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SOIL INVESTIGATION REPORT FOR THE PROPOSED CONSTRUCTION OF GATED COMMUNITY (RESIDENTIAL) BUILDING WITH 57 BLOCKS, CLUB HOUSE, COMMERCIAL BUILDINGS AT SF NO: 65/10A OF MURUNGAPATTI VILLAGE & PANCHAYAT, VEERAPANDI PANCHAYAT UNION, SALEM WEST TALUK, SALEM DISTRICT.

SOIL INVESTIGATION REPORT

Client:

M/s. Naaval Properties and Developers LLP

By

J ENGINEERRS GEO LAB CONSULTANCY SERVICES
APPLE RIDGE APARTMENT
SRI RAM NAGAR
ALAGAPURAM, SALEM-16
MOBILE NO: 9095082999, 9965379293

J ENGINEERRS GEO LAB CONSULTANCY SERVICES

APPLE RIDGE APARTMENT,
SRIRAM NAGAR,
ALAGAPURAM,
SALEM- 16,

Date:25.08.2023

To

M/s. Naaval Properties and Developers LLP,
Yercaud main road,
Salem-636008.

Dear Sir,

Ref: JE/Slm/Soil test/08/2023

Sub: Gated Community (Residential) Building With 57 Blocks, Club House, Commercial Buildings -Soil Test Report - Reg.

We Take Pleasure in Submitting the Report on Soil Investigation for Proposed Construction of Gated Community (Residential) Building With 57 Blocks, Club House, Commercial Buildings at SF No: 65/10A of Murungapatti Village & Panchayat, Veerapandi Panchayat Union, Salem West Taluk, Salem District. The Report Describes Various Soil Properties and Design Parameters for the site. It is hoped that the results presented in this report will provide all the information required for the design of foundations for the proposed structure.

Thanking you,

E. R. GANAPATHI, M.E(Soil Mech), M.I.E., F.I.V
Registered Geo-Tech Engineer
Regn. No:CGLRGN/RGTE/2019/08/012
Apple Ridge Apartmentm, Sri Ram Nagar
Alagapuram SALEM 636 016

Authorized Signatory
Dr. R.G.JAYASRI., B.E (Civil), M.E (Struct)., M.E.,(Geo Tech)., Ph.D.,
Structural Engineer/Geo Tech Engineer
Salem

SOIL INVESTIGATION REPORT DETAIL

CLINT	:	**M/s. Naaval Properties and Developers LLP**
LOCATION	:	SF.No: 65/10A of Murungapatti Village & Panchayat, Veerapandi Panchayat Union, Salem West Taluk, Salem District.
DISTRICT	:	Salem
STATE	:	Tamilnadu
PURPOSE	:	Construction of Gated Community (Residential) Building with 57 blocks, Club house, Commercial Building
SITEINSPECTIONDATE	:	25.08.2023
DATE OF TEST	:	25.08.2023
NATURE OF TEST	:	Engineering Status
TEST CONDUCTED BY	:	Er.Boobalan D.C.E..,
		Er.S.Vijayakumar B.E



SOIL INVESTIGATION REPORT

1.0 Introduction

In SF.No 65/10A, Murungapatti Village, Salem West Taluk, Salem District Was entrusted to **M/s. J Engineerrs Geo Lab Consultancy Services,** Apple Ridge Apartment, Sri Ram nagar, Alagapuram, Salem-16, Tamilnadu.

In order to obtained information about geo-engineering properties of the sub strata, a program of sub soil investigation was undertaken. The soil investigation carried out through a total number of **Five** test Bores (Refer location plan)

This report presents an account of field and laboratory activities. An analysis of the field and laboratory tests results have been carried out to determine the barring capacity of soil for the optimum design of foundation. This report incorporates recommendation for the allowable soil pressure to be adopted for the proposed structure. The Site inspection on **25.08.2023** and test conducted on same day.

The soil investigation was carried out in accordance with the Indian Standard Code of Practice IS 2131- 1981 (Reaffirmed 1997) and other IS code of practice.

2.0 Object of Investigation

The object of investigation is to ascertain the nature and characteristics of sub-soil below the ground level at the proposed site. The study would include identification of suitable foundation systems for the subject work and Assessment of safe bearing capacity.

3.0 Scope of Works

The scope of work at this site comprised of the following:

3.1 Excavation of soil for Bore No.1 at a depth of **2.80m**
Bore No. 2 at a depth of **2.60m**
Bore No.3 at a depth of **2.20m**
Bore No. 4 at a depth of **2.50m**
Bore No.5 at a depth of **2.10m**

3.2 Conducting Standard Penetration Tests in test Bore and collecting the
disturbed samples including packing and transportation to laboratory.

3.3 Preparation and submitting detailed report with field test results.

4.0 Field Investigation

4.1 A team of technical personnel with skilled labours was also deputed.

4.2 Five tests Bore at a maximum depth of **2.80m** below the existing ground level. The test Bore was as per IS: 1892-1979.

4.3 Disturbed samples were collected at **2.80m** depth. The samples so collected were carefully sealed and numbered with full particulars for identification and sent to the laboratory for conducting the required tests.

4.4 Standard Penetration Test was conducted Bore at a depth of **2.80 m** per IS: 2131 – 1981. In this test, the standard split spoon sampler is driven into the ground at the required depth by means of standard hammer of 63.5Kg weight, falling from a height of 75cm. Number of blows for the first 15cm is not taken into consideration because of possible disturbances or presence of settled, suspended matters at the bottom of bore-holes. The total number of blows for the next 30cm depth of penetration is considered as SPT 'N' values are absorbed as shown in Table.

4.5 Ground Water Table

The water table in the test Bore was taken while SPT test progress at the following times.

a) Before work commence

b) After the work finished

Ground water table not met at the time of investigation.

4.6 Site Conditions

In SF.No 65/10A, Murungapatti Village, Salem West Taluk, Salem District and the surroundings are vacant land. There is no water table rising structures like lake, rivers, nallas near to the site, which was noted as per our site inspection.

5.0 Laboratory Investigation

The laboratory tests were conducted on the selected samples received from the test Bores.

All the above laboratory tests were carried out as per relevant Indian Standard. All the samples were identified and classified as per IS: 1498–1970.

6.0 Soil Profile & Safe Bearing Capacity

Bore No	Depth of Bore	Soil Profile	SPT Result (N–Value)	Safe Bearing capacity
1	**2.80m**	1.00 to 2.00m: Silty Clay Soil 2.00 to 3.00m: Silt Mixed with Gravel 3.00 to 4.00m: Soft Disintegrated Rock (SDR)	>50	180 kN/m^2
2	**2.60m**	1.00 to 2.00m: Silty Clay Soil 2.00 to 3.00m: Silt Mixed with Gravel 3.00 to 4.00m: Soft Disintegrated Rock (SDR)	>50	160 kN/m^2
3	**2.20m**	1.00 to 2.00m: Silty Clay Soil 2.00 to 3.00m: Silt Mixed with Gravel 3.00 to 4.00m: Soft Disintegrated Rock (SDR)	>50	150 kN/m^2
4	**2.50m**	1.00 to 2.00m: Silty Clay Soil 2.00 to 3.00m: Silt Mixed with Gravel 3.00 to 4.00m: Soft Disintegrated Rock (SDR)	>50	150 kN/m^2
5	**2.0m**	1.00 to 2.00m: Silty Clay Soil 2.00 to 3.00m: Silt Mixed with Gravel 3.00 to 4.00m: Soft Disintegrated Rock (SDR)	>50	140 kN/m^2

7.0 Discussion and Type of Foundation

In the test Bore it is observed that soil profile consists of **Silty Clay underlain by Soft Disintegrated Rock (SDR)**. This layer becomes progressively denser as depth increases. It becomes very dense (N-value more than 50). With the availability strata at the shallow depths, shallow Open combined Square / rectangle footing may be a suitable Raft foundation system for the buildings / structures in the proposed area.

Safe Bearing capacities were worked out as per Indian Standard Code of Practice IS: 6403-1981 for shear criterion and IS: 8009(Part-I) 1976 for settlement criterion, adopting a minimum factor of safety of 3.0. The bearing capacities were calculated from shear criterion and for 40mm settlement.

8.0 Conclusion and Recommendation:

Recommended allowable bearing capacity is **180kN/m^2** for design purpose at a depth of **2.80m** from existing ground level.

Authorized Signatory

Dr. R.G.JAYASRI., B.E.(Civil), M.E. (Struct)., M.E.,(Geo Tech)., Ph.D.,
Structural Engineer/Geo Tech Engineer
Salem

Naaval Properties and Developers LLP

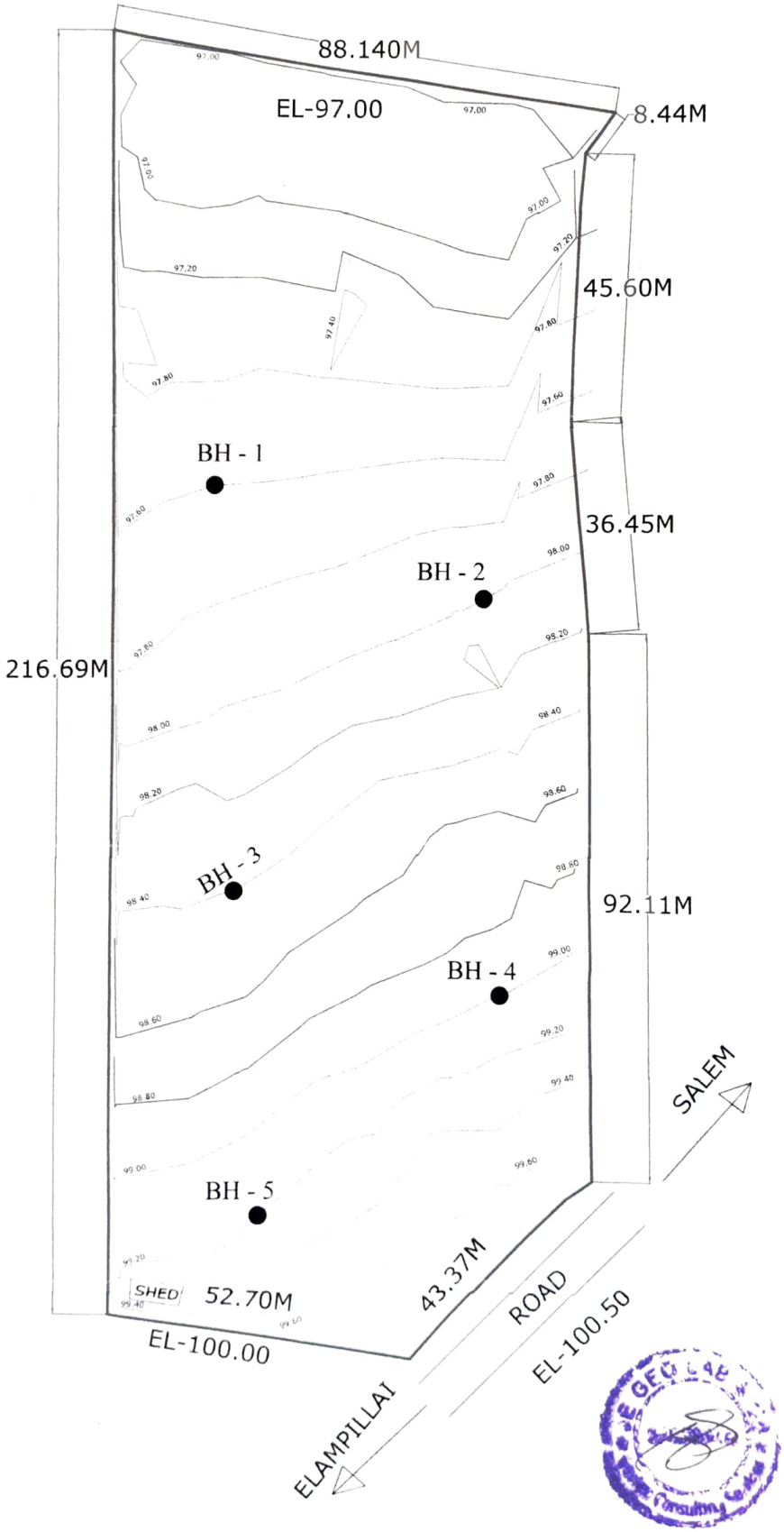
Village -Murungapatti

Survey.no-65/10A

District -salem

Taluk -Salem west

N



O/o. DEPUTY DIRECTOR OF TOWN AND COUNTRY PLANNING,
CHENGALPATTU REGION,
No.124, Municipal Commercial Complex, G.S.T.Raod, Chengalpattu - 603 001
E-mail : ddcgiregion@gmail.com, Phone : 044 - 27422144

PROFESSIONAL REGISTRATION CERTIFICATE

This is to certify that **Mr. K.GANAPATHI** has enrolled as **Registered Geo-Technical Engineer (RGTE)** with Deputy Director of Town and Country Planning, Chengalpattu Region who has the qualification of **M.E (Soil mechanics and foundation Engg.)** and experience in the relevant field for **06 years**.

He has been given the Registration No. **CGLRGN/RGTE/2019/08/012** on **02.08.19**. He shall be required to comply with the duties and responsibilities prescribed by the Government of Tamil Nadu is Part V, "Registration of Professionals", Tamil Nadu Combined Development and Building Rules, 2019 approved vide G.O.(Ms) No.18 MAWS (MA1) Dept. Dated 04.02.2019.

This Registration is valid upto **01.08.2024**.

Deputy Director,
Chengalpattu Region



02 AUG 2019

K. GANAPATHI, M.E(Soil Mech.), M.I.E., F.I.V.
Registered Geo-Tech Engineer
Regn. No:CGLRGN/RGTE/2019/08/012
3/3 Apple Ridge Apartmentm, Sri Ram Nagar
Nagapuram SALEM 636 016



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Zoning & Land Use Analysis

Land Use Zone Finder, CRZ Zone Check, Aquifer Zone Check, CBA Check, EWS Check, Road Width Check, Proposed Road Widening Check, FSI Calculator

Property Documentation & Workflow Tools

Forms & Templates, Document Generator, Document Translation, Dictionary

Vastu & Property Management Tools

Home Vastu Shastra, Plot Vastu Shastra, Property Management

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