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Report on
The Geotechnical Investigation for the Proposed Construction of Residential Building in T.S. No: 58/3PT, Block No: 82 at Ward AI-Singanallur, Coimbatore South Taluk, Coimbatore District.

CLIENT:

Mrs. Bhavani Muppalmani,
Lakshmi Garden,
Chandragandhi Nagar,
Coimbatore.

Project Code: 032529
25 March 2025

GEOCARE ENGINEERING CONSULTANCY
(An ISO 9001:2015 Certified Company)
#17/25B, Annur Road,
Karumathampatti, Coimbatore - 641 659.
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GEOTECHNICAL INVESTIGATION BY STANDARD PENETRATION TEST (SPT)

Client Name	Mrs. Bhavani Muppalmani
Client Address	Ground Floor - B, Lakshmi Garden, Chandragandhi Nagar, Sowripalayam Post, Coimbatore South, Coimbatore – 641 028.
Project	Proposed Construction of Residential Building
Site Address	T.S. No: 58/3PT, Block No: 82, Ward AI-Singanallur, Coimbatore South Taluk, Coimbatore District – 641 005.
Date of field test	22nd March 2025

Field test conducted by	S. Mani, B.E
Report Prepared by	R. Suresh, B.E
Report Verified by	R. Sathishkumar, M.E (Geotech) / S. Prabhavathi, M.E (Geotech)
Report Approved by	R. Sathishkumar, M.E (Geotech)

GEOTECHNICAL INVESTIGATION FOR THE PROPOSED CONSTRUCTION OF RESIDENTIAL BUILDING IN T.S. NO: 58/3PT, BLOCK NO: 82 AT WARD AI-SINGANALLUR, COIMBATORE SOUTH TALUK, COIMBATORE DISTRICT.

INTRODUCTION

Mrs. Bhavani Muppalmani, proposes to a Residential Building in T.S. No: 58/3PT, Block No: 82 at Ward AI-Singanallur, Coimbatore South Taluk, Coimbatore District. In order to enable an adequate and economic design the Geotechnical Investigation was assigned to M/s. GEOCARE Engineering Consultancy, Coimbatore in view to furnish the detailed technical information of the nature of subsoil strata for detail analysis and foundation designs.

SAMPLING METHODOLOGY

To study the subsoil strata at the proposed location 01 no. of 5' x 5' (approx.) size pit were excavated at specified location based on client's suggestion to carry out the Standard Penetration Test (SPT).

STANDARD PENETRATION TEST

Standard Penetration Test (SPT), which is done to determine penetration resistance was conducted in the trial pit using the procedure as described in IS: 2131. In this method, split spoon sampler (50.8mm OD and 35mm ID) is driven by dropping 63.5kg weight with a free fall of 75cm. The length of the sampler is 60cm. The sampler is first driven through 15cm as a "seating drive ". It is further driven through 30cm. The number of blows required for drilling the sampler for next 30 cm beyond seating drive is termed as "penetration resistance," N".

The samples thus recovered were transported to the laboratory for further investigation if necessary.

SOIL PROFILE AND STRATA

Based on the visual inspection carried out at the site, the subsoil strata at TP1 consists of Clay up to a depth of about 0.80m below existing ground level (EGL), followed by Clayey Gravel up to a depth of about 1.30m, Sandy Gravel up to a depth of about 1.50m and underlain by Very Soft Rock (VSR) at explored depth.

Stratum I : Clay

Stratum II : Clayey Gravel

Stratum III : Sandy Gravel

Stratum IV : Very Soft Rock (VSR)

Trial Pit No.	Strata depth in m			
	Stratum I	Stratum II	Stratum III	Stratum IV
TP1	0.0 – 0.80	0.80 – 1.30	1.30 – 1.50	1.50m and above

NET SAFE BEARING CAPACITY/ALLOWABLE BEARING PRESSURES

The N Values from SPT at respective depths are given below. Bearing capacity has been determined based on N Value. Recommendations are provided at depth of **1.50m.**

Table-1 Allowable Safe Bearing Capacity				
Trial Pit No.	Depth Below EGL (m)	Type of Strata	N Value	SBC (kN/m²)
				B=1.5m
TP1	**1.50**	**VSR**	>50	**305**

CONCLUSION & RECOMMENDATION

- The subsoil consists of Clay followed by Clayey Gravel, Sandy Gravel and underlain by VSR at explored depth.
- Based on the investigation on the subsoil profile, open foundation of **isolated / combined footing** with tie beam is recommended.
- The recommended depth of foundation is **1.50m** below EGL with an SBC of **305kN/m²** for a footing width of **1.50m.**
- Over-excavation and loosening of strata at the founding level shall be avoided. Same if done shall be replaced by lean concrete.
- Prior to laying PCC, all loose soil in the foundation shall be removed and the base should be thoroughly compacted.

- It is recommended that the back filling in the foundation should be carried out with proper compaction.

- If there is any profile variation or to get the subsoil profile up to the desired depth rotary drilling method may be adopted.

- Recommendations given are based on the assumption that same strata or harder strata extends below the explored depth.

- Interpretations are provided based on factual field results & shall be applicable for investigated locations. There is a possibility that strata variations could occur. If any variations indicate significant deviation from the findings of this report, same shall be brought to our notice.

For

GEOCARE ENGINEERING CONSULTANCY

Authorized Signatory

SITE LOCATION



PHOTOGRAPHS SHOWING FIELD INVESTIGATION



Trial Pit - 01

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

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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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