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DEPARTMENT OF TECHNICAL EDUCATION, TAMIL NADU

GOVERNMENT COLLEGE OF ENGINEERING, DHARMAPURI– 636 704

From

The Principal,
Government College of Engineering,
Dharmapuri – 636 704.

To

Mrs.R.Raja Rajeswari W/o M.Ramanathan,
Plot No.422,
East 9th Street, K K Nagar,
Gandhi Nagar (MA),
Madurai – 625 050.

Lr. No.: GCE / DPI / CIVIL / SOIL / 2023/ C – 112

Dated: 19.07.2023

Sir,

Sub: Construction of Residential Building at Survey No. 445/3B, Mookondapalli in Hosur Taluk - Conduct of Standard Penetration Test – Safe Bearing Capacity of soil – Report forwarded – Regarding.

Ref.: Telephonic discussions Dated: 14.07.2023

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With reference to the letter cited above, field investigation was carried out by our faculty members at the proposed site for construction of Residential Building at Survey No. 445/3B, Mookondapalli in Hosur Taluk and the soil consultancy report on the Safe Bearing Capacity of soil is enclosed.

Department of Civil Engineering
Dharmapuri-636 704
Government College of Engineering

M. Gow 19/07/23

M. GOWTHAMAN
ASSISTANT PROFESSOR,
CIVIL ENGINEERING DEPARTMENT,
GOVERNMENT COLLEGE OF ENGINEERING,
DHARMAPURI - 636 704.

for P. CPR 19/7/23

for Principal
Head of the Department
Department of Civil Engineering
GCE, Dharmapuri-636 704.

Enclosure: Soil Test Report (03 Sheets).

DEPARTMENT OF TECHNICAL EDUCATION

GOVERNMENT OF TAMIL NADU

CONSTRUCTION OF RESIDENTIAL BUILDING AT SURVEY NO. 445/3B, MOOKONDAPALLI IN HOSUR TALUK

Department of Civil Engineering
Dharmapuri-636 704
Government College of Engineering

SOIL INVESTIGATION REPORT

DEPARTMENT OF CIVIL ENGINEERING

GOVERNMENT COLLEGE OF ENGINEERING, DHARMAPURI

DEPARTMENT OF TECHNICAL EDUCATION – TAMIL NADU
GOVERNMENT COLLEGE OF ENGINEERING – DHARMAPURI
DEPARTMENT OF CIVIL ENGINEERING
SOIL MECHANICS LABORATORY

CONSULTANCY REPORT

Lr. No. : GCE / DPI / CIVIL / SOIL / 2023/ C –112 Dated: 19.07.2023

Name of the Client : Mrs.R.Raja Rajeswari W/o M.Ramanathan,
Plot No.422,
East 9th Street, K K Nagar,
Gandhi Nagar (MA),
Madurai – 625 050.

Reference : Telephonic discussions Dated: 14.07.2023

Name of work : Proposed construction of Residential Building at Survey No. 445/3B, Mookondapalli in Hosur Taluk.

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Field Investigation:

Soil investigation was carried out for construction of Residential Building at Survey No. 445/3B, Mookondapalli in Hosur Taluk by the following faculty members of the Department of Civil Engineering, Government College of Engineering, Dharmapuri on 17.07.2023.

Prof.T.Sarathkumar, Assistant Professor of Civil Engineering

Test Pit - 01:

The test pit - 01 was located at latitude of 12.727421° N and Longitude of 77.804383° E for the construction of Residential Building at Survey No. 445/3B, Mookondapalli in Hosur Taluk. A pit of depth 2.70m was made available for mapping the soil stratification. The soil stratification consists of Existing Loose Sand for a depth of 0.40m, followed by a layer of Silty Sand for a thickness of 1.60m which is further continued by a layer of Medium Dense Sand for a depth of 0.70m which appears to continue further.

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The standard penetration test was conducted at a depth of 2.70m below the existing ground level. The SPT "N" value observed was 24 blows for a penetration of 30cm. Based upon the field investigations and laboratory tests on the soil sample collected from the test pit and also considering the effect of water table, it is recommended that the safe bearing capacity of the soil at a depth of 2.70m below existing ground level may be taken as **140kN/m²**.

Test Pit - 02:

The test pit - 02 was located at latitude of 12.728317° N and Longitude of 77.80348° E for the construction of Residential Building at Survey No. 445/3B, Mookondapalli in Hosur Taluk. A pit of depth 2.80m was made available for mapping the soil stratification. The soil stratification consists of Existing Loose Sand for a depth of 0.50m, followed by a layer of Silty Sand for a thickness of 1.80m which is further continued by a layer of Medium Dense Sand for a depth of 0.50m which appears to continue further.



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The standard penetration test was conducted at a depth of 2.80m below the existing ground level. The SPT "N" value observed was 26 blows for a penetration of 30cm. Based upon the field investigations and laboratory tests on the soil sample collected from the test pit and also considering the effect of water table, it is recommended that the safe bearing capacity of the soil at a depth of 2.80m below existing ground level may be taken as **145kN/m².**

Department of Civil Engineering
Dharmapuri-636 704
Government College of Engineering

19/07/23

M. GOWTHAMAN
ASSISTANT PROFESSOR,
CIVIL ENGINEERING DEPARTMENT,
GOVERNMENT COLLEGE OF ENGINEERING,
DHARMAPURI - 636 704.

for 19/7/23

Professor and Head of the Department
Head of the Department
Department of Civil Engineering
GCE, Dharmapuri-636 704.

Note:

The details furnished is based on the representative pit. If any change in the soil strata is observed during excavation for foundation, you are requested to ascertain the SBC value.

Kindly Note: Any correction in the certificate not attested by the concerned authority shall invalidate this certificate



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Guideline Value, Apartment Composite Value, Stamp Duty & Registration Fees Calculator, Building Value Calculator, Capital Gains Calculator, Area Unit Converter, Length Unit Converter

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Encumbrance Certificate (EC) Search, Find Your SRO, Temple Property Check, WAQF Property Check, View Patta/Chitta, View FMB, Patta Analyzer, EC Analyzer

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

Verified RealEstate™

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

3/350/2 Mettukuppam,
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Chennai, India

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