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**SOIL INVESTIGATION REPORT FOR THE PROPOSED
CONSTRUCTION OF RCC ROOF APARTMENT
BUILDING (STILT+5) IN WARD NO: H (8), BLOCK NO: 3,
T.S.NO: 123/1, 123/2 &123/3 AT COWLEY BROWN ROAD,
R.S. PURAM, COIMBATORE SOUTH TALUK,
COIMBATORE DISTRICT, COIMBATORE MUNICIPAL
CORPORATION.**

SOIL INVESTIGATION REPORT

Client:
Mr. M. Kamal Siyal,
Coimbatore.

By

THE COIMBATORE DIGITAL SURVEYORS

30, Second Main Road, Anna Nagar,
Peelamedu (Post),
Coimbatore – 641 004
Tamil Nadu, India
Phone: 9790030071 / 9790090051

March 2024

GSTIN : 33BLJPS8355R1Z2

Date: 08-03-2024

To

Mr. M. Kamal Siyal,
Coimbatore.

Dear Sir,

Ref: Soil/ S047 / 2023-2024 / dated 02-03-2024

Sub: Proposed Construction of RCC Roof Apartment Building (Stilt+5) in Ward No: H (8), Block No: 3, T.S.No: 123/1, 123/2 & 123/3 at Cowley Brown Road, R.S. Puram, Coimbatore South Taluk, Coimbatore District, Coimbatore Municipal Corporation. Soil Testing Reports -Reg.

We take pleasure in submitting the report on Soil Investigation for the Proposed Construction of RCC Roof Apartment Building (Stilt+5) in Ward No: H (8), Block No: 3, T.S.No: 123/1 at Cowley Brown Road, R.S. Puram, Coimbatore South Taluk, Coimbatore District, Coimbatore Municipal Corporation. 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,

For The Coimbatore Digital Surveyors,


Authorized Signatory
Er. K. PRAKASH, M.E., (Geo-Technical Engg.), MGS.
Registered Geo-Technical Engineer (GTE),
Regn. No: Coimbatore LPA/GTE/004/2024
prakash.civil157@gmail.com
Contact: 9894713236, 86376 27705

SOIL INVESTIGATION REPORT DETAILS

CLIENT : **Mr. M. Kamal Siyal,**
Coimbatore.

LOCATION : Ward No: H (8),
Block No: 3,
T.S.No: 123/1, 123/2 & 123/3
Cowley Brown Road, R.S. Puram,
Coimbatore South Taluk,
Coimbatore District,
Coimbatore Municipal Corporation.

STATE : Tamil Nadu

TYPE OF BUILDING : RCC Roof Apartment Building (Stilt+5)

SITE INSPECTION DATE : 01st March 2024

DATE OF TEST : 02nd March 2024

NATURE OF TEST : Engineering Status

TEST CONDUCTED BY : Er. J. Mathivanan DCE,
Er. K. Mohanraj DCE,


Er. K. PRAKASH, M.E., (Geo-Technical Engg.), MGS.
Registered Geo-Technical Engineer (GTE).
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1.0 Introduction

The sub-soil exploration for the Proposed Construction of RCC Roof Apartment Building (Stilt+5) in Ward No: H (8), Block No: 3, T.S.No: 123/1, 123/2 & 123/3 at Cowley Brown Road, R.S. Puram, Coimbatore South Taluk, Coimbatore District, Coimbatore Municipal Corporation. was entrusted to M/s. The Coimbatore Digital Surveyors, No: 30, Second Main Road, Anna Nagar, Peelamedu (Post), Coimbatore – 641 004, Tamil Nadu, India.

In order to obtain 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 Four test pit (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 bearing 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 01-03-2024 and test conducted on 02-03-2024 dated.

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.


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3.0 Scope of Works

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

3.1 Excavation of soil for Test Pit No.1 at a depth of 2.80m, Test Pit No: 2 at a depth of 5.00m, Pit No: 3 at a depth of 4.70m and Pit No: 4 at a depth of 4.80m.

3.2 Conducting Standard Penetration Tests in test pit 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 Four test pits to a maximum of at a depth of 2.80m, 5.00m, 4.70m & 4.80m below the existing ground level. The test pits were as per IS: 1892-1979.

4.3 Disturbed samples were collected at 2.80m, 5.00m, 4.70m depth and 4.80m of Four test pits. 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 Tests were conducted Test Pit No.1 at a depth of 2.80m, Test Pit No: 2 at a depth of 5.00m, Pit No: 3 at a depth of 4.70m and Pit No: 4 at a depth of 4.80m as 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.


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4.5 Ground Water Table

The water table in the test pit 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

The Proposed Construction of RCC Roof Apartment Building (Stilt+5) in Ward No: H (8), Block No: 3, T.S.No: 123/1 at Cowley Brown Road, R.S. Puram, Coimbatore South Taluk, Coimbatore District, Coimbatore Municipal Corporation and the surroundings are built-up area. 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 pits. 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

Pit No	Depth of Test	Soil Profile	SPT Result (N-Value)	Safe Bearing Capacity
1	2.80m	0.00 to 1.00m: Filled-up Soil 1.00 to 2.00m: Highly Compressed Clay 2.00 to 2.80m: Soft Disintegrated Rock(SDR)	>50	350 kN/sq.m
2	5.00m	0.00 to 1.10m: Filled-up Soil 1.10 to 2.60m: Highly Compressed Clay 2.60 to 5.00m: Soft Disintegrated Rock(SDR)	>50	320 kN/sq.m
3	4.70m	0.00 to 0.50m: Filled-up Soil 0.50 to 1.80m: Highly Compressed Clay 1.80 to 4.70m: Soft Disintegrated Rock(SDR)	>50	350 kN/sq.m
4	4.80m	0.00 to 1.40m: Filled-up Soil 1.40 to Highly Compressed Clay 2.40 to 4.80m: Soft Disintegrated Rock(SDR)	>50	320 kN/sq.m


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7.0 Discussion

In the test pit it is observed that General soil profile consist of Filled-up and High Compressed clay underlying 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 foundation system for the buildings / structures in the proposed area.

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 Recommendations

Recommended allowable bearing capacity is 320 kN/m^2 for design purpose at a depth of 5.5m

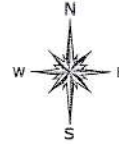
For Coimbatore Digital Surveyors,


Authorized Signatory

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TEST PIT LOCATION

Mr. M. Kamal Siyal,
Coimbatore.



TEST PIT-4

TEST PIT-1

TEST PIT-2

TEST PIT-3

COWLEY BROWN ROAD

Ward No: H (8), Block No: 3, T.S.No:
123/1, 123/2 & 123/3 at Cowley Brown
Road, R.S. Puram, Coimbatore South
Taluk, Coimbatore District, Coimbatore
Municipal Corporation.

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TEST PIT -1



TEST PIT -2

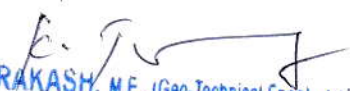

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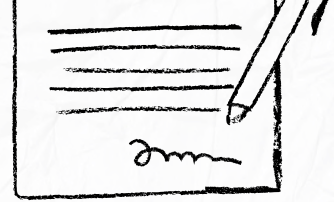


TEST PIT -3



TEST PIT -4


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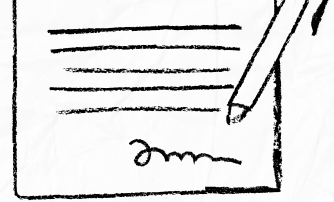
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We're honored to be part of your
real estate journey

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