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SOIL EXPLORATION REPORT

For

M/s. REVANTHA SERVICES PRIVATE LIMITED

Ref: GEO – G - 092 - 2025-26 ***Date:17.07.2025-20.07.2025***

PROJECT NAME

SOIL INVESTIGATION FOR THE PROPOSED CONSTRUCTION OF RCC RESIDENTIAL BUILDING WITH G + 5 FLOORS OF PLINTH AREA 11,536 SQ. FT., @ SF. NO. : 246, 247, 248, 249, 250, KONGU NAGAR, KALAPATTI, COIMBATORE DISTRICT – 641048.

GEODESIGN INDIA PRIVATE LIMITED®

(An ISO 9001 : 2015 Certified Company)

Soil Investigations, SPT Test, DTH, Diamond core drilling, & Grouting works

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GEODESIGN INDIA PRIVATE LIMITED COIMBATORE 641 038

1. INTRODUCTION

1.1. PURPOSE AND SCOPE

Geotechnical site investigation work for "SOIL INVESTIGATION FOR THE PROPOSED CONSTRUCTION OF RCC RESIDENTIAL BUILDING WITH G + 5 FLOORS OF PLINTH AREA 11,536 SQ. FT., @ SF. NO. : 246, 247, 248, 249, 250, KONGU NAGAR, KALAPATTI, COIMBATORE DISTRICT – 641048." The primary purpose of our investigation is to obtain data to develop foundation design recommendations for the above work. At, first instance, Five boreholes were 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 RCC RESIDENTIAL BUILDING WITH G + 5 FLOORS OF PLINTH AREA 11,536 SQ. FT., @ SF. NO. : 246, 247, 248, 249, 250, KONGU NAGAR, KALAPATTI, COIMBATORE DISTRICT – 641048."

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.

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

5. RECOMMENDATION

For the site, "SOIL INVESTIGATION FOR THE PROPOSED CONSTRUCTION OF RCC RESIDENTIAL BUILDING WITH G + 5 FLOORS OF PLINTH AREA 11,536 SQ. FT., @ SF. NO. : 246, 247, 248, 249, 250, KONGU NAGAR, KALAPATTI, COIMBATORE DISTRICT – 641048."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 3.00m from the Natural Ground Level.**
- The **SBC at 3.00m is 36.85 Ton/m^2** is determined in All Borehole Locations @ Foundation Level.
- The detailed SBC is mentioned in Page No's – 13 - 17.

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6. REFERENCES

1. **IS: 6403-1981** – Indian Standard Code of Practice for Determination of Bearing Capacity Of Shallow Foundation

2. **IS: 1892-2021** - 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.

GEOASSIGN INDIA PRIVATE LIMITED COIMBATORE 641 038

1

Bore Log

Ref: *GEO – G - 092 – 2025-26*

Name of Project: "SOIL INVESTIGATION FOR THE PROPOSED CONSTRUCTION OF RCC RESIDENTIAL BUILDING WITH G + 5 FLOORS OF PLINTH AREA 11,536 SQ. FT., @ SF. NO. : 246, 247, 248, 249, 250, KONGU NAGAR, KALAPATTI, COIMBATOREDISTRICT – 641048."

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 : 17.07.2025
Date of completion : 18.07.2025

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
0.80		**Clay**	**0.80**							
2.70		**Kankar with SDR**	**1.90**	1.50	6	8	10	18	Medium	
		Soft Disintegrated Rock	**9.30**	3.00	22	39	50/12	>50	V. Dense	
				4.50	50/9	-	-	>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…2

GEODESIGN INDIA PRIVATE LIMITED COIMBATORE 641 038

2

Bore Log

Ref: *GEO – G - 092 – 2025-26*

Name of Project: "SOIL INVESTIGATION FOR THE PROPOSED CONSTRUCTION OF RCC RESIDENTIAL BUILDING WITH G + 5 FLOORS OF PLINTH AREA 11,536 SQ. FT., @ SF. NO. : 246, 247, 248, 249, 250, KONGU NAGAR, KALAPATTI, COIMBATOREDISTRICT – 641048."

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 : 18.07.2025
Date of completion : 18.07.2025

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 (0 20 40 60 80 100)
0.70		**Clay**	**0.70**							
2.80		**Kankar with SDR**	**2.10**	1.50	9	10	15	25	Medium	
		Soft Disintegrated Rock	**9.20**	3.00	39	47	50/10	>50	V. Dense	
				4.50	50/7	-	-	>50	V. Dense	
				6.00	50/3	-	-	>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…3

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3

Bore Log

Ref: ***GEO – G - 092 – 2025-26***

Name of Project: "SOIL INVESTIGATION FOR THE PROPOSED CONSTRUCTION OF RCC RESIDENTIAL BUILDING WITH G + 5 FLOORS OF PLINTH AREA 11,536 SQ. FT., @ SF. NO. : 246, 247, 248, 249, 250, KONGU NAGAR, KALAPATTI, COIMBATOREDISTRICT – 641048."

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 : 18.07.2025
Date of completion : 19.07.2025

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 (0 20 40 60 80 100)
0.60		**Clay**	**0.60**							
3.20		**Kankar with SDR**	**2.60**	1.50	10	13	21	34	Dense	
				3.00	21	39	50/6	>50	V. Dense	
				4.50	50/3	-	-	>50	V. Dense	
		Soft Disintegrated Rock	**8.80**	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		12.00	>50	-	-	>50	V. Dense	

Contd…4

GEODESIGN INDIA PRIVATE LIMITED COIMBATORE 641 038

4

Bore Log

Ref: *GEO – G - 092 – 2025-26*

Name of Project: "SOIL INVESTIGATION FOR THE PROPOSED CONSTRUCTION OF RCC RESIDENTIAL BUILDING WITH G + 5 FLOORS OF PLINTH AREA 11,536 SQ. FT., @ SF. NO. : 246, 247, 248, 249, 250, KONGU NAGAR, KALAPATTI, COIMBATOREDISTRICT – 641048."

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 : 19.07.2025
Date of completion : 19.07.2025

Depth below G.L	Soil Profile	Description of Soil	Thickness of layer (m)	Standard penetration test data						Graphical representation of penetration resistance
				Depth at which test is conducted	N – Value- Depth of penetration				Relative density / Consistency	0 20 40 60 80 100
					15cm	30cm	45cm	For 30cm		
1.30		**Clay**	**1.30**							
2.80		**Kankar with SDR**	**1.50**	1.50	4	6	6	12	Medium	
				3.00	46	50/9	-	>50	V. Dense	
				4.50	50/6	-	-	>50	V. Dense	
				6.00	>50	-	-	>50	V. Dense	
		Soft Disintegrated Rock	**9.20**	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…5

GEODESIGN INDIA PRIVATE LIMITED COIMBATORE 641 038

5

Bore Log

Ref: *GEO – G - 092 – 2025-26*

Name of Project: "SOIL INVESTIGATION FOR THE PROPOSED CONSTRUCTION OF RCC RESIDENTIAL BUILDING WITH G + 5 FLOORS OF PLINTH AREA 11,536 SQ. FT., @ SF. NO. : 246, 247, 248, 249, 250, KONGU NAGAR, KALAPATTI, COIMBATOREDISTRICT – 641048."

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 : 20.07.2025
Date of completion : 20.07.2025

Depth below G.L	Soil Profile	Description of Soil	Thickness of layer (m)	Standard penetration test data						Graphical representation of penetration resistance
				Depth at which test is conducted	N – Value- Depth of penetration				Relative density / Consistency	0 20 40 60 80 100
					15cm	30cm	45cm	For 30cm		
0.70		**Clay**	**0.70**							
1.80		**Kankar with SDR**	**1.10**	1.50	21	45	50/9	>50	V. Dense	
				3.00	50/9	-	-	>50	V. Dense	
				4.50	50/2	-	-	>50	V. Dense	
				6.00	>50	-	-	>50	V. Dense	
		Soft Disintegrated Rock	**10.20**	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

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GEODESIGN INDIA PRIVATE LIMITED COIMBATORE

1

Ref: *GEO – G - 092 – 2025-26*

SOIL TEST RESULTS

Name of Project: "SOIL INVESTIGATION FOR THE PROPOSED CONSTRUCTION OF RCC RESIDENTIAL BUILDING WITH G + 5 FLOORS OF PLINTH AREA 11,536 SQ. FT., @ SF. NO. : 246, 247, 248, 249, 250, KONGU NAGAR, KALAPATTI, COIMBATOREDISTRICT – 641048."

GEODESIGN INDIA PRIVATE LIMITED Soil Exploration Consultant, Coimbatore-38	BORE NUMBER - 1	LOCATION : 1	GROUND WATER LEVEL: Not met	COMMENCEMENT OF LAB TESTING 21.07.2025	COMPLETION OF LAB TESTING 23.07.2025

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 ⁰	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 Cv (cm²/sec)
		CL	15.36	11.48	33	20	13	8	20	72		2.71	1.9	-	1.50	18	18	12.14	-	-	-	-
	0.80														3.00	>50	50	36.85				
		KAN -SDR	18.79	14.21	-	-	-	46	35	19		-	-	28	4.50	>50	50	37.90	-	-	-	-
	2.70														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, KAN-SDR – KANKAR WITH SDR, SDR – SOFT DISINTEGRATED ROCK.

Contd…2

GEODESIGN INDIA PRIVATE LIMITED COIMBATORE 641 038

2

Ref: *GEO – G - 092 – 2025-26*

SOIL TEST RESULTS

Name of Project: "SOIL INVESTIGATION FOR THE PROPOSED CONSTRUCTION OF RCC RESIDENTIAL BUILDING WITH G + 5 FLOORS OF PLINTH AREA 11,536 SQ. FT., @ SF. NO. : 246, 247, 248, 249, 250, KONGU NAGAR, KALAPATTI, COIMBATOREDISTRICT – 641048."

GEODESIGN INDIA PRIVATE LIMITED Soil Exploration Consultant, Coimbatore-38	BORE NUMBER - 2	LOCATION : 2	GROUND WATER LEVEL: Not met	COMMENCEMENT OF LAB TESTING 21.07.2025	COMPLETION OF LAB TESTING 23.07.2025

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 ⁰	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)
															1.50	25	25	17.31				
	0.70	CL	17.85	13.30	34	22	12	6	25	69		2.74	2.3	-	3.00	>50	50	36.85	-	-	-	-
		KAN -SDR	17.02	12.99	-	-	-	48	36	16		-	-	30	4.50	>50	50	37.90	-	-	-	-
	2.80														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, KAN-SDR – KANKAR WITH SDR, SDR – SOFT DISINTEGRATED ROCK.

GEODESIGN INDIA PRIVATE LIMITED COIMBATORE 641 038

Contd…3

3

Ref: *GEO – G - 092 – 2025-26*

SOIL TEST RESULTS

Name of Project: "SOIL INVESTIGATION FOR THE PROPOSED CONSTRUCTION OF RCC RESIDENTIAL BUILDING WITH G + 5 FLOORS OF PLINTH AREA 11,536 SQ. FT., @ SF. NO. : 246, 247, 248, 249, 250, KONGU NAGAR, KALAPATTI, COIMBATOREDISTRICT – 641048."

GEODESIGN INDIA PRIVATE LIMITED Soil Exploration Consultant, Coimbatore-38	BORE NUMBER - 3	LOCATION : 3	GROUND WATER LEVEL: Not met	COMMENCEMENT OF LAB TESTING 21.07.2025	COMPLETION OF LAB TESTING 23.07.2025

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	16.64	14.73	31	20	11	10	19	71		2.72	2.6	-	1.50	34	34	23.97	-	-	-	-
	0.60														3.00	>50	50	36.85				
		KAN -SDR	18.19	11.52	-	-	-	44	38	18		-	-	32	4.50	>50	50	37.90	-	-	-	-
	3.20														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	>50	50	43.15				
	12.00																					

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

Contd…4

GEODESIGN INDIA PRIVATE LIMITED COIMBATORE 641 038

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Ref: *GEO – G - 092 – 2025-26*

SOIL TEST RESULTS

Name of Project: "SOIL INVESTIGATION FOR THE PROPOSED CONSTRUCTION OF RCC RESIDENTIAL BUILDING WITH G + 5 FLOORS OF PLINTH AREA 11,536 SQ. FT., @ SF. NO. : 246, 247, 248, 249, 250, KONGU NAGAR, KALAPATTI, COIMBATOREDISTRICT – 641048."

GEODESIGN INDIA PRIVATE LIMITED Soil Exploration Consultant, Coimbatore-38	BORE NUMBER - 4	LOCATION : 4	GROUND WATER LEVEL: Not met	COMMENCEMENT OF LAB TESTING 21.07.2025	COMPLETION OF LAB TESTING 23.07.2025

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	18.11	13.43	32	19	13	9	23	68		2.73	2.1	-	1.50	12	12	7.70	-	-	-	-
	1.30														3.00	>50	50	36.85				
		KAN -SDR	15.60	10.82	-	-	-	49	34	17		-	-	29	4.50	>50	50	37.90	-	-	-	-
	2.80														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, KAN-SDR – KANKAR WITH SDR, SDR – SOFT DISINTEGRATED ROCK.

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Contd…5

5

Ref: *GEO – G - 092 – 2025-26*

SOIL TEST RESULTS

Name of Project: "SOIL INVESTIGATION FOR THE PROPOSED CONSTRUCTION OF RCC RESIDENTIAL BUILDING WITH G + 5 FLOORS OF PLINTH AREA 11,536 SQ. FT., @ SF. NO. : 246, 247, 248, 249, 250, KONGU NAGAR, KALAPATTI, COIMBATOREDISTRICT – 641048."

GEODESIGN INDIA PRIVATE LIMITED Soil Exploration Consultant, Coimbatore-38	BORE NUMBER - 5	LOCATION : 5	GROUND WATER LEVEL: Not met	COMMENCEMENT OF LAB TESTING 21.07.2025	COMPLETION OF LAB TESTING 23.07.2025

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	17.59	12.73	34	20	14	7	21	72		2.70	2.7	-	1.50	>50	50	35.80	-	-	-	-
	0.70														3.00	>50	50	36.85				
		KAN -SDR	-	-	-	-	-	47	33	20		-	-	34	4.50	>50	50	37.90	-	-	-	-
	1.80														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, KAN-SDR – KANKAR WITH SDR, SDR – SOFT DISINTEGRATED ROCK.

GEODESIGN INDIA PRIVATE LIMITED COIMBATORE 641 038

Geotechnical Engineer

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

8. PHOTOS

Borehole Location – 1

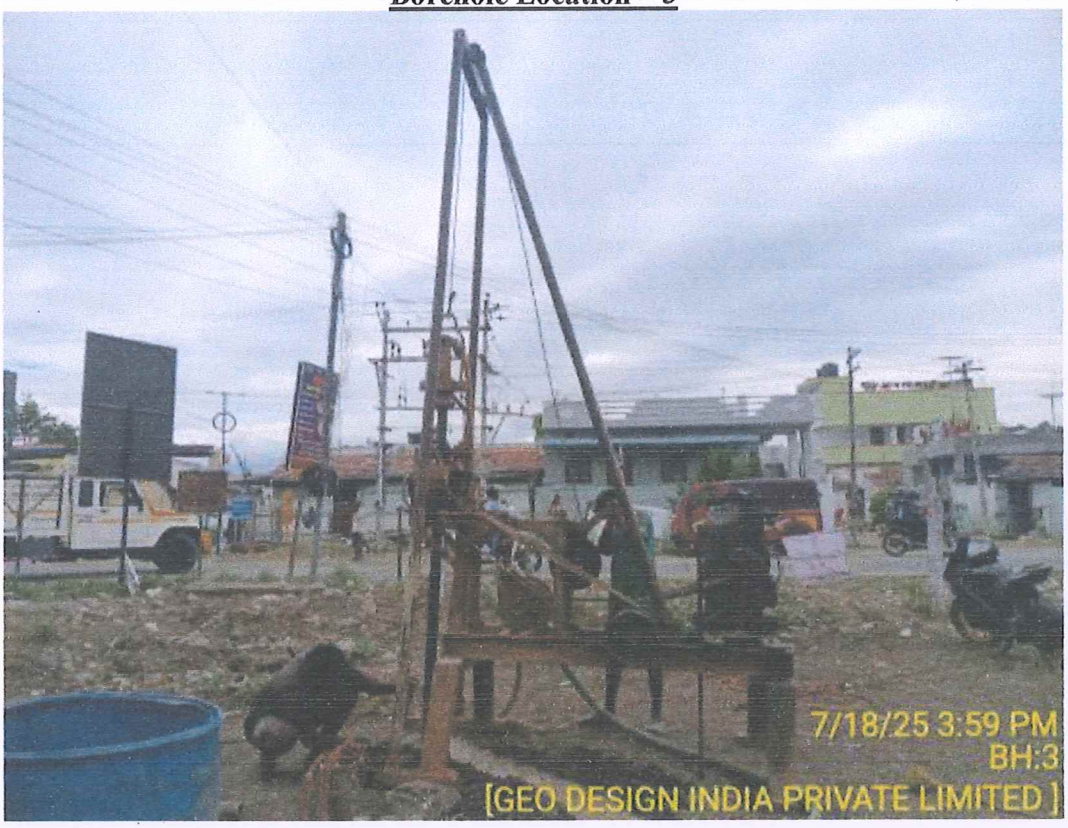


Borehole Location – 2



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Borehole Location – 3



Borehole Location – 4



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641 038

Borehole Location – 5



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

Er.K.P. VETRISELVAN, M.E(GEOTECH), MIGS, MISTE,
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GEO DESIGN INDIA PRIVATE LIMITED
COIMBATORE

THE LANDLENS SUITE

Eight ways to know a piece of land before you pay for it.

This report covers one part of the picture. These cover the rest, drawn from the same government records, for any property in Tamil Nadu.

LandLens One
Ask anything about a property and get an answer grounded in live government records, with the sources shown.
/landlens/one

Verify My Land
Every record check run on one property and returned as a single report.
/landlens/verify-my-land

Legal Opinion
An advocate's written opinion on the title, built on the records we pull for it.
/landlens

One Map
Every layer on one map: the parcel, its boundary, zoning, water bodies and what sits around it.
/landlens/one/map

PriceMap
What land actually changed hands for around this plot, taken from the registered deeds.
/landlens/pricemap

Build Scope
What you are allowed to build here: floor space, height, coverage and setbacks.
/landlens/build-scope

Property Tracker
Watch a property and hear about it when something new is registered against it.
/landlens/property-tracker

Deal Room
Run the transaction in one place: documents, stamping, signatures and the parties.
/landlens/deal-room

FREE TOOLS · NO ACCOUNT NEEDED

Twenty-four checks you can run yourself, at no cost.

Records and verification

The registers themselves, read for you.

- Encumbrance Certificate
- Patta and Chitta
- Field Measurement Sketch
- EC Analyzer
- Bank charge check
- Court case search
- Seller background check
- Approval check by survey

Value and duty

What it is worth and what it costs to register.

- Guideline value by street
- Guideline value by survey
- Stamp duty and registration fees
- Capital gains
- Floor space index
- Area unit converter

Zoning and land use

What the plan says can happen on this land.

- Land use zone finder
- CMDA land use check
- Coastal regulation zone
- Master plan check
- Water bodies finder
- Airport height clearance

Registers and directories

Who holds it, and which office keeps the record.

- Find your registering office
- Temple property check
- Waqf property check
- RERA register

Every free tool
/tools

Services we run for you
/services

The LandLens suite
/landlens/one

Verified RealEstate™

Every claim in this document traces back to a government record.

- Legal opinions, due diligence and title verification
- Building plan, layout and sub-division approvals
- Completion and occupancy certificates, regularisation
- Escrow, negotiation and NRI property management
- Land survey, soil testing, architecture and construction

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+91 9996 12 9996

Prepared from the registers named on the page each finding sits on. Where a register could not be read, this document says so in its place rather than leaving the gap to be read as a clean result.