from Kerala State Pollution Control Board under Air and Water Act Consent PCB/KKD/DO/ICE-EXP/03/2022 dated 23/02/2022and valid upto 22/02/2027.
2	The solid waste generated should be properly collected and segregated. Wet garbage should be composted and dry/ insert solid waste should be disposed off to be approved sites for land filling after recovering recyclable material.	During operation phase solid waste generated will be properly collected & segregated. Wet garbage will be sent for composting and dry/inert solid waste would be disposed off to approved sites for agricultural purpose/for land filling after recovering recyclable material.

3	Diesel power generating sets proposed as source of backup power for elevators and common area illumination during operation phase should be of enclosed type and conform to rules made under the Environment (Protection) Act, 1986. The height of stack of DG sets should be equal to the height needed for the combined capacity of all proposed DG sets. Use low sulphur diesel. The location of the DG sets may be decided with in consultation with Kerala State Pollution control Board.	During operation phase DG sets will be installed in case of power failure. These will be of the enclosed type and will also be provided with adequate stack height as per CPCB norms. In addition these DG sets will be run on low sulphur diesel only (Sulphur content < 0.25%)
4	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.	Noise level will be controlled within and at the boundaries of the project ensuring compliance to regulatory norms
5	The green belt of the adequate width and density preferably with local species along the periphery of the plot shall be raised so as to provide protection against particulates and noise.	Green belt of adequate width and density being provided with local species along the periphery of the plot for the provide protection against particulates and noise.
6	Weep holes in the compound walls shall be provided to ensure natural drainage of rain water in the catchments area during the monsoon period.	Natural drainage of rain water, during the monsoons will be aided by provision of weep holes in the compound walls.
7	Rain water harvesting for roof-off and surface run-off, as plan submitted should be implemented. Before recharging the surface run-off, pre-treatment must be done to remove suspended matter, oil and grease. The borewell for rain water recharging should be kept at least 5 mts.above the highest ground water table.	Rain water Harvesting as per plan for roof run-off and surface run off will be implemented. Suspended matter, oil and grease will be removed by treatment before recharging with surface run-off. The bore well for recharge will be kept at least 5 mts. above the highest ground water table.
8	The ground water level and its quality should be monitored regularly in consultation with Central Ground water Authority.	Yes, time to time ground water level and its quality will be monitored regularly in consultation with CWRDM.
9	Traffic congestion near the entry and exist points from the roads adjoining the proposed project site must be avoided. Parking should be fully internalized and no public space should be utilized.	Parking will be completely internalized and no public space will be utilized. Care will be taken to ensure that there is no traffic congestion at the entry and exit points.
10	A report on the energy conservation measures confirming to energy conservation norms finalize 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.	Report on energy conservation measure conforming to energy conservation norms finalized by BEE will be prepared, which will include details of building materials and technology, R & U factors etc and submitted to the Ministry.

11	Energy conservation measures like installation of CFLs/TFLs for the lighting the areas outside the building should be integral part of the project design and should be properly collected and disposed off/sent for recycling as per the prevailing guidelines/rules of the regulatory authority to avoid mercury contamination. Use of solar panels may be done to the extent possible	Energy conservation measures like installation of CFLs/LEDs for lighting the areas outside the building would be integral part of the project design and would be in place before project commissioning. Used CFLs & LEDs would be properly collected and sent for recycling as per the guidelines of the regulatory authority to avoid Mercury contamination. Solar energy is used for street lighting.
12	Adequate measure should be taken to prevent odor problem from solid waste processing plant and STP.	Separate secondary processing area is identified and a green muffler zone will be created around it so as to prevent odor problem from solid waste processing plant as also from the STP.
13	The building should have adequate distance between them to allow movement of fresh air and passage of natural light, air and ventilation.	Buildings will have adequate distance between them to allow movement of fresh air and passage of natural light, air and ventilation.
PART – B. GENERAL CONDITIONS		
1	The project proponent shall also submit six monthly reports on the status of compliance of the stipulated EC conditions including results of monitored data (both in hard copies as well as by e-mail) to the respective Regional Office of MOEF, the respective Zonal Office of CPCB and the SPCB.	We will submit six month report on the status of compliance of the stipulated EC conditions including results of monitored data (both in hard copies as well as by e-mail) to the respective Regional Office of MOEF, the respective Zonal Office of CPCB and the SPCB.
2	Officials from the Regional Office of MoEF, Bangalore who would be monitoring the implementation of environmental safeguards should be given full cooperation, facilities and documents/data by the project proponents during their inspection. A complete set of all the documents submitted to MoEF should be forwarded to the CCF, Regional Office of MoEF, Bangalore.	A complete set of all the documents had submitted to Regional Office of MoEF, CCF, Bangalore.
3	In the case of any change(s) in the scope of the project, the project would require a fresh appraisal by this Ministry.	Agreed.
4	The Ministry reserves the right to add additional safeguard measures subsequently, if found necessary, and to take action including revoking of the environment clearance under the	Agreed, the Ministry reserves the right to add additional safeguard measures subsequently, if found necessary, and to take action including revoking of the environment

SIX MONTHLY COMPLIANCE REPORT OF TOWN SHIP PROJECT AT SURVEY NO. 27/1,30/4c,31/4,7,8,9,32/4 351b OF PANTHEERANKAVU VILLAGE , OLAVANNA PANCHAYATH, KOZHIKODE DISTRICT , KERALA.

	provisions of the Environmental (Protection) Act, 1986, to ensure effective implementation of the suggested safeguard measures in a time bound and satisfactory manner.	clearance under the provisions of the Environmental (Protection) Act, 1986, to ensure effective implementation of the suggested safeguard measures in a time bound and satisfactory manner.
5	All other statutory clearances such as the approvals for storage of diesel from Chief Controller of Explosives, Fire Department, Civil Aviation Department, Forest Conservation Act, 1980 and Wildlife (Protection) Act, 1972 etc. shall be obtained as applicable by project proponents from the respective competent authorities.	Agreed
6	These stipulations would be enforced among under the provisions of Water (Prevention and Control of Pollution) Act, 1974, the Air (Prevention and Control of Pollution) Act, 1981, the Environment (Prevention) Act, 1986, the Public Liability (Insurance) Act. 1991 and EIA Notification, 2006	As per the Water (Prevention and Control of Pollution) Act, 1974, the Air (Prevention and Control of Pollution) Act, 1981 we have already obtained CTE from Kerala State Pollution Control Board and since our project build up area more than 20,000 sqm we have already obtained Environmental Clearance from MoEF as per EIA Notification, 2006 and its amendments.
7	The project proponent should advertise in at least two local newspapers widely circulated in the region, one of which shall be in the vernacular language informing that the project has been accorded Environmental Clearance and copies of clearance letters are available with the Kerala Pollution Control Board and may also be seen on the website of the Ministry of Environment and Forests, at http://www.envfor.nic.in . The advertisement should be made within 10 days from the date of receipt of the clearance letter and a copy of the same should be forwarded to the Regional office of this Ministry at Bangalore	The project proponent had already advertised in two local newspapers a copy of the same had been submitted to the Regional office of this Ministry at Bangalore. A copy of advertisement is enclosed as Annexure-X11 .
8	Environmental clearance is subject to final order of the Hon'ble Supreme Court of India in the matter of Goa Foundation v/s. Union of India in Writ Petition (Civil) No.460 of 2004 as may be applicable to this project.	Agreed
9	A copy of the clearance letter shall be sent by the proponent to concerned Panchayat, ZillaParisad/Municipal Corporation, Urban Local Body and the Local NGO, if any from	Agreed

SIX MONTHLY COMPLIANCE REPORT OF TOWN SHIP PROJECT AT SURVEY NO. 27/1,30/4c,31/4,7,8,9,32/4 351b OF PANTHEERANKAVU VILLAGE , OLAVANNA PANCHAYATH, KOZHIKODE DISTRICT , KERALA.

	whom suggestions/representations, if any, were received while processing the proposal. The clearance letter shall also be put on the website of the company by the proponent.	
10	The proponent shall upload the status of compliance of the stipulated EC conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the Regional Office of MoEF, the respective Zonal office of CPCB and the SPCB. The criteria pollutant levels namely; SPM, RSPM, SO ₂ , NO _X (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the project shall be monitored and displayed at a convenient location near the main gate of the company in the public domain.	Compliance report is being submitted to Regional Office of MoEF and SPCB.
11	The environmental statement for each financial year ending 31st March in Form-V as in mandated to be submitted by the project proponent to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended Subsequently, shall also be put on the website of the company along with the status of compliance of EC conditions and shall also be sent to the respective Regional Offices of MoEF by e-mail.	The environmental statement for each financial year ending 31st March in Form-V will be submitted.

Sl. No.	ANNEXURES	Page No
I	Copy of Consent for Establishment from Kerala State Pollution Control Board under Air and Water Act	33-34
II	Photographs showing labour camp	35-36
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VIII	Copy of Pollution Under Check certificate for the vehicles	46-48
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KERALA STATE POLLUTION CONTROL BOARD

FILE NO. :PCB/HO/R19KOZ350636/2020

Date of issue :24/07/2022

CONSENT VARIATION ORDER

Consent No : PCB/KKD/DO/ICE-Var/12185/R19KOZ350636/17469923/2022

Ref : 1.Your online Application no.17469923 dated 03.03.2022

2.Consent No.PCB/HO/KKD/ICE-EXP/03/2022 dated 23/02/2022 validity to :22/02/2027

The ' Integrated Consent to Establish' issued as per reference above to M/s LANDMARK TRADE CENTREOPP. HP PETROL PUMP, NH-66, PANTHEERANKAVU, GURUVAYURAPPAN COLLEGE (P.O), KOZHIKODE is hereby modified & issued to M/s LANDMARK TRADE CENTREOPP. HP PETROL PUMP, NH-66, PANTHEERANKAVU, GURUVAYURAPPAN COLLEGE (P.O), KOZHIKODE The consent(s)/ variation order(s) cited under reference are integral part of this consent variation order and this order is subject to the conditions stipulated therein and the following modifications/ additions.

I. GENERAL

S.No.	Items	Description
1	ACTIVITY	156 apartments (2 bhk - 116 nos and 3 bhk -40 nos)Total built-up area- 26838.45 sq.m.
2	Capital Investment(Rs in Lakhs)	4429.47 /-
3	Category	ORANGE
4	Fee remitted(Rs)	1

II. Stack Details

Stack No.	Source of Emission	Emission Rate(Nm3/Hr)	Stack Height above		Control Equipment
			Ground Level	Roof Level	

III. CONDITIONS

5.1. This consent is granted subject to the power of the Board to review and make variations in all or any of the conditions as per section 21 of the Air (Prevention and Control of Pollution) Act 1981 and section 25 of the Water (Prevention and Control of pollution) Act 1974

- 5.2. At the end of the validity period if the construction is in progress, the same shall be got renewed. If the construction is not started in the consent period, the applicant shall apply afresh for consent to establish.
- 5.3. The applicant shall comply with the instructions that the Board may issue from time to time regarding prevention and control of air, water, land and sound pollution.
- 5.4. Consent to Operate under the Water (Prevention and Control of Pollution) Act, 1974 and the Air (Prevention and Control of Pollution) Act, 1981 shall be obtained by the builder before commissioning the project. The date of commissioning of the project shall be intimated at least one month in advance to the District Office of the Board.

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

DATE :24/07/2022

Sauma Hameed

Digitally signed by Sauma Hameed
Date: 2022.07.25 22:03:47 +05'30'

SIGNATURE & SEAL OF ISSUING AUTHORITY
ENVIRONMENTAL ENGINEER



To

Mr. ANVAR SADATH C, NADUVATHINI (H), IRINGALLOOR, NEAR FAROOQUE JUMA MASJID,
GURUVAYURAPPAN COLLEGE, KOZHIKODE 673014
OPP. HP PETROL PUMP, NH-66, PANTHEERANKAVU, GURUVAYURAPPAN COLLEGE (P.O),
KOZHIKODE

- 1. This digitally signed document is legally valid as per the Information Technology Act 2000**
2. For verifying this document please go to krocmmms.nic.in and search using date of issue/name of the unit/Application Number in "Consent Granted Applications" link in the home page of the Board's Online Consent Management and Monitoring System.

LABOUR CAMP



SIX MONTHLY COMPLIANCE REPORT OF TOWN SHIP PROJECT AT SURVEY NO. 27/1,30/4c,31/4,7,8,9,32/4 351b OF PANTHEERANKAVU VILLAGE , OLAVANNA PANCHAYATH, KOZHIKODE DISTRICT , KERALA.



FIRST AID ROOM

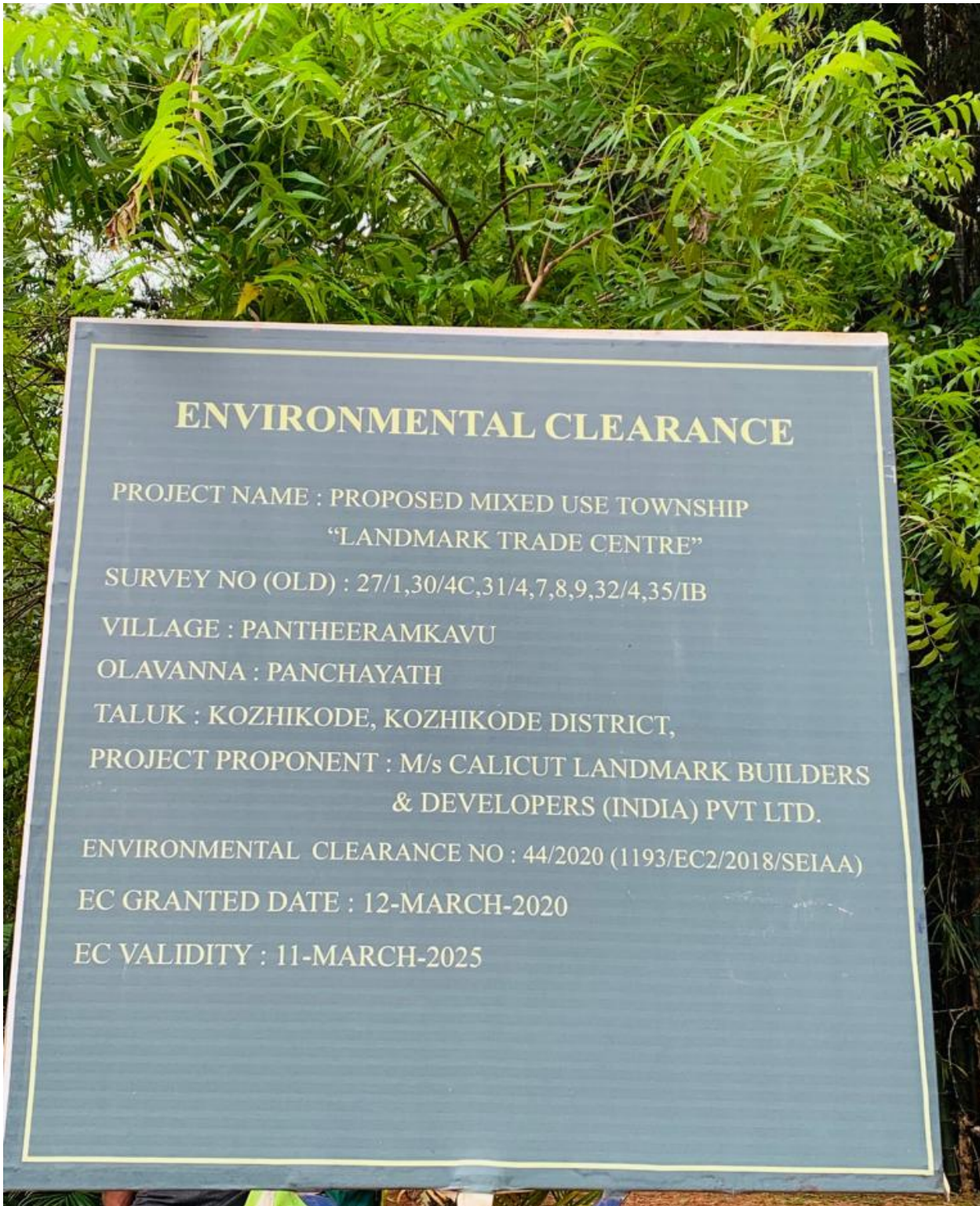


SIX MONTHLY COMPLIANCE REPORT OF TOWN SHIP PROJECT AT SURVEY NO. 27/1,30/4c,31/4,7,8,9,32/4 351b OF PANTHEERANKAVU VILLAGE , OLAVANNA PANCHAYATH, KOZHIKODE DISTRICT , KERALA.



ENTRANCE





SAFETY POINT



TOP SOIL STORAGE AREA



SCRAP COLLECTION AREA



MIXER MACHINE



CONCRETE PLANT



DIESEL GENERATOR



Form 59

[See rules 115 (2)]

Pollution Under Control Certificate

Authorised By :
GOVERNMENT OF KERALA

Date : **19/08/2023**
Time : **15:42:26 PM**
Validity upto : **18/02/2024**



Certificate SL. No. : KL01100340016966
Registration No. : KL11AE0349
Date of Registration : 10/Nov/2009
Month & Year of Manufacturing : October-2009
Valid Mobile Number : *****2887
Emission Norms : BHARAT STAGE III
Fuel : DIESEL
PUC Code : KL0110034
GSTIN :
Fees : Rs.110.00
MIL observation : (GST to be paid extra as applicable)
No

Vehicle Photo with Registration plate
60 mm x 30 mm



Sr. No.	Pollutant (as applicable)	Units (as applicable)	Emission limits	Measured Value (upto 2 decimal places)
1	2	3	4	5
Idling Emissions	Carbon Monoxide (CO)	percentage (%)		
	Hydrocarbon, (THC/HC)	ppm		
High idling emissions	CO	percentage (%)		
	RPM	RPM	2500 ± 200	
	Lambda	-	1 ± 0.03	
Smoke Density	Light absorption coefficient	1/metre	2.45	1.0

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

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

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

Form 59
[See rules 115 (2)]

Pollution Under Control Certificate
 Authorized By :
 GOVERNMENT OF KERALA

Date : 10/11/2022
Time : 11:13:41 AM
Validity upto : 09/11/2023

Certificate SL. No.	: KL01100330006504
Registration No.	: KL53L6327
Date of Registration	: 30/May/2017
Month & Year of Manufacturing	: January/2017
Valid Mobile Number	: ****1665
Emission Norms	: BHARAT STAGE IV
Fuel	: DIESEL
PUC Code	: KL0110033
GSTIN	:
Fees	: Rs.130.00
MIL observation	: (GST to be paid extra as applicable) No

Vehicle Photo with Registration plate
 60 mm x 30 mm

Sr. No.	Pollutant (as applicable)	Units (as applicable)	Emission Limits	Measured Value (upto 2 decimal places)
1	Carbon Monoxide (CO)	percentage (%)		
	Hydrocarbon, (THC/HC)	ppm		
2	CO	percentage (%)		
	RPM	RPM	2500 ± 200	
	Lambda	-	1 ± 0.03	
3	Smoke Density	Light absorption coefficient	1.62	0.05

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

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

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

SIX MONTHLY COMPLIANCE REPORT OF TOWN SHIP PROJECT AT SURVEY NO. 27/1,30/4c,31/4,7,8,9,32/4 351b OF PANTHEERANKAVU VILLAGE , OLAVANNA PANCHAYATH, KOZHIKODE DISTRICT , KERALA.

Firefox

<https://vahan.parivahan.gov.in/puch/newspucCertificateNew.shtml>

Form 59

[See rules 115 (2)]

Pollution Under Control Certificate

Authorised By
GOVERNMENT OF KERALA

Date : 07/11/2022
Time : 12:10:33 PM
Validity upto : 06/11/2023



Certificate SL No. : KL01100070021634
Registration No. : KL11BQ2937
Date of Registration : 23/Jul/2019
Month & Year of Manufacturing : January-2019
Valid Mobile Number : *****3290
Emission Norms : BHARAT STAGE IV
Fuel : DIESEL
PUC Code : KL0110007
GSTIN :
Fees : Rs.180.00
(GST to be paid extra as applicable)
MIL observation : No

Vehicle Photo with Registration plate
60 mm x 30 mm



Sr. No.	Pollutant (as applicable)	Units (as applicable)	Emission limits	Measured Value (upto 2 decimal places)
1	2	3	4	5
Idling Emissions	Carbon Monoxide (CO)	percentage (%)		
	Hydrocarbon, (THC/HC)	ppm		
High idling emissions	CO	percentage (%)		
	RPM	RPM	2500 ± 200	
	Lambda	-	1 ± 0.03	
Smoke Density	Light absorption coefficient	1/metre	1.62	0.28

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

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

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





DEPARTMENT OF FIRE & RESCUE SERVICES
GOVERNMENT OF KERALA

No. F2-2336/2020

Dated : 16.03.2020.

FIRE SAFETY CLEARANCE FOR SITE

1. Name & Address of the Applicant : Sri.Anvar Sadath.C. (Managing Director)
Basecare Projects & Developers Pvt. Ltd.,
Landmark World, NH-66 Bypass,
Iringallur.P.O., G.A.College, Kozhikode-14.
2. Name of the Company : -
3. Occupancy type of Building : Residential
4. Height of the Building : 42.65 mtrs.
5. Number of Floors of the Building : 16 F (B+G+14)
6. Total Plinth Area (in sqm) : 16626.06 m²
7. Survey No : 27/17, 18, 19, 30/41, 42, 43, 44, 31/28, 29, 30,
31,32, 34, 35, 36, 41, 42, 32/1, 47, 58, 82, 83, 56,
81, 48, 49, 50, 84, 35/27, 28, 101, 102, 103, 108,
109, 110, 111.
8. Village : Pantheerankavu
9. Gramapanchayat : Olavanna
10. District : Kozhikode

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 KPBR.

The Fire Plan drawings were scrutinized and compared with the Checklist (Form No.R3) 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.



DEPARTMENT OF FIRE & RESCUE SERVICES
GOVERNMENT OF KERALA

No. F2-2338/2020

Dated : 16.03.2020.

FIRE SAFETY CLEARANCE FOR SITE

1. Name & Address of the Applicant : Sri.Anvar Sadath.C. (Managing Director)
Basecare Projects & Developers Pvt. Ltd.,
Landmark World, NH-66 Bypass,
Iringallur.P.O., G.A.College, Kozhikode-14.
2. Name of the Company : -
3. Occupancy type of Building : **Business**
4. Height of the Building : **39.95 mtrs.**
5. Number of Floors of the Building : **13 F (B2+B1+G+10 F)**
(Parking – B2+B1)
6. Total Plinth Area (in sqm) : **16639.91 m²**
7. Survey No : **27/17, 18, 19, 30/41, 42, 43, 44, 31/28, 29, 30,
31,32, 34, 35, 36, 41, 42, 32/1, 47, 58, 82, 83, 56,
81, 48, 49, 50, 84, 35/27, 28, 101, 102, 103, 108,
109, 110, 111.**
8. Village : **Pantheerankavu**
9. Gramapanchayat : **Olavanna**
10. District : **Kozhikode**

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 KPBR.

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.



DEPARTMENT OF FIRE & RESCUE SERVICES
GOVERNMENT OF KERALA

No. F2-2339/2020

Dated : 16.03.2020.

FIRE SAFETY CLEARANCE FOR SITE

1. Name & Address of the Applicant : Sri.Anvar Sadath.C. (Managing Director)
Basecare Projects & Developers Pvt. Ltd.,
Landmark World, NH-66, Bypass,
Iringallur.P.O., G.A.College, Kozhikode-14.
2. Name of the Company : -
3. Occupancy type of Building : Assembly cum Residential
(Multiplex Occupancy)
4. Height of the Building : 33.95 mtrs.
5. Number of Floors of the Building : 10 F (B+G+8)
6. Total Plinth Area (in sqm) : 5858.59 m²
7. Survey No : 27/17, 18, 19, 30/41, 42, 43, 44, 31/28, 29, 30,
31,32, 34, 35, 36, 41, 42, 32/1, 47, 58, 82, 83, 56,
81, 48, 49, 50, 84, 35/27, 28, 101, 102, 103, 108,
109, 110, 111.
8. Village : Pantheerankavu
9. Gramapanchayat : Olavanna
10. District : Kozhikode

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 KPBR.

The Fire Plan drawings were scrutinized and compared with the Checklist (Form No.R9) 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.



DEPARTMENT OF FIRE & RESCUE SERVICES
GOVERNMENT OF KERALA

No. F2-2623/2020

Dated : 24.04.2020.

FIRE SAFETY CLEARANCE FOR SITE

1. Name & Address of the Applicant : Sri.Anvar Sadath.C. (Managing Director),
Basecare Projects & Developers Pvt.Ltd.,
Landmark World, NH-66 Bypass,
Iringallur.P.O., G.A.College, Kozhikode-14.
2. Name of the Company : -
3. Occupancy type of Building : **Mercantile cum Residential (Multiplex)**
4. Height of the Building : **Mercantile – 4.05 mtrs.**
Residential – 41.85 mtrs.
5. Number of Floors of the Building : **16 F (B+G+14)**
6. Total Plinth Area (in sqm) : **Mercantile – 814.40 m²**
Residential – 17420.99 m²
7. Survey No : **R.S.No.27/17, 18, 19, 30/41, 42, 43, 44, 31/28,**
29, 30, 31, 32, 34, 35, 36, 41, 42, 32/1, 47, 58, 82,
83, 56, 81, 48, 49, 50, 84, 35/27, 28, 101, 102,
103, 108, 109, 110, 111.
8. Village : **Pantheerankavu**
9. Gramapanchayat : **Olavanna**
10. District : **Kozhikode**

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.R3) 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.

Standards



TEST REPORT

ULR No: TC1219123000000722F		
LRI No.: SEAA28091256A	Date: 19-09-2023	Page 1 of 2

CUSTOMER DETAILS	
Customer Name & Address	M/s Calicut Landmark Builders & Developers India Pvt. Ltd. Pantheerankavu Village, Olavanna, Kozhikode District
Customer Reference	Test Request Date: 12-09-2023

SAMPLE DETAILS			
Product Category	Water	Sample Code	WT28090267
Sample Name	Ground Water	Sample Received on	18-09-2023
Sample Description by Customer	Open Well Water	Temperature @ Receipt	27°C
Sample Conditions at Receipt	Fit for Analysis	Test Commenced on	14-09-2023
Sample Quantity & Packing	1 L & 125 ml in a Plastic Bottle	Test Completed on	18-09-2023
Information Provided by Customer	---	Sampled by	Lab Authorized Sampler

SAMPLING SITE DETAILS			
Survey No.	27/1, 30/4C, 31/4, 7, 8, 9, 32/4, 351 b		
Village	Pantheerankavu	Taluk	Kozhikode
District	Kozhikode	State	Kerala

TEST RESULTS- CHEMICAL PARAMETERS					
Sl. No.	PARAMETERS	TEST METHOD	UNIT	RESULT	Requirement as per Acceptable Limit of IS 10500: 2012
1	Colour	IS 8025 (Part 4): 1983	Hazen	1	5 (Max)
2	Odour	IS 8025 (Part 5): 2018	---	Agreeable	Agreeable
3	Turbidity	IS 8025 (Part 10): 1984	NTU	0.1	1.0 (Max)
4	pH	IS 8025 (Part 11): 1983	---	6.85	6.50-8.50

Neany A.K.
Chemist
Checked by



Remya B.
TM-Biological
Authorized Signatory

Laiju P.M.
Laboratory Head
Authorized Signatory

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Standards Environmental & Analytical Laboratories

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vide Certificate No. TC - 12191 & "A" Grade Laboratory approved by KSPCB.

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

Standards



TEST REPORT

ULR No: TC1219123000000722F		
LRI No.: SEAAAL28091256A	Date: 19-09-2023	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	121	---
6	Total Dissolved Solids	IS 3025 (Part 16): 1984	mg/L	77.4	500 (Max)
7	Total Hardness as CaCO ₃	IS 3025 (Part 21): 2009	mg/L	40.0	200 (Max)
8	Calcium as Ca	IS 3025 (Part 40): 1991	mg/L	10.4	75 (Max)
9	Magnesium as Mg	IS 3025 (Part 46): 1994	mg/L	8.41	80 (Max)
10	Chloride as Cl	IS 3025 (Part 82): 1988	mg/L	20.1	250 (Max)
11	Total Alkalinity as CaCO ₃	IS 3025 (Part 28): 1986	mg/L	9.90	200 (Max)
12	Iron as Fe	IS 3025 (Part 58): 2008	mg/L	0.20	1 (Max)
13	Sulphate as SO ₄	IS 3025 (Part 24): 1986	mg/L	1.88	200 (Max)

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

Nesity A.K.
Chemist
Checked by



Remya B.
TM-Biological
Authorized Signatory

Laiju P.M.
Laboratory Head
Authorized Signatory

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

Standards



TEST REPORT

ULR No: TC1219123000000721F		
LRI No.: SEAAL23091255A	Date: 19-09-2023	Page 1 of 2

CUSTOMER DETAILS	
Customer Name & Address	M/s Calicut Landmark Builders & Developers India Pvt. Ltd. Pantheerankavu Village, Olavanna, Kozhikode District
Customer Reference	Test Request date: 12-09-2023

DETAILS OF MONITORING			
Product Category	Atmospheric Pollution	Sample Code	EN23090364
Sample Name	Ambient Noise	Monitoring Commenced on	12-09-2023
Test Method	IS 9989:1981	Monitoring Completed on	13-09-2023
Monitoring Location	East Side boundary	Monitored by	Lab Authorized Sampler

SAMPLING SITE DETAILS			
Survey No.	27/1, 30/4C, 31/4, 7, 8, 9, 32/4, 351 b		
Village	Pantheerankavu	Taluk	Kozhikode
District	Kozhikode	State	Kerala

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

Neesy A.K.

Neesy A.K.
Chemist
Checked by



Laiju P.N.

Laiju P.N.
Laboratory Head
Authorized Signatory

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Standards Environmental & Analytical Laboratories

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

Standards



TEST REPORT

ULR No: TC1219123000000721F		
LRI No.: SEAL28091255A	Date: 19-09-2023	Page 2 of 2

Sl. No.	PARAMETERS	UNIT	RESULT
1	Ambient Sound Level (Leq) Day Time	dB(A)	48.8
2	Ambient Sound Level (Leq) Night Time	dB(A)	38.8

Remarks:

End of Report

Standards

Standards



TEST REPORT

ULR No: TC1219123000000720F		
LRI No.: SEAAAL28091254A	Date: 19-09-2023	Page 1 of 1

CUSTOMER DETAILS	
Customer Name & Address	M/s Calicut Landmark Builders & Developers India Pvt. Ltd. Pantheerankavu Village, Olavanna, Kozhikode District
Customer Reference	Test Request date: 12-09-2023

SAMPLE DETAILS			
Product Category	Atmospheric Pollution	Sample Code	EN28090868
Sample Name	Ambient Air	Sample Received on	13-09-2023
Sample Conditions at Receipt	Fit for Analysis	Test Commenced on	14-09-2023
Sampled by	Lab Authorized Sampler	Test Completed on	18-09-2023

DETAILS OF SAMPLING			
Sampling Location	East Side Boundary	Date of Sampling	12-09-2023
Sampling Procedure	SEAAAL/ENL/GEN/SOP/02	Humidity	68 %

SAMPLING SITE DETAILS			
Survey No.	27/1, 30/4C, 31/4, 7, 8, 9, 32/4, 351 b		
Village	Pantheerankavu	Taluk	Kozhikode
District	Kozhikode	State	Kerala

TEST RESULTS-CHEMICAL DISCIPLINE					
SL NO	PARAMETERS	TEST METHOD	UNIT	RESULT	NAAQ STANDARD
1	Particulate matter, PM ₁₀	IS 5182 (Part 28): 2006	ug/m ³	65.6	100 (Max)
2	Particulate matter, PM _{2.5}	IS 5182 (Part 24): 2019	ug/m ³	37.1	60.0 (Max)
3	Sulphur dioxide as SO ₂	IS 5182 (Part 2): 2001	ug/m ³	4.27	80.0 (Max)
4	Oxides of Nitrogen as NO _x	IS 5182 (Part 6): 2006	ug/m ³	4.91	80.0 (Max)

End of Report

Nesny A.K.
Chemist
Checked by



Laju P.N.
Laboratory Head
Authorized Signatory

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



KERALA WATER AUTHORITY

QUALITY CONTROL SUB DISTRICT LAB

MALAPARAMBA, KOZHIKODE

Ph: 0495 2964751

E-mail : qualitysdmalaparamba@gmail.com

TEST REPORT

Report No -KWA/KKD/1013/23

CALICUT LANDMARK BUILDERS & DEVELOPERS PVT.LTD	1.Date of Receipt	: 13/07/2023
	2. Sample condition	: FIT FOR ANALYSIS
	3.Sampling done by	: PARTY
	4.Sample code	: KWA/KKD/1013/23
	5.Source of sample	: OPEN WELL
	6.Sample quantity	: 100ml
	7.Test performing dates From : 13/07/2023	To :18/07/2023

Sl. No	Characteristics	Unit	Test Method	Acceptable limits as per IS 10500-2012	Result
1	Coliforms	CFU/100 ml	IS 15185(part1) 2002 reaffirmed2016	Shall not be detectable in any 100ml sample	NIL
2	E coli	CFU/100 ml	IS 15185(part1) 2002 reaffirmed2016	Shall not be detectable in any 100ml sample	NIL

TNTC-Too Numerous To Count

NB:- The results stated above related only to the samples(S) submitting for testing. This test Certificate shall not be reproduced except in full without the written approval of the Laboratory.

Authorized By : Microbiologist



KERALA WATER AUTHORITY
 QUALITY CONTROL SUB DISTRICT LAB
 MALAPARAMBA
 KOZHIKODE
 Ph: 0495 2964751,
 E-mail : qualitysdmalaparamba@gmail.com



TEST REPORT

No -TC10559230000001013P

Date of issue: 13/07/2023

Customer Name & Address	1.Date of Receipt	: 13/07/2023
CALICUT LANDMARK BUILDERS & DEVELOPERS PVT.LTD	2. Sample condition	: FIT FOR ANALYSIS
	3.Sampling done by	: PARTY
	4.Sample code	: KWA/KKD/1013/23
	5.Source of sample	: OPEN WELL
	6.Sample quantity	: 1 LTR
	7.Test performing dates From	: 13/07/2023
		To

Sl. No	Characteristics	Unit	Test Method	Acceptable limits as per IS 10500-2012	Result
1	Colour	Pt Co. unit	IS 3025 (part 4)-2021	5.0	<5.0
2	Odour		IS 3025 (part 5)-2018	Agreeable	Agreeable
3	Turbidity	(NTU)	IS 3025 (part 10)-1984 (Reaffirmed 2017)	1.0	<0.5
4	pH at --- °C	-	IS 3025 (PART 11)-2022	6.5 to 8.5	5.40
5	Total Alkalinity (as CaCO ₃)	(mg/L)	IS 3025 (PART 23)-1986 (Reaffirmed 2019)	200	5.79
6	Total Dissolved Solids(TDS)	(mg/L)	IS 3025 (part 16)-1984 (Reaffirmed 2017)	500	55
7	Total Hardness (as CaCO ₃)	(mg/L)	IS 3025 (part 21)-2009 (Reaffirmed 2019)	200	17.82
8	Calcium (as Ca)	(mg/L)	IS 3025 (part 40)-1991 (Reaffirmed 2019)	75	<5.0
9	Magnesium (as Mg)	(mg/L)	IS 3025 (part 46)-1994 (Reaffirmed 2019)	30	<5.0
10	Chloride (as Cl)	(mg/L)	IS 3025 (part 32)-1988 (Reaffirmed 2019)	250	15.65

ND: - Not Done

NB: - The results stated above related only to the samples(S) submitting for testing. This test Certificate shall not be reproduced except in full without the written approval of the Laboratory.

Analyzed By: Chemist

End of Report

Authorized By : Deputy Quality Manager

DEPUTY QUALITY MANAGER
 KERALA WATER AUTHORITY
 SUB DISTRICT LABORATORY
 KOZHIKODE

KWA/KKD/F4

Issue No. 01 Issue Date :01/01/2022

Rev.No. 00

Rev.Date : 00



KERALA WATER AUTHORITY

QUALITY CONTROL SUB DISTRICT LAB

MALAPARAMBA, KOZHIKODE

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E-mail : qualitysdmalaparamba@gmail.com

TEST REPORT

Report No – KWA/KKD/1013/23

Customer Name & Address CALICUT LANDMARK BUILDERS & DEVELOPERS PVT.LTD	1.Date of Receipt	: 13/07/2023
	2. Sample condition	: FIT FOR ANALYSIS
	3.Sampling done by	: PARTY
	4.Sample code	: KWA/KKD/1013/23
	5.Source of sample	: OPEN WELL
	6.Sample quantity	: 1 LTR
	7.Test performing dates From : 13/07/2023	To :18/07/2023

Sl. No	Characteristics	Unit	Test Method	Acceptable limits as per IS 10500-2012	Result
1	Electrical conductivity at 25°C	(micro mhos/cm)	IS 3025 (part 14)-2013 (Reaffirmed 2019)	-	83
2	Acidity	(mg/L)	IS 3025 (part 22)-1986 (Reaffirmed 2019)	-	55
3	Sulphate (as SO ₄)	(mg/L)	IS 3025 (PART 24)-1986 (Reaffirmed 2019)	200	1.6
4	Phosphate [as PO ₄]	(mg/L)	IS 3025 (PART 31)-2008 (Reaffirmed 2019)	-	BDL
5	Fluoride (as F)	(mg/L)	APHA 4500F-D 23 rd Edition	1.0	ND
6	Iron (as Fe)	(mg/L)	IS 3025 (part 53)-2003 (Reaffirmed 2014)	1.0	BDL
7	Nitrate (as NO ₃)	(mg/L)	APHA 4500NO3-B 23 rd Edition	45	15
8	Ammonia	(mg/L)	IS 3025 (part 34)-2008 (Reaffirmed 2019)	0.5	BDL
9	Residual Chlorine	(mg/L)	IS 3025 (part 26)-1986 (Reaffirmed 2019)	0.2	ND

BDL: BELOW DETECTION LEVEL

NB:- The results stated above related only to the samples(S) submitting for testing. This test Certificate shall not be reproduced except in full without the written approval of the Laboratory.

Analyzed By: Chemist

End of Report

Authorized By : Deputy Quality Manager

DEPUTY QUALITY MANAGER
KERALA WATER AUTHORITY
SUB DISTRICT LABORATORY
KOZHIKODE

KWA/KKD/F4

Issue No. 01

Issue Date :01/01/2022

Rev.No. 00

Rev.Date : 00

REPORT ON SOIL INVESTIGATION



Project : Proposed Shopping Centre
Building at Pantheerankavu, Kozhikode

Client : M/s. Base Care,
Kozhikode.

Consultant : Prof. A.K.Abdulkalam M.Tech (Retd.)
Civil Engineering Consultant,
Aluva.

ACE FOUNDATIONS CALICUT

2/858, E.K.Complex, Near Eranhilalam Post Office, Calicut - 673 006

Ph: 0495-2768293, Mobile: 098460 86524

E-mail: acefoundationscalicut@gmail.com

REPORT ON SOIL INVESTIGATION CARRIED OUT FOR THE PROPOSED SHOPPING CENTRE BUILDING AT PANTHEERANKAVU,CALICUT.

1. SCOPE OF WORK

The scope of the project envisages sub-surface investigation carried out for the purpose of the design of foundation for the proposed factory building. The scope of the work also involves executing **Seven Bore holes** with rated field tests, collection of disturbed SPT Soil Samples.

2. CODES AND STANDARDS

All works were carried out as per given specification. Where not specified, the latest relevant IS codes were followed.

3. PURPOSE

The purpose of the proposed Geo-Technical Investigation was to obtain the following:-

- a. To perform the required field investigation including soil boring with related field tests within the bore hole, collecting samples.
- b. To determine the type, extent to the sub-surface material upto **Hard strata/rock**.

4. FIELD WORKS / TESTS

The Field work consists of:-

- a. Executing **Seven Bore holes** upto **Hard strata/rock**.
- b. Obtaining disturbed soil samples and finding out SPT 'N' values.

5. PROGRAMME OF INVESTIGATION

Keeping in view of the type of structure and loading pattern, Seven boreholes was proposed. The details of the boreholes are attached duly showing the approximate dimensions with respect to the site. (Site Plan).

6. PROCEDURE

The Boreholes were executed using **Rotary Drilling Method**. Circulation of bentonite slurry was used for advancing the boreholes and stabilizing the side. Casing pipes were introducing to protect the first few meters. Standard penetration tests were conducted at regular intervals and also at points where change of strata was observed. Representative samples were collected and sent **BH-7** for laboratory analysis. Foundation recommendation obtained from structural consultant.

7. LABORATORY INVESTIGATION

Laboratory tests consists of the following:-

- a) Physical identification of soil
- b) Determination of natural water content.
- c) Specific Gravity
- d) Attenberg's limit (Liquid limit, plastic limit and shrinkage limit)
- e) Mechanical analysis of finding sand, clay and silt fractions

Soil Investigation Report

07-05-2018

Introduction

M/s. ACE Foundations, Calicut, Calicut has conducted subsoil investigation for a 6 storied Commercial Building at Pantheerankavu, Calicut for M/s. Base care, Calicut. They have taken 7 bore hole up to hard strata using rotary drill. Standard penetration tests were conducted at regular vertical intervals and soil samples were taken from these depths. These samples were analyzed in M/s. Geo Engineering Lab, Koonammavu, Kochi for identification and soil classification.

Soil Profile

In BH1, soil up to 4.2m depth is hard laterite with N-values >50 and 47 at 1.5m and 3m depths. From 4.2m to 7.3m it is very hard laterite with N-values >50. From 7.3m to 18.3m it is lateritic clay with silt and sand and N-value varies from 20 to 35. Hard strata is met at 18.3m and BH is terminated at this depth. In BH2, soil up to 7.6m depth is very hard laterite with N-values >50. From 7.6m to 8.9m it is medium laterite with N-value 37. From 8.9m to 30.8m it is silty clay with sand and N-value varies from 17 to 28. Weathered rock with N-value >50 is met at 30.8m, hard strata at 33.7m and BH is terminated at this depth. In BH3, soil up to 7.8m depth is hard laterite with N-values >50. From 7.8m to 33.2m it is medium lateite and stiff silty clay with N-values varying from 15 to 34. Weathered rock with N-value >50 is met at 33.2m, hard strata at 34.6m and BH is terminated at this depth. Soil profile in BH4 is similar to that of BH3. Hard strata is met at 13.1m and BH is terminated at this depth. In BH5, soil up to 4.2m depth is very hard laterite with N-values >50. From 4.2m to 26.3m it is medium laterite and stiff lateritic clay with sand and silt and N-value varies from 18 to 34. Weathered rock with M-value >50 is met at 26.3m, hard strata at 28.4m and BH is terminated at this depth. In BH6, soil up to 5.7m depth is laterite with N-values 19, 41 and 38 at 1.5m, 3m and 4.5m depths. From 5.7m to 16.7, it is stiff lateritic clay with sand and silt and N-value varies from 20 to 45. Weathered rock with N-value >50 is met at 16.7m, hard strata at 17.8m and BH is terminated at this depth. In BH7, soil up to 5.3m depth is stiff lateritic clay with N-values 23, 37 and 32 at 1.5m, 3m and 4.5m depths. Weathered sand with N-value 25 is met at 5.3m, hard rock at 6.8m and BH is terminated at 5.7m depth.

Recommendation

Isolated column footings with its base at 1.2m for the areas represented by BHs 1 to 5, 2.5m depth for the area represented by BH6 and at 3m for the area represented by BH7 is recommended. Safe bearing capacity for an isolated column footing 1.5m x 1.5m when placed at recommended depths can be taken as 40t/m². Columns are to be connected by rigid grade beam at ground level.

This recommendation is based on the study of the borehole chart presented to me by M/s. ACE Foundations, Calicut. At the time of excavation if any change is observed in soil stratification, it should be reported to a Geo Technical Engineer. The recommendation made here is based on the bore holes chart presented to me & my own experience in this field & is to be exempted from any legal action from any party.

Prof. Abdul Kalam, M.Tech
Mobile:-9846144957
Office:- 2630773


Prof. A.K. ABDUL KALAM, M.Tech.
(Civil Engineering Consultant)
Palm Lands, Temple Road,
BANK JN, ALUVA-683 101

ACE FOUNDATIONS CALICUT CALICUT

PROJECT : Proposed Building
Athani, Pantheerankave,
SITE : Calicut
BORE HOLE NO. : 1
TYPE OF BORING : Rotary Drilling

1/1

DATE OF COMMENCE : 13-04--2018
DATE OF COMPLETION : 13-04-2018
GROUNDWATER LEVEL : Not met with

BORE LOG CHART & DATASHEET

Depth in Meter	Soil Profile	Visual Description of Soil	Thickness of Layers (M)	Standard Penetration Test Data				Graph of 'N' Value					Remarks		
				Depth (m)	15	30	40	'N' Value	10	20	30	40		50	>50
0.00		Lateritic Gravelly soil (Be)	0.20												
0.20		Hard laterite (Y/red)	4.00	1.50	18	23	27	>50							
				3.00	13	21	26	47							
4.20		Very hard laterite (Red)	3.10	4.20	SPT Rebounded w/c sample Very hard laterite boring done with D/bit from 4.20 to 7.30m (3.10m) Recovery - nil										
7.30		Lateritic Silty clay with sand (Y/brown)	2.90	7.30	9	16	19	35							
				9.00	8	14	18	32							
10.20		Lateritic Silty clay with little sand (Yellow)	3.30	10.50	5	9	13	22							
				12.00	7	12	15	27							
13.50		Lateritic Silty clay with little sand (Y/brown)	3.20	13.50	6	8	12	20							
				15.00	7	10	13	23							
16.70		Silty clay with sand (Y/white)	1.60	17.00	5	8	14	22							
18.30		Hard strata	-	18.30	SPT Rebounded w/c sample										
Bore hole terminated at 18.30 m depth															

[Signature]
Site-in-charge

ACE FOUNDATIONS CALICUT CALICUT

PROJECT : Proposed Building
 Athani, Pantheerankave,
 SITE : Calicut
 BORE HOLE NO. : 2
 TYPE OF BORING : Rotary Drilling

1/1

DATE OF COMMENCE : 17-04-2018
 DATE OF COMPLETION : 18-04-2018
 GROUND WATER LEVEL : Not met with

BORE LOG CHART & DATA SHEET

Depth in Meter	Soil Profile	Visual Description of Soil	Thickness of Layers (M)	Standard Penetration Test Data				Graph of 'N' Value					Remarks			
				Depth (m)	15	30	40	'N' Value	10	20	30	40		50	>50	
0.00		Lateritic Gravelly soil(Br)	0.20													
0.20				0.20	SPT Rebounded w/o sample											
		Very hard laterite (Red)	7.40	Very hard laterite boring done with D/bit from 0.20 to 7.60m(7.40m) Recovery—nil												
7.60		Medium laterite (Y/red)	1.30	7.60	11	16	21	37								
8.90		Lateritic Silty clay with little sand (Yellow)	2.80	9.00	7	11	13	24								
				10.50	5	10	12	22								
11.70		Lateritic Silty clay (Y/brown)	4.70	12.00	6	9	16	25								
				13.50	4	8	13	21								
				15.00	7	11	12	23								
16.40		Silty clay with little sand (Y/white)	4.60	17.00	8	13	15	28								
				19.00	5	10	14	24								
21.00																

Contd. on page—2

[Signature]
Site-in-charge

ACE FOUNDATIONS CALICUT CALICUT

PROJECT : Proposed Building SITE : Adfani, Pantheerankavu, BORE HOLE NO : 2 TYPE OF BORING : Rotary Drilling	1/1	DATE OF COMMENCE : 17-04-2018 DATE OF COMPLETION : 18-04-2018 GROUND WATER LEVEL : Not met with
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BORE LOG CHART & DATA SHEET

Depth in Meter	Soil Profile	Visual Description of Soil	Thickness of Layers (M)	Standard Penetration Test Data				Graph of 'N' Value 10 20 30 40 50 60	Remarks
				Depth (m)	15	30	45		
21.00		Silty clay with little sand (Y/Brown)	3.60	21.00	4	8	10	18	
				23.00	7	9	11	20	
24.60		Lateritic Silty clay with sand (Y/white)	6.20	25.00	5	8	13	21	
				28.00	4	7	10	17	
30.80		Silty weathered rock (Y/white)	2.90	31.00	13	26	24	>50	(Bal-05cm)
33.70		Hard strata	-	33.70	SPT Rebounded w/o sample				
Bore hole terminated at 33.70 m depth									

Site-in-charge

ACE FOUNDATIONS CALICUT CALICUT

PROJECT : Proposed Building
 SITE : Athani, Pantheerankave,
 BORE HOLE NO. : 3 Calicut
 TYPE OF BORING : Rotary Drilling

1/1

DATE OF COMMENCE : 19-04-2018
 DATE OF COMPLETION : 20-04-2018
 GROUND WATER LEVEL : Not met with

BORE LOG CHART & DATA SHEET

Depth in Meter	Soil Profile	Visual Description of Soil	Thickness of Layers (M)	Standard Penetration Test Data				Graph of 'N' Value	Remarks
				Depth (m)	15	30	40		
0.00		Lateritic gravelly soil (Be.)	0.20						
0.20		Very hard laterite (Red)	7.60	0.20	SPT Rebounded w/o sample				Very hard laterite boring done with D/bit from 0.20 to 7.80m (7.60m) Recovery - nil
7.80		Medium laterite (Y/Red)	0.80	7.80	8	14	20	34	
8.60		Lateritic clay with sand and silt (Y/Brown)	2.80	9.00	7	13	18	31	
11.40		Lateritic Silty clay (Y/Brown)	7.30	10.50	6	14	15	29	
				12.00	5	9	13	22	
				13.50	8	12	14	26	
				15.00	7	11	12	23	
				17.00	6	10	14	24	
18.70		Lateritic Silty clay with little sand (Y/Brown)	8.10	19.00	9	12	15	27	
				21.00	8	11	14	25	
				23.00	7	9	13	22	
26.80				25.00	5	8	11	19	

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[Signature]
Site in-charge

ACE FOUNDATIONS CALICUT CALICUT

PROJECT : Proposed Building
 SITE : Athani, Pantheerankave,
 BORE HOLE NO. : 3 Calicut
 TYPE OF BORING : Rotary Drilling

1/1

DATE OF COMMENCE : 19-04--2018
 DATE OF COMPLETION : 20-04-2018
 GROUND WATER LEVEL : Not met with

BORE LOG CHART & DATA SHEET

Depth in Meter	Soil Profile	Visual Description of Soil	Thickness of Layers (M)	Standard Penetration Test Data				Graph of 'N' Value					Remarks		
				Depth (m)	15	30	40	'N' Value	10	20	30	40		50	>50
26.80															
		Lateritic Silty clay with sand(Y/white)	6.40	28.00	6	9	9	18							
				31.00	5	6	9	15							
33.20		Silty weathered rock (G/White)	1.40	34.00	28	>50	-	>50							Bal-19cm
34.60		Hard strata/rock	-	34.60	SPT Rebounded w/o sample										
34.60		Bore hole terminated at 34.60m depth													

Site in charge

ACE FOUNDATIONS CALICUT CALICUT

PROJECT : Proposed Building
 SITE : Athani, Pantheerankave,
 DISTRICT : Calicut
 BORE HOLE NO. : 4
 TYPE OF BORING : Rotary Drilling

1/1

DATE OF COMMENCE : 20-04--2018
 DATE OF COMPLETION : 21-04-2018
 GROUND WATER LEVEL : Not met with

BORE LOG CHART & DATASHEET

Depth in Meter	Soil Profile	Visual Description of Soil	Thickness of Layers (M)	Standard Penetration Test Data				Graph of 'N' Value	Remarks
				Depth (m)	15	30	40		
0.00		Lateritic gravelly soil(Br.)	0.20						
0.20		Very hard laterite (Red)	7.10	0.20	SPT Rebounded w/o sample				Very hard laterite boring done with D/bi from 0.20 to 7.30m(7.10m) Recovery--nil
7.30		Medium laterite(Y/Red)	0.90	7.30	11	17	21	38	
8.20		Lateritic clay with sand and silt(Y/Brown)	2.10	9.00	6	13	15	28	
10.30		Lateritic Silty clay(Y/Brown)	6.50	10.50	9	14	18	32	
				12.00	7	11	16	27	
				13.50	8	9	14	23	
				15.00	7	10	15	25	
				17.00	11	19	17	31	
16.80		Lateritic Silty clay with little sand (Y/Brown)	5.20	19.00	8	12	16	28	
				21.00	9	11	15	26	
22.00									

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[Signature]
 Site-in-charge

ACE FOUNDATIONS CALICUT CALICUT

PROJECT : Proposed Building
 SITE : Athani, Pantheerankave,
 BORE HOLE NO. : 4 Calicut
 TYPE OF BORING : Rotary Drilling

1/1

DATE OF COMMENCE : 20-04-2018
 DATE OF COMPLETION : 21-04-2018
 GROUND WATER LEVEL : Not met with

BORE LOG CHART & DATA SHEET

Depth in Meter	Soil Profile	Visual Description of Soil	Thickness of Layers (M)	Standard Penetration Test Data				Graph of 'N' Value					Remarks		
				Depth (m)	15	30	40	'N' Value	10	20	30	40		50	>50
22.00															
		Lateritic Silty clay (Y/brown)	2.60	23.00	7	8	12	20							
24.60		Lateritic Silty clay with sand (Y/white)	2.70	25.00	6	9	11	21							
27.30		Silty weathered rock (Y/white)	2.80	28.00	27	>50	-	>50							(Bal-21cm)
30.10		Hard strata	-	30.10	SPT Rebounded w/c sample										
Bore hole terminated at 30.10 m depth															

[Signature]
In-charge

ACE FOUNDATIONS CALICUT CALICUT

PROJECT : Proposed Building
 SITE : Athani, Pantheerankave,
 BOREHOLE NO. : 5 Calicut
 TYPE OF BORING : Rotary Drilling.

1/1

DATE OF COMMENCE : 22-04-2018
 DATE OF COMPLETION : 23-04-2018
 GROUND WATER LEVEL : Not met with

BORE LOG CHART & DATASHEET

Depth in Meter	Soil Profile	Visual Description of Soil	Thickness of Layers (M)	Standard Penetration Test Data				Graph of 'N' Value					Remarks			
				Depth (m)	15	30	40	'N' Value	10	20	30	40		50	55	
0.00		Lateritic gravelly soil(Br.)	0.30	0.30												
0.30		Very hard laterite (Red)	3.90	SPT Rebounded w/o sample Very hard laterite boring done with D/bit from 0.30 to 4.20m (3.90m) Recovery--nil												
4.20		Medium laterite(Y/Red)	1.10	4.20	7	12	19	31								
5.30		Lateritic clay with sand (Y/red)	1.80	6.00	6	10	12	22								
7.10		Lateritic clay with sand and silt(R/Brown)	1.30	7.50	8	12	16	28								
8.40		Lateritic clay with little sand and silt (R/Brown)	8.30	9.00	7	14	20	34								
				10.50	8	13	18	31								
				12.00	6	12	16	28								
				13.50	8	14	17	31								
				15.00	5	13	15	28								
				17.00	6	12	14	26								
16.70		Lateritic Silty clay with little sand(W/ yellow)	5.90	19.00	7	13	15	28								
				21.00	6	7	12	19								
22.60																

[Signature]
Site-in-charge

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ACE FOUNDATIONS CALICUT CALICUT

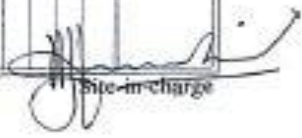
PROJECT : Proposed Building
 SITE : Athani, Pantheerankave,
 BOREHOLE NO. : 5
 TYPE OF BORING : Rotary Drilling

1/1

DATE OF COMMENCE : 22-04-2018
 DATE OF COMPLETION : 23-04-2018
 GROUND WATER LEVEL : Not met with

BORE LOG CHART & DATA SHEET

Depth in Meter	Soil Profile	Visual Description of Soil	Thickness of Layers (M)	Standard Penetration Test Data				Graph of 'N' Value					Remarks		
				Depth (m)	15	30	40	'N' Value	10	20	30	40		50	>50
22.60															
		Lateritic Silty clay with sand (W/yellow)	3.70	23.00	5	8	13	21							
				25.00	4	7	11	18							
26.30		Silty weathered rock (Y/white)	3.10	28.00	13	22	28	>50							
29.40		Hard strata	-	29.40	SPT Rebounded w/c sample										(Bal-04cm)
<div style="border: 1px solid black; border-radius: 15px; padding: 5px; display: inline-block;"> Bore hole terminated at 29.40 m depth </div>															


 Site-in-charge

ACE FOUNDATIONS CALICUT CALICUT

PROJECT : Proposed Building SITE : Athani, Pantheerankave, BORE HOLE NO. : 6 Calicut TYPE OF BORING : Rotary Drilling	1/1	DATE OF COMMENCE : 24-04-2018 DATE OF COMPLETION : 24-04-2018 GROUND WATER LEVEL : Not met with
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BORE LOG CHART & DATA SHEET

Depth in Meter	Soil Profile	Visual Description of Soil	Thickness of Layers (M)	Standard Penetration Test Data				Graph of 'N' Value					Remarks			
				Depth (m)	15	30	40	'N' Value	10	20	30	40		50	>50	
0.00		Gravelly soil	0.60													
0.60		Laterite(Y/Red)	1.80	1.50	5	6	13	19								
2.40		Medium laterite (Y/red)	3.30	3.00	14	19	22	41								
5.70		Lateritic clay with sand and silt(R/Brown)	3.10	4.50	12	18	20	38								
8.80		Lateritic clay with sand and gravel(R/Brown)	1.40	6.00	8	13	15	28								
10.20		Lateritic clay with sand (Y/brown)	1.60	7.50	6	9	14	23								
11.80		Lateritic Silty clay with little sand (Y/Brown)	2.50	9.00	13	18	27	45								
14.30		Lateritic Silty clay with sand (Yellow)	2.40	10.50	7	9	11	20								
16.70		Silty weathered rock (Y/white)	1.10	12.00	6	15	18	33								
17.80		Hard strata	-	13.50	5	12	16	28								
				15.00	4	10	14	24								
				17.00	29	>50	-	>50							(Bal-18cm)	
				17.80	SPT Rebounded w/o sample											

Bore hole terminated at 17.80 m depth

Site-in-charge

ACE FOUNDATIONS CALICUT CALICUT

PROJECT : Proposed Building.
 SITE : Athoni, Pantheeranikave,
 BORE HOLE NO. : 7 Calicut
 TYPE OF BORING : Rotary Drilling

1/1

DATE OF COMMENCE : 25-04-2018
 DATE OF COMPLETION : 25-04-2018
 GROUND WATER LEVEL : Not met with

BORE LOG CHART & DATA SHEET

Depth in Meter	Soil Profile	Visual Description of Soil	Thickness of Layers (M)	Standard Penetration Test Data				Graph of 'N' Value					Remarks		
				Depth (m)	15	30	40	'N' Value	10	20	30	40		50	59
0.00		Lateritic Gravelly soil	0.40												
0.40		Lateritic clay with sand (Y/red)	3.60	1.50	8	10	13	23							
				3.00	11	16	21	37							
4.00		Lateritic clay with little sand (Y/red)	1.30	4.50	9	14	18	32							
5.30		Weathered sand with clay & silt (Y/grey)	1.50	6.00	7	11	14	25							
6.80		Hard rock (Grey)	0.70	6.80	SPT Rebounded W/o sample										
7.50		Bore hole terminated at 7.50 m depth		Hard rock boring done with D/bit from 6.80 to 7.50 (0.70m)											


 Site-in-charge

CEEL **KOCHI** **GEO ENGINEERING LAB. KOCHI**
 BASEMENT FLOOR, JOY'S ARCADE, OPP CHANRA DAMSANA SCHOOL, KODIYANNAVAL, KOCHI - 683518. Ph: 0484-6900000

BORE HOLE NO : 7		PROJECT : PROPOSED COMMERCIAL BUILDING @ ATHIANI, PANTHEERANKAVU, CALICUT.										JOB NO : CEL/18/2018-19					
DEPTH IN MTR : 7.50m		CLIENT : M/s. BASF CARE, CALICUT.										DATE OF BORING: 25-04-2018					
WATER LEVEL : NOT MET WITH		SHEET NO : 1										TYPE OF BORING : ROTARY					
TEST RESULTS																	
"N" VALUE	DEPTH IN MTR	SAMPLE NO	TYPE OF SAMPLE	SOIL DESCRIPTION	IS CLASSIFICATION	GRAIN SIZE ANALYSIS				ATTERBERGOS LIMIT			PLASTICITY INDEX	NATURAL WATER CONTENT	SPECIFIC GRAVITY	SHEAR PARAMETERS	
						GRAVEL %	SAND %	SILT %	CLAY %	LIQUID LIMIT	PLASTIC LIMIT	SHRINKAGE LIMIT				TEST METHOD	C KOCHU
20	1.56	SPT-1	OS	LATERITIC CLAY WITH SAND (YELLOW/RED)	CI	4	42	25	23	36	18	18	24.26	2.59			
20	3.90	SPT-2	OS	LATERITIC CLAY WITH SAND (YELLOW/RED)	CI	4	32	28	40	48	19	21	26.03	2.58			
22	4.26	SPT-3	OS	LATERITIC CLAY WITH LITTLE SAND (YELLOW/RED)	CI	0	26	29	45	43	29	23	23.81	2.57			
23	6.90	SPT-4	OS	SAND WITH CLAY & SILT (YELLOW/CARY) - WEATHERED	SM	0	66	19	16				12.89	2.82			
	8.80	SPT	RECORDED	HARD ROCK													

NOTE: Samples were supplied to us by the client.
 M.C. Density & Shear Test of SPT Samples are done on Remoulded Specimen



For M/s GEO ENGINEERING LAB KOCHI
 Lab In-Charge

STRUCTURAL CERTIFICATE



Calicut
06/01/2022

STRUCTURAL STABILITY CERTIFICATE-Landmark Trade centre

We hereby certify that the completed structures of B+G+14 floors apartment project and B+G+8 floors hotel project in RS No.27/1,30/4c,31/4,7,8,9,32/4,35/1b at ward no 10,Olavanna Panchayath,Kozhikode district is structurally safe to be occupied as apartment &hotel respectively and the building have been constructed as per the structural design drawings provided by M/s Design Spectrum.

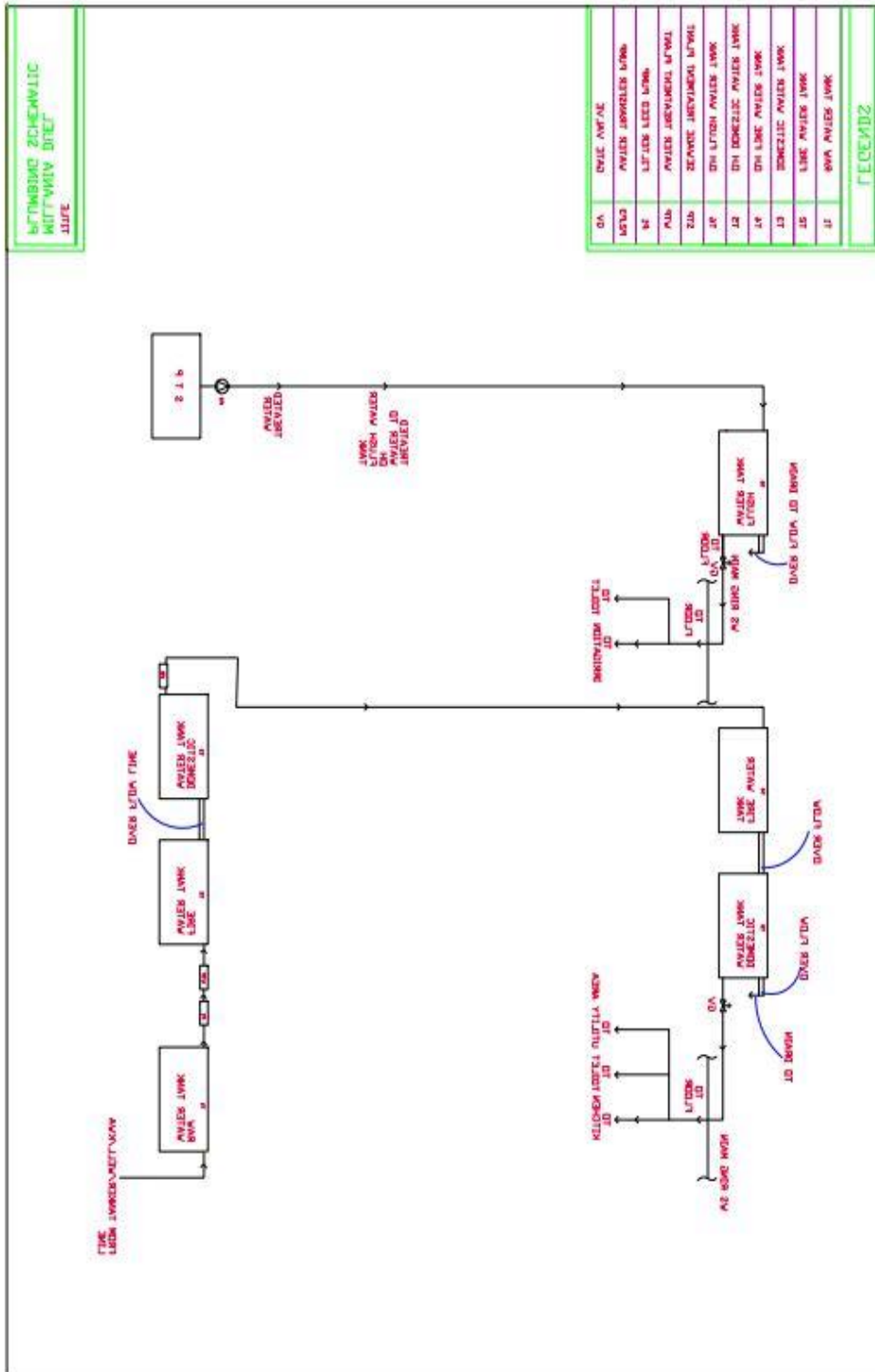
SIGNATURE OF STRUCTURAL ENGINEER


Er. SANTOSH. K, M.Tech (Structural Engineering)
Reg. No: E-2050/08/21041/KKD/631/2021/EA
Design Spectrum, Calicut

DESIGN SPECTRUM
STRUCTURAL CONSULTANTS
Seiken Chambers, 3rd Floor
Kannur Road, Calicut, Ph: 0495-2765697
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3rd FLOOR, SEIKEN CHAMBERS, KANNUR ROAD, CALICUT -673001
PH: 9074929417, 0495-2765697, E-mail: designspectrumclt@gmail.com

DUAL PLUMBING PLAN



DRINKING WATER



BARRICATION



നോട്ടീസ്

പൊതുജന ശ്രദ്ധയ്ക്കായി

കേരള സംസ്ഥാനം, കോഴിക്കോട് ജില്ല, കോഴിക്കോട് താലൂക്ക്, ഒളവണ്ണ പഞ്ചായത്ത് പന്തീരക്കാവ് വില്ലേജിൽ സർവ്വേ NO : 27/1, 30/4C, 31/4, 7,8,9, 32/4 and 351 B ഉൾപ്പെട്ട സ്ഥലത്ത് ലാൻഡ് മാർക്ക് ട്രേഡ് സെന്റർ എന്ന ടൗൺഷിപ്പ് പ്രൊജക്ടിനായി കാലിക്കറ്റ് ലാൻഡ് മാർക്ക് ബിൽഡേഴ്സ് & ഡവലപ്പേഴ്സ് (ഇന്ത്യ) പ്രൈ. ലി. എന്ന സ്ഥാപനം സമർപ്പിച്ച അപേക്ഷയിൽ വേണ്ട പരിസ്ഥിതി അനുമതി, പരിസ്ഥിതി വനകാലാവസ്ഥ വ്യതിയാന മന്ത്രാലയത്തിൽ നിന്നും ഓർഡർ നമ്പർ : 1193/EC2/2018/SEIAA തീയതി 12.03.2020 ൽ പ്രകാരം ലഭിച്ചിരിക്കുന്നു. ഈ ഓർഡറിന്റെ പകർപ്പ് സംസ്ഥാന മലിനീകരണ നിയന്ത്രണ ബോർഡിൽ ലഭ്യമാണ്. കൂടാതെ പരിസ്ഥിതി വന-കാലാവസ്ഥ വ്യതിയാന മന്ത്രാലയത്തിന്റെ <http://www.seiaakerala.org> എന്ന വെബ് സൈറ്റിൽ കൂടിയും പകർപ്പ് കാണാവുന്നതാണ്.

ഒപ്പ്
ഡയറക്ടർ
കാലിക്കറ്റ് ലാൻഡ് മാർക്ക് ബിൽഡേഴ്സ് & ഡവലപ്പേഴ്സ് (ഇന്ത്യ) പ്രൈ. ലി.