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ANJU CONSTRUCTIONS
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Chengalpattu - 603 001.
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GEOTECHNICAL INVESTIGATION REPORT

PROJECT: **GEOTECHNICAL INVESTIGATION REPORT FOR THE PROPOSED CONSTRUCTION OF (STILT+5) RESIDENTIAL BUILDING AT PLOT NO: 1 & 2, SATHYASAI NAGAR, DTCP NO: 50/2004, COMPRISED IN OLD S.NOS : 59/1A, 59/1B, 60/2A1, 60/2A2, 60/2B, 61/1, 61/2, 61/3, 63/1, 63/2, 63/3, 63/4, 63/5A, 63/5B, 63/6, 63/7, 64 AND 84/1, 84/2, NEW S.NO: 60/2A1B, NINNAIKARAI VILLAGE, CHENGALPATTU TALUK, CHENGALPATTU DISTRICT.**

CLIENT : Mr. R. NISHANTH.,

REPORT NO	DATE	REVISION-0
ACE/25/GIR–130	23.09.2025	Submission for Design of Foundation

ANJU CONSTRUCTIONS

GST - 33AAPPU0795B2ZI

Er. S. Udhayakumar, Proprietor

B.E.,M.Tech(Struct).,M.Tech(Geotech).,M.Sc.,(REV),F.I.V.,

Plot No. A-24, Door No. 17,
6th Cross Street, Anna Nagar,
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E-mail : anjuconstructions05@gmail.com
Cell : +91 94431 01912

Date :.....

To **23.09.2025**

CLIENT : Mr. R. NISHANTH.,

SUB: GEOTECHNICAL INVESTIGATION REPORT FOR THE PROPOSED CONSTRUCTION OF (STILT+5) RESIDENTIAL BUILDING AT PLOT NO: 1 & 2, SATHYASAI NAGAR, DTCP NO: 50/2004, COMPRISED IN OLD S.NOS : 59/1A, 59/1B, 60/2A1, 60/2A2, 60/2B, 61/1, 61/2, 61/3, 63/1, 63/2, 63/3, 63/4, 63/5A, 63/5B, 63/6, 63/7, 64 AND 84/1, 84/2, NEW S.NO: 60/2A1B, NINNAIKARAI VILLAGE, CHENGALPATTU TALUK, CHENGALPATTU DISTRICT.

Dear Sir,

We are glad to submit two copies of our final Geotechnical Investigation Report for the above captioned project.

We look forward to hearing from you at your earliest convenience regarding this report.

We are pleased to work for you in this project. We assure our continual services to our best.

Yours Truly,

FOR ANJU CONSTRUCTIONS

TABLE OF CONTENT	PAGE NO
INTRODUCTION	2
SCOPE OF WORK	2
SITE DESCRIPTION	2
EXPLORATION TECHNIQUES	2
LABORATORY TESTING	3
SUBSURFACE SOIL DESCRIPTION	4
GROUND WATER	5
FOUNDATION RECOMMENDATIONS	5
FOUNDATION CONSIDERATIONS	6
GENERAL CONSIDERATION	6

Appendix - A

- **Borelog Sheets**

Appendix - B

- **Laboratory Test Results**

Appendix - C

- **Photos**

INTRODUCTION

This report presents the geo technical investigations results carried out by **ANJU CONSTRUCTIONS**, for the Proposed Construction of (Stilt+5) Residential Building At Plot No: 1 & 2, Sathyasai Nagar, Dtcp No: 50/2004, Comprised In Old S. Nos : 59/1A, 59/1B, 60/2A1, 60/2A2, 60/2B, 61/1, 61/2, 61/3, 63/1, 63/2, 63/3, 63/4, 63/5A, 63/5B, 63/6, 63/7, 64 AND 84/1, 84/2, New S.No: 60/2A1B, Ninnaikarai Village, Chengalpattu Taluk, Chengalpattu District.

This work was authorized by the **Client : Mr. R. NISHANTH.,**

Standard Penetration Testing for boreholes was drilled at the site up to a maximum depth of 3.15mbelow existing ground level.

The investigation consists of drilling one boreholes, soil sampling, field and laboratory testing and preparation of a Geotechnical Report for the Proposed Construction of (Stilt+5) Residential Building At Plot No: 1 & 2, Sathyasai Nagar, Dtcp No: 50/2004, Comprised In Old S. Nos : 59/1A, 59/1B, 60/2A1, 60/2A2, 60/2B, 61/1, 61/2, 61/3, 63/1, 63/2, 63/3, 63/4, 63/5A, 63/5B, 63/6, 63/7, 64 AND 84/1, 84/2, New S.No: 60/2A1B, Ninnaikarai Village, Chengalpattu Taluk, Chengalpattu District.

SCOPE OF WORK

The scope of this investigation is to:

- Conducting Standard Penetration Test (SPT) at regular depth intervals.
- Collecting split spoon samples or disturbed soil samples
- Conducting relevant laboratory tests

SITE DESCRIPTION

The site for the Proposed Construction of (Stilt+5) Residential Building At Plot No: 1 & 2, Sathyasai Nagar, Dtcp No: 50/2004, Comprised In Old S. Nos : 59/1A, 59/1B, 60/2A1, 60/2A2, 60/2B, 61/1, 61/2, 61/3, 63/1, 63/2, 63/3, 63/4, 63/5A, 63/5B, 63/6, 63/7, 64 AND 84/1, 84/2, New S.No: 60/2A1B, Ninnaikarai Village, Chengalpattu Taluk, Chengalpattu District.

The elevation of site is same from the nearby road level.

EXPLORATION TECHNIQUES

After the visual inspection of the site, the subsurface investigation was carried out as mentioned below:

One (1) exploration boreholes were drilled to a maximum depth of 3.15m

BH -1was started on 25.08.2025 and completed on 25.08.2025.

Equipment Used

The equipment used for performing the drilling operations is a Calyx Rotary Drill Rig with direct mud circulation technique. The drill mud used was made out of Sodium Bentonite.

Methodology of drilling

In the soil strata, the drilling operations have been carried out using special drill bits and cutters coupled with direct mud circulation.

In-Situ Strength Tests:
Standard Penetration Test:

Standard penetration tests were conducted at the borehole locations, in accordance with IS: 2131. The tests were conducted at every change of strata up to the depth of termination of the borehole as directed by the engineer-in-charge.

Collection of Samples:
Disturbed Soil Samples

The SPT-samples collected were used as disturbed soil samples. These samples were used for visual and physical identification and for conducting laboratory classification tests as per I.S.1498-1970.

LABORATORY TESTING

All the extracted soil samples were brought to our Laboratory for further examination in accordance with IS: 1498-1970. Selected samples were subjected to the following physical tests.

1. **Moisture Content**
2. **Sieve Analysis (IS: 2720 Part IV — 1985)**
3. **Liquid limit (IS: 2720 Part V — 1985)**
4. **Plastic Limit and Plasticity Index (IS: 2720 Part VI — 1972)**
5. **Differential Free Swell Test**

The laboratory test results are given in Appendix "C".

SUBSURFACE SOIL DESCRIPTION

Based on boreholes information, sub surface soil profile for the proposed Construction of (Stilt+5) Residential Building at is given below:

BH-1

Depth (m)		Soil Description
From	To	
0.0	2.5	Brownish clayey sand with gravel
2.5	3.15	Greyish weathered rock

GROUND WATER

Ground water table was not at found at the depth of below the existing ground level at the time of field investigation. However it will fluctuate due to seasonal variations.

FOUNDATION RECOMMENDATIONS

Based on the borehole information and laboratory test results in addition to the nature of structure, the recommendations for the proposedstructureare given below.

SHALLOW FOUNDATION

- Isolated /Strip foundation shall be adopted for the proposed structure.
- Foundation shall be placed at **2.5m** depth below the existing ground level .
- An allowable bearing pressure of **250 kN/m^2** at the depth of**2.5m** shall be taken for design.
- Grade beams shall be adopted in order to minimize differential settlements.
- The type of foundation shall be decided by the structural engineer based upon foundation Loads and the structural design conditions.
- The probable maximum and differential settlement of the soil under any part of the foundation must be limited to safe and tolerable limits.

FOUNDATION CONSIDERATIONS

A PCC (Plain Cement Concrete) layer of 20-30cm thickness is recommended below the foundation. Any over excavation in the foundation trenches should be re-filled by plain concrete and any disturbed and loose materials found in the foundation trenches should be removed before placement of P.C.C.

Excavated material except clay can be used as general backfill material. As per general practice the backfill material should not contain more than 15 % fines passing 0.075 mm sieve, retain 40% on 4.75mm size sieve while the maximum size of gravel allowed is 50mm.

Backfilling materials shall be placed in horizontal layers not exceeding 25 cm thickness and each layer shall be compacted to at least 95% of the maximum dry density.

GENERAL CONSIDERATIONS

The recommendations for foundation design and construction are based on the information obtained from the boreholes drilled at site. When foundation construction is underway, the recommendations of this report should be checked through field inspection, to validate the information for use during the construction stage. Any variation in underground conditions revealed by the borehole should be brought to our attention for alternate recommendations, if required.

Yours Truly,
FOR ANJUCONSTRUCTIONS

BOREHOLE LOG

Client	**: Mr. R. Nishanth.,**	**Water Table**	**: Nil**
	:	**Ele . Of G.L**	**Nil**
Project	**: (Stilt+5) Residential Building,**	**Type Of Boring**	**: Rotary**
Location	**: Ninnaikarai, Chengalpattu**	**Dia of Boring**	**: 150mm**
B.H. No	**: 1**	**Started on**	**: 25.08.2025**
Final Depth	**: 3.15m**	**Ended on**	**: 25.08.2025**

Depth (m)	GWL	SYMBOL	DESCRIPTION	SPT COUNT 0 -15 cm	15 -30 cm	30 -45 cm	N- Value	Relative Density /Consistency
0.0 – 1.5			Brownish clayey sand with gravel	5	5	6	11	Medium dense
1.5 – 2.5			Ditto	50/'14'cm				Very dense
2.5 – 3.0			Greyish weathered rock	50/'0' cm				Very dense
3.0 – 10.5			Borehole 1 terminated at the depth of 3.15m					

APPENDIX B

LABORATORY TEST RESULTS

GEOTECHNICAL INVESTIGATION REPORT

ANJU CONSTRUCTIONS **CLIENT :Mr. R. Nishanth.,**

Project : (Stilt+5) Residential Building

1- a) PHYSICAL ANALYSIS OF SOIL BH-1

Test results of Moisture content , Atterberg limits

DEPTH M	Moisture Content%	Atterberg limits				IS Classification
		W_L%	W_P%	I_P%	FSI%	
1.0	18.26	Non plastic				SM
2.0	17.55	Non plastic				SM
3.0-3.15	Greyish weathered rock					

1-b) GRAIN SIZE ANALYSIS OF SOIL – BH-1

DEPTH M	GRAVEL SAND %	COARSE SAND %	MEDIUM SAND %	FINE SAND %	SILT + CLAY%
1.0	20	14	9	11	46
2.0	26	10	14	19	31
3.0-3.15	Greyish weathered rock				

GEOTECHNICAL INVESTIGATION REPORT

ANJU CONSTRUCTIONS **CLIENT :Mr. R. Nishanth.,**

Project : (Stilt+5) Residential Building

ABBREVIATION :

Note

- W_N = Natural Moisture content (%)
- W_L = Liquid limit (%)
- W_P = Plasticity Limit (%)
- I_P = Plasticity Index (%)
- F.S.I = Free Swell Index (%)
- IS = Indian Standard Classification
- CL = Low compressibility Clay of $W_L < 35\%$
- CI = Inorganic Clay of $35\% < W_L < 50\%$
- CH = High Compressibility Clay of $W_L > 50\%$
- SP = Poorly graded sand
- GP = Poorly graded gravel
- SW = Well graded sand
- SM = Silty sand

APPENDIX A

BOREHOLE LOG

APPENDIX C

PHOTOS

GEOTECHNICAL INVESTIGATION REPORT

ANJU CONSTRUCTIONS **CLIENT :Mr. R. Nishanth.,**

Project : (Stilt+5) Residential Building



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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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.