# Six-Monthly Environmental Compliance Report of Stipulated Conditions of Environmental Clearance (JANUARY, 2024)

Of

## CONSTRUCTION OF GROUP HOUSING PROJECT

### At

SURVEY NO. 15/1, 33/1, WARD NO. 21, KODENCHERY PANCHAYATH, DISTRICT CALICUT, KERALA



**Submitted by** 

# M/s. Calicut Landmark Builders & Developers (India) Pvt. Ltd. 3rd Floor, CD Tower, Mini Bypass Road, Kozhikode-4, Kerala, India.

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#### **JANUARY** SIX MONTHLY COMPLIANCE REPORT OF GROUP HOUSING PROJECT AT SURVEY NO. 15/1, 33/1, WARD NO. 21, KODENCHERY PANCHAYATH, 2024 DISTRICT CALICUT, KERALA. XIII Photographs showing proper barricading to avoid disturbance to the 68 surroundings Copy of newspaper advertisement

XIV

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# 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 Group Housing Projectby M/s. Calicut Landmark Builders & Developers (India) Pvt. Ltd
- 4. **Location of Project:** survey no. 15/1, 33/1, Ward no. 21, Kodenchery Panchayath, District Calicut, Kerala
- 5. **Environmental Clearance letter/OM No. & Date:** Environmental Clearance from SEIAA Kerala 73/2019 DATED 28th DECEMBER, 2019)
- 6. Address of Correspondence:
- M/s. Calicut Landmark Builders & Developers (India) Pvt. Ltd. 3rd Floor, CD Tower, Mini Bye Pass Road, Kozhikode-4, Kerala, India
- 7. Compliance Period: January 2023

# <u>CHAPTER -2</u> <u>STATUS OF THE PROJEC</u>T

MoEF has accorded EC for construction of Group Housing Project at Survey no. 15/1, 33/1, ward no. 21, Kodenchery Panchayath, District Calicut, Kerala on a plot area of 7.82 ha and total built up area of 1,45,000m² by M/s. Calicut Landmark Builders & Developers (India) Pvt. Ltd

Construction of the Group Housing project status given below,

#### **CONSTRUCTION STATUS**

# CONSTRUCTION STATUS OF GROUP HOUSING PROJECT At Re-survey No. 15/1,33/1, Ward No. 21, at KodencheryPanchayat, District Calicut, Kerala **STATUS TOWER NAME** Tower 1 Tentatively Handed over. Finishing Work in progress. Tower 2 Structure Work completed Tower 3 Not Started. Tower 4 Tower 5 Structure work 50% In Progress. Infrastructure Works

# <u>CHAPTER -3</u> <u>PURPOSE OF THE REPORT</u>

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).

JANUARY 2024

# CHAPTER-4 ENVIRONMENTAL CLEARANCE LETTER COPY



Validity expires on 27.12.2026

#### PROCEEDINGS OF THE ADMINISTRATOR, STATE ENVIRONMENT IMPACT ASSESSMENT AUTHORITY, THIRUVANANTHAPURAM

(Present. Sabitha.S)

Sub: SEIAA- Environmental clearance for the proposed "Township" Project at Sy Nos. 15/1& 33/1 at Kodenchery Village, Kozhikode Taluk & Kozhikode District, Kerala by Sri Anwar Sadath, Director ,M/s Calicut Landmark Builders & Developers (India) Pvt. Ltd. Landmark World, N.H.17 Bypass, Kozhikode, Kerala-673014 - Environmental Clearance granted - Orders issued

#### STATE ENVIRONMENTAL IMPACT ASSESSMENT AUTHORITY

#### No. 909/SEIAA/EC4/3588/2015

Dated, Tkirwananthapuram 28.12.2019

- Ref: 1. Application dated 4-9-2015, from Sri.Anwar Sadath, Director, M/s Calicut Landmark Builders & Developers (India) Pvt. Ltd. Landmark World, N.H.17 Bypass, Kozfrikode, Kerala-673014)

  2. Minutes of 55° meeting of SEAC helden 6° & 7° June 2016.

  3. Minutes of the 59° meeting of SEAC Helden 11-12 July 2016.

  4. Minutes of 58° meeting of SEIAA held on 08-9-2016.

  5. Minutes of the 53° meeting of SEIAA held on 4° October, 2016

  6. Minutes of the 61° interting of SEIAA held on 30-11-2016

  7. Minutes of the 73° meeting of SEIAA held on 15-9-2017

  8. Minutes of the 98° meeting of SEIAA held on 18° & 19° September 2019

  9. Minutes of the 3° Meeting of SEIAA held on 21° & 22° November 2019

  10. Minutes of the 10° Meeting of SEIAA held on 23° & 24° December 2019

#### ENVIRONMENTAL CLEARANCE NO.73 /2019

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 7-9-2015 has sought environmental clearance under the EIA Notification, 2006 for the proposed "Township" Project of total plot area of 7.8269 ha at Sy Nos. 15/1& 33/1 at Kodenchery 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. No forest land is involved in the present project. The height of the proposed building is 59.70m and the total plot area of the proposed project is 78,268.98m<sup>2</sup> and the total built-up area is 1,45,000m<sup>2</sup>.

- 2. The proposal placed in 56<sup>th</sup> SEAC meeting held on 6<sup>th</sup> &7<sup>th</sup> June 2016. Further to the intimation of SEAC, the proponent and engineer attended the meeting and the engineer made a power point presentation about the salient features of the project briefly. The Committee appraised the proposal based on Form 1, Form I A and conceptual plan. The Committee decided to DEFER the item for field visit and the sub-committee entrusted to specially look into the following aspects.
  - 1. The aerial distance from the Malabar Wild life sanctuary to the project site.
  - Violation in the form of large scale excavations as is observed from the Google map of the area
  - Considering other massive developments noticed from the map is there a need for insisting on a BIA study.
  - 4. 'Status of a portion of site classified as "nilam" in the documents.
  - 5. Being an isolated property precaution to be taken against accidents like fire.
- 3. Site visit conducted on 23.6.2016 be subcommittee of SEAC and the proposal placed in 59th SEAC held on 11th &12th July 2016. Site SEAC regarked that this proposed project is in Kodenchery Village in Kozhikkode Taluk. Kodenchery Village is a notified ESA Village as per the Order No.F.No.1-4/2012-RE(Pt.), Government of India, MoEF dated 13.11.2013. In the para 9(c.) of the said order building and construction projects of 20,000 m² area or above are prohibited. The present project involves construction of four buildings having a total built up term of 1.45.000 m². Since this area far exceeds the permissible limit of construction in ESA Village the committee recommend to reject the proposal.
- 4. On 23-08-2016, the proponent submitted a representation to reconsider the proposal and has undertaken that "we are ready to fix the area of construction of each individual building to less than 20,000 sq.m and the area of the project to less than 1,50,000 sq.m and revise our plan accordingly." The proposal was considered in the 58<sup>th</sup> meeting of SEIAA held on 8<sup>th</sup> September 2016. The Authority found that the project is a category 8(b) project but appraised under 8(a) and referred the proposal to SEAC for reappraisal as the project comes under the category of 8(b)



- 5. The proposal was considered in the 63<sup>rd</sup> Meeting of SEAC held on 04<sup>rd</sup> October, 2016. The SEAC committee remarked that only proposals for townships and area development covering an area more than 50 ha and or built up area more than 1,50,000 sq. m fall under such category. The present proposal is not such a project & hence it cannot be categorized as 8 (b). Hence the Committee decided not to change its earlier decision in the matter. The suggestion of the proponent to bring down the area of the individual buildings to less than 20000 sq. m will not serve the purpose as the total area of adjoining constructions will be far in excess of the limitations brought out in the 13.11.2013 Notification of MoEF.
- 6. The proposal was placed before the 61<sup>st</sup> SEIAA meeting held on 30-11-2016. The Authority noted that the present project involves construction of four buildings having a total built up area of 1, 45,000 m<sup>2</sup>. And hence it is appraised as Category 8(a). Since this area far exceeds the permissible limit of construction in ESA Village the Committee in its 59<sup>th</sup> meeting recommended to reject the proposal.

  11 11 Committee in its 59<sup>th</sup> SEIAA musting, the Authority decided to accept recommendation of SEAC to reject the proposal as per the 59<sup>th</sup> 63<sup>th</sup> minutes of SEAC.
- 7. Sri. C Anwar Sadoth, Director, Calicut Landmark Builders & Developers (India), Pvt Ltd. submitted a request of 26,05.2017 for reviewing the earlier decision of SEIAA to reject their application for EC. Proposent also informed that as per the Supreme court judgment dated 3.12.2010 in WP(C) 202 /2000 filed by f.N.Godavarman, Thirumulpad against Union of India, it has been clarified that townships with area below 1,50,000 sqmtrs should also obtain EC from SEIAA or MoER, Calicut Landmark Builders & Developers (India), Pvt Ltd. has therefore submitted a petition to the Hon. Chief Minister to review the earlier decision of SEIAA to reject their application for EC. The proposal considered in 73<sup>rd</sup> SEIAA meeting held on 15.09.2017. Authority decided to obtain legal opinion in the matter from the Standing Counsel of NGT and Legal department of the State Government.
- 8. Meanwhile Environment department had forwarded the request of Sri.C.Anvar Sadath, Director, Calicut Landmark Builders & Developers (India) Pvt Ltd. to furnish the present status of the project. File had been placed before 98th SEIAA meeting held on 18th & 19th October 2019 and the authority decided to inform the proponent that the proposal was already rejected by SEIAA in its 61st meeting held on 30.11.2016, as the proposed project site falls

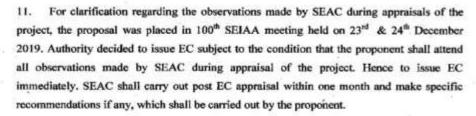
within the Ecologically Sensitive Area (ESA), and hence the proposal cannot be considered as per the existing norms of MoEF which prohibits such constructions in ESA to ensure the environmental stability of the region.

Hence letter had been issued to Sri. C. Anwar Sadath informing that their proposal cannot be considered as per the existing norms of MoEF as the proposed project site falls within the Ecologically Sensitive Area (ESA).

- 9. Sri. C. Anwar Sadath, the Director, Landmark builders submitted representations dated 30.10.2019 & 01/11/2019 with a request to reconsider their request for Environmental Clearance since their area is not falling under ESA land as per latest orders of MoEF and to give them a personal hearing to explain the facts. Accordingly they were invited for personal hearing.
- 10. Proponent along with RQP attended the hearing on 99th SEIAA meeting held on 21st November 2019 during which the proponent submitted the order of No.1/9/2018-ESZ dt.03.12.2018 of MoEF exempting certain villages in Kerala from ESA, as per which the survey nos of the proponents project area do not fall in ESA. Further the Village Officer Kodenchery has provided a Certificate dt. 25.06.2019 that the said survey nos do not fall in ESA area. SEAC has already appraised the proposal and EC was held up because of ESA issue.

Authority decided to issue EC for 7 years subject to the following specific conditions in addition to the general conditions.

- Proponent shall attend all the observations made by SEAC during appraisals of the project.
- Activities relating to Corporate Environmental Responsibilities (2% of total project cost) 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, Environment and supervised by District Collector.
- 3. 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).



12. In this circumstance, Authority is pleased to issue Environmental Clearance as per the EIA Notification 2006 for the proposed "Township" Project at Sy Nos. 15/1& 33/1 at Kodenchery Village, Kozhikode Taluk & Kozhikode District, Kerala by Sri Anwar Sadath, Director ,M/s Calicut Landmark Builders & Developers (India) Pvt. Etd. Isandmark World, N.H.17 Bypass, Kozhikode, Kerala-673014, for seven years subject to the specific conditions in para 10 and 11 of this proceeding 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.
- 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.
- Maximum reuse of grey water for toilet flushing and gardening and construction work shall be ensured.
- 5. Dual plumbing for flushing shall be done.
- Provisions for disposal of e-wastes, solid wastes, non-biodegradables and separate parking facility for the buildings shall be provided.
- Generation of solar energy to be mandatory for own use and/or to be provided to the grid.
- 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.

- 13. 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.
- 14. Validity of this environmental clearance will be seven years from the date of issuance of this order, subject to earlier review in the event of non-compliance or violation of any of the conditions stipulated herein.
- 15. 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.
  - Necessary assistance for entry and inspection should be provided by the project proponent and those who are engaged or entrusted by him to the staff for inspection or monitoring.
  - II. Instances of violation if any shall be reported to the District Collector, Kozhikkode to take legal action under the Environment (Protection) Act 1986.
  - III. The Half Yearly Compliance Report (HXCRs) 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, PC No and date, period of submission and to be sent to the Regional Office of MoFFF & CC by email only at email ID rosz bng-mefcc@gov.in, Hardcopy of HYCRs shall not be acceptable.

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)

SABITHA.S 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)

# **CHAPTER-5**

SITE PHOTOGRAPHS
TOWER-1



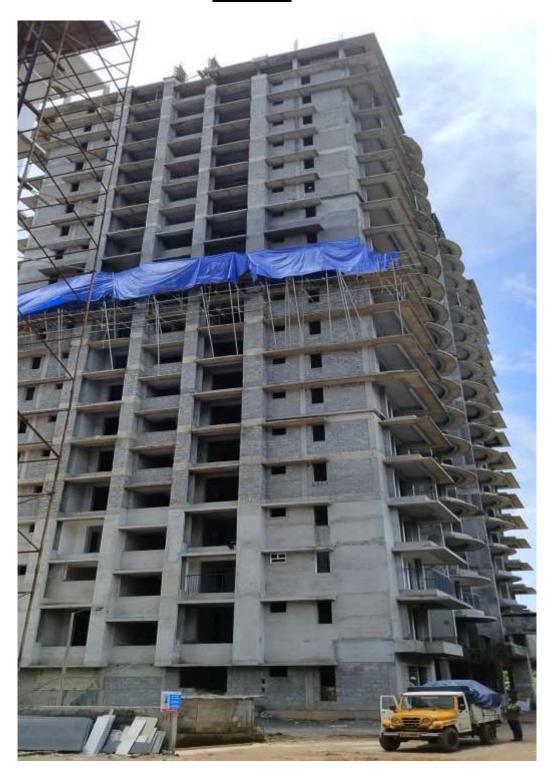


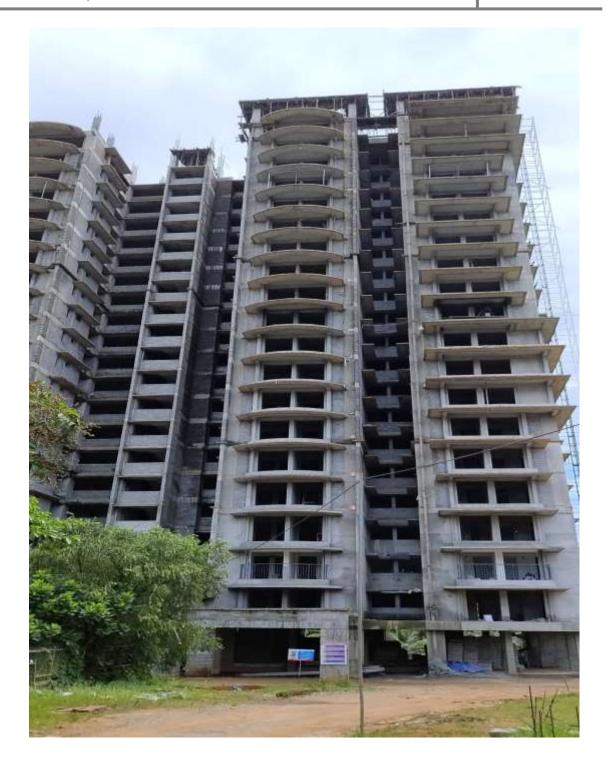
#### **TOWER-2**



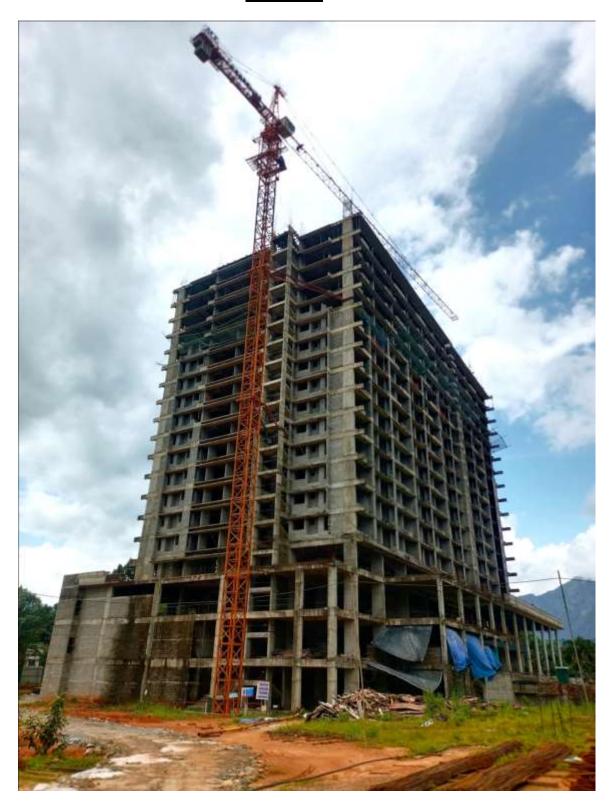


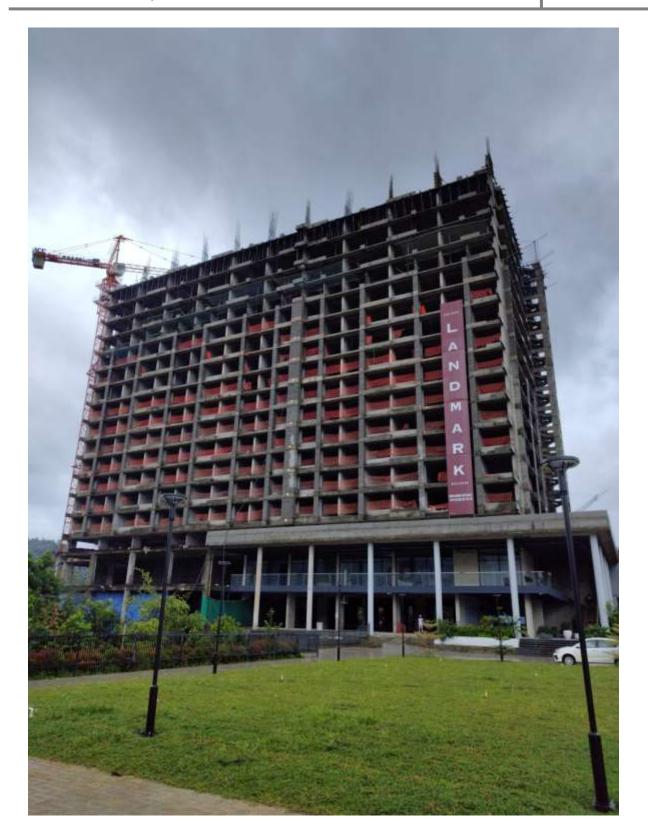
#### **TOWER-3**





#### TOWER 5





## **CHAPTER-6**

# CONSTRUCTION OF GROUP HOUSING PROJECT AT RE-SURVEY NO. 15/1, 33/1, WARD NO. 21, KODENCHERY, PANCHAYATH, DISTRICT CALICUT, KERALA POINT-WISE COMPLIANCE OF STIPULATED ENVIRONMENTAL CONDITIONS/ SAFEGUARDS IN THE ENVIRONMENTAL CLEARANCE .F.No. 22-65/2017-IA.III DATED 1<sup>ST</sup> MAY, 2018

Sl. No.	Conditions	Status of Compliance		
PART A	PART A - SPECIFIC CONDITIONS: Construction Phase:-			
	"Consent for Establishment" shall be	"Consent for Establishment" already obtained		
	obtained from Kerala State Pollution	from Kerala State Pollution Control Board		
т	Control Board under Air and Water Act	under Air and Water Act Consent		
I	and a copy shall be submitted to the	PCB/RO/KKD/ICE/09/2015 dated		
	Ministry before start of any construction	17.06.2015 and the Application for renewal		
	work at the site.	in process. a copy is enclosed as <b>Annexure-I</b>		
		For the housing of construction labour within		
		the site (peak time maximum 100 workers) all		
	Provision shall be made for the housing of	necessary infrastructure and facilities such as		
	construction labour within the site with all	canteen, power, toilets, safe drinking water etc.,		
	necessary infrastructure and facilities such as	is made available. Provided soak pit and		
II	fuel for cooking, mobile toilets, mobile STP,	cooking gas facility within the site. We have		
11	safe drinking water, medical health care,	been appointed a doctor to provide proper		
	crèche etc. The housing may be in the form	guidance and support to maintain workers		
	of temporary structures to be removed after	health and is regularly conducting various		
	the completion of the project.	health related camps the same is enclosed as		
		Annexure-II.		

III	A first aid room will be provided in the project both during construction and operation of the project.  All the topsoil excavated during construction activities should be stored for use in horticulture/ landscape development within the project site.	First Aid room has being provided in the construction site and it will be kept for operation phase. Details is enclosed as <b>Annexure- III.</b> 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 <b>Annexure- IV.</b>
IV	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.
VI	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  It is attached as <b>Annexure-V</b> .
VII	Construction spoils, including bituminous material and other hazardous materials, must not be allowed to contaminate watercourses and the dump sites for such material must be secured so that they should not leach into the ground water.	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- VI.
VIII	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.
IX	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 <b>Annexure-VII</b> .
X	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.
XI	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 <b>Annexure – VIII</b>
XII	Ambient noise levels should conform to residential standards both during day and night. Incremental pollution loads on the	Ambient noise levels will conform to standards both during day and night. Incremental pollution loads on the ambient air and noise

	ambient air and noise quality should be	quality is being closely monitored during
	closely monitored during construction	construction phase. Adequate measures are
	phase. Adequate measures should be made	being made to reduce ambient air and noise
	to reduce ambient air and noise level during	level during construction phase, so as to
	construction phase, so as to conform to the	conform to the stipulated standards. Noise
	stipulated standards by CPCB/KSPCB.	levels & air monitoring reports are attached as
		Annexure – IX.
	Fly ash should be used as building material	
	in the construction as per the provisions of	
	Fly Ash Notification of September, 1999	Since the fly ash is not common in this area.
XIII	and amended as on 27th August, 2003. (The	We are unable to use the fly ash material as
	above condition is applicable only if the	construction material.
	project site is located within the 100 km of	
	Thermal Power Stations)	
XIV	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 <b>Annexure-VI</b>
XIV	•	building construction. Photos of RMC at site
XIV	•	building construction. Photos of RMC at site attached as <b>Annexure-VI</b>
XIV	building construction.	building construction. Photos of RMC at site attached as <b>Annexure-VI</b> We will follow the CGWB and BIS standards
	building construction.  Storm water control and its re-use as per	building construction. Photos of RMC at site attached as <b>Annexure-VI</b> We will follow the CGWB and BIS standards and will install Rain Water harvesting pits and
	building construction.  Storm water control and its re-use as per CGWB and BIS standards for various	building construction. Photos of RMC at site attached as <b>Annexure-VI</b> 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
	building construction.  Storm water control and its re-use as per CGWB and BIS standards for various	building construction. Photos of RMC at site attached as <b>Annexure-VI</b> 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
XV	building construction.  Storm water control and its re-use as per CGWB and BIS standards for various applications.	building construction. Photos of RMC at site attached as <b>Annexure-VI</b> 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.
	building construction.  Storm water control and its re-use as per CGWB and BIS standards for various applications.  Water demand during construction should	building construction. Photos of RMC at site attached as <b>Annexure-VI</b> 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.  Water demand is being reduced in the
XV	building construction.  Storm water control and its re-use as per CGWB and BIS standards for various applications.  Water demand during construction should be reduced by use of premixed concrete,	building construction. Photos of RMC at site attached as <b>Annexure-VI</b> 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.  Water demand is being reduced in the construction phase to the level possible. In the
XV	building construction.  Storm water control and its re-use as per CGWB and BIS standards for various applications.  Water demand during construction should be reduced by use of premixed concrete, curing agents and other best practices	building construction. Photos of RMC at site attached as <b>Annexure-VI</b> 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.  Water demand is being reduced in the construction phase to the level possible. In the monsoon season no extra water needs to be

	prior to construction / operation of the	phase. A copy of the same is enclosed as
	project.	Annexure – X.
XVIII	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, Dual plumbing plan is enclosed as <b>Annexure-X.</b>
XIX	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.
XX	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.
XXI	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.
XXII	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.
XXIII	The approval of the competent authority shall be obtained for structural safety of the building due to earthquake, adequacy of	The structural Designer has considered all these aspects prior to the designing and has done structural design to with stand the earth

	firefighting equipments, etc. as per National	quake. A copy of the structural certificate is
	Building Code including protection	enclosed as Annexure- XI. Approval has
	measures form lightening etc.	been taken from the Fire department vide letter
		No. F2-13199/16 dated 17.10.2016
		Lightening Arrestors will be put up on the roof
		of the buildings. Fire NOC copy is enclosed as
		Annexure- XII.
		Proper barricading is done so as to avoid
	Regular supervisions of the above and other	disturbance to the surroundings and
VVIII	measures for monitoring should be in place	supervisors are there to supervise the project
XXIV	all through the construction phase, so as to	work and control the impact on environment
	avoid disturbance to the surroundings.	during construction phase. Photos of the same
		attached as Annexure- XII.
	Under the provisions of environment	Environmental Clearance letter has been
	(protection) Act, 1986, legal action shall be	obtained from SEIAA Kerala 73/2019 DATED
XXV	initiated against the project proponent if it	28th DECEMBER, 2019
ΛΛΥ	was found that construction of the project	Copy of Environmental Clearance letter is
	has been started without obtaining	enclosed in <b>Chapter-6.</b>
	environmental clearance.	
II. <u>OPE</u>	RATION PHASE	
	The installation of the Sewage treatment	The STP will be installed for the treatment of
	Plant (STP) should be certified by an	sewage generated to the prescribed standards
	independent expert and a report in this	including odor and treated effluent will be
	regard should be submitted to the ministry	recycled to the maximum extent possible to
I	before the project is commissioned for	achieve Zero Discharge. In case treated
	operation. Treated affluent emanating from	effluent is to discharge separately during
	STP shall be recycled/reused to the	monsoon period the effluent will conform to
	maximum extent possible. Treatment of	the norms of Kerala State Pollution Control
	100% grey water by decentralized treatment	Board.

	should be done. Discharge of unused treated	"Consent for Operate" already obtained from
	affluent shall conform to the norms and	Kerala State Pollution Control Board under Air
	standards of the Kerala State Pollution	and Water Act Consent
	Control Board. Necessary measure should be	PCB/RO/KKD/ICE/09/2015 dated
	made to mitigate the odor problem from	16.06.2018 and the Renewal is in Process.
	STP.	
	The solid waste generated should be properly	During operation phase solid waste generated
	collected and segregated. Wet garbage should	will be properly collected & segregated. Wet
II	be composted and dry/ insert solid waste	garbage will be sent for composting and
11	should be disposed off to be approved sites	dry/inert solid waste would be disposed off to
	for land filling after recovering recyclable	approved sites for agricultural purpose/for
	material.	land filling after recovering recyclable material.
	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	During operation phase DG sets will be
	conform to rules made under the	installed in case of power failure. These will be
111	Environment (Protection) Act, 1986. The	of the enclosed type and will also be provided
III	height of stack of DG sets should be equal to	with adequate stack height as per CPCB norms.
	the height needed for the combined capacity	In addition these DG sets will be run on low
	of all proposed DG sets. Use low sulphur	sulphur diesel only (Sulphur content < 0.25%)
	diesel. The location of the DG sets may be	
	decided with in consultation with Kerala	
	State Pollution control Board.	
	Noise should be controlled to ensure that it	
	does not exceed the prescribed standards.	National and the second and another and and the
13.7	During night time the noise levels measured	Noise level will be controlled within and at the
IV	at the boundary of the building shall be	boundaries of the project ensuring compliance
	restricted to the permissible levels to comply	to regulatory norms
	with the prevalent regulations.	

V	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.
VI	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.
VII	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.
VIII	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.
IX	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.
X	A report on the energy conservation measures confirming to energy conservation norms finalize by Bureau of Energy Efficiency should be prepared incorporating	Report on energy conservation measure conforming to energy conservation norms finalized by BEE will be prepared, which will include details of building materials and

	details about building materials &technology	technology, R & U factors etc and submitted to
	R & U factors etc. and submit to the Ministry	the Ministry.
	in three months time.	
XI	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.
XII	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.
XIII	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

I	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.

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

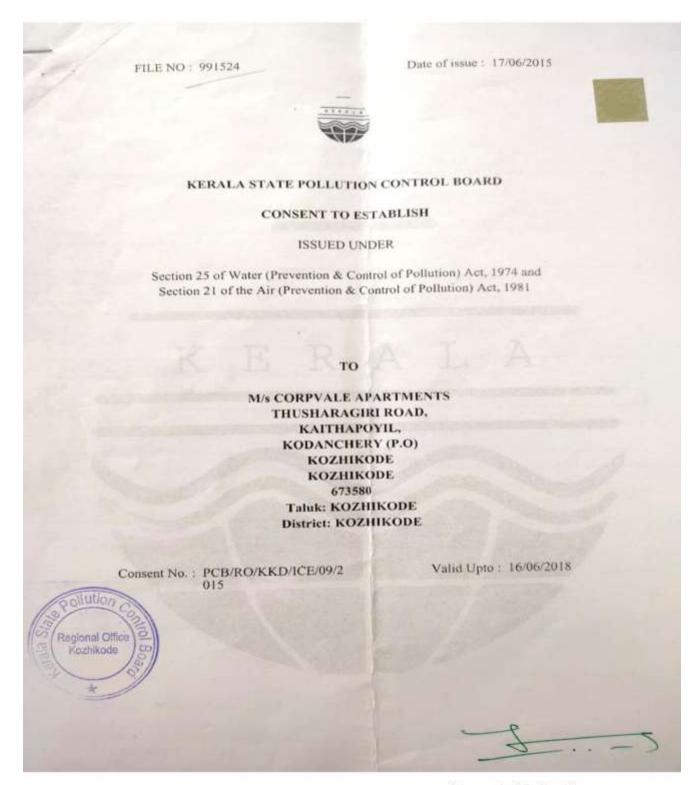
	rmi i i i i i i i i i	<u> </u>
	The project proponent should advertise in at	
	least two local newspapers widely circulated	
	in the region, one of which shall be in the	
	vernacular language informing that the	
	project has been accorded Environmental	
	Clearance and copies of clearance letters are	The project proponent had already advertised
	available with the Kerala Pollution Control	in two local newspapers a copy of the same had
7	Board and may also be seen on the website	been submitted to the Regional office of this
	of the Ministry of Environment and Forests,	Ministry at Bangalore. A copy of advertisement
	at http://www.envfor.nic.in. The	is enclosed as <b>Annexure-XIV</b> .
	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	
	Environmental clearance is subject to final	
	order of the Hon'ble Supreme Court of	
0	India in the matter of Goa Foundation v/s.	
8	Union of India in Writ Petition (Civil)	Agreed
	No.460 of 2004 as may be applicable to this	
	project.	

0		A copy of the clearance letter shall be sent	
		by the proponent to concerned Panchayat,	
		ZillaParisad/Municipal Corporation, Urban	Agreed
	9	Local Body and the Local NGO, if any from	
	9	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.	
		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	
	10	respective Zonal office of CPCB and the	Compliance report is being submitted to
	10	SPCB. The criteria pollutant levels namely;	Regional Office of MoEF and SPCB.
		SPM, RSPM, SO2, NOX (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.	
		ı	

	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 environmental statement for each financial
11	the Environment (Protection) Rules, 1986,	year ending 31st March in Form-V will be
	as amended Subsequently, shall also be put	submitted.
	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.	

# SIX MONTHLY COMPLIANCE REPORT OF GROUP HOUSING PROJECT AT SURVEY NO. 15/1, 33/1, WARD NO. 21, KODENCHERY PANCHAYATH, DISTRICT CALICUT, KERALA.

SI. NO.	ANNEXURES	Page No
I.	Copy of Consent for Establishment from Kerala State Pollution Control Board under Air and Water Act	38
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IV	Photo showing the topsoil excavated used for landscape development	43
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VI	Photograph showing ready mixed concrete plant	56
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VII.	Copy of Pollution Under Check certificate for the vehicles	60
IX.	Noise levels & air monitoring reports	61-63
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XI	Copy of the structural certificate	66
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XIV	Copy of newspaper advertisement	69



Scanned with CamScanner

(**NOTE**:IS PROCESSING FOR RENEWAL)











### REPORT ON SOIL INVESTIGATION



PROJECT

: Proposed Land Mark Village Residential Apartment Building, at Thumarassery.

CLIENT

: M/s.OZO Mall Kozhikode.

CONSULTANT(Foundation): Prof. A. K. Abdul Kalam, M.Tech. Civil Engineering Consultant, Aluva.

### ACE FOUNDATIONS CALICUT

2/858, E.K.Complex, Near Eranhipalam 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 LAND MARK VILLAGE RESIDENTIAL APARTMENT BUILDING AT THAMARASSERY, 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 Building. The scope of the work also involves executing **Three Bore Holes** with related field tests, collection of disturbed SPT Soil Samples.

#### 2. CODES AND STANDARDS

All works were carried our 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:-

- 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.

### 4. FIELD WORKS / TESTS

The Field work consists of:-

- a. Executing Three Bore Hole upto Hard strata.
- 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 **Three Bore Hole** 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 introduced 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 - 2 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) Atterberg's limit (Liquid limit and plastic limit)
- e) Mechanical analysis of finding sand, clay and soil fractions.

\*\*\*\*\*\*

### SOIL REPORT

25-02-2020

#### Introduction

M/s. ACE FOUNDATIONS CALICUT, Calicut has conducted soil investigation for a 20 storied building (Landmark Village Residential Building) at Tamarassery, Calicut for M/s. OZO Mall, Calicut. They have taken 3 bore holes up to hard strata using rotary drill. Standard penetration tests were conducted at regular intervals and soil samples were taken from these depths. These samples were analysed in M/s. Geo Engineering Lab, Koonammavu, Kochi for identification and soil classification.

#### Soil Profile

In BH1,soil up to 0.9m depth is a lateritic fill followed by gravely soil up to 1.7m depth with N-value 11. From 1.7m to 5.8m it is sand with silty clay and N-value varies from 39 to 48. Soft rock is met at 5.8m,hard rock at 6.2m and BH is terminated at 8.2m. In BH2,soil up to 1.4m depth is silty clay with sand and gravel and N-value is 9. From 1.4m to 2.8m it is silty clay with sand and gravel and N-value is 40. From 2.8m to 4.1m it is sand with silt and clay and N-value is 46. From 4.1m to 5.6m it is silty clay with sand and gravel and N-value is 34. From 5.6m to 6.4m it is sand with silt and clay and N-value is >50. Soft rock is met at 6.4m,hard rock at 6.7m and BH is terminated at 8.7m depth. In BH3,hard rock is met at 7.4m and BH is terminated at 9.4m.

#### Recommendation

Bored cast in situ end bearing reinforced concrete piles by DMC method is recommended. Pile should penetrate in to hard rock (depth varies from 6.2m to 7.4m) by a minimum of 30cm. Safe structural strength of concrete can be taken as pile capacity. It is recommended to limit contact pressure at pile tip to 40kg/cm<sup>2</sup>.

Following pile capacities are recommended,

Pile dia (cm)	Pile capacity (tons)
50cm	78t
60cm	113t
70cm	153t
80cm	200t
100cm	314t

Pile capacities are to be verified by pile load test.

This recommendation is based on BH chart & test results presented to me by M/s. ACE FOUNDATIONS CALICUT, Calicut. At the time of boring for piles 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

Prof. A.E. ABDUL KALAM; M.Tech.
(Civil Engineering Consultant)
(Palm Lands, Temple Road,
Palm Lands, Temple Road,
Palm Lands, Temple Road,
Palm Lands, Temple Road,
(Civil Consultant)

TYPE OF BORING : Rotary Drilling

### **ACE FOUNDATIONS CALICUT**

### CALICUT

PROJECT : Proposed Residential building

SITE : Thamarssery, Calicut.

BORE HOLE NO. : 1

DATE OF COMMENCE : 09-02-2020

DATE OF COMPLETION : 09-02-2020

GROUND WATER LEVEL : Not met with

### BORE LOG CHART & DATA SHEET

Depth	Soil	Visual Description of	Thickness	Standa	ırd Pe	netra	tion T	est Duta			aph o Valu	e e	Remarks
Meter	Profile	Soil	of Layers (M)	Depth (m)	15	30	40	'N' Value	10	20	30 40	50 >5	
0.00		Fifled lateritic soil (Brown)	0.90										
1000000		Gravelly soil (Brown)	0.80	1.00	2	4	7	11		\		П	
1.70				2.00	7	17	22	39					
		Sand with silty clay (Y/brown)	4.10	3.00	11	21	27	48				}	
		(17ddwill)		4.50	9	18	23	41				1	
5.80		Soft rock (W/grey)	0.40	5.80	SPT Sof	Rel	oun	ded w/c	sao th T	mp	ole bit	1	
0.20		Hard rock (Grey)	2.00		1 lif	fron	n 6.2	oring d 0 to 7.2 0 to 8.2	0m	R	00-3	6cm	
8.20		Bore hole terminated at 8.20 m depth	)										
											l		
												411	1

### **ACE FOUNDATIONS CALICUT**

1/1

### CALICUT

: Proposed Residential building PROJECT

SITE : Thamarssery, Calicut. BOREHOLENO. : 2

TYPE OF BORING : Rotary Drilling

DATE OF COMMENCE

: 11-02-2020

DATEOFCOMPLETION : 11-02-2020

GROUND WATER LEVEL : Not met with

### BORE LOG CHART & DATA SHEET

Depth	Soil	Visual Description of	Thickness of Layers	Standa	ard Pe	netra	tion'	fest Data	(		of 'N	44	
Meter	Profile	Soil	(M)	Depth (m)	15	30	40	'N' Value	10 2	0 30	40 50	>50	Remarks
0.00		Silty clayey sand with lateritic gravel (Brown)	1.40	1.00	2	3	6	9	-				
1.40		Silty clayey sand with lateritic gravel (Y/Brown)	1.40	2.00	11	16	24	40			1		
4.10		Sand with silty clay (Y/brown)	1.30	3.00	9	19	27	46		Н	1		
		Silty clayey lateritic gravelly sand(Brown)	1.50	4,50	10	16	18	34			1		
5.60		Sand with silty clay (Golden yellow)	0.80	6.00	15		22	>50	med o			1	(Bal-11cm
6.40		Soft rock (W/grey)	0.30	6.40	Sof	rock	cle	ded w/e ared wi	h Te	ple bit	ti.	•	
		Hard rock (Grey)	2.00		I lis	fro	n 6.	oring o 70 to 7. 70 to 8.	Orn I	Rec-	-386	m	
8.70	-		-					0.00			1		
		Bore hole terminated at 8.70 m depth											
											ZIII		1

## **ACE FOUNDATIONS CALICUT**

1/1

### CALICUT

PROJECT : Proposed Residential building

: Thamarssery, Calicut. SITE BOREHOLENO.

TYPE OF BORING : Rotary Drilling

DATE OF COMMENCE

: 11-02-2020

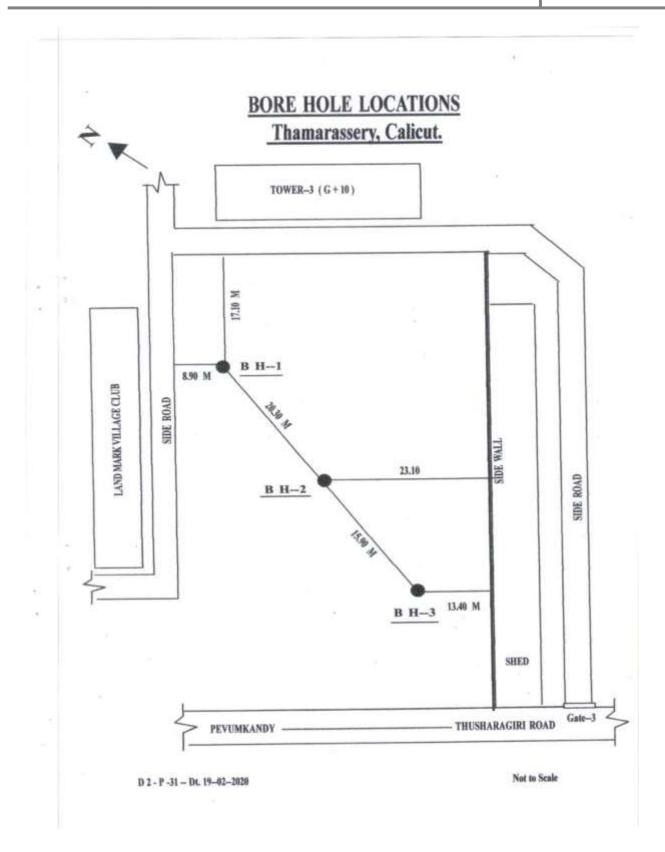
DATEOFCOMPLETION : 12-02-2020

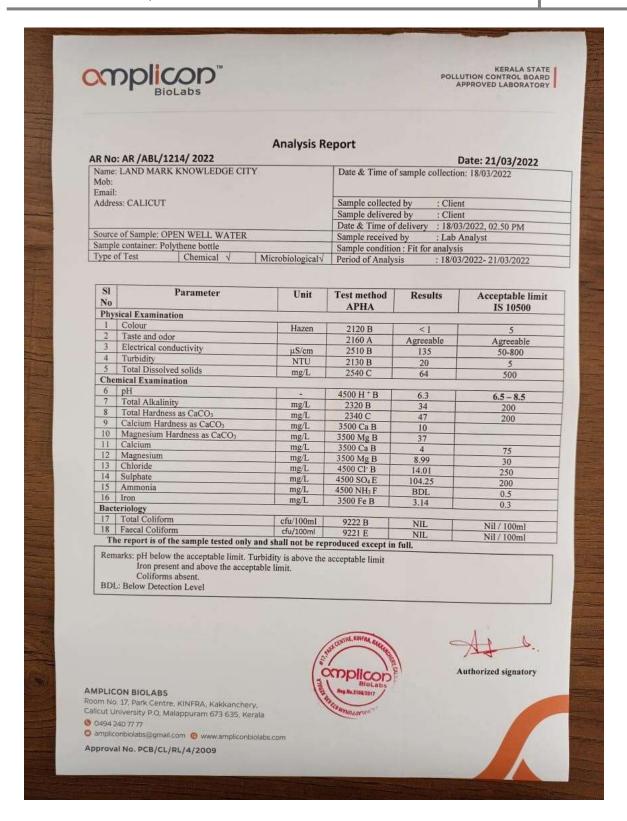
GROUND WATER LEVEL : Not met with

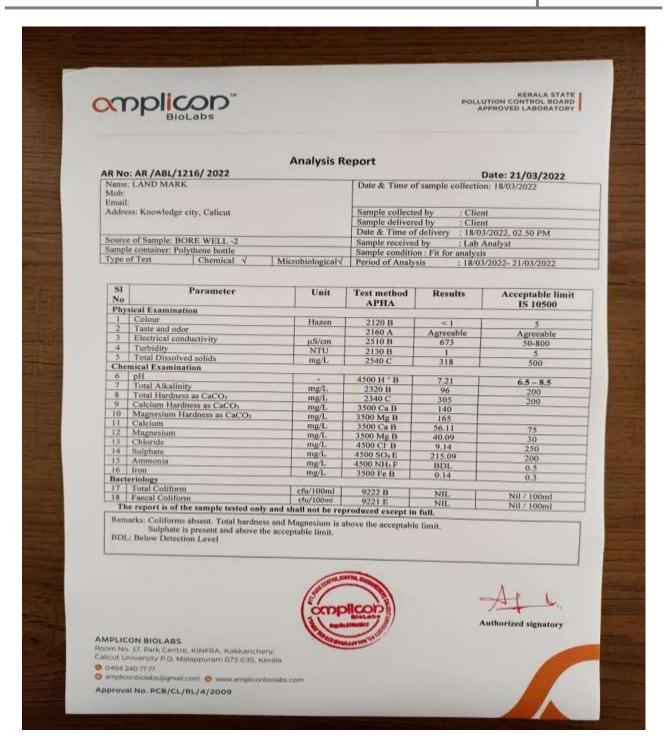
### BORE LOG CHART & DATA SHEET

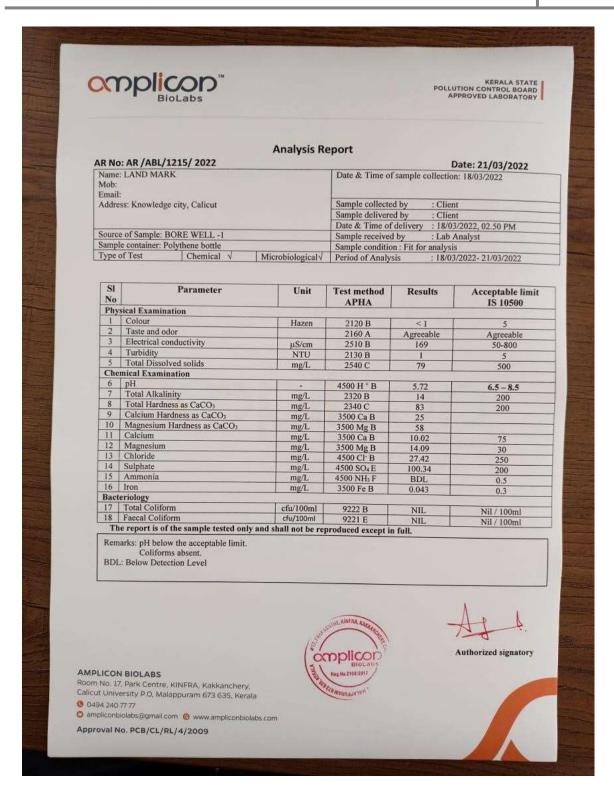
Depth	Soil	Visual Description of	Thickness of Layers	Standa	ard Pe	metra	tion '	lest Data	G	raph o Valu			Remarks
Meter	Profile	Soil	(M)	Depth (m)	15	30	40	'N' Value	10 2	0 30 40	50	>50	Remarks
0.00		Gravelly soil	0.70								П		
0.70		White boulder	0.20	0.70	Ren	nove	d by	ded w/e D/bit	san	iple	П	1	
		Gravelly soil	0.30	1.00	3	>50	-	>50		Ш	Н	Ŧ	(Bal-28cm
1.20		White boulder	0.25	1.20	Rei	Rel	oun d by	ded w/e D/bit	sam	ple	П	1	
		Sand with silty clay	2.75	2.00	22	39	11	>50			Ш		(Bal-11cm
		(Y/brown)		3.00	14	21	24	45			1		
4.20		Silty clayey lateritic gravelly sand(Brown)	1.20	4.50	9	20	26	46			1		
5.40		Sand with silty clay (Golden yellow)	1.50	6.00	>50	-	-	>50				1	(Bal-32cm
6.90		Soft rock (W/grey)	0.50	6.90				ded w/e ared w				1	
7.40		Hard rock (Grey)	2.00		I li	fro	n 7.	oring o 10 to 8.4	Om F	cec-4	4ct	n	
9.40		Was a substitute of the		, - I		12000							
	(	Bore hole terminated at 9.40 m depth											
										Y	И		1

TEST RESULTS	III, Callout.  TEST RESULTS  III GARVEL'S  SC CLASSIFICATION  SC T1 45 52 52 54 54 54 54 54 54 54 54 54 54 54 54 54	TEST RESULT.  TEST RESULT.  TEST RESULT.  TEST RESULT.  GRAIN SIZE ANALYSIS  GRAIN SIZE ANALYSIS  GRAIN SIZE ANALYSIS  GRAIN GRAND W. MATER GOVERN  A SAND W. LAND C. MATER GOVERN  A SAND W. LAND C. LASSERGATION  A SAND W. LAND C. LASSERGATION  A SAND W. LAND C. LASSERGATION  A GRAVEL W. LAND C.	DEPTH IN MTR :	MTR	: 8.70 m		Project : Proposed Land Mark Village Residential Apartment building @ Thamarassery, Calicut.	Marra	genna	le nesi	dentia	ıı Apar	tmen	Bulle	ing @		DATE	OF B	DATE OF BORING: 11-02	JOB NO : GEL/312/2018-19 DATE OF BORING : 11-02-2020	020
TEST RESULTS	TEST RESULTS  TEST RESULTS  OF AIL 18 12 25 25 25 25 25 25 25 25 25 25 25 25 25	TEST RESULTS   THE NO.   1	WATER L	EVEL:	NOT ME	ST WITH	1	dleut.									TYPE	OF BC	DRING	: ROTAR	-
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106   Sept-14   108   SILTY CLAYEY SAND WITH LATERITIC GRAVELLY SAND WITH SILTY CLAYEY SAND WITH SILTY CLAYER SAND WITH SILTY CL	S   S   S   S   S   S   S   S   S   S	### ### ##############################	$\vdash$	0	Fld	L		NO		GRAIN	SIZE AN	ALYSIS		ATTER	BERGS	-			SHEA	R PARAM	ETERS
1.08         SPT-1         D6         SILTY CLAYRY SAND WITH LATERITIC GRAVEL.         SC         11         54         15         27         24.00         242.0           2.00         SPT-2         D6         SILTY CLAYRY SAND WITH LATERITIC GRAVEL.         SC         41         19         27         14         15         27         24.00         2.51           3.00         SPT-3         D6         SAND WITH SILTY CLAY (PELLOW/BRICHNI)         SC         6         41         19         27         14         15.00         2.51           4.50         SPT-3         D6         SAND WITH SILTY CLAY (COLDEN YELLOW)         SC         2         42         18         20         14         10         27         21.00         2.51           6.00         SPT-3         D6         SAND WITH SILTY CLAY (COLDEN YELLOW)         SC         22         42         18         20         14         10         27         21.00         2.51           6.00         SPT-3         D6         SAND WITH SILTY CLAY (COLDEN YELLOW)         SC         22         42         18         20         14         10         20         20         20         20         20         20         20         20         2	SC 11 54 15 20 245 250 240 245 25 25 25 25 25 25 25 25 25 25 25 25 25	SC 11 54 15 28 3400 243 SC 11 44 16 21 220 221 SC 6 44 19 27 20 20 201 SC 22 42 18 20 20 201 SC 0 52 22 43 18 20 201 SC 0 52 22 43 18 20 201		RVMbTE N	TYPE OF SAM		SOIL DESCRIPTION		SEVAEL %	% ONVS	% 178	CFVA.#	713HS	тіміз аққаз		X30Ni	CONTENT	SPECIFIC	TEST METHOD	с насм	
2.00         SPT-2         DS         SHITY CLAYRY SAND WITH LATERTIK GRAVEL         SC         1T         45         TS	SC 11 46 16 21 20 251 SC 6 48 19 27 20 26 251 SC 22 42 18 20 20 251 SC 0 52 22 32 28 20 261	SC 117 446 115 211 32 116 114 1230 2.551 SC 22 447 116 229 215 318 116 114 15.00 2.550 SC 0 52 22 32 318 229 240 2.550	200	257.7		(BROWN)	Y SAND WITH LATERITIC GRAVEL.	SC	=	3	22	8						252			
3.00         SPT-3         DS         SAMD WITH SILTY CLAY (PZLLOW/BRICWN)         SC         6         418         19         27         32         16         14         15.00         2.88           4.30         SFT-4         DS         SALTY CLAYFY CLAY (GOLDEN YELLOW)         SC         22         42         18         22         7         18         23         21.00         2.51           6.00         SFT-3         DS         SAMD WITH SILTY CLAY (GOLDEN YELLOW)         SC         22         42         18         22         21         21.00         2.51         21.00         2.51           6.00         SFT-3         DS         SAMD WITH SILTY CLAY (GOLDEN YELLOW)         SC         22         42         18         22	5C 6 48 19 27 30 16 14 15.00 238	55 6 44 19 27 38 16 14 15 20 238 85 22 42 14 28 28 28 28 28 28 28 28 28 28 28 28 28		SP1-2	_	SHITY CLAYE (YELLOW/BR	Y SAND WITH LATERITIC GRAVEL. (DWN)	8	11			×						2.81			
6.00         SPT-4         DS         SAMD WITH SILTY CLAYEV LATENTING GRAVELLY SAND (BRGWW)         SC         4.2         4.8         18         20         2.61         2.	SC 22 42 18 29 2140 2251	SC 22 42 18 25 2140 226 226 22 42 18 25 25 25 25 25 25 25 25 25 25 25 25 25	- CO CO CO	\$PT-2		SAMD WITH	SILTY CLAY (YELLOW/BROWN)	8	100	9	9	n		R	2			2.60			
6.46 SPT-5 DS SAMD WITH SILTY CLAY (GOLDEN VELLOW) BC 0 53 23 28 260 2.40 2.40 2.40 4.40 ALBOUNDED SOFT MOCK	BC 0 22 23 24 24 24 24 24 24 24 24 24 24 24 24 24	SC 0 52 23 24 240 240 240 240 240 240 240 240 240	Gest	SPT-4		SILTY CLAYES	Y LATERITIC GRAVELLY SAND (SROWN)	38	72	9	=	R						1972			
SPT SOFT ROCK  REBOUNDED  NARD ROCK			-	2		SAMD WITH	SILTY CLAY (GOLDEN VELLOW)	28		22	22	×					-	280			
NARD ROCK			6.48	S NEBOI	PT	_							•								
	IOTE: Samples were supplied to us by the client. L.C. Density & shear Test of SPT Samples are dotte on Remoulded Specimen		6.73			HARD ROCK	antic.														





















### TEST REPORT

Test Report No. 20211220	/R018	Date: 24-	12-2021		Page 1 of 2
	CUST	OMER DETAILS	ē.	- //	
Customer Name & Address	M/s Calicut Lands Kodenchery Village, h District			ers India Pv	t. Ltd.
Customer Reference	Test Request dt: 20-1	12-2021			
	SAM	MPLE DETAILS			
Product Category	Water	Seum	ple Code		20211220/8018
Sample Name	Open Well	Sam	ple Receive	ed on	21-12-2021
Sample Conditions at Receipt	Pit for Analysis	Tem	perature (i	Receipt	27 °C
Sample Quantity& Packing	1L & 100ml Plantic B	lottle Test	Commenc	ed on	21-12-2021
Sampled by	Not Drawn by Labors		Completed	t on	28-12-2021
~ ~	SAMPLI	NG SITE DETAIL	LS		10
Survey No.	15/1,33/1				
Village	Kodenchery	Talu	de		Thamarassery
District	Kozhikode	Stat	6		Kerala
	TEST RESULTS	CHEMICAL PAR	CAMETER	S	
SLNo. PARAMETER	S TEST	METHOD	UNIT	RESULT	Acceptable Limit of 15 10500 2012

	TI	ST RESULTS- CHEMICAL PAR	AMETER	S	
SLNo.	PARAMETERS	TEST METHOD	UNIT	RESULT	Requirement as per Acceptable Limit of 18 10500 :2012
1	Colour	IS 3025 (Part 4):1983 FA 2017	Hazen	1	Max 5
2	Odour	IS 3025 (Part 5):2015	-	Agreeable	Agreeable
3	Turbidity	IS 3025 (Part 10):1984 RA 2017	NTU	0.1	Max 1
4	ptt	IS 3025 (Part 11):1983 RA 2017		6.93	6.50 - 8.50
5	Conductivity	IS 3025 (Part 14):1984 RA 2019	µЗ/ст	102	***
6	Total Discolved Solids	IS 3025 (Part 16):1984 RA 2017	mg/L	66.0	Max 500
7	Total Hardness as CaCO <sub>3</sub>	IS 3025 (Part 21):2009 RA 2019	mg/L	28.0	Max 200
8	Calcium as Ca	IS 3025 (Part 40): 1991 RA 2019	mg/L	8.00	Max 75
9	Magnesium as Mg	13 3025 (Part 46):1994 RA 2019	mg/L	1.95	Max 30
10	Chloride as Cl	IS 3025 (Part 32):1988 RA 2019	mg/L	10.9	Max 250
11	Total Alkalinity as CaCOs	IS 3025 (Part 23):1986 RA 2019	mg/L	14.0	Max 200
12	Iron as Fe	13 3025 (Part 53): 2003 RA 2019	mg/L	0.10	Max 1
13	Sulphate as SO <sub>4</sub>	IS 3025 (Part 24):1986 RA 2019	mg/L	1.10	Max 200
	and the same of th	and and the second section to	6/-	2.40	100.000

Shency Joy Dy.TM-Chemical Cacaked by

Salini T.S. Microbiologist Laboratory Head Authorized Signatory Authorized Signatory

Liebju P.N.

The recommended bully to the complicate control for visitys a south to be trager it and and wind produced except it and in the other time will encountry. Standard<sup>5</sup> Environmental & Analytical Laboratories

Approval & Recognition: "A" Grade Laboratory approved by Kerala State Pollution Control Board.

E.J. Ibbser, Ferbelem, Joyogamenda P.C., Imakulam-283 Still, Rel. 0494-2946660, 33 No. 27 24 32, 90 74 34 14 43 Web, www.seciabs.in, E-mail: scaalabe@gmail.com



#### TEST REPORT

Test Report No: 20211220/R016	Date: 24-12-2021	Page 1 of 1
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	CUSTOMER DETAILS	
Customer Name & Address	M/s Calicut Landmark Builders & Developers India Pvt. Ltd. Kodenchery Village, Kodenchery, Korhikode District	
Customer Reference	Test Request dt: 20-12-2021	

	SAMPLE D	ETAILS	
Product Category	Atmospheric Pollution	Sample Code	20211220/5016
Sample Name	Ambient Air	Sample Received on	20-12-2021
Sample Conditions at Receipt	Pit for Analysis	Test Commenced on	21-12-2021
Sampled by	Lab Authorized Sampler	Test Completed on	23-12-2021
	DETAILS OF	SAMPLING	*
Sampling Location	East Side Boundary	Date of Sampling	20-12-2021
Sampling Procedure	SEAAL/ENL/GEN/SOP/02	Humidity	69%
	SAMPLING SI	TE DETAILS	
Survey No.	15/1,33/1		
Village	Kodenchery	Tabule	thamarassery
District	Kozhikode	State	Kerala

	TE	ST RESULTS- CHEMICAL PARAN	METERS		
SL No.	PARAMETERS	TEST METHOD	UNIT	RESULT	NAAQ Standards
1	Particulate Matter, PM <sub>10</sub>	15 5182 (Part 23):2006	µg/m3	58.0	Max 100
2	Particulate Matter, PM <sub>25</sub>	EPA 40 CFR (Part 50) Appendix - L	μg/m3	24.2	Max 60
3	Sulphur Dioxide as SO:	IS 5182 (Part 2): 2001 RA 2017	ug/m <sup>3</sup>	< 2.00	Max 80
4	Oxides of Nitrogen as NO:	IS 5182 (Part 6): 2006 RA 2017	μg/m <sup>3</sup>	< 2.00	Max 80

Remarks:

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

chaical Manage Checked by:

Lalju P.N. Authorized Signatory

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Standard<sup>5</sup> Environmental & Analytical Laboratories
Approva: & Recognition: "A" Grade Laboratory approved by Kerala State Pollution Control Board. K.I. Tower, Pathalam, Udyoga handal R.O., Emakutam-683 301, Tel. 3484-2546660, 93 87 27 24 02 90 74 34 14 43 Welth consensations of the sensibility meditions



### TEST REPORT

Test Report No: 20211220/R017		Date: 24-12-2021	Page 1 of 1
	CU	ISTOMER DETAILS	
Customer Name & Address		mark Builders & Developers India Kodenchery, Kozhikode	Pvt. Ltd.
Customer Reference	Test Request dt: 20	0-12-2021	

	DETAILS O	F MONITORING	92
Product Category	Atmospheric Pollution	s Sample Code 20211220/8017	
5Sample Name	Ambient Noise	Monitoring Commenced on	20-12-2021/ 06:00
Monitoring Location	Eact Side boundary	Monitoring Completed on	21-12-2021/ 06:00
Test Method	IS 9989:1981 RA:2008	Monitored by	Lab Authorized Sampler
	MONITORIN	IG SITE DETAILS	à de la company de la comp
Burvey No.	15/1,33/1		
Village	Kodenchery	Tahuk	thamarassery
District	Kozhikode	State	Kerala

MONITORING RESULTS - Leq						
TIME	RESULTS dB(A)	TIME	RESULTS dB(A)	TIME	RESULTS dB(A)	
06:00	42.6	14:00	57.1	22:00	41.3	
07:00	45.7	15:00	57.5	23:00	35.3	
08:00	50.5	16:00	58.8	24:00	37.9	
09:00	54.4	17:00	59.3	01:00	38.6	
10:00	57.1	18:00	53.1	02:00	38.2	
11:00	60.6	19:00	49.2	03:00	38.9	
12:00	57.5	20:00	44.8	04:00	37.9	
13:00	56.6	21:00	44.3	05:00	39.7	

TEST RESULTS					
SL. No.	PARAMETERS	UNIT	RESULT		
1	Ambient Sound Level (Leq) Day Time (06:00 to 22:00)	dB(A)	\$5.6		
2	Ambient Sound Level (Leq) Night Time (22:00 to 06:00)	dB(A)	38.1		

Remarks:

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

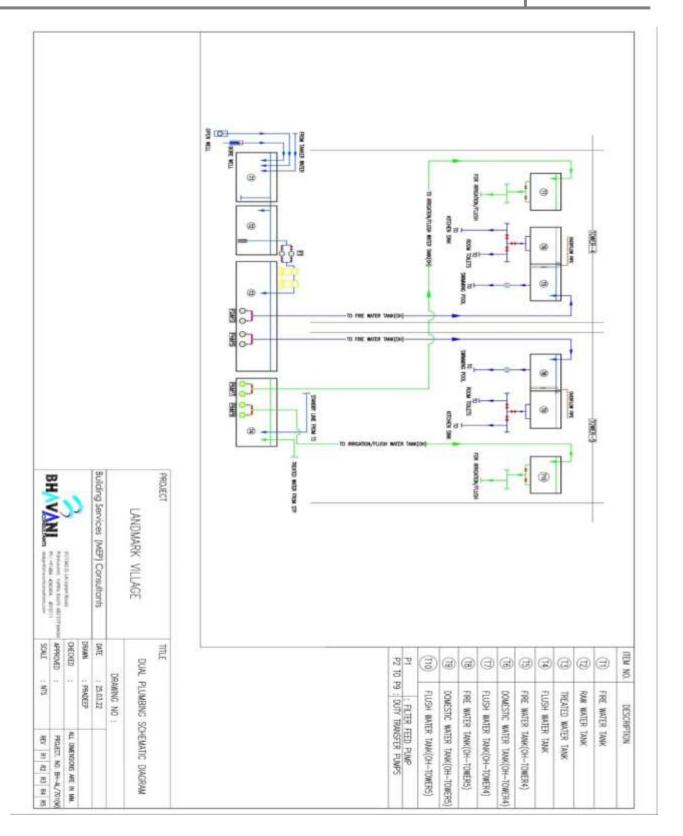
Rija Joseph Technical Manag

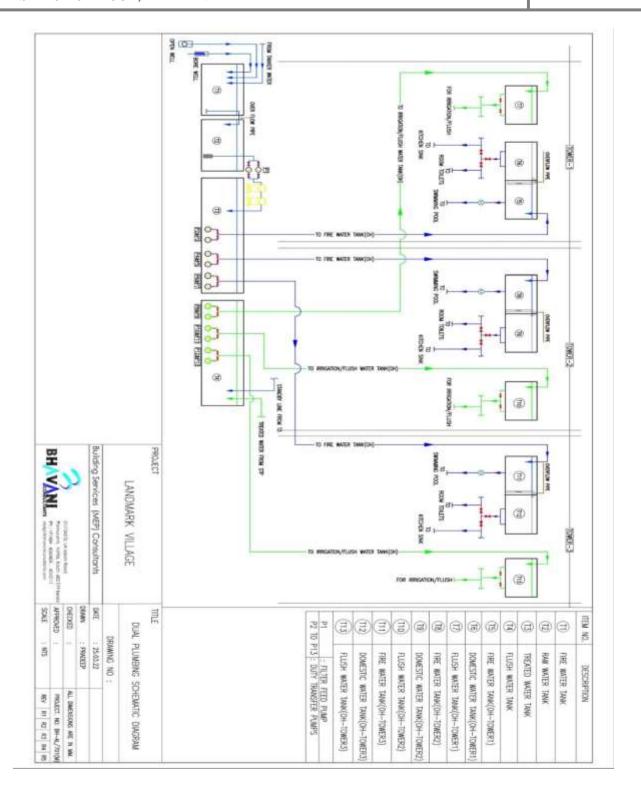
Checked by:

Laiju P.N. Laboratory Head Authorized Signstory

The capital architectury to the samples submitted for any yall-and make the property of the equipment of exact for fall, without the window go could of the following

Standard<sup>5</sup> Environmental & Analytical Laboratories
Approval & Recognition 147 Grade Laboratory approved by Kerzla State Pollution Control Board.
K.J. Tower, Parcialism, Udyoga Hamilal P.O., Emeluiam-683 301, Tel. 0484-2546660, 93 87 27 24 02 90 74 34 14 43
Well: www.septable.in, 1-invall: septable@mell.com







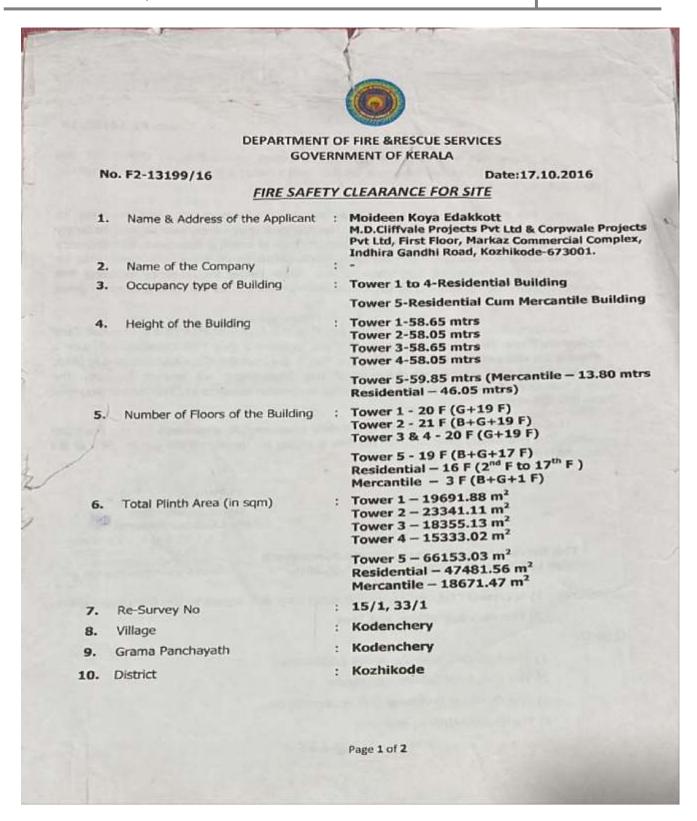
Javiu Contre, West Hin, Koshikeda, Karala, 67303a Ph; +91 9085810432, 6498 2382432, 6014432 E-mail: jitheshpyttek@gmail.com Website: www.jitheshangineen.com CN:U74200KL2884PTC036373

DATE: 25-03-2022

### STABILITY CERTIFICATE

this is to exit?y that the structural design of the proposed (Basiment 4 Bround + 27 FLOCK) storted building LANDMARK VILLAGE TS, kodanjeri Village, Thurbressery Tauk, Kozhikode polytics, Pin code 874 182 in Re-survey too, 157 8, 3372 is prepared by me mid the design is southful the requirement of stammerds/ guidelines of 15 1875 1987 and setsmic load as per is 1808-2005. Also, I certified that the site has been inspected by me and the design is found structurally stable for constructing the proposed building at the land mantioned above.

Es A. JITHESH, Milech (Siri Engs.), Mile, Cles Structural Engineer's Chartered Engineer Rep.No: M-148102-9 Jithesh Engineers Pvt. Ltd. Structural Engineers Structural Engineers Structural Engineers Structural Engineers Structural Engineers





### നോട്ടീസ് പൊതുജന ശ്രദ്ധയ്ക്കായി കേരള സംസ്ഥാനം, കോഴിക്കോട് താമരശ്ശേരി പഞ്ചായത്ത കോടൻപേരി കോടൻചേരി വില്ലേജിൽ സർവ്വേ No: 15/1 & 33/1 ഉൾപ്പെട്ട സ്ഥലത്ത ടൗൺഷിപ് കെട്ടിട നിർമ്മാണ പദ്ധതിക്കായി കാലിക്കറ്റ് ലാൻഡ് മാർക്ക് ബിൽഡേഴ്സ് & പ്പേഴ്സ് (ഇന്ത്യ) പ്രൈ. ലി. എന്ന സ്ഥാപനം സമർഷിച്ച അപേക്ഷ യിൽ വേണ്ട പരിസ്ഥിതി മതി, പരിസ്ഥിതി വന കാലാവസ്ഥ വ്യതിയാന മന്ത്രാലയത്തിൽ ഓർഡർ നിന്നും 909/SEIAA/EC4/3588/2015 തിയതി 28.12.2019 ഓർഡർ /പകാരം ലഭിച്ചിരിക്കുന്നു. ഈ ഓർഡറിന്റെ പകർപ്പ് സംസ്ഥാന മലിനീകരണ നിയന്ത്രണ ബോർഡിൽ ലഭ്യമാണ്. കൂടാതെ പരിസ്ഥിതി വന കാലാ വൃതിയാന മന്ത്രാലയ ത്തിന്റെ http://www.seiaakerala.org എന്ന വെബ്സൈറ്റിൽ കൂടിയും പകർപ്പ് കാണാവുന്നതാണ്. ഡയറക്ടർ കാലിക്കറ്റ് ലാൻഡ് മാർക്ക് ബിൽഡേഴ്സ് & ഡവലപ്പേഴ്സ് (ഇന്ത്യ) പ്രൈ. ലി.