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TAMIL NADU ELECTRICITY BOARD
CBE-North Electricity Distribution Circle

From

ASSISTANT ENGINEER
Tamilnadu Generation and Distribution Corporation Ltd.
CEDC/NORTH
THUDIYALUR/EAST. CBE - 34

To

Tr./Tmt. **Eshanya construction**
Appl.No :**1270225167**
Appl.Type :**DCW-Works/LT**
Distrib : **DONBOSCO**
Adds : Sf.no.92/1B2, 92/1C1B,92/
2B, Eshanya construction,
vellakinar village, Coimbatore north,641029

LR.NO.AE/JE/O&M/EAST/F.App.Tracking/D.No /2025 DATED: 20.02.2025

Dear Sir / Madam,

Sub: Elecy -CBE-North.Elecy.Distn.Circle - Application for
DCW-Works/LT ◆Demand Issued - Payment Requested-Reg.

****

You are informed that your application No 1270225167 Dated 20-02-2025 towards DCW-Works/LT in DONBOSCO distribution of EAST THUDIYALUR section has already been sanctioned on 14-03-2025. Your are requested to pay an additional amount of **Rs.66220/-** before 03-04-2025 without fail to proceed further.

Account Code	Amount(Rs.)
55110-Consumer Contribution towards value of Works-(incurred by consumers)(GST Applicable)	0.00
47621-Deposits Collected for DCW nature (GST Applicable)	56119.00
46941-CGST	5050.71.00
46942-SGST	5050.71.00
62948-Rounding Off	-.42.00
Total	**66220.00**

(Rupees Sixty Six Thousand Two Hundred And Twenty Only)

Yours faithfully,

20/03/2025

ASSISTANT ENGINEER
Tamilnadu Generation and Distribution Corporation Ltd.
CEDC/NORTH
THUDIYALUR/EAST. CBE - 34

TAMIL NADU ELECTRICITY BOARD

தமிழ்நாடு பகிர்மானக் கழகம் லிமிடெட்

(இணையதளவழி மின் கட்டணம் முறை)

மின் கட்டணம் ரசீது

பெயர் : ESHANYA CONSTRUCTION

மின். இ. எண்: 200031270225167 கட்டண முறை : TANGEDCO PAYMENT PORTAL

இரசீது எண் : PGCICI727546486 நாள் : 20/03/2025 18:00:23

வ.எண்	கட்டணம் விவரம்	தொகை (ரூ.)
1	47621-Deposits Collected for DCW nature (GST Appl**	56119.00
2	55110-Deposits Collected for DCW nature (GST Appl**	0.00
3	46941-CGST @9%	5050.71
4	46942-SGST @9%	5050.71
5	62948-Rounding Off	-0.42
	மொத்தம்	66220.00

தொகை (எழுத்தால்) ரூ. Sixty Six thousand Two hundred Twenty only

** Support services are taxable under GST

இதர விவரங்கள் :

1.TANGEDCO CIN No. : U40109TN2009SGC073746

2.TANGEDCO GST No. : 33AADCT4784E1ZC

3.HSN CODE : 27160000

4.SAC CODE : 996912

5.ELECTRICAL ENERGY & DISTRIBUTION SERVICES ARE EXEMPTED UNDER GST

* இது கணினியில் உருவாக்கப்பட்ட ஆவணம் தனி ஒப்புகை தேவையில்லை

* இது வங்கி ஒத்திசைவுக்கு உட்பட்டது

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AV 395029

Eshanya constructions

18.2.2025

Cbe

D.DINESHKUMAR
STAMP VENDOR
Thudiyalur, CBE-34, T.Nadu
L.No.7571/B1/93

உறுதிமொழிப் பத்திரம்

2025ம் ஆண்டு பிப்ரவரி மாதம் ம் தேதி கோயமுத்தூர் மாவட்டம், கோவை வடக்கு வட்டம், கோவை 641 025, வேலாண்டிபாளையம், என் எஸ் ஆர் ரோடு, கதவு எண்.210 என்ற முகவரியில் வசித்து வரும் திரு. சியாம் சுந்தர் ஆகிய நான் Eshanya constructions , கோவை என்ற நிறுவனத்திற்காக

கோயமுத்தூர் மாவட்டம், கோவை வடக்கு வட்டம், கோவை 641 034, துடியலூர் தமிழ்நாடு மின்சார வாரியத்திற்கு (தமிழ்நாடு மின்பகிர்மானம் கழகம்) அளிக்கும் உறுதிமொழிப் பத்திரம் என்னவென்றால்,

For ESHANYA CONSTRUCTIONS

கோயமுத்தூர் மாவட்டம், கோவை வடக்கு வட்டம், வெள்ளகிணர் கிராமம், ச. ச. 92/1B2, 92/1C1B, 92/2B நெ காலையில் உள்ள இடத்தில் உள்பக்கத்தில் தாழ்வழுத்த மின்கம்பமும், மின்கம்பியும் அமைந்துள்ளது. மேற்படி அவற்றை வரைபடத்தில் உள்ளவாறு இடம்மாற்றி தரவேண்டும் என்று விண்ணப்பம் செய்துள்ளோம்

மின்சார வாரியம் மதிப்பீடு அனுமதிக்கப்பட்டபின் மதிப்பீடு தொகையை செலுத்த சம்மதிக்கிறோம்.

மேலும் இதே மதிப்பீட்டின் அனுமதியின் பேரில் தணிக்கையின்போதோ மறு மதிப்பீடு செய்யப்பட்டாலோ தொகை ஏதாவது செலுத்தவேண்டும் என தமிழ்நாடு மின்சார வாரியத்தாரால் அறிவிக்கப்படும் பொழுது அதற்குண்டான தொகையை மேற்படி வாரியத்திற்கு வட்டியுடன் செலுத்த சம்மதிக்கிறோம்.

மேற்படி பணி செய்யும் போது ஏதேனும் ஆட்சேபனை ஏற்பட்டால் அதனை தாங்கள் தெரிவிக்கும் காலக் கெடுவிற்குள் நானே முன்னின்று எனது சொந்தசெலவில் சரிசெய்து தரச் சம்மதிக்கிறோம். தவறும்பட்சத்தில் தாங்கள் எடுக்கும் முடிவிற்கு கட்டுப்பட இதன்மூலம் முழுமனதுடன் சம்மதிக்கிறோம்.

இந்தப்படிக்கு நான் மனப்பூர்வமாக சம்மதித்து எழுதி வைத்துக் கொடுத்த உறுதி மொழிப் பத்திரம்.

தங்கள் உண்மையுள்ள

For ESHANYA CONSTRUCTIONS

Partners

சாட்சிகள்

1.

2.

ESHANYA
CONSTRUCTIONS

Office Address:
S.F.NO: 348/2A, Thudiyalur Road,
Saravanampatty, Coimbatore

eeshanyaconstructions@gmail.com
www.eeshanyaconstructions.com

24.03.2025
Coimbatore

UNDERTAKING

I, **Vasanth Mohan**, Partner of **M/s. Eshanya Constructions** and promoter of the proposed project **"EESHANYA'S SYNCHRONY"** a residential building (Stilt + 5 Floors) comprising 90 dwelling units at S.F. Nos. 92/1B2, 92/1C1B, 92/2B in Vellakinar Village, Coimbatore North Taluk, Coimbatore District, Tamil Nadu—hereby undertake that the relocation of the EB line which is located inside the proposed project site is currently in progress and will be completed within a short period.

For **M/s. Eshanya Constructions**

For ESHANYA CONSTRUCTIONS

Vasanth Mohan
Partner

Partners

SOIL EXPLORATION REPORT

For

M/s. ESHANYA CONSTRUCTIONS

Ref: GEO – G - 098 - 2023-24 *Date: 06.08.2023-10.08.2023*

PROJECT NAME

SOIL INVESTIGATION FOR THE PROPOSED CONSTRUCTION OF APARTMENT BUILDING WITH G + 5 FLOORS OF PLOT AREA 61 CENTS @ SF. NO. : 92/1B2, 92/1C1B & 92/2B, VELLAKINAR VILLAGE, COIMBATORE NORTH TALUK, COIMBATORE DISTRICT – 641029.

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Er.K.P.VETRISELVAN, M.E(GEOTECH), MICS, MISTE,
GEOTECHNICAL ENGINEER
INDIAN GEOTECHNICAL SOCIETY (LM-3564)

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GEO SIGN INDIA PRIVATE LIMITED COIMBATORE

Dr.K.P. VETRISELVAN, M.E.(GEOTECH), MICE, MISTE,
GEOTECHNICAL ENGINEER

1. INTRODUCTION

1.1. PURPOSE AND SCOPE

Geotechnical site investigation work for "SOIL INVESTIGATION FOR THE PROPOSED CONSTRUCTION OF APARTMENT BUILDING WITH G + 5 FLOORS OF PLOT AREA 61 CENTS @ SF. NO. : 92/1B2, 92/1C1B & 92/2B, VELLAKINAR VILLAGE, COIMBATORE NORTH TALUK, COIMBATORE DISTRICT – 641029." The primary purpose of our investigation is to obtain data to develop foundation design recommendations for the above work. At, first instance, Five boreholes was bored at site. Client's representatives selected the locations of borings. To accomplish these purposes, the following tasks were performed:

1. Detailed soil borings were done up to stratum to explore the sub surface stratigraphy and obtain soil samples for testing. Field and laboratory tests were conducted to evaluate the index and engineering properties of the soils
2. Engineering analysis was performed to develop foundation design information for proposed structure.

1.2. THE SITE

"SOIL INVESTIGATION FOR THE PROPOSED CONSTRUCTION OF APARTMENT BUILDING WITH G + 5 FLOORS OF PLOT AREA 61 CENTS @ SF. NO. : 92/1B2, 92/1C1B & 92/2B, VELLAKINAR VILLAGE, COIMBATORE NORTH TALUK, COIMBATORE DISTRICT – 641029."

2. FIELD INVESTIGATIONS

2.1. ROTARY BORING

Rotary drilling technique was adapted using Calyx machine in this field. In this method, boring is effected by the cutting action of a rotating bit that is kept in firm contact with the bottom of the hole. The bit is attached to the lower end of a hollow drill rod that is rotated by a suitable chuck. Drilling mud (usually Bentonite) is continuously forced down the hollow drill rods. The mud returning upwards though the annular space between the drill rods and the side of the hold bring the cutting to the surface.

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2.2. STANDARD PENETRATION TEST

It is now most commonly used in site test. The test measures the penetration resistance of the split spoon sampler, when it is driven into the soil, at the bottom of a borehole in a standard manner. The N-value, which is the number of blow required to achieve 300mm penetration of the soil, indicates the relative density of sand or gravel, the consistency of other soil such as silts or clays and the strength of weak rocks. The test is described in IS 2131 - 1981. The split spoon sampler is attached to stiff drill rod and lowered to the bottom of the bore hold. A standard blow consists of dropping a mass of 63.5kg free fall through 750 mm on to an donut hammer at the top of the rods and ensuing that this amount of dynamic energy is transferred to the sampler as much as possible.

The number of blows required to achieve each 150mm penetration is recorded for a fall penetration of 450mm. The initial 150mm penetration is referred to as seating drive and the blows required for this penetration are not considered as this zone is in disturbed soil. The next 300mm of penetration is referred to as the test drive and the number of blows required to achieve this fully is termed the penetration resistance or N-value.

2.3. SAMPLING

Soil samples were collected through Split spoon and rock core sample were collected through single tube core barrel.

3. LABORATORY TESTS

The operations to be performed in the laboratory depend upon the type of the nature of data required for the problem at hand. In case of cohesionless material, like sand, the laboratory tests are usually minimum and the design parameters are worked out from field test data such as form SPT- N value, Core resistance and plate load test data.

In the case of cohesive soils, the programme of laboratory testing can vary from carrying out simple tests such as unconfined tests to comprehensive study of soil behaviour using triaxial shear tests and consolidation tests.

Following laboratory tests are conducted.

For Cohesion & cohesionless soil

a) Specific gravity
b) Sieve analysis
c) Atterberg's limits
d) Natural moisture content.

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4. FOUNDATION ANALYSIS

4.1 Soil Profile

The profile of the area as observed in the bore hole is given in the chart. The water level is observed far below. The soil layer up to 12.00m depth SOFT DISINTEGRATED ROCK was obtained.

4.2 Safe Bearing Capacity

The bearing capacity of granular soil depends upon the unit weight and angle of internal friction of the soil. These two properties of granular soils are determined by standard penetration tests.

The allowable bearing pressure based on tolerable settlement has been established empirically by Terzaghi and Peck, 1948 and may be expressed by the equation.

Safe bearing capacity (SBC) = $3.5\ (N-3)\ \{(B+0.3)/2B\}^2 \times R_W \times F_D + P$

Where

N = Corrected N value N1
B = Width of Foundation = constant 1
RW = Water Correction = constant 0.5
FD = Depth of Factor = constant 1
P = Over Burden Pressure

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5. RECOMMENDATION

For the site, "SOIL INVESTIGATION FOR THE PROPOSED CONSTRUCTION OF APARTMENT BUILDING WITH G + 5 FLOORS OF PLOT AREA 61 CENTS @ SF. NO. : 92/1B2, 92/1C1B & 92/2B, VELLAKINAR VILLAGE, COIMBATORE NORTH TALUK, COIMBATORE DISTRICT – 641029." the borehole investigation was conducted and SBC was determined.

- In this site, up to 12.00m, SOFT DISINTEGRATED ROCK is obtained.
- The **ISOLATED FOOTING** is recommended for this site.
- **Rest the Foundation at 2.50m from the Natural Ground Level.**
- The **SBC at 2.50m is 36.50 Ton/m^2** is determined in All Borehole Locations @ Foundation Level.

Note:

- The detailed SBC is mentioned in Page No's – 13 – 17.

Er.K.P.VETRISELVAN.,M.E(GEOTECH),MIGS,MISTE.,

GEOTECHNICAL ENGINEER

Er.K.P. VETRISELVAN, M.E(GEOTECH), MICS, MISTE,
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INDIAN GEOTECHNICAL SOCIETY (LM-3564)

S.NO	TITLE	ENGINEER'S NAME	SIGNATURE
1	Lab testing	Er.M.Ranjitha	
2	Report prepared by	Er.A.Kiruthika	
3	Corrected by	Er.A.Sindhuja	
4	Checked by	Er.V.Suganthi	
5	Approved by	Er.K.P.Vetriselvan	

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INDIAN GEOTECHNICAL SOCIETY (LM-3564)

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6. REFERENCES

1. **IS: 1892-1979** – Indian Standard Code of Practice for Determination of Bearing Capacity Of Shallow Foundation

2. **IS: 1892-1979** - Indian Standard Code of Practice for Subsurface Investigation for Foundations

3. **IS: 2131-1981** - Indian Standard Method for Standard Penetration Test for Soils

4. **IS: 8009 (Part 1) - 1976** - Indian Standard Code of Practice for Calculation of Settlements of Foundations

5. **IS: 2720 (Part-2) - 1973** - Indian Standard Methods of Test for Soils, Determination of Water Content

6. **IS: 2720 (Part-4) - 1985** - Indian Standard Methods of Test for Soils, Grain Size Analysis

7. **IS: 2720 (Part-5) – 1985** - Indian Standard Method of Test for Soils, Determination of Liquid and Plastic Limit

8. **IS: 2720 (Part-3/Sec-1)1980** - Indian Standard Methods of Test for Soils, Determination of Specific Gravity.

Er.K.P. VETRISELVAN, M.E(GEOTECH), MICS, MISTE,
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INDIAN GEOTECHNICAL SOCIETY (LM-3864)

1

Bore Log

Ref: *GEO – G - 098 – 2023-24*

Name of Project: "SOIL INVESTIGATION FOR THE PROPOSED CONSTRUCTION OF APARTMENT BUILDING WITH G + 5 FLOORS OF PLOT AREA 61 CENTS @ SF. NO. : 92/1B2, 92/1C1B & 92/2B, VELLAKINAR VILLAGE, COIMBATORE NORTH TALUK, COIMBATORE DISTRICT – 641029."

Soil Investigation done by: GEODESIGN INDIA PRIVATE LIMITED Soil Exploration Consultant, Coimbatore-38

Type of Drilling: Rotary – Mud Circulation LOCATION – 1

G.W.T-Not met

Bore hole No. : 1

Date of commencement : 06.08.2023
Date of completion : 07.08.2023

Depth below G.L	Soil Profile	Description of Soil	Thickness of layer (m)	Standard penetration test data					Relative density / Consistency	Graphical representation of penetration resistance
				Depth at which test is conducted	N – Value- Depth of penetration					0 20 40 60 80 100
					15cm	30cm	45cm	For 30cm		
		Clay	**1.60**	1.00	4	5	5	10	Stiff	
1.60		**Kankar**	**0.80**	2.00	9	21	27	48	Dense	
2.40		**Soft Disintegrated Rock**	**9.60**	3.00	37	50/9	-	>50	V. Dense	
				4.50	>50	-	-	>50	V. Dense	
				6.00	>50	-	-	>50	V. Dense	
				7.50	>50	-	-	>50	V. Dense	
				9.00	>50	-	-	>50	V. Dense	
				10.50	>50	-	-	>50	V. Dense	
12.00m		End of Bore hole								

Contd...2

GEODESIGN INDIA PRIVATE LIMITED COIMBATORE

Er.K.P. VETRISELVAN, M.E.(GEOTECH), MICE, MISTE,
GEOTECHNICAL ENGINEER

2

Bore Log

Ref: ***GEO – G - 098 – 2023-24***

Name of Project: "SOIL INVESTIGATION FOR THE PROPOSED CONSTRUCTION OF APARTMENT BUILDING WITH G + 5 FLOORS OF PLOT AREA 61 CENTS @ SF. NO. : 92/1B2, 92/1C1B & 92/2B, VELLAKINAR VILLAGE, COIMBATORE NORTH TALUK, COIMBATORE DISTRICT – 641029."

Soil Investigation done by: GEODESIGN INDIA PRIVATE LIMITED Soil Exploration Consultant, Coimbatore-38

Type of Drilling: Rotary – Mud Circulation LOCATION – 2

G.W.T-Not met

Bore hole No. : 2

Date of commencement : 07.08.2023
Date of completion : 08.08.2023

Depth below G.L.	Soil Profile	Description of Soil	Thickness of layer (m)	Standard penetration test data: Depth at which test is conducted	N – Value- Depth of penetration: 15cm	30cm	45cm	For 30cm	Relative density / Consistency	Graphical representation of penetration resistance
1.10		Clay	1.10	1.00	7	12	25	37	Dense	
1.40		Clay with Kankar	0.30							
2.20		Kankar	0.80	2.00	21	33	50/7	>50	V. Dense	
				3.00	50/11	-	-	>50	V. Dense	
				4.50	>50	-	-	>50	V. Dense	
		Soft Disintegrated Rock	9.80	6.00	>50	-	-	>50	V. Dense	
				7.50	>50	-	-	>50	V. Dense	
				9.00	>50	-	-	>50	V. Dense	
				10.50	>50	-	-	>50	V. Dense	
12.00m		End of Bore hole								

Graphical representation of penetration resistance: 0 20 40 60 80 100

Contd…3

GEODESIGN INDIA PRIVATE LIMITED

Dr.P. VETRISELVAN, M.S.(Tech), M.C.E., M.I.E.,
GEOTECHNICAL ENGINEER
INDIAN GEOTECHNICAL SOCIETY (LM-3554)

3

Bore Log

Ref: ***GEO – G - 098 – 2023-24***

Name of Project: "SOIL INVESTIGATION FOR THE PROPOSED CONSTRUCTION OF APARTMENT BUILDING WITH G + 5 FLOORS OF PLOT AREA 61 CENTS @ SF. NO. : 92/1B2, 92/1C1B & 92/2B, VELLAKINAR VILLAGE, COIMBATORE NORTH TALUK, COIMBATORE DISTRICT – 641029."

Soil Investigation done by: GEODESIGN INDIA PRIVATE LIMITED Soil Exploration Consultant, Coimbatore-38

Type of Drilling: Rotary – Mud Circulation LOCATION – 3

G.W.T-Not met

Bore hole No. : 3

Date of commencement : 08.08.2023
Date of completion : 08.08.2023

Depth below G.L	Soil Profile	Description of Soil	Thickness of layer (m)	Standard penetration test data					Relative density / Consistency	Graphical representation of penetration resistance
				Depth at which test is conducted	N – Value- Depth of penetration					0 20 40 60 80 100
					15cm	30cm	45cm	For 30cm		
		Clay	**1.20**							
1.20				1.00	12	15	24	39	Dense	
1.60		**Clay with Kankar**	**0.40**							
		Kankar	**0.70**	2.00	28	50/7	-	>50	V. Dense	
2.30				3.00	50/2	-	-	>50	V. Dense	
				4.50	>50	-	-	>50	V. Dense	
		Soft Disintegrated Rock	**9.70**	6.00	>50	-	-	>50	V. Dense	
				7.50	>50	-	-	>50	V. Dense	
				9.00	>50	-	-	>50	V. Dense	
				10.50	>50	-	-	>50	V. Dense	
12.00m		End of Bore hole		12.00	>50	-	-	>50	V. Dense	

Contd…4

GEODESIGN INDIA PRIVATE LIMITED COIMBATORE

Ex.K.P. VETRISELVAN, M.E.(GEOTECH), M.I.E., MGSTE,
GEOTECHNICAL ENGINEER
INDIAN GEOTECHNICAL SOCIETY (LM-3564)

4

Bore Log

Ref: *GEO – G - 098 – 2023-24*

Name of Project: "SOIL INVESTIGATION FOR THE PROPOSED CONSTRUCTION OF APARTMENT BUILDING WITH G + 5 FLOORS OF PLOT AREA 61 CENTS @ SF. NO. : 92/1B2, 92/1C1B & 92/2B, VELLAKINAR VILLAGE, COIMBATORE NORTH TALUK, COIMBATORE DISTRICT – 641029."

Soil Investigation done by: GEODESIGN INDIA PRIVATE LIMITED Soil Exploration Consultant, Coimbatore-38

Type of Drilling: Rotary – Mud Circulation LOCATION – 4

G.W.T-Not met

Bore hole No. : 4

Date of commencement : 09.08.2023
Date of completion : 09.08.2023

Depth below G.L	Soil Profile	Description of Soil	Thickness of layer (m)	Standard penetration test data: Depth at which test is conducted	N – Value- Depth of penetration: 15cm	30cm	45cm	For 30cm	Relative density / Consistency	Graphical representation of penetration resistance
1.20		Clay	1.20	1.00	11	14	23	37	Dense	
1.60		Clay with Kankar	0.40							
2.10		Kankar	0.50	2.00	43	50/8	-	>50	V. Dense	
		Soft Disintegrated Rock	9.90	3.00	>50	-	-	>50	V. Dense	
				4.50	>50	-	-	>50	V. Dense	
				6.00	>50	-	-	>50	V. Dense	
				7.50	>50	-	-	>50	V. Dense	
				9.00	>50	-	-	>50	V. Dense	
				10.50	>50	-	-	>50	V. Dense	
12.00m		End of Bore hole		12.00	>50	-	-	>50	V. Dense	

Graphical representation of penetration resistance: 0 20 40 60 80 100

Contd...5

GEODESIGN INDIA PRIVATE LIMITED

Dr.K.P. VETRISELVAN, M.E.(GEOTECH), MISTE,
GEOTECHNICAL ENGINEER
INDIAN GEOTECHNICAL SOCIETY (LM-3564)

5

Bore Log

Ref: *GEO – G - 098 – 2023-24*

Name of Project: "SOIL INVESTIGATION FOR THE PROPOSED CONSTRUCTION OF APARTMENT BUILDING WITH G + 5 FLOORS OF PLOT AREA 61 CENTS @ SF. NO. : 92/1B2, 92/1C1B & 92/2B, VELLAKINAR VILLAGE, COIMBATORE NORTH TALUK, COIMBATORE DISTRICT – 641029."

Soil Investigation done by: GEODESIGN INDIA PRIVATE LIMITED Soil Exploration Consultant, Coimbatore-38

Type of Drilling: Rotary – Mud Circulation LOCATION – 5

G.W.T-Not met

Bore hole No. : 5

Date of commencement : 09.08.2023
Date of completion : 10.08.2023

Depth below G.L	Soil Profile	Description of Soil	Thickness of layer (m)	Standard penetration test data					Relative density / Consistency	Graphical representation of penetration resistance
				Depth at which test is conducted	N – Value- Depth of penetration					0 20 40 60 80 100
					15cm	30cm	45cm	For 30cm		
1.30		Clay	1.30	1.00	12	15	20	35	Dense	
1.50		Clay with Kankar	0.20							
2.30		Kankar	0.80	2.00	25	39	50/8	>50	V. Dense	
		Soft Disintegrated Rock	9.70	3.00	50/13	-	-	>50	V. Dense	
				4.50	>50	-	-	>50	V. Dense	
				6.00	>50	-	-	>50	V. Dense	
				7.50	>50	-	-	>50	V. Dense	
				9.00	>50	-	-	>50	V. Dense	
				10.50	>50	-	-	>50	V. Dense	
12.00m		End of Bore hole		12.00	>50	-	-	>50	V. Dense	

Geotechnical Engineer

GEOTECHNICAL ENGINEER

Ref: GEO – G - 098 - 2023-24

SOIL TEST RESULTS

Name of Project: "SOIL INVESTIGATION FOR THE PROPOSED CONSTRUCTION OF APARTMENT BUILDING WITH G + 5 FLOORS OF PLOT AREA 61 CENTS @ SF. NO. : 92/1B2, 92/1C1B & 92/2B, VELLAKINAR VILLAGE, COIMBATORE NORTH TALUK, COIMBATORE DISTRICT – 641029."

GEODESIGN INDIA PRIVATE LIMITED Soil Exploration Consultant, Coimbatore-38	BORE NUMBER - 1	LOCATION : 1	GROUND WATER LEVEL: Not met	COMMENCEMENT OF LAB TESTING 11.08.2023	COMPLETION OF LAB TESTING 14.08.2023

SOIL PROFILE AND DEPTH IN METRES	DEPTH OF SAMPLING (m)	IS SOIL CLASSIFICATION	NATURAL WET DENSITY (kN/m³)	NATURAL MOISTURE CONTENT %	INDEX TEST			SIEVE ANALYSIS % PASSING IS SIEVE ANALYSIS				SPECIFIC GRAVITY	SHEAR TEST		STANDARD PENETRATION TEST				CONSOLIDATION TEST			
					LIQUID LIMIT (%)	PLASTIC LIMIT (%)	PLASTICITY INDEX (%)	% of GRAVEL	% of SAND	% of SILT	% of CLAY		COHESION C (Ton / m²)	ANGLE OF INTERNAL FRICTION °	DEPTH OF TESTING (m)	OBSERVED N VALUE	CORRECTED N VALUE	SAFE BEARING CAPACITY (T/m²)	COMPRESSION INDEX C_c	PRE-CONSOLIDATION PRESSURE (kg/cm²)	INITIAL VOIDS RATIO	CO-EFFECT OF CONSOLIDATION C_v (cm²/sec)
															1.00	10	10	5.87				
		CL	18.36	15.71	34	23	11	13	18	27	42	2.69	2.5	-	2.00	48	48	34.67	-	-	-	-
	1.60														3.00	>50	50	36.85				
		KAN	16.29	11.17	-	-	-	17	31	52		-	-	34	4.50	>50	50	37.90	-	-	-	-
	2.40														6.00	>50	50	38.95				
															7.50	>50	50	40.00				
															9.00	>50	50	41.05				
		SDR	-	-	-	-	-	-	-	-	-	-	-	-	10.50	>50	50	42.10	-	-	-	-
	12.00																					

Depth (m)	Core Recovery (%)	Rock Quality Designation (%)	Allowable Bearing Pressure (Ton/m²)
10.50 – 12.00	13	NIL	-

CL – LOW PLASTICITY CLAY, KAN – KANKAR, SDR – SOFT DISINTEGRATED ROCK

Contd...2

Er.K.P. VETRISELVAN, M.E(GEOTECH), MICE, MISTE,
GEOTECHNICAL ENGINEER
INDIAN GEOTECH... (I.M.35641)

2

Ref: GEO – G - 098 - 2023-24

SOIL TEST RESULTS

Name of Project: "SOIL INVESTIGATION FOR THE PROPOSED CONSTRUCTION OF APARTMENT BUILDING WITH G + 5 FLOORS OF PLOT AREA 61 CENTS @ SF. NO. : 92/1B2, 92/1C1B & 92/2B, VELLAKINAR VILLAGE, COIMBATORE NORTH TALUK, COIMBATORE DISTRICT – 641029."

GEODESIGN INDIA PRIVATE LIMITED Soil Exploration Consultant, Coimbatore-38	BORE NUMBER - 2	LOCATION : 2	GROUND WATER LEVEL: Not met	COMMENCEMENT OF LAB TESTING 11.08.2023	COMPLETION OF LAB TESTING 14.08.2023

SOIL PROFILE AND DEPTH IN METRES	DEPTH OF SAMPLING (m)	IS SOIL CLASSIFICATION	NATURAL WET DENSITY (kN/m³)	NATURAL MOISTURE CONTENT %	INDEX TEST			SIEVE ANALYSIS % PASSING IS SIEVE ANALYSIS				SPECIFIC GRAVITY	SHEAR TEST		STANDARD PENETRATION TEST				CONSOLIDATION TEST			
					LIQUID LIMIT (%)	PLASTIC LIMIT (%)	PLASTICITY INDEX (%)	% of GRAVEL	% of SAND	% of SILT	% of CLAY		COHESION C (Ton / m²)	ANGLE OF INTERNAL FRICTION °	DEPTH OF TESTING (m)	OBSERVED N VALUE	CORRECTED N VALUE	SAFE BEARING CAPACITY (T/m²)	COMPRESSION INDEX C_c	PRE-CONSOLIDATION PRESSURE (kg/cm²)	INITIAL VOIDS RATIO	CO-EFFECT OF CONSOLIDATION C_v (cm²/sec)
		CL	19.15	14.56	33	21	12	8	15	32	45	2.71	2.7	-	1.00	37	37	25.83	-	-	-	-
	1.10														2.00	>50	50	36.15				
	1.40	CL-KAN	-	-	-	-	-	-	-	-	-	-	2.3	30	3.00	>50	50	36.85	-	-	-	-
		KAN	-	-	-	-	-	25	34	41		-	-	-	4.50	>50	50	37.90	-	-	-	-
	2.20														6.00	>50	50	38.95				
															7.50	>50	50	40.00				
															9.00	>50	50	41.05				
															10.50	>50	50	42.10				
		SDR	-	-	-	-	-	-	-	-	-	-	-	-					-	-	-	-
	12.00																					

Depth (m)	Core Recovery (%)	Rock Quality Designation (%)	Allowable Bearing Pressure (Ton/m²)
10.50 – 12.00	6	NIL	-

CL – LOW PLASTICITY CLAY, CL- KAN – LOW PLASTICITY CLAY WITH KANKAR, KAN – KANKAR, SDR – SOFT DISINTEGRATED ROCK.

Contd…3

Er.K.P. VETRISELVAN, M.E(GEOTECH), MICS, MISTE,
GEOTECHNICAL ENGINEER

3

Ref: GEO – G - 098 - 2023-24

SOIL TEST RESULTS

Name of Project: "SOIL INVESTIGATION FOR THE PROPOSED CONSTRUCTION OF APARTMENT BUILDING WITH G + 5 FLOORS OF PLOT AREA 61 CENTS @ SF. NO. : 92/1B2, 92/1C1B & 92/2B, VELLAKINAR VILLAGE, COIMBATORE NORTH TALUK, COIMBATORE DISTRICT – 641029

GEODESIGN INDIA PRIVATE LIMITED Soil Exploration Consultant, Coimbatore-38	BORE NUMBER - 3	LOCATION : 3	GROUND WATER LEVEL: Not met	COMMENCEMENT OF LAB TESTING 11.08.2023	COMPLETION OF LAB TESTING 14.08.2023

SOIL PROFILE AND DEPTH IN METRES	DEPTH OF SAMPLING (m)	IS SOIL CLASSIFICATION	NATURAL WET DENSITY (kN/m³)	NATURAL MOISTURE CONTENT %	INDEX TEST			SIEVE ANALYSIS % PASSING IS SIEVE ANALYSIS				SPECIFIC GRAVITY	SHEAR TEST		STANDARD PENETRATION TEST				CONSOLIDATION TEST			
					LIQUID LIMIT (%)	PLASTIC LIMIT (%)	PLASTICITY INDEX (%)	% of GRAVEL	% of SAND	% of SILT	% of CLAY		COHESION C (Ton / m²)	ANGLE OF INTERNAL FRICTION °	DEPTH OF TESTING (m)	OBSERVED N VALUE	CORRECTED N VALUE	SAFE BEARING CAPACITY (T/m²)	COMPRESSION INDEX C_c	PRE-CONSOLIDATION PRESSURE (kg/cm²)	INITIAL VOIDS RATIO	CO-EFFECT OF CONSOLIDATION C_v (cm²/sec)
		CL	16.92	12.41	32	20	12	11	20	29	40	2.78	2.1	-	1.00	39	39	27.31	-	-	-	-
	1.20														2.00	>50	50	36.15				
		CL-KAR	-	-	-	-	-	-	-	-	-	-	-	32	3.00	>50	50	36.85	-	-	-	-
	1.60																					
		KAN	16.30	9.75	-	-	-	-	-	-	-	-	-	-	4.50	>50	50	37.90	-	-	-	-
	2.30														6.00	>50	50	38.95				
															7.50	>50	50	40.00				
															9.00	>50	50	41.05				
															10.50	>50	50	42.10				
		SDR	-	-	-	-	-	-	-	-	-	-	-	-	12.00	>50	50	43.15	-	-	-	-
	12.00																					

CL – LOW PLASTICITY CLAY, CL- KAN – LOW PLASTICITY CLAY WITH KANKAR, KAN – KANKAR, SDR – SOFT DISINTEGRATED ROCK.

Contd...4

Er.K.P. VETRISELVAN, M.E.(GEOTECH), MICS, MISTE,
GEOTECHNICAL ENGINEER
INDIAN GEOTECHNICAL SOCIETY (LM-3954)

4

Ref: GEO – G - 098 - 2023-24

SOIL TEST RESULTS

Name of Project: "SOIL INVESTIGATION FOR THE PROPOSED CONSTRUCTION OF APARTMENT BUILDING WITH G + 5 FLOORS OF PLOT AREA 61 CENTS @ SF. NO. : 92/1B2, 92/1C1B & 92/2B, VELLAKINAR VILLAGE, COIMBATORE NORTH TALUK, COIMBATORE DISTRICT – 641029."

GEODESIGN INDIA PRIVATE LIMITED Soil Exploration Consultant, Coimbatore-38	BORE NUMBER - 4	LOCATION : 4	GROUND WATER LEVEL: Not met	COMMENCEMENT OF LAB TESTING 11.08.2023	COMPLETION OF LAB TESTING 14.08.2023

SOIL PROFILE AND DEPTH IN METRES	DEPTH OF SAMPLING (m)	IS SOIL CLASSIFICATION	NATURAL WET DENSITY (kN/m³)	NATURAL MOISTURE CONTENT %	INDEX TEST			SIEVE ANALYSIS % PASSING IS SIEVE ANALYSIS				SPECIFIC GRAVITY	SHEAR TEST		STANDARD PENETRATION TEST				CONSOLIDATION TEST			
					LIQUID LIMIT (%)	PLASTIC LIMIT (%)	PLASTICITY INDEX (%)	% of GRAVEL	% of SAND	% of SILT	% of CLAY		COHESION C (Ton / m²)	ANGLE OF INTERNAL FRICTION °	DEPTH OF TESTING (m)	OBSERVED N VALUE	CORRECTED N VALUE	SAFE BEARING CAPACITY (T/m²)	COMPRESSION INDEX C_c	PRE-CONSOLIDATION PRESSURE (kg/cm²)	INITIAL VOIDS RATIO	COEFFICIENT OF CONSOLIDATION C_v (cm²/sec)
		CL	17.15	14.82	30	16	14	10	11	34	45	2.72	2.8	-	1.00	37	37	25.83	-	-	-	-
	1.20														2.00	>50	50	36.15				
	1.60	CL-KAN	-	-	-	-	-	-	-	-	-	-	-	-	3.00	>50	50	36.85	-	-	-	-
		KAN	19.38	16.56	-	-	-	-	-	-	-	-	-	-	4.50	>50	50	37.90	-	-	-	-
	2.10														6.00	>50	50	38.95				
															7.50	>50	50	40.00				
															9.00	>50	50	41.05				
															10.50	>50	50	42.10				
		SDR	-	-	-	-	-	-	-	-	-	-	-	-	12.00	>50	50	43.15	-	-	-	-
	12.00																					

CL – LOW PLASTICITY CLAY, CL- KAN – LOW PLASTICITY CLAY WITH KANKAR, KAN – KANKAR, SDR – SOFT DISINTEGRATED ROCK.

Contd...5

Er.K.P. VETRISELVAN, M.E.(GEOTECH), MICE, MIGTE,
GEOTECHNICAL ENGINEER
INDIAN GEOTECH

5

Ref: GEO – G - 098 - 2023-24

SOIL TEST RESULTS

Name of Project: "SOIL INVESTIGATION FOR THE PROPOSED CONSTRUCTION OF APARTMENT BUILDING WITH G + 5 FLOORS OF PLOT AREA 61 CENTS @ SF. NO. : 92/1B2, 92/1C1B & 92/2B, VELLAKINAR VILLAGE, COIMBATORE NORTH TALUK, COIMBATORE DISTRICT – 641029."

GEODESIGN INDIA PRIVATE LIMITED Soil Exploration Consultant, Coimbatore-38	BORE NUMBER - 5	LOCATION : 5	GROUND WATER LEVEL: Not met	COMMENCEMENT OF LAB TESTING 11.08.2023	COMPLETION OF LAB TESTING 14.08.2023

SOIL PROFILE AND DEPTH IN METRES	DEPTH OF SAMPLING (m)	IS SOIL CLASSIFICATION	NATURAL WET DENSITY (kN/m³)	NATURAL MOISTURE CONTENT %	INDEX TEST			SIEVE ANALYSIS % PASSING IS SIEVE ANALYSIS				SPECIFIC GRAVITY	SHEAR TEST		STANDARD PENETRATION TEST				CONSOLIDATION TEST			
					LIQUID LIMIT (%)	PLASTIC LIMIT (%)	PLASTICITY INDEX (%)	% of GRAVEL	% of SAND	% of SILT	% of CLAY		COHESION C (Ton / m²)	ANGLE OF INTERNAL FRICTION °	DEPTH OF TESTING (m)	OBSERVED N VALUE	CORRECTED N VALUE	SAFE BEARING CAPACITY (T/m²)	COMPRESSION INDEX C_c	PRE-CONSOLIDATION PRESSURE (kg/cm²)	INITIAL VOIDS RATIO	CO-EFFECT OF CONSOLIDATION C_v (cm²/sec)
		CL	15.09	11.72	31	22	9	4	13	36	47	2.79	2.4	-	1.00	35	35	24.36	-	-	-	-
															2.00	>50	50	36.15				
	1.30	CL- KAN	-	-	-	-	-	-	-	-	-	-	-	-	3.00	>50	50	36.85	-	-	-	-
	1.50	KAN	16.44	12.15	-	-	-	23	34	43		-	-	-	4.50	>50	50	37.90	-	-	-	-
	2.30														6.00	>50	50	38.95				
															7.50	>50	50	40.00				
															9.00	>50	50	41.05				
															10.50	>50	50	42.10				
		SDR	-	-	-	-	-	-	-	-	-	-	-	-	12.00	>50	50	43.15	-	-	-	-
	12.00																					

CL – LOW PLASTICITY CLAY, CL- KAN – LOW PLASTICITY CLAY WITH KANKAR, KAN – KANKAR, SDR – SOFT DISINTEGRATED ROCK.

Geotechnical Engineer

Ex.K.P. VETRISELVAN, M.E(Geotech), MICE, MISTE, GEOTECHNICAL ENGINEER INDIAN GEOTECHNICAL SOCIETY (LM-3514)

8. PHOTOS

Borehole Location – 1



Borehole Location – 2



Er.K.P. VETRISELVAN, M.E.(GEOTECH), MICE, MISTE,
GEOTECHNICAL ENGINEER
INDIAN GEOTECHNICAL SOCIETY (LM-3584)

Borehole Location – 3



Borehole Location – 4



GEOTECHNICAL INDIA PRIVATE LIMITED

Er.K.P. VETRISELVAN, M.E.(GEOTECH), MIG.S, MISTE,
GEOTECHNICAL ENGINEER
INDIAN GEOTECHNICAL SOCIETY (LM-3554)

Borehole Location – 5

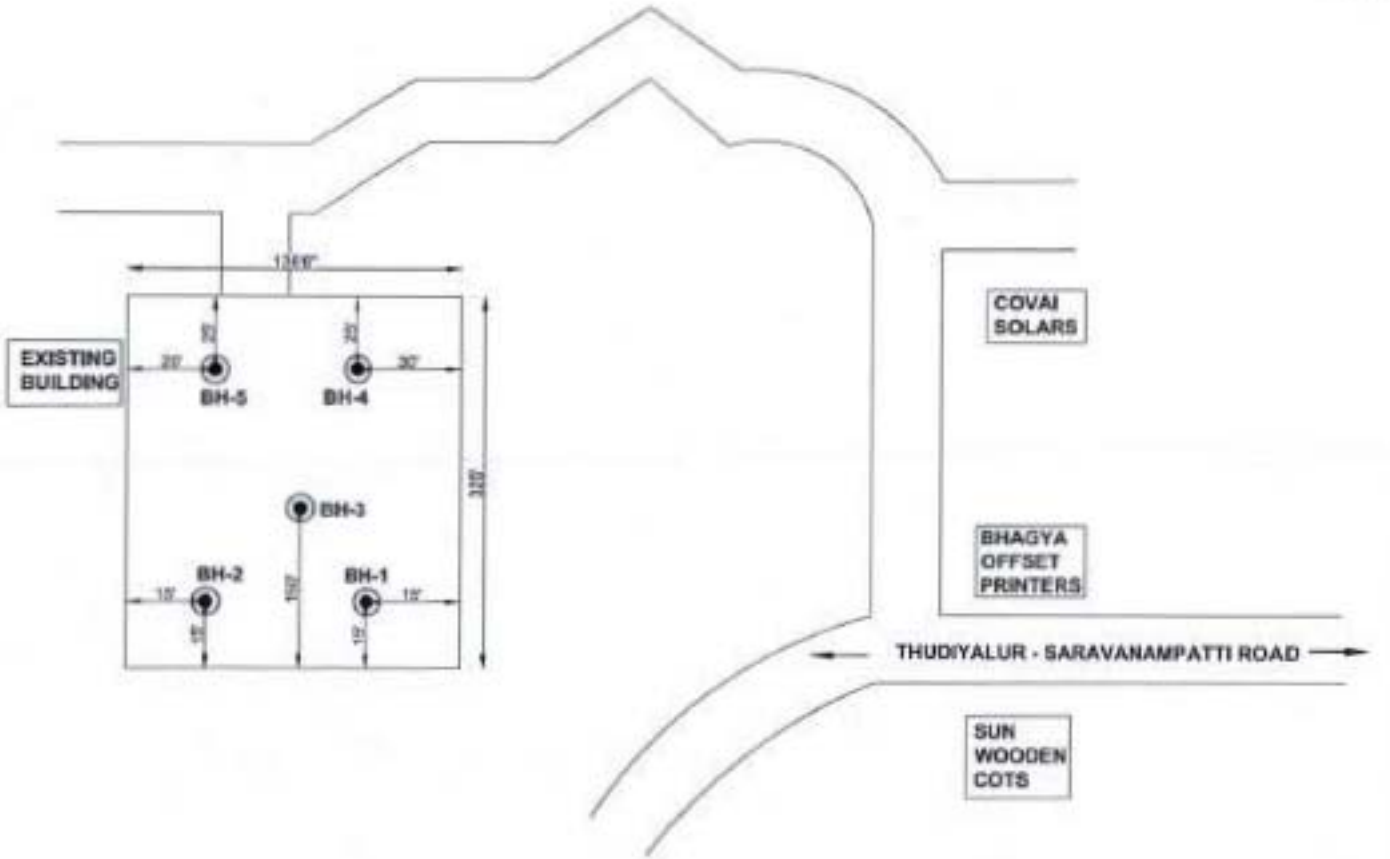


Er.K.P.VETRISELVAN.,M.E(GEOTECH),MIGS,MISTE.,
GEOTECHNICAL ENGINEER

Er.K.P. VETRISELVAN, M.E(GEOTECH), MIGS, MISTE,
GEOTECHNICAL ENGINEER
INDIAN GEOTECHNICAL SOCIETY (LM-3564)

GEOTECH INDIA PRIVATE LIMITED
641 029

Er.K.P. VETRISELVAN, M.E(GEOTECH), MIGS, MISTE,
GEOTECHNICAL ENGINEER
INDIAN GEOTECHNICAL SOCIETY (LM-3564)



Er.K.P.VETRISELVAN, M.E(GEOTECH), MICS, MISTE,
GEOTECHNICAL ENGINEER
INDIAN GEOTECHNICAL SOCIETY (LM-3564)

CLIENT : M/s. ESHANYA CONSTRUCTIONS	GEODESIGN INDIA PRIVATE LIMITED SOIL EXPLORATION & FOUNDATION DESIGN (A UNIT OF GEOTECHNICAL ENGINEERS)
PROJECT : SOIL INVESTIGATION FOR THE PROPOSED CONSTRUCTION OF APARTMENT BUILDING WITH G + 5 FLOORS OF PLOT AREA 61 CENTS @ SF. NO. : 92/1B2, 92/1C1B & 92/2B, VELLAKINAR VILLAGE, COIMBATORE NORTH TALUK, COIMBATORE DISTRICT - 641029.	H.O:Old No:40,New No:29, 8th St, K.K.Pudur,Coimbatore-641038 E-Mail:geodesign123@gmail.com Web: www.geodesign.co.in
PREPARED: ENGINEER:	DATE: 08.09.2023 / 10.08.2023 Ph: 0422-4202429

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