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# Report on Geo Technical Investigation

**Proposed Group housing Development in S.F: 478/1PT, 478/4, 478/5A & 489/1A, 489/1B-PT" and THE PROPOSED APARTMENT BUILDING IN S.F NO: 489/1A-PT, 489/1B-PT Coimbatore Veerakeralam Village, Coimbatore Corporation, Coimbatore.**

**J.No** : 15 / **Report No:** RCTPL/COIMBATORE/19/2019

**Report Ref** : Soil SBC / VEERAKERALAM, CBE / Date: 16.05.19

PO Ref : **WO No: 16-WO/2019-20/000695 WO Date: 22-04-2019**

**Soil Test Conducted For**

M/s. Sobha Ltd, POLY HOSE TOWERS, 5TH FLOOR,
SPIC ANNEX, #88, MOUNT ROAD, Preliminaries
GUINDY, CHENNAI, PIN- 600032

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## DISCLAIMER

The authors of this report are in no way responsible for the behavior of materials used by contractors or the drawbacks that may occur in the assessed structure with time, and depending on the environment to which the structure may be exposed, and also safety of men and public at large, who use the structure. This report containing the assessment of portions of the soil test is conducted for Proposed Group housing Development in S.F: 478/1PT, 478/4, 478/5A & 489/1A, 489/1B-PT" Coimbatore Veerakeralam Village, Coimbatore Corporation, Coimbatore for M/s. Sobha Limited based on client Instruction by carrying out Soil SBC Test.

for **Rehoboth Civil Testing Laboratory Pvt Ltd**

R. Balasubramanian

**(R.Balasubramanian)**
**Technical Director**

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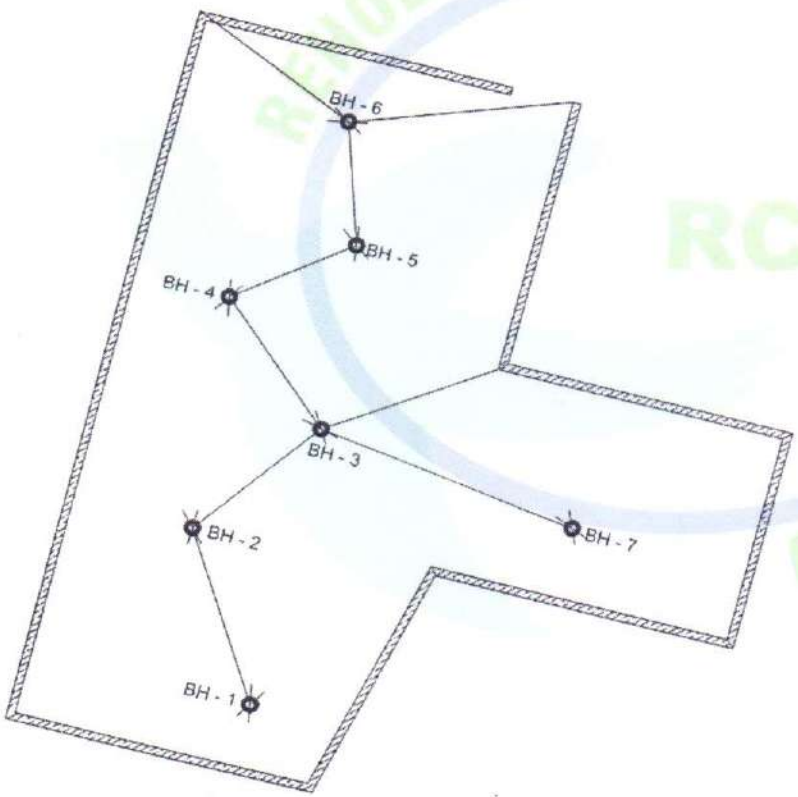
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## BORE HOLE LOCATION 1 TO 7

Proposed Group housing Development in S.F: 478/1PT, 478/4, 478/5A & 489/1A, 489/1B-PT" Coimbatore Veerakeralam Village, Coimbatore Corporation, Coimbatore

### BH 1 TO 7 : BORE HOLE LOCATION PLAN




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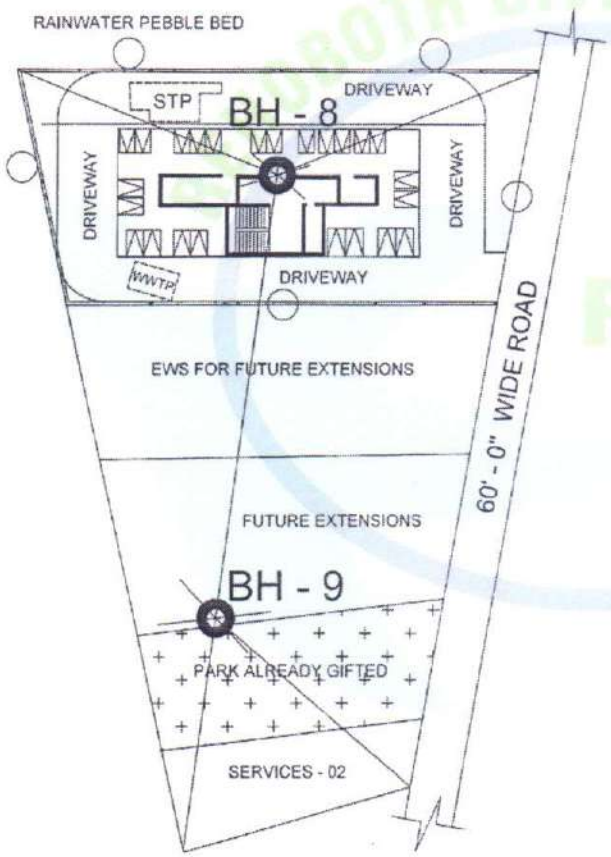


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**BORE HOLE LOCATION 8 & 9**

THE PROPOSED APARTMENT BUILDING IN S.F NO:489/1A-PT, 489/1B-PT VEERAKERALAM VILLAGE, COIMBATORE CORPORATION, COIMBATORE

## BH 8 & 9 : BORE HOLE LOCATION PLAN




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**M/s. Rehoboth Civil Testing Laboratory Pvt Ltd** is pleased to submit this report on Soil Investigation done at above location. This Soil Test was confirmed PO Ref: WO No: 16-WO/2019-20/000695 WO Date: 22-04-2019.

We appreciate the opportunity to be of service to you on this project. Please call us for any assistance.

Sincerely

R. Balasubramanian

(R.Balasubramanian)
Technical Director

**Summary:**

The field investigation was performed on 27.04.19 to 02.05.19. Location of the boring was selected based on the Proposed Building Location and existing site conditions. Boring 1 to 9 were drilled according to the standard penetration procedure laid by IS 2131-1980. Tests were conducted to determine the pertinent index and engineering properties of the Soils encountered. The Top layer of soil at 1.0 m to 3.0 level is Medium Dense cum Sandy Soil Cum Coarse Grained Soil.

For deciding the Foundation type and foundation capacities. The Soil boring details are furnished in the report. Encountered Soil Profiles, Soil Nature, Soil SPT Value of boring 1 to 9 are enclosed.

We don't expect construction problems due to the site soil and ground water conditions. However, in rainy season, groundwater can be at higher level than the present level. Hence, foundation work must be completed before rainy season.

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## 1. Introduction:

### i) Purpose and Scope

It has been proposed to Proposed Group housing Development in S.F: 478/1PT, 478/4, 478/5A & 489/1A, 489/1B-PT" Coimbatore Veerakeralam Village, Coimbatore Corporation, Coimbatore for M/s. Sobha Limited, Poly House Tower, and Chennai. For the construction of any structure, a detailed soil investigation is essential for collecting the relevant data required for preparing the design. The sub surface investigation reveals the presence and the extent of soil and rock stratum in the region likely to be affected by the proposed work and determines the nature of each stratum and engineering properties of soil which may affect the design. The data collected provide reliable, specific and detailed information to facilitate a safe and economic design of the proposed structure. These details were only used for estimating the preliminary foundation size and type of foundation. To accomplish the above, the following parameters were taken.

a) Bore logs were drilled to the hard strata for Laboratory testing for assessing the engineering properties.

b) Soil Investigation and Soil Analysis Properties were analysed to develop the foundation design information for the proposed building foundation.

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**Report Format**

a) Bore log details were furnished along with " N" values and Soil profiles was analyzed in each depth of the bore log.

b) Laboratory Test was given briefly for each bore point

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**2. Scope of the Exploration:**

It is determined to conduct the field and Laboratory test to assess the safe bearing capacity till reaching N Value of the soil present in the proposed site. Boring Locations are presented in the report. Bore drill was terminated after reaching N Value more than 50 /Drilling Rebound for Bore 1 to 9 are presented.

**3. Method of Exploration:**

i) Borings were drilled using Clayx drilling Unit of dia.150mm has been used for making bore holes duly circulating bentonite slurry. In this method, the advancement of boring is made by the cutting action of a rotating bit that is kept in firm contact with the bottom of the hole. SPT consists of driving a standard Split Spoon Sampler, 51 mm outside diameter and 38-mm inside dia into soil under the blows of a drop hammer of 63.5 kg falling weight freely through 75-cm. The number of Blows required for 30 cm penetration of sampler in soil is designated as N value and it is termed as SPT blow count.

ii) The bit is attached to the lower end of hollow drill rod, which is rotated by a suitable chuck. Drilling mud, (viz) bentonite is continuously forced down the hollow drill rods. The mud returning upward through the annular space between the drill rods and side of the hole brings the soil particles to the surface. The soil exploration consists of three stages i.e., boring, sampling and testing which includes both field and lab tests. The Samples were collected at every 1.50 m depth of the bore hole. Samples were properly labeled for Lab tests. Bore log particulars and location of bore holes are annexed with this report.

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**4. Depth of Exploration:**

Exploration should be carried to a depth at which N Value should be more than 50. Then only Foundation type and depth may be determined based on Finding of N Value arrived at Site.

**5. Ground water level:**

Observation of location of water table and its fluctuation under different seasons is very important. The location of ground water level is also important for deep excavation and foundation works and also on sites susceptible to be water logged. Open wells at the site or in the vicinity of the site can give a clear idea of water table and its fluctuation. Boreholes can also be used for recording water levels.

**6. Field Tests:**

Penetration and sounding tests are the generally adopted field Tests. Standard Penetration Test is performed as per I.S. 2131-1981 (RA: 2007) as an in-situ test especially for cohesion less soils. The resistance is empirically correlated with some of the Engineering properties of soil such as density index, consistency, bearing capacity, etc. These tests are useful for general exploration of erratic soil profiles for finding depth to bedrock or hard stratum and to have an approximate indication of the strength and other properties of soils, particularly for cohesion less soil where it is difficult to obtain U.D.S.

In the field test the Standard Penetration Test sampler is driven by the free fall of a hammer weighing 63.5kg dropped from a height of 76cm.The sampler is initially driven through 15cm as a seating drive. It is further driven through 30cm. The number of blows required to drive the sampler 30cm below the seating drive is termed the penetration resistance 'N'.

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**7. Laboratory Tests:**

The samples collected at the field were subjected to laboratory tests to determine the Natural Moisture Content, Particle size analysis and Bulk density/Specific gravity etc. The test results are tabulated and annexed to this report.

**8. Soil Profile and its characteristics are enclosed.**

**9. Water table fluctuations:**

Water table was not noticed during the bore hole operations. The water table is generally at below Foundation level in all the season under normal seasonal rains.

**10. Assessment of Bearing Capacity & Recommendation:**

The top layer from 1.00 m to 3.00m is considered for shallow foundation. The water table is considered to be at below foundation level in the worst conditions. The safe bearing capacity has been assessed as per the IS 6403: 1981 (RA: 2007) based on the field test (SPT) conducted at site as per IS 2131:1981. A factor of safety of 2.5 has been adopted to arrive at the safe bearing capacity.

Since Reddish Coarse Gravel Soil is available below the depth 2.00 m to 3.00 level from the ground level, **a safe bearing capacity of 590.0 kN/m$^2$** can be adopted for the proposed structure at a depth of about 2.00 m for isolated column square footing of size 1.50m.

**for Rehoboth Civil Testing Laboratory Pvt Ltd**

R. Balasubramanian

**(R.Balasubramanian)**
Technical Director

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## 11. ABSTRACT

| Recommendation for SBC Value | |
|---|---|
| Location of site: | Proposed Group housing Development in S.F: 478/1PT, 478/4, 478/5A & 489/1A, 489/1B-PT" Coimbatore Veerakeralam Village, Coimbatore Corporation, Coimbatore |
| Recommended Type of Foundation | **Isolated Column Square Footing** |
| Recommended Depth of Foundation. | **2.0 m** |
| Recommended Safe Bearing Capacity of Soil | **590.0 kN/m$^2$** |

| Recommendation for SBC Value | |
|---|---|
| Location of site: | THE PROPOSED APARTMENT BUILDING IN S.F NO:489/1A-PT, 489/1B-PT VEERAKERALAM VILLAGE, COIMBATORE CORPORATION, COIMBATORE |
| Recommended Type of Foundation | **Isolated Column Square Footing** |
| Recommended Depth of Foundation. | **2.0 m** |
| Recommended Safe Bearing Capacity of Soil | **590.0 kN/m$^2$** |

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## 12.0 Recommendation for SBC for the depth at 1.5m , 2.0m, 3.0 m, 6.0m, 8.0m

| Depth (m) | Recommended SBC Value (t/m$^2$) according to the Depth | | | | |
|---|---|---|---|---|---|
| | **1.5 m** | **2.0 m** | **3.0 m** | **6.0 m** | **8.0 m** |
| BH 1 | 50.0 | 68.0 | 115.0 | 130.0 | 160.0 |
| BH 2 | 49.0 | 67.0 | 115.0 | 135.0 | 150.0 |
| BH 3 | 25.0 | 59.0 | 100.0 | 115.0 | 130.0 |
| BH 4 | 47.0 | 65.0 | 115.0 | 130.0 | 160.0 |
| BH 5 | 38.0 | 60.0 | 100.0 | 110.0 | 135.0 |
| BH 6 | 38.0 | 60.0 | 100.0 | 115.0 | 135.0 |
| BH 7 | 47.0 | 65.0 | 115.0 | 130.0 | 150.0 |
| BH 8 | 50.0 | 67.0 | 110.0 | 130.0 | 150.0 |
| BH 9 | 50.0 | 67.0 | 110.0 | 130.0 | 150.0 |

## 12.1 Shear Parameters

Bore 1

| Depth (m) | | Shear Parameters | |
|---|---|---|---|
| From | To | Ø Value | C (kg/cm$^2$) |
| EGL | 2.00 | 39 | 0 |
| 2.00 | 3.00 | 40 | 0 |
| 3.00 | 6.00 | 41 | 0 |

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Bore 2

| Depth (m) | | Shear Parameters | |
|---|---|---|---|
| From | To | Ø Value | C (kg/cm$^2$) |
| EGL | 2.00 | 39 | 0 |
| 2.00 | 3.00 | 40 | 0 |
| 3.00 | 6.00 | 41 | 0 |

Bore 3

| Depth (m) | | Shear Parameters | |
|---|---|---|---|
| From | To | Ø Value | C (kg/cm$^2$) |
| EGL | 2.00 | 38 | 0 |
| 2.00 | 3.00 | 39 | 0 |
| 3.00 | 6.00 | 40 | 0 |

Bore 4

| Depth (m) | | Shear Parameters | |
|---|---|---|---|
| From | To | Ø Value | C (kg/cm$^2$) |
| EGL | 2.00 | 39 | 0 |
| 2.00 | 3.00 | 40 | 0 |
| 3.00 | 6.00 | 41 | 0 |

Bore 5

| Depth (m) | | Shear Parameters | |
|---|---|---|---|
| From | To | Ø Value | C (kg/cm$^2$) |
| NGL | 2.00 | 38 | 0 |
| 2.00 | 3.00 | 39 | 0 |
| 3.00 | 6.00 | 40 | 0 |

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Bore 6

| Depth (m) | | Shear Parameters | |
|---|---|---|---|
| From | To | Ø Value | C (kg/cm$^2$) |
| NGL | 2.00 | 38 | 0 |
| 2.00 | 3.00 | 39 | 0 |
| 3.00 | 6.00 | 40 | 0 |

Bore 7

| Depth (m) | | Shear Parameters | |
|---|---|---|---|
| From | To | Ø Value | C (kg/cm$^2$) |
| NGL | 2.00 | 39 | 0 |
| 2.00 | 3.00 | 40 | 0 |
| 3.00 | 6.00 | 41 | 0 |

Bore 8

| Depth (m) | | Shear Parameters | |
|---|---|---|---|
| From | To | Ø Value | C (kg/cm$^2$) |
| NGL | 2.00 | 39 | 0 |
| 2.00 | 3.00 | 40 | 0 |
| 3.00 | 4.00 | 41 | 0 |

Bore 9

| Depth (m) | | Shear Parameters | |
|---|---|---|---|
| From | To | Ø Value | C (kg/cm$^2$) |
| NGL | 2.00 | 39 | 0 |
| 2.00 | 3.00 | 40 | 0 |
| 3.00 | 4.00 | 41 | 0 |

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| BH Nos/ Depth (m) | Modulus of Sub Grade Reaction ($n_b$) KN/m$^3$ x 10$^3$ | | | | |
|---|---|---|---|---|---|
| | 1.5 m | 2.0 m | 3.0 m | 6.0 m | 8.0 m |
| BH 1 | 7.2 | 7.6 | 8.2 | 9.2 | 15.2 |
| BH 2 | 7.4 | 7.8 | 8.4 | 9.1 | 14.3 |
| BH 3 | 7.6 | 7.5 | 8.9 | 9.5 | 13.7 |
| BH 4 | 7.4 | 8.1 | 9.2 | 10.5 | 15.7 |
| BH 5 | 7.6 | 8.3 | 8.7 | 9.8 | 13.6 |
| BH 6 | 7.5 | 8.2 | 8.4 | 9.4 | 13.8 |
| BH 7 | 7.3 | 7.9 | 8.2 | 9.1 | 14.5 |
| BH 8 | 7.8 | 8.6 | 9.4 | 10.4 | 15.4 |
| BH 9 | 7.5 | 8.4 | 9.7 | 10.1 | 14.6 |

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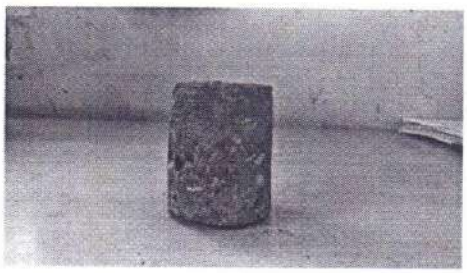
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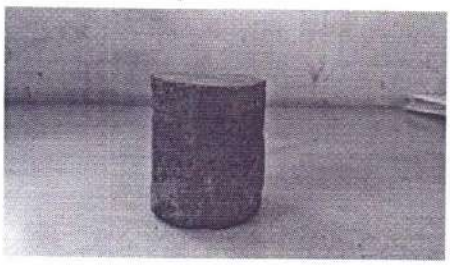


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## 13. Sample Collection Photos











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## 14.0 Recommendation & Conclusion

# This Geotechnical investigation has been carried out at locations in the site chosen by the client as representing the entire site. The recommendations provided in this Report Are hence valid only for those test locations. Proposed Structure and taking account of N Value, an allowable Settlement of 25mm has been adopted for evaluating the safe bearing capacity

# In Geotechnical Investigation report, SPT Value Correction factor is considered in term of kinetic energy, loss etc in the SBC Calculation table given for each bore log. Shear failure is considered for calculation of soil bearing pressure of each Bore Log

# Cement can be of Ordinary Portland cement (OPC) or Portland slag cement (PSC) or Portland pozzolana cement (PPC) with minimum cement content of 340 kg/$m^3$ & maximum free water cement ratio of 0.55 is recommended for substructure and superstructure.

# Excavated soil can be used for backfilling purpose based on soil properties, provided adequate Compaction should be carried out at the Foundation.

# Water table is below the foundation level even during the rainy seasons; Water table Correction is considered in the worst criteria in the analysis of SBC details given.

# depending upon anticipated SBC requirements, the circular/square foundation of any type may be adopted at suitable depth as recommended. The Top layer is suitable for adopting the Foundation.

# after the excavation, If any loose pockets of soil are encountered, they may be backfilled with lean PCC concrete and the foundations can be subsequently be placed. This condition is general only.

# Soil Profile is observed that it is Medium dense to Heavy dense Rock Gravel layer; hence, there is no liquefaction risk for the proposed structure.

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# Laboratory Test Results

# And

# Bore log Details

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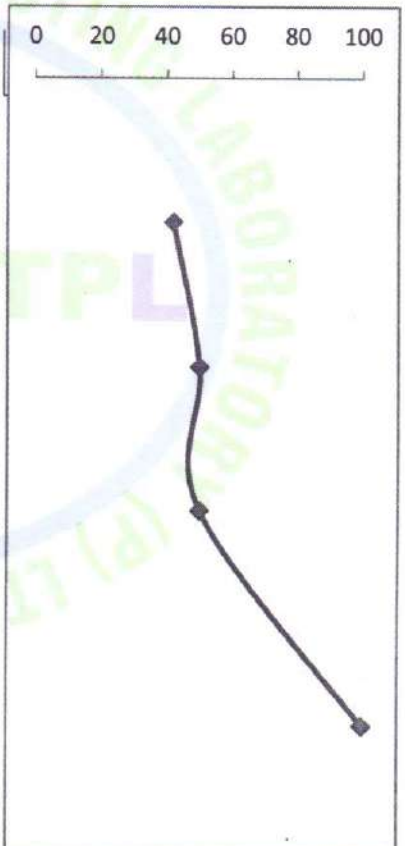
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## BORE LOG 1

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Name of Project | | Proposed Group housing Development in S.F: 478/1PT, 478/4, 478/5A & 489/1A, 489/1B-PT" Coimbatore Veerakeralam Village, Coimbatore Corporation, Coimbatore for M/s. Sobha Limited | | | | | |
| Drilling method | | Calyx Drilling | | Dia of bore: | 150 mm | Coordinates | N: 1217139 |
| BH NO: | 1 | DOS: | 27.04.19 | DOC: | 28.04.19 | GWL. Nil | E-705251 |

| Depth (m) | Soil profile | Description of soil stratum | Standard Penetrometer Test | | | | | Relative density / consistency | Graphical representation of penetration resistance |
|---|---|---|---|---|---|---|---|---|---|
| | | | Depth | Number of blows (N) | | | | | |
| | | | | I | II | III | N | | |
| EGL to 2.00 | | Reddish Coarse Soil | 1.00 | 13 | 18 | 24 | 42 | Medium Dense Layer | |
| | | | 2.00 | 50 | > | > | 50 | Dense Layer | |
| 2.00 to 3.00 | | Reddish Coarse cum Mixed Lime Stone | 3.00 | 50 | > | > | 50 | | |
| 3.00 to 6.00 | | Reddish Murrum Mixed Lime stone | 4.50 | 50 | > | 100 | 100 | Very Dense Layer | |
| | | | 42 cm balance | | | | | | |
| | | | 6.00 | 100 | > | > | 100 | | |
| 6.00 to 10.00 | | Hard rock drilling sample | 8.00 | Reddish Hard Rock | | | | Very Dense Layer | |
| | | | 10.00 | | | | | | |




Bore hole Terminated at 10.0 m

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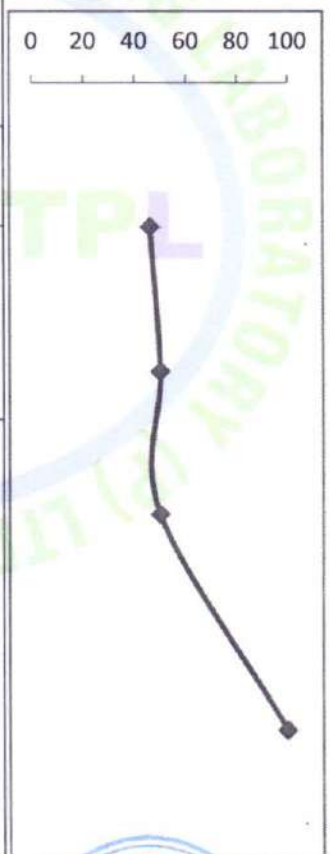
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## BORE LOG 2

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Name of Project | | Proposed Group housing Development in S.F: 478/1PT, 478/4, 478/5A & 489/1A, 489/1B-PT" Coimbatore Veerakeralam Village, Coimbatore Corporation, Coimbatore for M/s. Sobha Limited | | | | | | | | | | |
| Drilling method | | Calyx Drilling | | Dia of bore: | | 150 mm | Coordinates | | | | N: 1217151 | |
| BH NO: | 2 | DOS: | 29.04.19 | DOC: | | 29.04.19 | GWL. Nil | | | | E: 705208 | |
| Depth (m) | Soil profile | Description of soil stratum | | Standard Penetrometer Test | | | | | | Relative density / consistency | Graphical representation of penetration resistance | |
| | | | | Depth | Number of blows (N) | | | | | | | |
| | | | | | I | II | III | N | | | | |
| EGL to 2.00 | | Reddish Coarse Clay Mixed Soil | | 1.00 | 8 | 14 | 32 | 46 | | Medium Dense Layer | | |
| | | | | 2.00 | 50 | > | > | 50 | | Dense Layer | | |
| 2.00 to 3.00 | | Reddish Coarse cum Mixed Lime Stone | | 3.00 | 50 | > | > | 50 | | | | |
| 3.00 to 6.00 | | Reddish Murrum Mixed Lime stone | | 4.50 | 50 | > | 100 | 100 | | Very Dense Layer | | |
| | | | | 45 cm balance | | | | | | | | |
| | | | | 6.00 | 100 | > | > | 100 | | | | |
| 6.00 to 10.00 | | Hard rock drilling sample | | 8.00 | Reddish Hard Rock | | | | | Very Dense Layer | | |
| | | | | 10.00 | | | | | | | | |
| Bore hole Terminated at 10.0 m | | | | | | | | | | | | |




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## BORE LOG 3

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Name of Project | Proposed Group housing Development in S.F: 478/1PT, 478/4, 478/5A & 489/1A, 489/1B-PT" Coimbatore Veerakeralam Village, Coimbatore Corporation, Coimbatore for M/s. Sobha Limited | | | | | | |
| Drilling method | Calyx Drilling | | Dia of bore: | 150 mm | Coordinates | N: 1217124 | |
| BH NO: 3 | DOS: 29.04.19 | | DOC: | 29.04.19 | GWL. Nil | E: 705195 | |

| Depth (m) | Soil profile | Description of soil stratum | Standard Penetrometer Test | | | | | Relative density / consistency | Graphical representation of penetration resistance |
|---|---|---|---|---|---|---|---|---|---|
| | | | Depth | Number of blows (N) | | | | | 0 20 40 60 80 100 |
| | | | | I | II | III | N | | |
| EGL to 2.00 | | Reddish Coarse Clay Mixed Soil | 1.00 | 7 | 9 | 13 | 22 | Medium Dense Layer | |
| | | Reddish Coarse Soil | 2.00 | 50 | > | > | 50 | Dense Layer | |
| 2.00 to 3.00 | | Reddish Coarse Murrum Soil | 3.00 | 50 | > | > | 50 | | |
| 3.00 to 6.00 | | Reddish Murrum Soil | 4.50 | 50 | > | 100 | 100 | Very Dense Layer | |
| | | | 45 cm balance | | | | | | |
| | | | 6.00 | 100 | > | > | 100 | | |
| 6.00 to 11.00 | | Hard rock drilling sample | 8.00 | Reddish Hard Rock | | | | Very Dense Layer | |
| | | | 11.00 | | | | | | |
| Bore hole Terminated at 11.0 m | | | | | | | | | |

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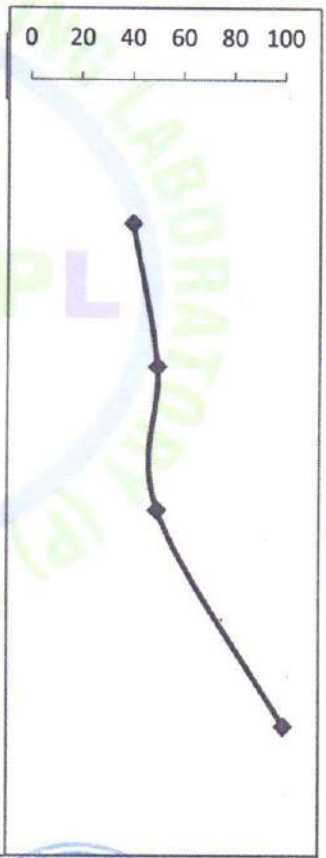
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## BORE LOG 4

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Name of Project | | Proposed Group housing Development in S.F: 478/1PT, 478/4, 478/5A & 489/1A, 489/1B-PT" Coimbatore Veerakeralam Village, Coimbatore Corporation, Coimbatore for M/s. Sobha Limited | | | | | | | | | | | |
| Drilling method | | Calyx Drilling | | Dia of bore: | | 150 mm | | Coordinates | | N: 1217093 | | | |
| BH NO: | 4 | DOS: | 30.04.19 | DOC: | | 30.04.19 | | GWL. Nil | | E: 705215 | | | |
| Depth (m) | Soil profile | Description of soil stratum | | Standard Penetrometer Test | | | | | | Relative density / consistency | Graphical representation of penetration resistance | | |
| | | | | Depth | Number of blows (N) | | | | | | | | |
| | | | | | I | II | III | N | | | | | |
| EGL to 2.00 | | Reddish Coarse Soil | | 1.00 | 12 | 17 | 23 | 40 | | Medium Dense Layer | | | |
| | | Reddish Coarse Gravel Soil | | 2.00 | 50 | > | > | 50 | | Dense Layer | | | |
| 2.00 to 3.00 | | Reddish Coarse Gravel Murrum Soil | | 3.00 | 50 | > | > | 50 | | | | | |
| 3.00 to 6.00 | | Reddish Murrum Gravel | | 4.50 | 50 | > | 100 | 100 | | Very Dense Layer | | | |
| | | | | 45 cm balance | | | | | | | | | |
| | | | | 6.00 | 100 | > | > | 100 | | | | | |
| 6.00 to 10.00 | | Hard rock drilling sample | | 8.00 | Reddish Hard Rock | | | | | Very Dense Layer | | | |
| | | | | 10.00 | | | | | | | | | |
| Bore hole Terminated at 10.0 m | | | | | | | | | | | | | |




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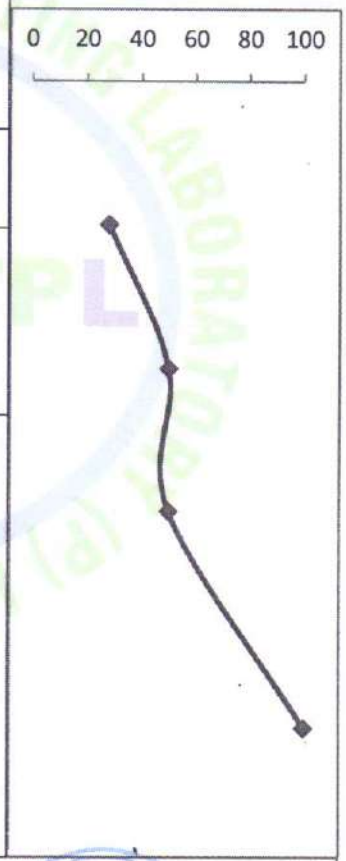
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## BORE LOG 5

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Name of Project | | Proposed Group housing Development in S.F: 478/1PT, 478/4, 478/5A & 489/1A, 489/1B-PT" Coimbatore Veerakeralam Village, Coimbatore Corporation, Coimbatore for M/s. Sobha Limited | | | | | | | | | | |
| Drilling method | | Calyx Drilling | | Dia of bore: | | 150 mm | | Coordinates | | | N: 1217178 | |
| BH NO: | 5 | DOS: | 30.04.19 | DOC: | | 30.04.19 | | GWL: Nil | | | E: 705178 | |
| Depth (m) | Soil profile | Description of soil stratum | Standard Penetrometer Test | | | | | | | Relative density / consistency | Graphical representation of penetration resistance | |
| | | | Depth | Number of blows (N) | | | | | | | | |
| | | | | I | II | III | N | | | | | |
| EGL to 2.00 | | Reddish Coarse Soil | 1.00 | 9 | 11 | 17 | 28 | | | Medium Dense Layer | | |
| | | Reddish Coarse Gravel Soil | 2.00 | 50 | > | > | 50 | | | Dense Layer | | |
| 2.00 to 3.00 | | Reddish Coarse Murrum Soil | 3.00 | 50 | > | > | 50 | | | | | |
| 3.00 to 6.00 | | Reddish Murrum Gravel | 4.50 | 50 | > | 100 | 100 | | | Very Dense Layer | | |
| | | | 45 cm balance | | | | | | | | | |
| | | | 6.00 | 100 | > | > | 100 | | | | | |
| 6.00 to 10.00 | | Hard rock drilling sample | 8.00 | Reddish Hard Rock | | | | | | Very Dense Layer | | |
| | | | 10.00 | | | | | | | | | |
| Bore hole Terminated at 10.0 m | | | | | | | | | | | | |




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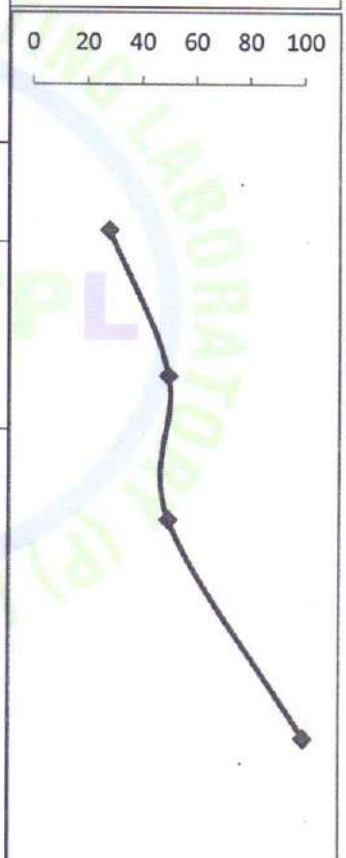
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## BORE LOG 6

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Name of Project | | Proposed Group housing Development in S.F: 478/1PT, 478/4, 478/5A & 489/1A, 489/1B-PT" Coimbatore Veerakeralam Village, Coimbatore Corporation, Coimbatore for M/s. Sobha Limited | | | | | | | | | | |
| Drilling method | | Calyx Drilling | | Dia of bore: | | 150 mm | | Coordinates | | | N: 1217211 | |
| BH NO: | 6 | DOS: | 30.04.19 | DOC: | | 01.05.19 | | GWL. Nil | | | E: 705197 | |
| Depth (m) | Soil profile | Description of soil stratum | | Standard Penetrometer Test | | | | | | Relative density / consistency | Graphical representation of penetration resistance | |
| | | | | Depth | Number of blows (N) | | | | | | | |
| | | | | | I | II | III | N | | | | |
| EGL to 2.00 | | Reddish Coarse Soil | | 1.00 | 7 | 11 | 17 | 28 | | Medium Dense Layer | | |
| | | Reddish Coarse Gravel Soil | | 2.00 | 50 | > | > | 50 | | Dense Layer | | |
| 2.00 to 3.00 | | Reddish Coarse Murrum Soil | | 3.00 | 50 | > | > | 50 | | | | |
| 3.00 to 6.00 | | Reddish Murrum Gravel | | 4.50 | 50 | > | 100 | 100 | | Very Dense Layer | | |
| | | | | 45 cm balance | | | | | | | | |
| | | | | 6.00 | 100 | > | > | 100 | | | | |
| 6.00 to 10.00 | | Hard rock drilling sample | | 8.00 | Reddish Hard Rock | | | | | Very Dense Layer | | |
| | | | | 10.00 | | | | | | | | |
| Bore hole Terminated at 10.0 m | | | | | | | | | | | | |




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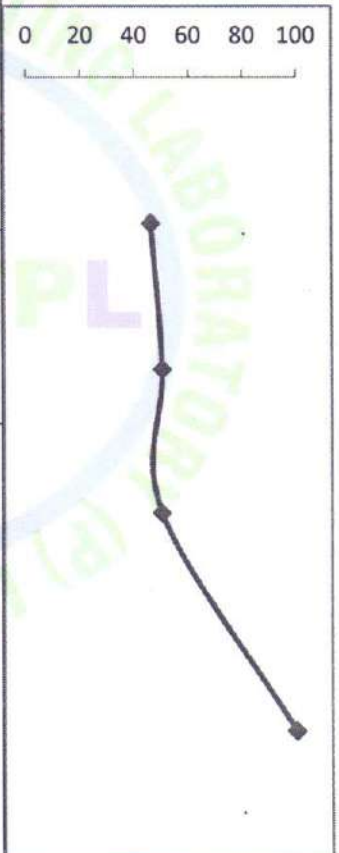
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## BORE LOG 7

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Name of Project | Proposed Group housing Development in S.F: 478/1PT, 478/4, 478/5A & 489/1A, 489/1B-PT" Coimbatore Veerakeralam Village, Coimbatore Corporation, Coimbatore for M/s. Sobha Limited | | | | | | |
| Drilling method | **Calyx Drilling** | **Dia of bore:** | 150 mm | Coordinates | | N: 1217236 | |
| BH NO: 7 | DOS: 01.05.19 | DOC: | 01.05.19 | GWL. Nil | | E: 705180 | |

| Depth (m) | Soil profile | Description of soil stratum | Standard Penetrometer Test | | | | | Relative density / consistency |
|---|---|---|---|---|---|---|---|---|
| | | | Depth | Number of blows (N) | | | | |
| | | | | I | II | III | N | |
| EGL to 2.00 | | Reddish Coarse Gravel Soil | 1.00 | 12 | 19 | 27 | 46 | Medium Dense Layer |
| | | | 2.00 | 50 | > | > | 50 | Dense Layer |
| 2.00 to 3.00 | | Reddish Coarse Gravel Murrum Soil | 3.00 | 50 | > | > | 50 | |
| 3.00 to 6.00 | | Reddish Murrum Soil | 4.50 | 50 | > | 100 | 100 | Very Dense Layer |
| | | | 45 cm balance | | | | | |
| | | | 6.00 | 100 | > | > | 100 | |
| 6.00 to 10.00 | | Hard rock drilling sample | 8.00 | Reddish Hard Rock | | | | Very Dense Layer |
| | | | 10.00 | | | | | |

Graphical representation of penetration resistance




Bore hole Terminated at 10.0 m

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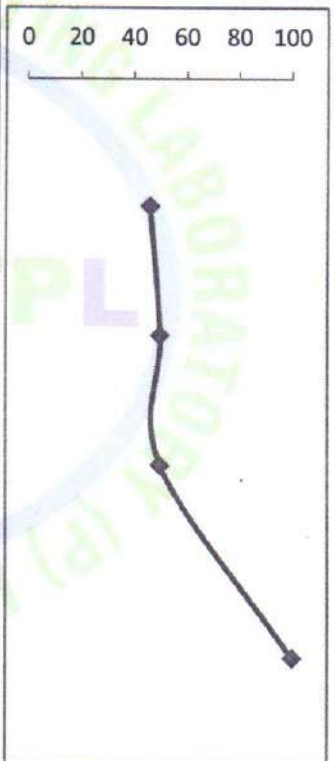
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## BORE LOG 8

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Name of Project | | THE PROPOSED APARTMENT BUILDING IN S.F NO:489/1A-PT, 489/1B-PT VEERAKERALAM VILLAGE, COIMBATORE CORPORATION, COIMBATORE | | | | | |
| Drilling method | | Calyx Drilling | | Dia of bore: | 150 mm | Coordinates | N: 1217331 |
| BH NO: | 8 | DOS: | 01.05.19 | DOC: | 02.05.19 | GWL. Nil | E: 704874 |

| Depth (m) | Soil profile | Description of soil stratum | Standard Penetrometer Test | | | | | Relative density / consistency |
|---|---|---|---|---|---|---|---|---|
| | | | Depth | Number of blows (N) | | | | |
| | | | | I | II | III | N | |
| EGL to 2.00 | | Reddish Coarse Gravel Soil | 1.00 | 10 | 18 | 20 | 38 | Medium Dense Layer |
| | | | 2.00 | 16 | 28 | 35 | 63 | |
| 2.00 to 3.00 | | Reddish Murrum Soil (Soft Disintegrated Rock) | 4.00 | 50 | > | > | 50 | Dense Layer |
| 3.00 to 6.00 | | Hard rock drilling sample | 4.50 | Hard Rock Drilling | | | | Very Dense Layer |
| | | | 6.00 | | | | | |
| 6.00 to 8.00 | | | 8.00 | | | | | Very Dense Layer |

Graphical representation of penetration resistance




Bore hole Terminated at 8.0 m

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## BORE LOG 9

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Name of Project | | THE PROPOSED APARTMENT BUILDING IN S.F NO:489/1A-PT, 489/1B-PT VEERAKERALAM VILLAGE, COIMBATORE CORPORATION, COIMBATORE | | | | | |
| Drilling method | | Calyx Drilling | | Dia of bore: | 150 mm | Coordinates | N: 1217366 |
| BH NO: | 9 | DOS: | 02.05.19 | DOC: | 02.05.19 | GWL. Nil | E: 704878 |

| Depth (m) | Soil profile | Description of soil stratum | Standard Penetrometer Test | | | | | Relative density / consistency | Graphical representation of penetration resistance |
|---|---|---|---|---|---|---|---|---|---|
| | | | Depth | Number of blows (N) | | | | | |
| | | | | I | II | III | N | | |
| EGL to 2.00 | | Reddish Coarse Gravel Soil | 1.00 | 11 | 19 | 22 | 41 | Medium Dense Layer | |
| | | | 2.00 | 50 | > | > | 50 | Dense Layer | |
| 2.00 to 3.00 | | Reddish Coarse Gravel Murrum Soil | 4.00 | 50 | > | > | 50 | | |
| 3.00 to 6.00 | | Hard rock drilling sample | 4.50 | Hard Rock Drilling | | | | Very Dense Layer | |
| | | | 6.00 | | | | | | |
| 6.00 to 8.00 | | | 8.00 | | | | | Very Dense Layer | |

0 20 40 60 80 100

Bore hole Terminated at 8.0 m

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| Calculated Safe Bearing Capacity as per IS 6403 - 1981(RA:2002) | | | | | | |
|---|---|---|---|---|---|---|
| Name of work : Proposed Group housing Development in S.F: 478/1PT, 478/4, 478/5A & 489/1A, 489/1B-PT" Coimbatore Veerakeralam Village, Coimbatore Corporation, Coimbatore | | | | | | |
| BH : 1 | Depth from EGL | at 1.5 m depth from EGL | at 2.0 m depth from EGL | at 3.0 depth from EGL | at 6.0 m from EGL | at 8.0 m from EGL |
| Depth of footing (D) | m | **1.50** | **2.00** | **3.00** | **3.00** | **3.00** |
| Width of footing (B) | m | **1.50** | **1.50** | **1.50** | **1.50** | **1.50** |
| Length(L) | m | **1.50** | **1.50** | **1.50** | **1.50** | **1.50** |
| Bulk Dry density of Soil Sample | $kN/m^3$ | 11.17 | 12.68 | 13.43 | 15.92 | 18.21 |
| Observed SPT N Value | | **42** | **50** | **50** | **50** | **50** |
| SPT Corrected N Value | | 39 | 42 | 44 | 44 | 44 |
| Angle of Internal friction | | 38 | 39 | 40 | 41 | 42 |
| Shear Failure criterion | | General | General | General | General | General |
| Bearing capacity factors | $N_c$ | 61.35 | 67.37 | 75.31 | 83.86 | 93.71 |
| | $N_q$ | 48.93 | 55.96 | 64.20 | 73.90 | 85.38 |
| | $N_r$ | 78.03 | 92.25 | 109.41 | 130.22 | 155.55 |
| Shape of footing | | **Square** | **Square** | **Square** | **Square** | **Square** |
| **Shape factor** | Sc | 1.30 | 1.30 | 1.30 | 1.30 | 1.30 |
| | Sq | 1.20 | 1.20 | 1.20 | 1.20 | 1.20 |
| | Sr | 0.80 | 0.80 | 0.80 | 0.80 | 0.80 |
| **Depth factor** | Dc | 1.10 | 1.03 | 1.04 | 1.04 | 1.04 |
| | Dq & Dr | 1.03 | 1.01 | 1.01 | 1.01 | 1.01 |
| **Inclination factor** | | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Ultimate Bearing Capacity | $kN/m^2$ | **1255.8** | **1718.1** | **2948.3** | **3387.7** | **4001.6** |
| Factor of Safety | | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 |
| **Allowable Safe Bearing Capacity** | $kN/m^2$ | **502.32** | **687.23** | **1179.31** | **1355.08** | **1600.66** |

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## Calculated Safe Bearing Capacity as per IS 6403 - 1981(RA:2002)

Name of work : Proposed Group housing Development in S.F: 478/1PT, 478/4, 478/5A & 489/1A, 489/1B-PT" Coimbatore Veerakeralam Village, Coimbatore Corporation, Coimbatore

| BH : 2 | | at 1.5 m depth from EGL | at 2.0 m depth from EGL | at 3.0 depth from EGL | at 6.0 m from EGL | at 8.0 m from EGL |
|---|---|---|---|---|---|---|
| Depth of footing (D) | m | **1.50** | **2.00** | **3.00** | **3.00** | **3.00** |
| Width of footing (B) | m | **1.50** | **1.50** | **1.50** | **1.50** | **1.50** |
| Length(L) | m | **1.50** | **1.50** | **1.50** | **1.50** | **1.50** |
| Bulk Dry density of Soil Sample | $kN/m^3$ | 11.09 | 11.32 | 12.83 | 15.73 | 17.65 |
| Observed SPT N Value | | **46** | **50** | **50** | **50** | **50** |
| SPT Corrected N Value | | 42 | 42 | 44 | 44 | 44 |
| Angle of Internal friction | | 38 | 39 | 40 | 41 | 42 |
| Shear Failure creterion | | General | General | General | General | General |
| Bearing capacity factors | $N_c$ | 61.35 | 67.37 | 75.31 | 83.86 | 93.71 |
| | $N_q$ | 48.93 | 55.96 | 64.20 | 73.90 | 85.38 |
| | $N_r$ | 78.03 | 92.25 | 109.41 | 130.22 | 155.55 |
| Shape of footing | | **Square** | **Square** | **Square** | **Square** | **Square** |
| Shape factor | Sc | 1.30 | 1.30 | 1.30 | 1.30 | 1.30 |
| | Sq | 1.20 | 1.20 | 1.20 | 1.20 | 1.20 |
| | Sr | 0.80 | 0.80 | 0.80 | 0.80 | 0.80 |
| Depth factor | Dc | 1.10 | 1.03 | 1.04 | 1.04 | 1.04 |
| | Dq & Dr | 1.03 | 1.01 | 1.01 | 1.01 | 1.01 |
| Inclination factor | | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Ultimate Bearing Capacity | $kN/m^2$ | **1246.8** | **1695.3** | **2938.7** | **3430.8** | **3986.3** |
| Factor of Safety | | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 |
| Allowable Safe Bearing Capacity | $kN/m^2$ | **498.72** | **678.11** | **1175.49** | **1372.31** | **1594.51** |

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## Calculated Safe Bearing Capacity as per IS 6403 - 1981(RA:2002)

Name of work : Proposed Group housing Development in S.F: 478/1PT, 478/4, 478/5A & 489/1A, 489/1B-PT" Coimbatore Veerakeralam Village, Coimbatore Corporation, Coimbatore

| BH : 3 | Depth from EGL | at 1.5 m depth from EGL | at 2.0 m depth from EGL | at 3.0 depth from EGL | at 6.0 m from EGL | at 8.0 m from EGL |
|---|---|---|---|---|---|---|
| Depth of footing (D) | m | **1.50** | **2.00** | **3.00** | **3.00** | **3.00** |
| Width of footing (B) | m | **1.50** | **1.50** | **1.50** | **1.50** | **1.50** |
| Length(L) | m | **1.50** | **1.50** | **1.50** | **1.50** | **1.50** |
| Bulk Dry density of Soil Sample | $kN/m^3$ | 10.56 | 11.54 | 12.19 | 15.24 | 16.83 |
| Observed SPT N Value | | **22** | **50** | **50** | **50** | **50** |
| SPT Corrected N Value | | 20 | 42 | 44 | 44 | 44 |
| Angle of Internal friction | | 33 | 38 | 39 | 40 | 41 |
| Shear Failure criterion | | General | General | General | General | General |
| Bearing capacity factors | $N_c$ | 38.64 | 61.35 | 67.37 | 75.31 | 83.86 |
| | $N_q$ | 26.09 | 48.93 | 55.96 | 64.20 | 73.90 |
| | $N_r$ | 35.19 | 78.03 | 92.25 | 109.41 | 130.22 |
| Shape of footing | | **Square** | **Square** | **Square** | **Square** | **Square** |
| Shape factor | Sc | 1.30 | 1.30 | 1.30 | 1.30 | 1.30 |
| | Sq | 1.20 | 1.20 | 1.20 | 1.20 | 1.20 |
| | Sr | 0.80 | 0.80 | 0.80 | 0.80 | 0.80 |
| Depth factor | Dc | 1.10 | 1.03 | 1.04 | 1.04 | 1.04 |
| | Dq & Dr | 1.03 | 1.01 | 1.01 | 1.01 | 1.01 |
| Inclination factor | | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Ultimate Bearing Capacity | $kN/m^2$ | **637.4** | **1476.6** | **2541.6** | **2970.1** | **3444.0** |
| Factor of Safety | | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 |
| Allowable Safe Bearing Capacity | $kN/m^2$ | **254.95** | **590.63** | **1016.63** | **1188.03** | **1377.61** |

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## Calculated Safe Bearing Capacity as per IS 6403 - 1981(RA:2002)

Name of work : Proposed Group housing Development in S.F: 478/1PT, 478/4, 478/5A & 489/1A, 489/1B-PT" Coimbatore Veerakeralam Village, Coimbatore Corporation, Coimbatore.

| BH : 4 | Depth from EGL | at 1.5 m depth from EGL | at 2.0 m depth from EGL | at 3.0 depth from EGL | at 6.0 m from EGL | at 8.0 m from EGL |
|---|---|---|---|---|---|---|
| Depth of footing (D) | m | **1.50** | **2.00** | **3.00** | **3.00** | **3.00** |
| Width of footing (B) | m | **1.50** | **1.50** | **1.50** | **1.50** | **1.50** |
| Length(L) | m | **1.50** | **1.50** | **1.50** | **1.50** | **1.50** |
| Bulk Dry density of Soil Sample | $kN/m^3$ | 10.52 | 11.23 | 12.82 | 15.38 | 17.19 |
| Observed SPT N Value | | **40** | **50** | **50** | **100** | **100** |
| SPT Corrected N Value | | 37 | 42 | 44 | 44 | 44 |
| Angle of Internal friction | | 38 | 39 | 40 | 41 | 42 |
| Shear Failure criterion | | General | General | General | General | General |
| Bearing capacity factors | $N_c$ | 61.35 | 67.37 | 75.31 | 83.86 | 93.71 |
| | $N_q$ | 48.93 | 55.96 | 64.20 | 73.90 | 85.38 |
| | $N_r$ | 78.03 | 92.25 | 109.41 | 130.22 | 155.55 |
| Shape of footing | | **Square** | **Square** | **Square** | **Square** | **Square** |
| Shape factor | Sc | 1.30 | 1.30 | 1.30 | 1.30 | 1.30 |
| | Sq | 1.20 | 1.20 | 1.20 | 1.20 | 1.20 |
| | Sr | 0.80 | 0.80 | 0.80 | 0.80 | 0.80 |
| Depth factor | Dc | 1.10 | 1.03 | 1.04 | 1.04 | 1.04 |
| | Dq & Dr | 1.03 | 1.01 | 1.01 | 1.01 | 1.01 |
| Inclination factor | | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Ultimate Bearing Capacity | $kN/m^2$ | **1182.7** | **1642.8** | **2984.5** | **3360.5** | **4019.2** |
| Factor of Safety | | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 |
| Allowable Safe Bearing Capacity | $kN/m^2$ | **473.08** | **657.11** | **1193.81** | **1344.21** | **1607.67** |

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## Calculated Safe Bearing Capacity as per IS 6403 - 1981(RA:2002)

Name of work : Proposed Group housing Development in S.F: 478/1PT, 478/4, 478/5A & 489/1A, 489/1B-PT" Coimbatore Veerakeralam Village, Coimbatore Corporation, Coimbatore

| BH : 5 | Depth from EGL | at 1.5 m depth from EGL | at 2.0 m depth from EGL | at 3.0 depth from EGL | at 6.0 m from EGL | at 8.0 m from EGL |
|---|---|---|---|---|---|---|
| Depth of footing (D) | m | **1.50** | **2.00** | **3.00** | **3.00** | **3.00** |
| Width of footing (B) | m | **1.50** | **1.50** | **1.50** | **1.50** | **1.50** |
| Length(L) | m | **1.50** | **1.50** | **1.50** | **1.50** | **1.50** |
| Bulk Dry density of Soil Sample | $kN/m^3$ | 10.73 | 11.24 | 12.14 | 15.14 | 16.63 |
| Observed SPT N Value | | **28** | **50** | **50** | **100** | **100** |
| SPT Corrected N Value | | 26 | 42 | 44 | 44 | 44 |
| Angle of Internal friction | | 36 | 38 | 39 | 40 | 41 |
| Shear Failure criterion | | General | General | General | General | General |
| Bearing capacity factors | $N_c$ | 50.59 | 61.35 | 67.37 | 75.31 | 83.86 |
| | $N_q$ | 37.75 | 48.93 | 55.96 | 64.20 | 73.90 |
| | $N_r$ | 56.31 | 78.03 | 92.25 | 109.41 | 130.22 |
| Shape of footing | | **Square** | **Square** | **Square** | **Square** | **Square** |
| Shape factor | Sc | 1.30 | 1.30 | 1.30 | 1.30 | 1.30 |
| | Sq | 1.20 | 1.20 | 1.20 | 1.20 | 1.20 |
| | Sr | 0.80 | 0.80 | 0.80 | 0.80 | 0.80 |
| Depth factor | Dc | 1.10 | 1.03 | 1.04 | 1.04 | 1.04 |
| | Dq & Dr | 1.03 | 1.01 | 1.01 | 1.01 | 1.01 |
| Inclination factor | | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Ultimate Bearing Capacity | $kN/m^2$ | **969.1** | **1506.3** | **2551.8** | **2852.1** | **3417.0** |
| Factor of Safety | | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 |
| Allowable Safe Bearing Capacity | $kN/m^2$ | **387.63** | **602.50** | **1020.71** | **1140.82** | **1366.80** |

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## Calculated Safe Bearing Capacity as per IS 6403 - 1981(RA:2002)

Name of work : Proposed Group housing Development in S.F: 478/1PT, 478/4, 478/5A & 489/1A, 489/1B-PT" Coimbatore Veerakeralam Village, Coimbatore Corporation, Coimbatore

| BH : 6 | Depth from EGL | at 1.5 m depth from EGL | at 2.0 m depth from EGL | at 3.0 depth from EGL | at 6.0 m from EGL | at 8.0 m from EGL |
|---|---|---|---|---|---|---|
| Depth of footing (D) | m | **1.50** | **2.00** | **3.00** | **3.00** | **3.00** |
| Width of footing (B) | m | **1.50** | **1.50** | **1.50** | **1.50** | **1.50** |
| Length(L) | m | **1.50** | **1.50** | **1.50** | **1.50** | **1.50** |
| Bulk Dry density of Soil Sample | $kN/m^3$ | 10.64 | 11.26 | 12.68 | 14.82 | 16.72 |
| Observed SPT N Value | | **28** | **50** | **50** | **50** | **50** |
| SPT Corrected N Value | | 26 | 42 | 44 | 44 | 44 |
| Angle of Internal friction | | 36 | 38 | 39 | 40 | 41 |
| Shear Failure criterion | | General | General | General | General | General |
| Bearing capacity factors | $N_c$ | 50.59 | 61.35 | 67.37 | 75.31 | 83.86 |
| | $N_q$ | 37.75 | 48.93 | 55.96 | 64.20 | 73.90 |
| | $N_r$ | 56.31 | 78.03 | 92.25 | 109.41 | 130.22 |
| Shape of footing | | **Square** | **Square** | **Square** | **Square** | **Square** |
| Shape factor | Sc | 1.30 | 1.30 | 1.30 | 1.30 | 1.30 |
| | Sq | 1.20 | 1.20 | 1.20 | 1.20 | 1.20 |
| | Sr | 0.80 | 0.80 | 0.80 | 0.80 | 0.80 |
| Depth factor | Dc | 1.10 | 1.03 | 1.04 | 1.04 | 1.04 |
| | $D_q$ & $D_r$ | 1.03 | 1.01 | 1.01 | 1.01 | 1.01 |
| Inclination factor | | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Ultimate Bearing Capacity | $kN/m^2$ | **960.9** | **1516.2** | **2559.5** | **2950.0** | **3461.3** |
| Factor of Safety | | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 |
| Allowable Safe Bearing Capacity | $kN/m^2$ | **384.37** | **606.46** | **1023.80** | **1179.98** | **1384.53** |

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## Calculated Safe Bearing Capacity as per IS 6403 - 1981(RA:2002)

Name of work : Proposed Group housing Development in S.F: 478/1PT, 478/4, 478/5A & 489/1A, 489/1B-PT" Coimbatore Veerakeralam Village, Coimbatore Corporation, Coimbatore

| BH : 7 | Depth from EGL | at 1.5 m depth from EGL | at 2.0 m depth from EGL | at 3.0 depth from EGL | at 6.0 m from EGL | at 8.0 m from EGL |
|---|---|---|---|---|---|---|
| Depth of footing (D) | m | **1.50** | **2.00** | **3.00** | **3.00** | **3.00** |
| Width of footing (B) | m | **1.50** | **1.50** | **1.50** | **1.50** | **1.50** |
| Length(L) | m | **1.50** | **1.50** | **1.50** | **1.50** | **1.50** |
| Bulk Dry density of Soil Sample | $kN/m^3$ | 10.51 | 11.29 | 13.25 | 15.03 | 16.57 |
| Observed SPT N Value | | **46** | **50** | **50** | **50** | **50** |
| SPT Corrected N Value | | 38 | 42 | 44 | 44 | 44 |
| Angle of Internal friction | | 38 | 39 | 40 | 41 | 42 |
| Shear Failure criterion | | General | General | General | General | General |
| Bearing capacity factors | $N_c$ | 61.35 | 67.37 | 75.31 | 83.86 | 93.71 |
| | $N_q$ | 48.93 | 55.96 | 64.20 | 73.90 | 85.38 |
| | $N_r$ | 78.03 | 92.25 | 109.41 | 130.22 | 155.55 |
| Shape of footing | | **Square** | **Square** | **Square** | **Square** | **Square** |
| Shape factor | Sc | 1.30 | 1.30 | 1.30 | 1.30 | 1.30 |
| | Sq | 1.20 | 1.20 | 1.20 | 1.20 | 1.20 |
| | Sr | 0.80 | 0.80 | 0.80 | 0.80 | 0.80 |
| Depth factor | Dc | 1.10 | 1.03 | 1.04 | 1.04 | 1.04 |
| | Dq & Dr | 1.03 | 1.01 | 1.01 | 1.01 | 1.01 |
| Inclination factor | | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Ultimate Bearing Capacity | $kN/m^2$ | **1181.6** | **1702.5** | **2945.4** | **3384.5** | **3943.3** |
| Factor of Safety | | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 |
| Allowable Safe Bearing Capacity | $kN/m^2$ | **472.64** | **680.99** | **1178.16** | **1353.79** | **1577.31** |

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## Calculated Safe Bearing Capacity as per IS 6403 - 1981(RA:2002)

Name of work : THE PROPOSED APARTMENT BUILDING IN S.F NO:489/1A-PT, 489/1B-PT VEERAKERALAM VILLAGE, COIMBATORE CORPORATION, COIMBATORE

| BH : 8 | Depth from EGL | at 1.5 m depth from EGL | at 2.0 m depth from EGL | at 3.0 depth from EGL | at 6.0 m from EGL | at 8.0 m from EGL |
|---|---|---|---|---|---|---|
| Depth of footing (D) | m | **1.50** | **2.00** | **3.00** | **3.00** | **3.00** |
| Width of footing (B) | m | **1.50** | **1.50** | **1.50** | **1.50** | **1.50** |
| Length(L) | m | **1.50** | **1.50** | **1.50** | **1.50** | **1.50** |
| Bulk Dry density of Soil Sample | $kN/m^3$ | 11.15 | 12.32 | 13.04 | 16.27 | 17.05 |
| Observed SPT N Value | | **38** | **63** | **50** | **50** | **50** |
| SPT Corrected N Value | | 36 | 44 | 44 | 44 | 44 |
| Angle of Internal friction | | 38 | 39 | 40 | 41 | 42 |
| Shear Failure criterion | | General | General | General | General | General |
| Bearing capacity factors | $N_c$ | 61.35 | 67.37 | 75.31 | 83.86 | 93.71 |
| | $N_q$ | 48.93 | 55.96 | 64.20 | 73.90 | 85.38 |
| | $N_r$ | 78.03 | 92.25 | 109.41 | 130.22 | 155.55 |
| Shape of footing | | **Square** | **Square** | **Square** | **Square** | **Square** |
| Shape factor | Sc | 1.30 | 1.30 | 1.30 | 1.30 | 1.30 |
| | Sq | 1.20 | 1.20 | 1.20 | 1.20 | 1.20 |
| | Sr | 0.80 | 0.80 | 0.80 | 0.80 | 0.80 |
| Depth factor | Dc | 1.10 | 1.03 | 1.04 | 1.04 | 1.04 |
| | Dq & Dr | 1.03 | 1.01 | 1.01 | 1.01 | 1.01 |
| Inclination factor | | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Ultimate Bearing Capacity | $kN/m^2$ | **1280.3** | **1697.4** | **2882.8** | **3354.3** | **3872.3** |
| Factor of Safety | | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 |
| Allowable Safe Bearing Capacity | $kN/m^2$ | **512.12** | **678.94** | **1153.11** | **1341.73** | **1548.91** |

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## Calculated Safe Bearing Capacity as per IS 6403 - 1981(RA:2002)

Name of work : THE PROPOSED APARTMENT BUILDING IN S.F NO:489/1A-PT, 489/1B-PT VEERAKERALAM VILLAGE, COIMBATORE CORPORATION, COIMBATORE

| BH : 9 | Depth from EGL | at 1.5 m depth from EGL | at 2.0 m depth from EGL | at 3.0 depth from EGL | at 6.0 m from EGL | at 8.0 m from EGL |
|---|---|---|---|---|---|---|
| Depth of footing (D) | m | **1.50** | **2.00** | **3.00** | **3.00** | **3.00** |
| Width of footing (B) | m | **1.50** | **1.50** | **1.50** | **1.50** | **1.50** |
| Length(L) | m | **1.50** | **1.50** | **1.50** | **1.50** | **1.50** |
| Bulk Dry density of Soil Sample | $kN/m^3$ | 11.31 | 12.73 | 13.64 | 16.18 | 17.35 |
| Observed SPT N Value | | **41** | **50** | **50** | **50** | **50** |
| SPT Corrected N Value | | 37 | 42 | 44 | 44 | 44 |
| Angle of Internal friction | | 38 | 39 | 40 | 41 | 42 |
| Shear Failure criterion | | General | General | General | General | General |
| Bearing capacity factors | $N_c$ | 61.35 | 67.37 | 75.31 | 83.86 | 93.71 |
| | $N_q$ | 48.93 | 55.96 | 64.20 | 73.90 | 85.38 |
| | $N_r$ | 78.03 | 92.25 | 109.41 | 130.22 | 155.55 |
| Shape of footing | | **Square** | **Square** | **Square** | **Square** | **Square** |
| Shape factor | Sc | 1.30 | 1.30 | 1.30 | 1.30 | 1.30 |
| | Sq | 1.20 | 1.20 | 1.20 | 1.20 | 1.20 |
| | Sr | 0.80 | 0.80 | 0.80 | 0.80 | 0.80 |
| Depth factor | Dc | 1.10 | 1.03 | 1.04 | 1.04 | 1.04 |
| | Dq & Dr | 1.03 | 1.01 | 1.01 | 1.01 | 1.01 |
| Inclination factor | | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Ultimate Bearing Capacity | $kN/m^2$ | **1271.5** | **1685.8** | **2860.8** | **3305.3** | **3832.4** |
| Factor of Safety | | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 |
| Allowable Safe Bearing Capacity | $kN/m^2$ | **508.61** | **674.31** | **1144.31** | **1322.13** | **1532.96** |

Original

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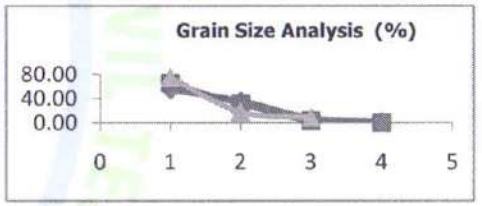
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## Laboratory Test Results

Name of Work : Proposed Group housing Development in S.F: 478/1PT, 478/4, 478/5A & 489/1A, 489/1B-PT" Coimbatore Veerakeralam Village, Coimbatore Corporation, Coimbatore

| Bore Hole No | Depth (m) From | Depth (m) To | Type of Soil | Grain Size Analysis (%) Coarse Sand (%) | Medium Sand (%) | Fine Sand (%) | Silt & Clay (%) | Atterberg Limits (%) LL | PL | PI | Swell Index (%) | NMC (%) | Chemical Analysis (%) S | Cl | Ph | Soil Classification |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| BH-1 | EGL | 2.00 | Reddish Coarse Soil | 53.10 | 36.40 | 8.15 | 2.35 | 21.3 | Nil | Non Plastic | 11.11 | 9.40 | 0.027 | 0.002 | 5.63 | SP |
| | 2.00 | 3.00 | Reddish Coarse cum Mixed Lime Stone | 65.42 | 31.20 | 3.15 | 0.23 | 18.3 | Nil | Non Plastic | 8.70 | | | | | GP |
| | 3.00 | 6.00 | Reddish Murrum Mixed Lime stone | 74.10 | 17.20 | 8.70 | Nil | 10.3 | Nil | Non Plastic | Nil | 10.36 | 0.018 | 0.004 | 5.69 | GW |

| Depth (m) From | Depth (m) To | Shear Parameters Ø Value | Shear Parameters C (kg/cm²) | Sp.Gr | CBR Value (%) | Proctor (M.D.D) gm/cc |
|---|---|---|---|---|---|---|
| EGL | 2.00 | 39 | 0 | 2.59 | 6.25 | 1.93 |
| 2.00 | 3.00 | 40 | 0 | 2.61 | 12.35 | |
| 3.00 | 6.00 | 41 | 0 | 2.63 | 18.67 | 2.08 |




Reddish Rock

| Rock Sample - Analysis Depth (m) | | Sp.Gr | Comp.Str (kg/cm2) | Density (kg/m3) | Porosity (%) |
|---|---|---|---|---|---|
| 6.00 | 10.00 | 2.71 | 63.15 | 1762.00 | 2.19 |

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## Laboratory Test Results

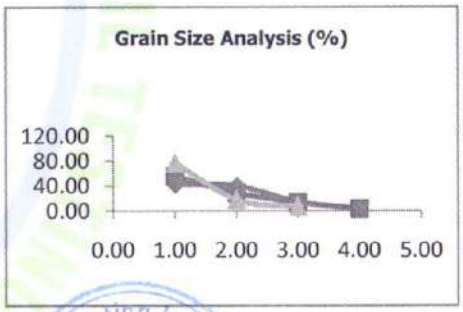
Name of Work : Proposed Group housing Development in S.F: 478/1PT, 478/4, 478/5A & 489/1A, 489/1B-PT" Coimbatore Veerakeralam Village, Coimbatore Corporation, Coimbatore

| Bore Hole No | Depth (m) From | Depth (m) To | Type of Soil | Grain Size Analysis (%) Coarse Sand (%) | Medium Sand (%) | Fine Sand (%) | Silt & Clay (%) | Atterberg Limits (%) LL | PL | PI | Swell Index (%) | NMC (%) | Chemical Analysis (%) S | Cl | Ph | Soil Classification |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| BH-2 | EGL | 2.00 | Reddish Coarse Clay Mixed Soil | 42.30 | 39.80 | 14.30 | 3.60 | 25.1 | 13.2 | 11.9 | 9.23 | 9.62 | 0.026 | 0.003 | 5.64 | SP |
| | 2.00 | 3.00 | Reddish Coarse cum Mixed Lime Stone | 55.31 | 28.50 | 13.20 | 2.99 | 19.7 | Nil | Non Plastic | Nil | | | | | GM |
| | 3.00 | 6.00 | Reddish Coarse cum Mixed Lime Stone | 76.20 | 17.30 | 6.50 | Nil | 11.2 | Nil | Non Plastic | Nil | 10.26 | 0.024 | 0.006 | 5.71 | GP |

| Depth (m) From | Depth (m) To | Shear Parameters Ø Value | Shear Parameters C (kg/cm²) | Sp.Gr | CBR Value (%) | Proctor (M.D.D) gm/cc |
|---|---|---|---|---|---|---|
| EGL | 2.00 | 39 | 0 | 2.59 | 7.15 | 1.95 |
| 2.00 | 3.00 | 40 | 0 | 2.62 | 13.24 | |
| 3.00 | 6.00 | 41 | 0 | 2.64 | 17.39 | 2.11 |

**Rock Sample - Analysis**

| Reddish Rock | Depth (m) | | Sp.Gr | Comp.Str (kg/cm2) | Density (kg/m3) | Porosity (%) |
|---|---|---|---|---|---|---|
| | 6.00 | 10.00 | 2.68 | 78.65 | 1785.00 | 2.24 |




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## Laboratory Test Results

Name of Work : Proposed Group housing Development in S.F: 478/1PT, 478/4, 478/5A & 489/1A, 489/1B-PT" Coimbatore Veerakeralam Village, Coimbatore Corporation, Coimbatore

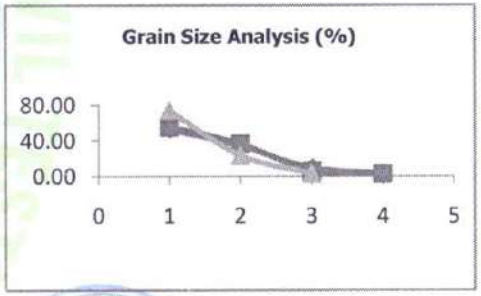
| Bore Hole No | Depth (m) From | Depth (m) To | Type of Soil | Grain Size Analysis (%) Coarse Sand (%) | Medium Sand (%) | Fine Sand (%) | Silt & Clay (%) | Atterberg Limits (%) LL | PL | PI | Swell Index (%) | NMC % | Chemical Analysis (%) S | Cl | Ph | Soil |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| BH-3 | EGL | 2.00 | Reddish Coarse Clay Mixed Soil | 52.40 | 34.12 | 9.65 | 3.83 | 17.6 | Nil | Non Plastic | 7.12 | 9.40 | 0.025 | 0.003 | 5.74 | SP |
| | 2.00 | 3.00 | Reddish Coarse cum Mixed Lime Stone | 55.34 | 36.58 | 5.35 | 2.73 | 12.4 | Nil | Non Plastic | Nil | | | | | GM |
| | 3.00 | 6.00 | Reddish Coarse cum Mixed Lime Stone | 73.50 | 23.20 | 3.12 | Nil | 8.4 | Nil | Non Plastic | Nil | 10.36 | 0.019 | 0.007 | 5.69 | GP |

| Depth (m) From | Depth (m) To | Shear Parameters Ø Value | Shear Parameters C (kg/cm²) | Sp.Gr | CBR Value (%) | Proctor (M.D.D) gm/cc |
|---|---|---|---|---|---|---|
| EGL | 2.00 | 38 | 0 | 2.57 | 7.62 | 1.92 |
| 2.00 | 3.00 | 39 | 0 | 2.60 | 16.35 | |
| 3.00 | 6.00 | 40 | 0 | 2.62 | | 2.13 |

Reddish Rock

**Rock Sample - Analysis**

| Depth (m) | | Sp.Gr | Comp.Str (kg/cm2) | Density (kg/m3) | Porosity (%) |
|---|---|---|---|---|---|
| 6.00 | 11.00 | 2.69 | 76.30 | 1825.10 | 2.21 |




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## Laboratory Test Results

Name of Work : Proposed Group housing Development in S.F: 478/1PT, 478/4, 478/5A & 489/1A, 489/1B-PT" Coimbatore Veerakeralam Village, Coimbatore Corporation, Coimbatore

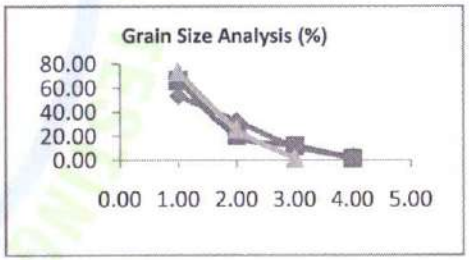
| Bore Hole No | Depth (m) From | Depth (m) To | Type of Soil | Grain size analysis ( % ) Coarse Sand (%) | Medium Sand (%) | Fine Sand (%) | Silt & Clay (%) | Atterberg Limits (%) LL | PL | PI | Swell Index (%) | NMC% | Chemical Analysis (%) S | Cl | Ph | Soil Classification |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| BH-4 | EGL | 2.00 | Reddish Coarse Gravel Soil | 53.53 | 32.50 | 11.25 | 2.72 | 13.2 | Nil | Non Plastic | 8.40 | 10.56 | 0.028 | 0.004 | 5.28 | SW |
| | 2.00 | 3.00 | Reddish Coarse Gravel Murrum Soil | 66.18 | 20.40 | 12.01 | 1.41 | | | | Nil | 9.60 | 0.026 | 0.003 | 5.43 | GP |
| | 3.00 | 6.00 | Reddish Murrum | 73.25 | 25.45 | 1.30 | Nil | 7.3 | Nil | Non Plastic | Nil | 11.53 | 0.042 | 0.003 | 5.19 | GM |

| Depth (m) From | Depth (m) To | Shear Parameters Ø Value | Shear Parameters C (kg/cm$^2$) | Sp.Gr | CBR Value (%) | Proctor (M.D.D) gm/cc |
|---|---|---|---|---|---|---|
| EGL | 2.00 | 39 | 0 | 2.57 | 9.10 | 1.97 |
| 2.00 | 3.00 | 40 | 0 | 2.63 | 17.85 | 2.07 |
| 3.00 | 6.00 | 41 | 0 | | | |

Reddish Rock

**Rock Sample - Analysis**

| Depth (m) | | Sp.Gr | Comp.Str (kg/cm2) | Density (kg/m3) | Porosity (%) |
|---|---|---|---|---|---|
| 6.00 | 10.00 | 2.70 | 64.18 | 1837.20 | 2.29 |




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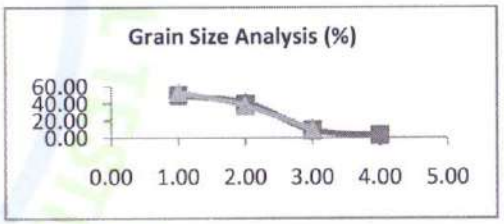
Name of Work : Proposed Group housing Development in S.F: 478/1PT, 478/4, 478/5A & 489/1A, 489/1B-PT" Coimbatore Veerakeralam Village, Coimbatore Corporation, Coimbatore

| Bore Hole No | Depth (m) From | Depth (m) To | Type of Soil | Grain size analysis ( % ) Coarse Sand (%) | Medium Sand (%) | Fine Sand (%) | Silt & Clay (%) | Atterberg Limits (%) LL | PL | PI | Swell Index (%) | NMC% | Chemical Analysis (%) S | Cl | Ph | Soil Classification |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| BH-5 | NGL | 2.00 | Reddish Coarse Gravel Soil | 48.62 | 41.25 | 9.58 | 0.55 | 13.3 | 6.2 | 7.1 | 10.07 | 11.61 | 0.049 | 0.006 | 5.38 | SP |
| | 2.00 | 3.00 | Reddish Coarse Gravel Murrum Soil | 49.50 | 39.25 | 8.41 | 2.84 | 8.3 | Nil | Non Plastic | Nil | 13.42 | 0.052 | 0.003 | 5.24 | GW |
| | 3.00 | 6.00 | Reddish Murrum Gravel | 53.20 | 37.16 | 9.64 | Nil | Nil | | | 6.42 | 12.54 | 0.033 | 0.005 | 5.18 | GP |

| Depth (m) From | Depth (m) To | Shear Parameters Ø Value | C (kg/cm²) | Sp.Gr | CBR Value (%) | Proctor (M.D.D) gm/cc |
|---|---|---|---|---|---|---|
| NGL | 2.00 | 38 | 0 | 2.58 | 8.61 | 1.92 |
| 2.00 | 3.00 | 39 | 0 | 2.61 | 17.32 | 2.08 |
| 3.00 | 6.00 | 40 | 0 | | | |

Reddish Rock

| Rock Sample - Analysis Depth (m) | | Sp.Gr | Comp.Str (kg/cm2) | Density (kg/m3) | Porosity (%) |
|---|---|---|---|---|---|
| 6.00 | 10.00 | 2.72 | 68.30 | 1753.40 | 2.21 |




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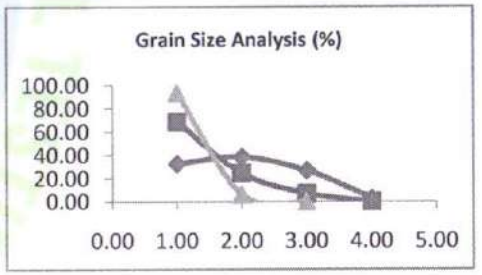
## Laboratory Test Results

Name of Work : Proposed Group housing Development in S.F: 478/1PT, 478/4, 478/5A & 489/1A, 489/1B-PT" Coimbatore Veerakeralam Village, Coimbatore Corporation, Coimbatore

| Bore Hole No | Depth (m) From | Depth (m) To | Type of Soil | Grain size analysis % Coarse Sand (%) | Medium Sand (%) | Fine Sand (%) | Silt & Clay (%) | Atterberg Limits (%) LL | PL | PI | Swell Index (%) | NMC% | Chemical Analysis (%) S | Cl | Ph | Soil Classification |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| BH-7 | NGL | 2.00 | Reddish Coarse Gravel Soil | 32.40 | 38.40 | 26.50 | 2.70 | 8.3 | Nil | Non Plastic | 12.67 | 12.98 | 0.016 | 0.003 | 5.82 | SP |
| | 2.00 | 3.00 | Reddish Coarse Gravel Murrum Soil | 68.67 | 24.50 | 6.83 | Nil | 6.5 | Nil | Non Plastic | Nil | 7.91 | | | | GM |
| | 3.00 | 6.00 | Reddish Murrum Gravel | 93.60 | 6.40 | Nil | | Nil | | | Nil | 11.25 | 0.014 | 0.007 | 5.91 | GP |

| Depth (m) From | Depth (m) To | Shear Parameters Ø Value | C (kg/cm$^2$) | Sp.Gr | CBR Value (%) | Proctor (M.D.D) gm/cc |
|---|---|---|---|---|---|---|
| NGL | 2.00 | 39 | 0 | 2.58 | 8.16 | 1.89 |
| 2.00 | 3.00 | 40 | 0 | 2.61 | 16.54 | 2.05 |
| 3.00 | 6.00 | 41 | 0 | 2.64 | | 2.14 |

Grain Size Analysis (%)




Reddish Rock

| Rock Sample - Analysis Depth (m) | | Sp.Gr | Comp.Str (kg/cm2) | Density (kg/m3) | Porosity (%) |
|---|---|---|---|---|---|
| 6.00 | 10.00 | 2.68 | 70.19 | 1741.00 | 2.31 |

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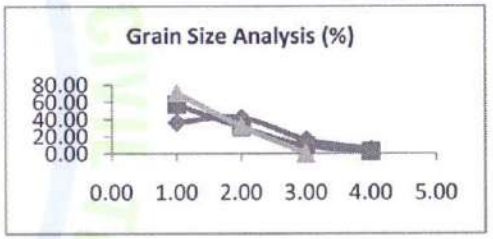
## Laboratory Test Results

Name of Work : THE PROPOSED APARTMENT BUILDING IN S.F NO:489/1A-PT, 489/1B-PT VEERAKERALAM VILLAGE, COIMBATORE CORPORATION, COIMBATORE

| Bore Hole No | Depth (m) From | Depth (m) To | Type of Soil | Grain size analysis ( % ) Coarse Sand (%) | Medium Sand (%) | Fine Sand (%) | Silt & Clay (%) | Atterberg Limits (%) LL | PL | PI | Swell Index (%) | NMC% | Chemical Analysis (%) S | Cl | Ph | Soil Classification |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| BH-8 | NGL | 2.00 | Reddish Coarse Gravel Soil | 36.50 | 42.10 | 16.20 | 5.20 | 12.3 | Nil | Non Plastic | 8.20 | 12.30 | 0.041 | 0.004 | 5.48 | SP |
| | 2.00 | 3.00 | | 57.20 | 31.00 | 9.50 | 2.30 | 8.7 | Nil | Non Plastic | Nil | | | | | GP |
| | 3.00 | 4.00 | Reddish Murrum Soil | 71.00 | 32.00 | Nil | | Nil | | | 7.40 | 10.54 | 0.028 | 0.006 | 5.61 | GW |

| Depth (m) From | Depth (m) To | Shear Parameters Ø Value | Shear Parameters C (kg/cm²) | Sp.Gr | CBR Value (%) | Proctor (M.D.D) gm/cc |
|---|---|---|---|---|---|---|
| NGL | 2.00 | 39 | 0 | 2.58 | 7.52 | 1.93 |
| 2.00 | 3.00 | 40 | 0 | 2.60 | 11.25 | 2.04 |
| 3.00 | 4.00 | 41 | 0 | 2.62 | | |

Grain Size Analysis (%)




Reddish Rock

| Rock Sample - Analysis Depth (m) | | Sp.Gr | Comp.Str (kg/cm2) | Density (kg/m3) | Porosity (%) |
|---|---|---|---|---|---|
| 5.00 | 8.00 | 2.71 | 67.23 | 1715.20 | 2.35 |

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