Verified RealEstate™

Your trusted partner for buying, selling, and managing property, ensuring hassle-free service with 100% transparency.

3/350/2 Mettukuppam,
OMR Thoraipakkam,
Chennai, India

hello@verified.realestate
+91 9996 12 9996

Official Property Record

Digitally Verified Record - Powered by Verified RealEstate™



CHENNAI SOIL LAB

(GEO - TECHNICAL INVESTIGATION & SURVEY DIVISION)
NO: 2/49 BAJANAI KOIL STREET KOYAMBEDU
CHENNAI - 600 107
Email: chennaisoillab@gmail.com
Contact: +91-9444469824, +91-9941952033

GEO – TECHNICAL REPORT

NAME OF THE PROJECT: PROPOSED CONSTRUCTION OF HIGH RISE RESIDENTIAL BUILDING (EXTENDED BASEMENT FLOOR (PARKING) + STILT FLOOR (PARKING) + 10 FLOORS + 11TH FLOOR PART RESIDENTIAL BUILDING AT OLD S.NOS: 613/2C & 610B/2B, T.S.NO: 110/9 & 111/21, KORATTUR VILLAGE, AMBATTUR TALUK, CHENNAI – 600 050

CLIENT

N. RAJENDRAN,

S. ANBAZHAGAN,

M/S BUILD TECH ASSOCIATES,

NO: AP-95, 1ST STREET, 1ST SECTOR,

K.K. NAGAR,

CHENNAI – 600 078

Job No: 2731

APR – 2022



CONTENTS

1. Introduction

    1.1 Overview
    1.2 Authority

2. Project Details

    2.1 Site Location
    2.2 Site Layout and Topography
    2.3 The Structure

3. Object of Investigation

4. Scope of Investigation

5. Field Investigation

    5.1 General Details
    5.2 Boreholes

6. Ground Water Table

7. Laboratory Investigation

8. Sub Soil Profile

9. Recommendation

10. Construction Advisory

11. Limitations

12. References

    Table – 1: Pile capacity calculations
    Table - 1: Summary of Laboratory Test Results
    Fig - 1: Laboratory Test Data
        NMC
        Specific Gravity
        Grain Size Analysis

****

CHENNAI SOIL LAB

REPORT ON SUB SOIL INVESTIGATION AND RECOMMENDATION

1. INTRODUCTION

1.1 Overview

1.1.1 The geotechnical investigation has been done to ascertain the soil properties and to aid the design of foundations for Proposed Construction of **Residential Building at Korattur**

1.2 Authority

1.2.1 A comprehensive soil investigation programme has been conducted by authorization by **MR.N.RAJENDRAN, KK.NAGAR, CHENNAI**

2.1 Site Location:

2.1.1 The site for the Proposed **Residential Building at Korattur**

2.2 Site Layout and Topography

2.2.1 The site is fairly level

2.2.2 The colour of the soil surface is Brown.

2.3 The structure:

2.3.1 As per the client's information the Proposed Project **Residential Building at Korattur with Basement with Stilt Floor and eleven upper floors**

3. OBJECT OF INVESTIGATION:

i. For designing the foundation system of the proposed structure. The following data are required

a. Type of Foundation System

b. Depth below the Ground level at which the foundation system is to be laid

c. Allowable bearing pressure on the foundations levels.

ii. To determine the above factor , the following information are required:

a. The sub Soil profile indicating thickness of the various soil strata, to a depth down to the influence zone below the foundations.



b. Engineering properties of the Soil strata at various levels.
c. Physical Characteristics of the Soil Strata.
d. Variation of the Strength of the Soil Strata with depth.

The object of conducting Field and laboratory investigation and analysis is to get data for the parameters and for providing the recommendation

4. SCOPE OF INVESTIGATION:

a. Sinking 5 boreholes down to 20.00m depth or refusal strata (where N value is > 50 whichever is met earlier, as required by the client.
b. Conducting Standard Penetration test at Regular Intervals.
c. Recording ground water table levels, if met with.
d. Conducting relevant laboratory test on soil samples recovered.
e. Preparation and submission of a technical report containing the details of the test carried out, their analysis and recommendation regarding the foundation system to be adopted.

5. FIELD INVESTIGATION

5.1 General Details

i. Weather Conditions:

Weather was clear during field investigation which was carried out on Fourth week of April 2022

ii. Locations of Tests:

The locations of the boreholes was shown by the client.



5.2 Boreholes:

5.2.1 The boreholes were progressed by Rotary method.

5.2.2 The boreholes were terminated at refusal strata, where further drilling and penetration was not possible. The refusal Strata encountered in the form of Soft Disintegrated Rock. The N Value in the strata is >50. The terminated depth of boreholes is given in the following table.

Bore Hole No	Terminated depth from Existing G.L (m)
1	20.00m
2	20.00m
3	20.00m
4	20.00m
5	20.00m

5.2.3 Standard Penetration Test was performed in the borehole. The standard split spoon sampler, attached to a string of drill rods was lowered to the bottom of the hole and allowed to rest under self weight. The drill rods were connected to driving assembly which consisted of a hoisting equipment, a drive weight (Hammer) of 63.5kg, and a guide to ensure a 75cm free fall of hammer on an anvil. The number of hammer blows that were required to penetrate the sampler through three runs of 150mm each was recorded. Initial driving of 150mm was disregarded and the number of blows required to drive the sampler through the remaining 300mm is called BLOW COUNT or PENETRATION NUMBER, N. At the end of the test, the sampler was withdrawn and the soil extracted for subsequent testing in the laboratory. If the penetration was less than 30cm for 50 blows, it is considered as refusal and the actual penetration was recorded.

5.2.4 Undisturbed soil samples were recovered by thin walled samplers conforming to IS 2132. These tubes had an area ratio of less than 10%. The diameter of Soil samples were 50mm and its length was 45cm. The ends of sample tube were sealed by wax to prevent loss/ Ingress of moisture and labeled.

6. GROUND WATER TABLE

Ground water table was encountered at 3.00m in the borehole-drilled depth.



7. LABORATORY INVESTIGATION

Laboratory tests were conducted on disturbed soil samples to determine the engineering parameters for the analysis of bearing capacity of the foundation strata. The following laboratory tests were conducted on soil samples collected as per IS: 2720.

a. Natural Moisture Content
b. Grain size analysis
c. Liquid limits
d. Direct shear test
e. Specific Gravity

8. SUB SOIL PROFILE

From the visual identification and laboratory test results of the samples obtained from boreholes, it is concluded that the sub soil is basically made-up of three distinctive layers they are

For BH-1

Layers	Depth (m)	Type of Soil	"N" Value
1	0.00-1.50m	Filling Soil	NIL
2	1.50-13.50m	Hard Clay	16-47
3	13.50-20.00m	Sandy Clay	>55

For BH-2

Layers	Depth (m)	Type of Soil	"N" Value
1	0.00-1.50m	Filling Soil	NIL
2	1.50-13.50m	Hard Clay	13-40
3	13.50-20.00m	Sandy Clay	>55

For BH-3

Layers	Depth (m)	Type of Soil	"N" Value
1	0.00-1.50m	Filling Soil	NIL
2	1.50-13.50m	Hard Clay	14-47
3	13.50-20.00m	Sandy Clay	>55



For BH-4

Layers	Depth (m)	Type of Soil	"N" Value
1	0.00-1.50m	Filling Soil	NIL
2	1.50-13.50m	Hard Clay	15-48
3	13.50-20.00m	Sandy Clay	>55

For BH-5

Layers	Depth (m)	Type of Soil	"N" Value
1	0.00-1.50m	Filling Soil	NIL
2	1.50-13.50m	Hard Clay	14-54
3	13.50-20.00m	Sandy Clay	>55

The soil profile details are presented in the bore-chart

9. RECOMMENDATION

The recommendation for the proposed structure **Residential Building at Korattur** is given below: Bored cast –in-situ piles up to 20.00m, below existing Ground Level are recommended. The capacity of pile of diameter is provided below.

BH NO	Pile Dia (mm)	Pile Length (m)	Vertical Load Capacity (tonnes)	Vertical Load Capacity (kN)
1	500	20.00	82	821.348
2	600	20.00	104.203	1022.233
3	750	20.00	137.251	1346.438

Note: The recommendation given in this report have been arrived at on the basis of design with the parameters which have been judiciously adopted by giving due consideration result from field and laboratory investigation as well as Chennai Soil Lab experience in working in various types of soil and rock condition all over India

VASANTHI PADMANABAN M.Tech..
CHENNAI SOIL LAB
CMDA Reg No: GTE/19/04/016
DTCP Reg No. CGLRGN/RGTE/2019/06/011
No.2/49, Bajanai Koil Street, Koyambedu,CH-107
Cell: 9444469824, 9551754771

CHENNAI SOIL LAB CHENNAI-107

10. CONSTRUCTION ADVISORY

a. The soil of each strata has been described with name, colour etc. During excavation any variation in the nature of the soil and its condition from those given in this Report should be noted and appropriate action should be taken.

11. LIMITATIONS

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 the Report are hence valid only for those test locations. However, if there is any change in sub-soil conditions and properties at place between or beyond the chosen test locations, Chennai Soil Lab may be contacted for further actions. Fresh investigation will have to be carried out at such locations

CHENNAI SOIL LAB * CHENNAI-167 *

12. REFERENCES

A list of IS codes referred for providing the recommendation and that which might be required to implement the same has been given below

Field Investigation

IS: 1498 – 1970: Classification and identification of Soils for general engineering purposes (First Revision) (Amendment 2)

IS: 1892 – 1979: Code of Practice for Sub Surface investigation for Foundations (First Version)

IS: 2132 – 1986: Code of practice for thin walled tube sampling of Soils (Second Revision)

Laboratory Tests:

IS: 2720 – 1983 (Part 1): Method of test for Soils: Preparation of dry Soil Samples for Various Tests (Second Revision)

IS: 2720 – 1980 (Part 2): Method of test for Soils: Determination of water content (Second revision) Amendment I

IS: 2720 – 1980 (Part 3/ Sec 1): Method of test of Soils: Determination of Specific Gravity: Fine grained Soils. (First Revision)

IS: 2720 – 1980 (Part 3/ Sec 2): Method of test of Soils: Determination of Specific Gravity: Fine, Medium & Coarse grained Soils (First revision)

IS: 2720 – 1985 (Part 4): Method of test for Soils: Grain Size Analysis (Second revision)

IS: 2720 – 1985 (Part 5): Method of test for Soils: Determination of Liquid Limit and Plastic Limit (Second revision)

IS: 2720 – 1977 (Part 40): Method of test for Soils: Determination of free Swell Index of Soils

Foundation Construction:

IS: 1080 – 1986: Code of Practice for design and Construction of Shallow foundation on Soils (other than raft, Ring and shell) (Second revision)

IS: 1904 – 1986: Code of practice for design and construction of foundation in Soils: General requirements (Third revision)

IS: 6403 – 1981: Code of practice for determination of bearing capacity of shallow foundations: First revision (Amendment)

IS: 8009 – 1976 (Part 1): Code of practice for calculation of settlements of foundations: Shallow foundations subject to symmetrical static vertical load (Amendment)



Pile Capacity Calculations:

Type of Pile: Bored Cast in-situ Concrete Pile
Length: 20.00m
Dia: 500mm

Layer: 1= = (0.00m to 1.50m) Filling Soil

Qf_1= 0

Layer: 2 = (1.50m to 13.50m) Hard Clay

Qf_2= ΠdI2αCu

= Πx0.50x12.00x0.50x6.30 = **59.376 tonnes**

Layer: 3 = (13.50m to 20.00m) Sandy Clay

Qf_3= ΠdI3 (σ avg/2) tanσ

= Πx0.50x6.50x1.00x16.75x tanσ = **111.061 tonnes**

End Bearing

Qp=CxNC.Ap

Nc=22, C=9 t/sq.m

Qp= π/4*0.50^2x22x9= **38.877 tonnes**

Qu(net)= $Qf_1 + Qf_2 + Qf_3 + Qp$ = **209.314 Tonnes**
Factor of Safety=2.50

Safe Vertical Load= 209.314 / 2.50= 83.725 Tonnes
Say = 82 Tonnes / 821.348 kN



BORELOG-1

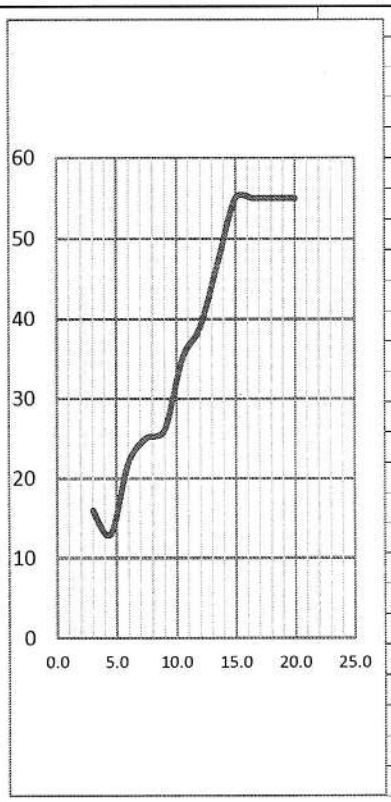
PROJECT: PROPOSED CONSTRUCTION OF RESIDENTIAL BUILDING (B+S+11) AT KORATTUR VILLAGE

BH	1	NAME & ADDRESS OF CLIENT		G.W.L	3.00m
Type of Boring	Rotary	MR.N.RAJENDRAN		Dia of Boring	150mm
Started on	26.04.2022	KK.NAGAR		Location	Ref. Fig
Ended on	26.04.2022	CHENNAI		Total Depth	20.00m
				Site	Korattur

R.L of Layers	Soil Profiles	Soil Description	SPT Details					Type of Samples	IS Classification
			Depth (m)	15	30	45	N		
1.50		Filling Soil	1.5	NIL					
3.00		Hard Clay	3.0	6	8	8	16	SPT	CL
4.50			4.5	5	6	7	13	SPT	
6.00			6.0	6	9	13	22	SPT	
7.50			7.5	8	11	14	25	SPT	
9.00			9.0	9	12	14	26	SPT	
10.50			10.5	13	16	19	35	SPT	
12.00			12.0	14	18	21	39	SPT	
13.50			13.5	19	21	26	47	SPT	
15.00		Sandy Clay	15.0	50/32cm Balance			>55	SPT	SC
16.50			16.5	50/34cm Balance			>55	SPT	
18.00			18.0	50/44cm Balance			>55	SPT	
20.00			20.0	55/Rebound			>55	SPT	

Bore Hole Terminated 20.00m below G.L

Graphical Presentation of Soil Strata with Respect to Depth of Drilling





BORELOG-2

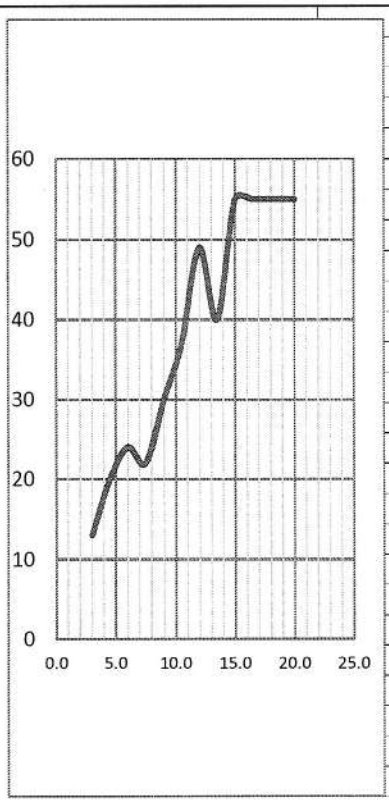
PROJECT: PROPOSED CONSTRUCTION OF RESIDENTIAL BUILDING (B+S+11) AT KORATTUR VILLAGE

BH	2	NAME & ADDRESS OF CLIENT	G.W.L	3.00m
Type of Boring	Rotary	MR.N.RAJENDRAN	Dia of Boring	150mm
Started on	27.04.2022	KK.NAGAR	Location	Ref. Fig
Ended on	27.04.2022	CHENNAI	Total Depth	20.00m
			Site	Korattur

R.L of Layers	Soil Profiles	Soil Description	SPT Details					Type of Samples	IS Classification
			Depth (m)	15	30	45	N		
1.50		Filling Soil	1.5	NIL					
3.00		Hard Clay	3.0	6	7	6	13	SPT	CL
4.50			4.5	7	9	11	20	SPT	
6.00			6.0	8	11	13	24	SPT	
7.50			7.5	6	11	11	22	SPT	
9.00			9.0	11	14	16	30	SPT	
10.50			10.5	14	16	21	37	SPT	
12.00			12.0	17	23	26	49	SPT	
13.50			13.5	15	21	19	40	SPT	
15.00		Sandy Clay	15.0	50/18cm Balance			>55	SPT	SC
16.50			16.5	50/35cm Balance			>55	SPT	
18.00			18.0	50/42cm Balance			>55	SPT	
20.00			20.0	55/Rebound			>55	SPT	

Bore Hole Terminated 20.00m below G.L

Graphical Presentation of Soil Strata with Respect to Depth of Drilling



CHENNAI SOIL LAB CHENNAI-45

BORELOG-3

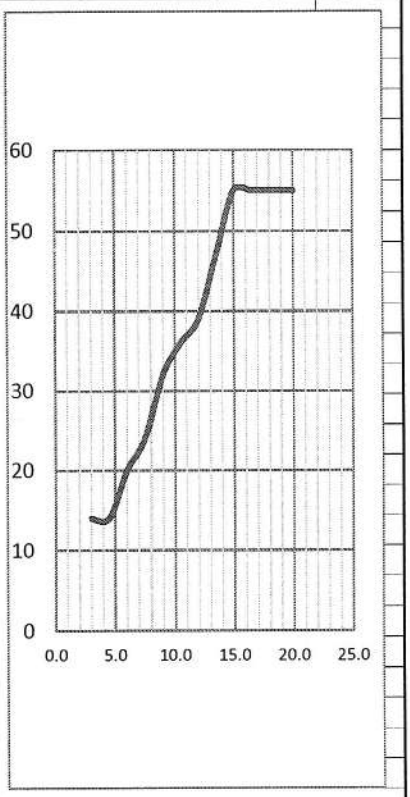
PROJECT: PROPOSED CONSTRUCTION OF RESIDENTIAL BUILDING (B+S+11) AT KORATTUR VILLAGE

BH	3	NAME & ADDRESS OF CLIENT	G.W.L	3.00m
Type of Boring	Rotary	MR.N.RAJENDRAN	Dia of Boring	150mm
Started on	28.04.2022	KK.NAGAR	Location	Ref. Fig
Ended on	28.04.2022	CHENNAI	Total Depth	20.00m
			Site	Korattur

R.L of Layers	Soil Profiles	Soil Description	SPT Details					Type of Samples	IS Classification
			Depth (m)	15	30	45	N		
1.50		Filling Soil	1.5	NIL					
3.00		Hard Clay	3.0	5	7	7	14	SPT	CL
4.50			4.5	5	6	8	14	SPT	
6.00			6.0	7	9	11	20	SPT	
7.50			7.5	9	11	13	24	SPT	
9.00			9.0	11	15	17	32	SPT	
10.50			10.5	12	16	20	36	SPT	
12.00			12.0	14	17	22	39	SPT	
13.50			13.5	19	22	25	47	SPT	
15.00		Sandy Clay	15.0	50/9cm Balance			>55	SPT	SC
16.50			16.5	50/30cm Balance			>55	SPT	
18.00			18.0	50/45cm Balance			>55	SPT	
20.00			20.0	55/Rebound			>55	SPT	

Bore Hole Terminated 20.00m below G.L

Graphical Presentation of Soil Strata with Respect to Depth of Drilling



CHENNAI SOIL LAB CHENNAI-127

BORELOG-4

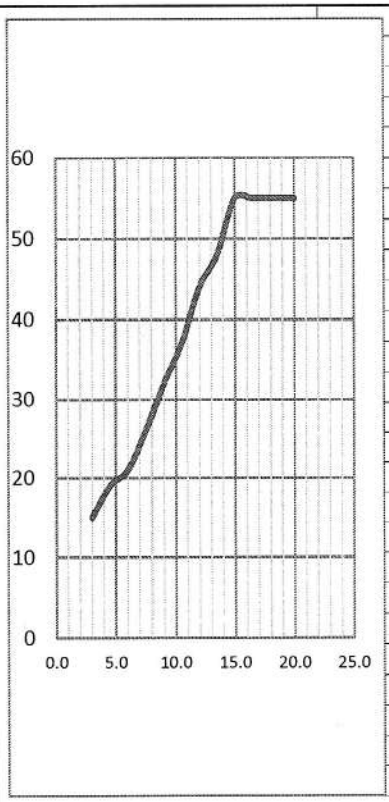
PROJECT: PROPOSED CONSTRUCTION OF RESIDENTIAL BUILDING (B+S+11) AT KORATTUR VILLAGE

BH	4	NAME & ADDRESS OF CLIENT	G.W.L	3.00m
Type of Boring	Rotary	MR.N.RAJENDRAN	Dia of Boring	150mm
Started on	29.04.2022	KK.NAGAR	Location	Ref. Fig
Ended on	29.04.2022	CHENNAI	Total Depth	20.00m
			Site	Korattur

R.L of Layers	Soil Profiles	Soil Description	SPT Details					Type of Samples	IS Classification
			Depth (m)	15	30	45	N		
1.50		Filling Soil	1.5	NIL					
3.00		Hard Clay	3.0	5	7	8	15	SPT	CL
4.50			4.5	7	9	10	19	SPT	
6.00			6.0	7	10	11	21	SPT	
7.50			7.5	9	12	14	26	SPT	
9.00			9.0	10	14	18	32	SPT	
10.50			10.5	12	16	21	37	SPT	
12.00			12.0	15	23	21	44	SPT	
13.50			13.5	17	24	24	48	SPT	
15.00		Sandy Clay	15.0	50/19cm Balance			>55	SPT	SC
16.50			16.5	50/38cm Balance			>55	SPT	
18.00			18.0	50/45cm Balance			>55	SPT	
20.00			20.0	55/Rebound			>55	SPT	

Bore Hole Terminated 20.00m below G.L

Graphical Presentation of Soil Strata with Respect to Depth of Drilling



CHENNAI SOIL LAB * CHENNAI-97

BORELOG-5

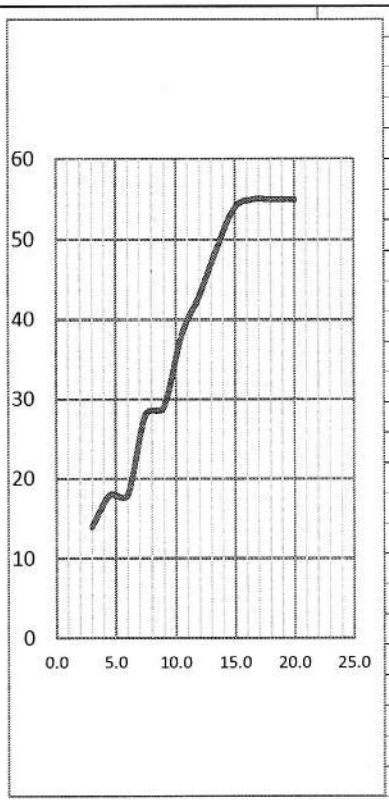
PROJECT: PROPOSED CONSTRUCTION OF RESIDENTIAL BUILDING (B+S+11) AT KORATTUR VILLAGE

BH	5	NAME & ADDRESS OF CLIENT	G.W.L	3.00m
Type of Boring	Rotary	MR.N.RAJENDRAN	Dia of Boring	150mm
Started on	30.04.2022	KK.NAGAR	Location	Ref. Fig
Ended on	30.04.2022	CHENNAI	Total Depth	20.00m
			Site	Korattur

R.L of Layers	Soil Profiles	Soil Description	SPT Details					Type of Samples	IS Classification
			Depth (m)	15	30	45	N		
1.50		Filling Soil	1.5	NIL					
3.00		Hard Clay	3.0	6	6	8	14	SPT	CL
4.50			4.5	6	8	10	18	SPT	
6.00			6.0	7	9	9	18	SPT	
7.50			7.5	9	13	15	28	SPT	
9.00			9.0	10	13	16	29	SPT	
10.50			10.5	11	15	23	38	SPT	
12.00			12.0	13	21	22	43	SPT	
13.50			13.5	18	22	27	49	SPT	
15.00		Sandy Clay	15.0	21	26	28	54	SPT	SC
16.50			16.5	50/40cm Balance			>55	SPT	
18.00			18.0	50/44cm Balance			>55	SPT	
20.00			20.0	55/Rebound			>55	SPT	

Bore Hole Terminated 20.00m below G.L

Graphical Presentation of Soil Strata with Respect to Depth of Drilling





PROJECT: PROPOSED CONSTRUCTION OF RESIDENTIAL BUILDING (B+S+11) AT KORATTUR VILLAGE

Bore Hole No:	1														Ground Water Level:	3.00m
LABORATORY TEST RESULTS																
N' Value	Depth (m)	Soil Description	IS-Classification	Index Properties (%)					Specific Gravity	Grain Size Analysis (%)						Direct Shear	
				Natural Moisture Content (NMC)	Liquid Limit	Plastic Limit	Plastic Index	Free Swell Index		Gravel	Coarse Sand	Medium Sand	Fine Sand	Silt & Clay		Cohesion, C (kg/Sq.cm.)	Angle of friction
NIL	1.50	Filling Soil															
16	3.00	Hard Clay		22	52	27	25										
13	4.50			26	53	32	21										
22	6.00			25	52	40	12										
25	7.50			23	58	35	23										
26	9.00			23	50	32	18										
35	10.50			25	54	29	25										
39	12.00			22	55	28	27										
47	13.50			19	50	33	17										
>55	15.00	Sandy Clay		16					2.44	0	0	31	63	6			
>55	16.50			18					2.47	0	0	39	57	4			
>55	18.00			14					2.49	0	0	33	62	5			
>55	20.00			11					2.50	0	0	37	60	3			

PROJECT: PROPOSED CONSTRUCTION OF RESIDENTIAL BUILDING (B+S+11) AT KORATTUR VILLAGE

Bore Hole No:	2		Ground Water Level:	3.00m

LABORATORY TEST RESULTS

N' Value	Depth (m)	Soil Description	IS-Classification	Index Properties (%)					Specific Gravity	Grain Size Analysis (%)						Direct Shear	
				Natural Moisture Content (NMC)	Liquid Limit	Plastic Limit	Plastic Index	Free Swell Index		Gravel	Coarse Sand	Medium Sand	Fine Sand	Silt & Clay		Cohesion, C (kg/Sq.cm.)	Angle of friction
NIL	1.50	Filling Soil															
13	3.00	Hard Clay		25	56	40	16										
20	4.50			20	60	40	20										
24	6.00			24	56	29	27										
22	7.50			20	56	33	23										
30	9.00			23	52	27	25										
37	10.50			23	50	33	17										
49	12.00			23	50	40	10										
40	13.50			22	50	34	16										
>55	15.00	Sandy Clay		17					2.47	0	0	31	64	5			
>55	16.50			18					2.47	0	0	33	63	4			
>55	18.00			14					2.50	0	0	29	70	1			
>55	20.00			10					2.50	0	0	33	59	8			

PROJECT: PROPOSED CONSTRUCTION OF RESIDENTIAL BUILDING (B+S+11) AT KORATTUR VILLAGE

Bore Hole No:	3														Ground Water Level:	3.00m
LABORATORY TEST RESULTS																
N' Value	**Depth (m)**	**Soil Description**	**IS-Classification**	**Index Properties (%)**					**Specific Gravity**	**Grain Size Analysis (%)**						**Direct Shear**	
				Natural Moisture Content (NMC)	Liquid Limit	Plastic Limit	Plastic Index	Free Swell Index		Gravel	Coarse Sand	Medium Sand	Fine Sand	Silt & Clay	Cohesion, C (kg/Sq.cm.)	Angle of friction
NIL	1.50	Filling Soil														
14	3.00	Hard Clay		23	56	33	23									
14	4.50			25	57	30	27									
20	6.00			22	41	26	15									
24	7.50			22	40	21	19									
32	9.00			24	48	28	20									
36	10.50			25	57	35	22									
39	12.00			24	53	32	21									
47	13.50			23	42	29	13									
>55	15.00	Sandy Clay		16					2.48	0	0	35	48	17		
>55	16.50			15					2.50	0	0	27	53	20		
>55	18.00			16					2.49	0	0	41	49	10		
>55	20.00			11					2.48	0	0	41	50	9		



PROJECT: PROPOSED CONSTRUCTION OF RESIDENTIAL BUILDING (B+S+11) AT KORATTUR VILLAGE

Bore Hole No:	4								Ground Water Level:	3.00m							
LABORATORY TEST RESULTS																	
N' Value	**Depth (m)**	**Soil Description**	**IS-Classification**	**Index Properties (%)**					**Specific Gravity**	**Grain Size Analysis (%)**						**Direct Shear**	
				Natural Moisture Content (NMC)	Liquid Limit	Plastic Limit	Plastic Index	Free Swell Index		Gravel	Coarse Sand	Medium Sand	Fine Sand	Silt & Clay	Cohesion, C (kg/Sq.cm.)	Angle of friction
NIL	1.50	Filling Soil														
15	3.00	Hard Clay		23	55	30	25									
19	4.50			24	52	28	24									
21	6.00			28	58	39	19									
26	7.50			22	57	29	28									
32	9.00			25	62	32	30									
37	10.50			25	52	32	20									
44	12.00			25	57	29	28									
48	13.50			20	53	29	24									
>55	15.00	Sandy Clay		14					2.48	0	0	19	59	22		
>55	16.50			13					2.50	0	0	76	14	10		
>55	18.00			13					2.50	0	0	78	12	10		
>55	20.00			12					2.50	0	0	76	10	14		

CHENNAI SOIL LAB CHENNAI-107

PROJECT: PROPOSED CONSTRUCTION OF RESIDENTIAL BUILDING (B+S+11) AT KORATTUR VILLAGE

Bore Hole No:	5		Ground Water Level:	3.00m

LABORATORY TEST RESULTS

N' Value	Depth (m)	Soil Description	IS-Classification	Index Properties (%)					Specific Gravity	Grain Size Analysis (%)					Direct Shear	
				Natural Moisture Content (NMC)	Liquid Limit	Plastic Limit	Plastic Index	Free Swell Index		Gravel	Coarse Sand	Medium Sand	Fine Sand	Silt & Clay	Cohesion, C (kg/Sq.cm.)	Angle of friction
NIL	1.50	Filling Soil														
14	3.00	Hard Clay		27	57	30	27									
18	4.50			25	50	28	22									
18	6.00			26	59	30	29									
28	7.50			33	54	28	26									
29	9.00			23	55	31	24									
38	10.50			20	55	32	23									
43	12.00			25	53	33	20									
49	13.50			25	51	32	19									
54	15.00	Sandy Clay		18					2.46	0	0	78	12	10		
>55	16.50			13					2.49	0	0	72	14	14		
>55	18.00			16					2.48	0	0	68	16	16		
>55	20.00			11					2.50	0	0	71	19	10		

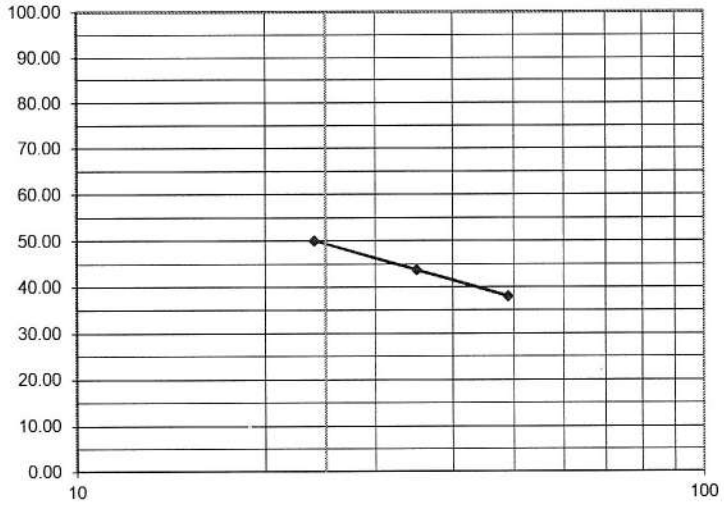
CHENNAI SOIL LAB CHENNAI-107

ATTERBERG LIMITS TEST

PROJECT: PROPOSED CONSTRUCTION OF RESIDENTIAL BUILDING (B+S+11) AT KORATTUR VILLAGE

Bore Hole No: 1
Depth: 13.5

		Liquid limit				Plastic limit	
No. of blows		24	35	49		35	47
Weight of wet soil+ Tare	g	39.00	37.00	39.00		35.00	37.00
Weight of dry soil + Tare	g	35.00	33.20	35.70		32.50	34.50
Weight of Tare	g	27.00	24.50	27.00		25.00	27.00
Weight of water	g	4.00	3.80	3.30		2.50	2.50
Weight of dry Soil	g	8.00	8.70	8.70		7.50	7.50
Moisture content	%	50.00	43.68	37.93		33.33	33.33



Liquid limit : 50 %
Plastic limit : 33 %
Plasticity index : 17 %

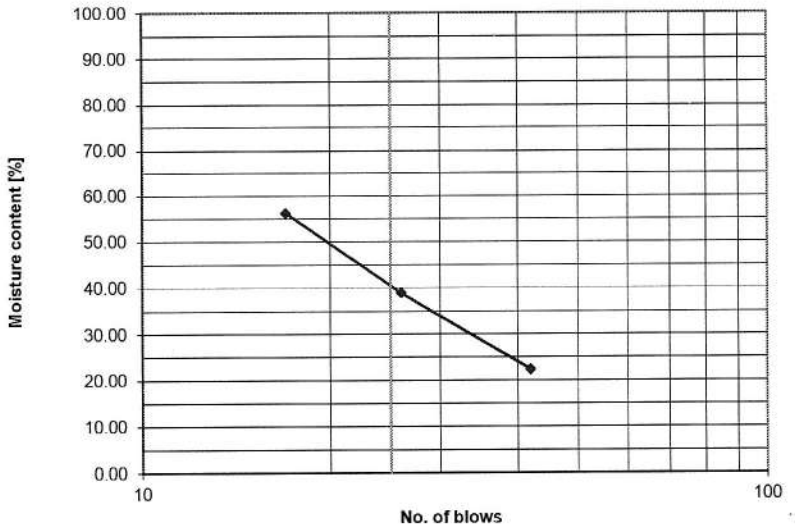
CHENNAI SOIL LAB * CHENNAI-107 *

ATTERBERG LIMITS TEST

PROJECT: PROPOSED CONSTRUCTION OF RESIDENTIAL BUILDING (B+S+11) AT KORATTUR VILLAGE

Bore Hole No: 2
Depth: 3.00

		Liquid limit				Plastic limit	
No. of blows		17	26	42		64	2
Weight of wet soil+ Tare	g	45.50	37.50	37.50		37.00	38.00
Weight of dry soil + Tare	g	41.00	34.00	35.40		34.10	35.00
Weight of Tare	g	33.00	25.00	26.00		27.00	27.50
Weight of water	g	4.50	3.50	2.10		2.90	3.00
Weight of dry Soil	g	8.00	9.00	9.40		7.10	7.50
Moisture content	%	56.25	38.89	22.34		40.85	40.00



Liquid limit : 56 %
Plastic limit : 40 %
Plasticity index : 16 %

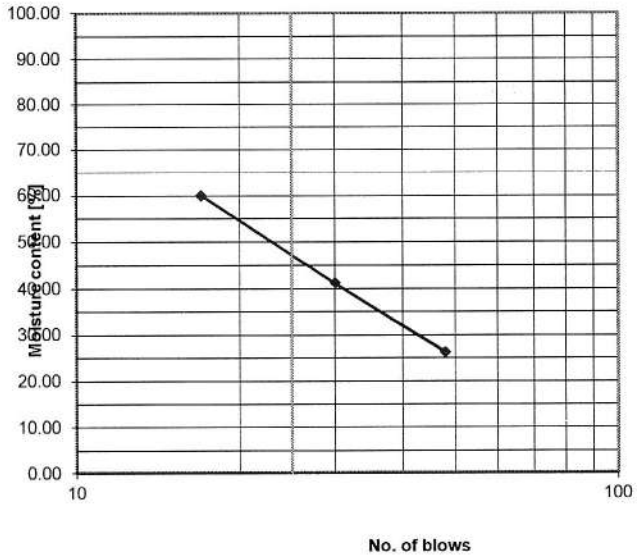
CHENNAI SOIL LAB * CHENNAI-101 *

ATTERBERG LIMITS TEST

PROJECT: PROPOSED CONSTRUCTION OF RESIDENTIAL BUILDING (B+S+11) AT KORATTUR VILLAGE

Bore Hole No: 2
Depth: 4.50

		Liquid limit				Plastic limit	
No. of blows		17	30	48		81	11
Weight of wet soil+ Tare	g	38.50	37.50	37.00		34.50	35.00
Weight of dry soil + Tare	g	34.00	34.00	34.30		31.60	32.00
Weight of Tare	g	26.50	25.50	24.00		24.50	24.50
Weight of water	g	4.50	3.50	2.70		2.90	3.00
Weight of dry Soil	g	7.50	8.50	10.30		7.10	7.50
Moisture content	%	60.00	41.18	26.21		40.85	40.00



Liquid limit : 60 %
Plastic limit : 40 %
Plasticity index : 20 %

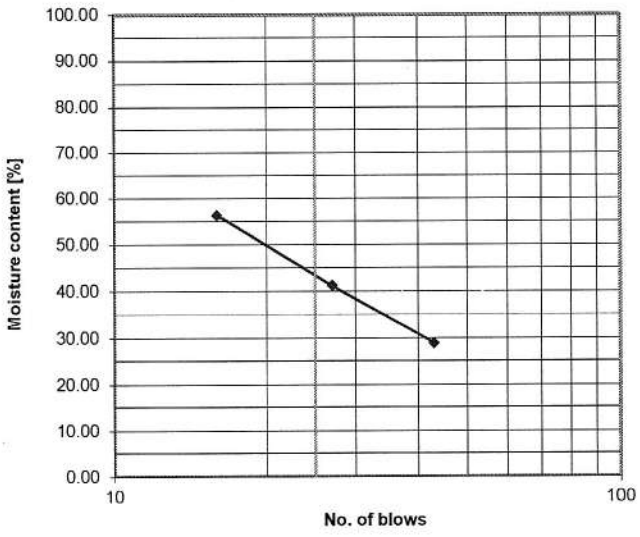
CHENNAI SOIL LAB * CHENNAI-101 *

ATTERBERG LIMITS TEST

PROJECT: PROPOSED CONSTRUCTION OF RESIDENTIAL BUILDING (B+S+11) AT KORATTUR VILLAGE

Bore Hole No: 2
Depth: 6.00

		Liquid limit				Plastic limit	
No. of blows		16	27	43		73	72
Weight of wet soil+ Tare	g	38.00	36.50	36.00		41.00	32.00
Weight of dry soil + Tare	g	33.50	33.00	33.20		38.50	29.70
Weight of Tare	g	25.50	24.50	23.50		30.00	22.00
Weight of water	g	4.50	3.50	2.80		2.50	2.30
Weight of dry Soil	g	8.00	8.50	9.70		8.50	7.70
Moisture content	%	56.25	41.18	28.87		29.41	29.87



Liquid limit : 56 %
Plastic limit : 29 %
Plasticity index : 27 %

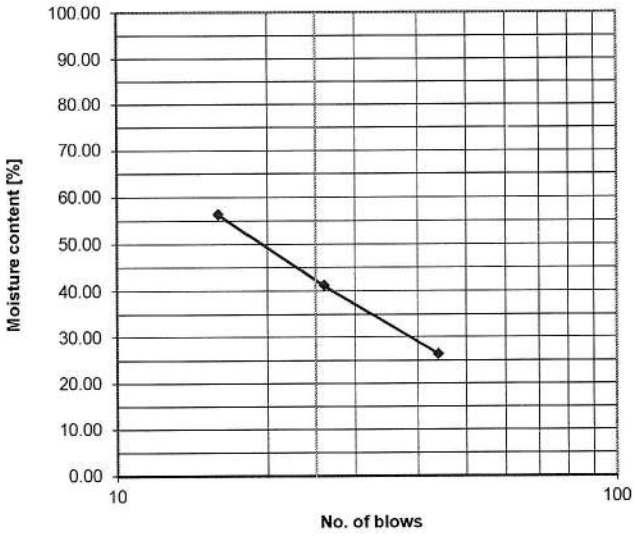
CHENNAI SOIL LAB * CHENNAI-101 *

ATTERBERG LIMITS TEST

PROJECT: PROPOSED CONSTRUCTION OF RESIDENTIAL BUILDING (B+S+11) AT KORATTUR VILLAGE

Bore Hole No: 2
Depth: 7.50

		Liquid limit				Plastic limit	
No. of blows		16	26	44		30	39
Weight of wet soil+ Tare	g	45.50	39.50	33.00		36.50	36.00
Weight of dry soil + Tare	g	41.00	36.00	30.60		34.00	33.50
Weight of Tare	g	33.00	27.50	21.50		26.50	26.00
Weight of water	g	4.50	3.50	2.40		2.50	2.50
Weight of dry Soil	g	8.00	8.50	9.10		7.50	7.50
Moisture content	%	56.25	41.18	26.37		33.33	33.33



Liquid limit : 56 %
Plastic limit : 33 %
Plasticity index : 23 %

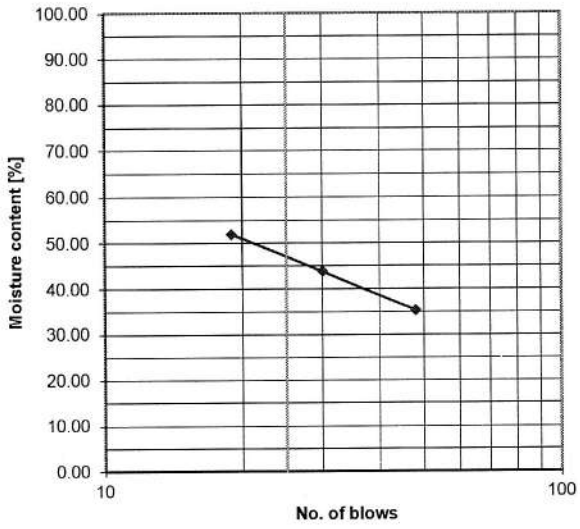
CHENNAI SOIL LAB * CHENNAI-107 *

ATTERBERG LIMITS TEST

PROJECT: PROPOSED CONSTRUCTION OF RESIDENTIAL BUILDING (B+S+11) AT KORATTUR VILLAGE

Bore Hole No: 2
Depth: 9.00

		Liquid limit				Plastic limit	
No. of blows		19	30	48		54	37
Weight of wet soil+ Tare	g	38.00	38.00	40.00		42.00	35.50
Weight of dry soil + Tare	g	33.90	34.50	37.00		39.90	33.30
Weight of Tare	g	26.00	26.50	28.50		32.00	25.00
Weight of water	g	4.10	3.50	3.00		2.10	2.20
Weight of dry Soil	g	7.90	8.00	8.50		7.90	8.30
Moisture content	%	51.90	43.75	35.29		26.58	26.51



Liquid limit : 52 %
Plastic limit : 27 %
Plasticity index : 25 %

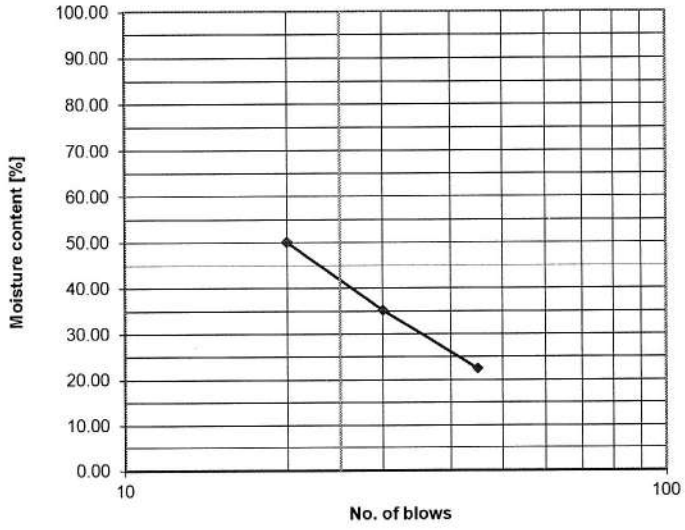
CHENNAI SOIL LAB * CHENNAI-97 *

ATTERBERG LIMITS TEST

PROJECT: PROPOSED CONSTRUCTION OF RESIDENTIAL BUILDING (B+S+11) AT KORATTUR VILLAGE

Bore Hole No: 2
Depth: 10.50

		Liquid limit				Plastic limit	
No. of blows		20	30	45		6	78
Weight of wet soil+ Tare	g	45.00	42.00	38.50		47.50	43.00
Weight of dry soil + Tare	g	41.00	39.00	36.30		45.00	40.50
Weight of Tare	g	33.00	30.50	26.50		37.50	33.00
Weight of water	g	4.00	3.00	2.20		2.50	2.50
Weight of dry Soil	g	8.00	8.50	9.80		7.50	7.50
Moisture content	%	50.00	35.29	22.45		33.33	33.33



Liquid limit : 50 %
Plastic limit : 33 %
Plasticity index : 17 %

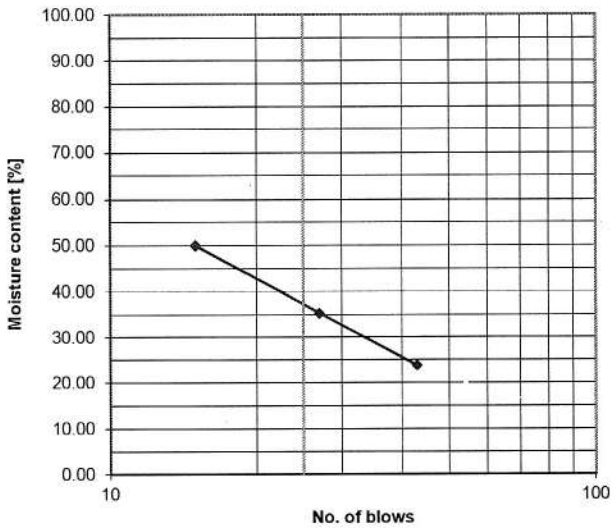
CHENNAI SOIL LAB * CHENNAI-97 *

ATTERBERG LIMITS TEST

PROJECT: PROPOSED CONSTRUCTION OF RESIDENTIAL BUILDING (B+S+11) AT KORATTUR VILLAGE

Bore Hole No: 2
Depth: 12.00

		Liquid limit				Plastic limit	
No. of blows		15	27	43		79	56
Weight of wet soil+ Tare	g	39.00	37.00	37.00		35.00	46.00
Weight of dry soil + Tare	g	35.00	34.00	34.70		32.10	43.00
Weight of Tare	g	27.00	25.50	25.00		25.00	35.50
Weight of water	g	4.00	3.00	2.30		2.90	3.00
Weight of dry Soil	g	8.00	8.50	9.70		7.10	7.50
Moisture content	%	50.00	35.29	23.71		40.85	40.00



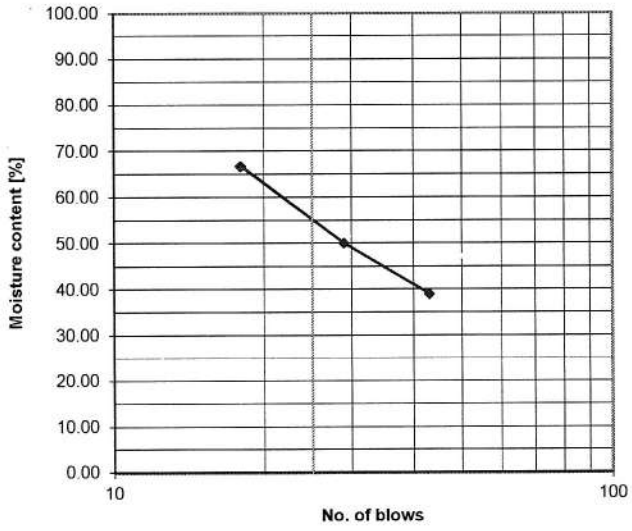
Liquid limit : 50 %
Plastic limit : 40 %
Plasticity index : 10 %

ATTERBERG LIMITS TEST

PROJECT: PROPOSED CONSTRUCTION OF RESIDENTIAL BUILDING (B+S+11) AT KORATTUR VILLAGE

Bore Hole No: 2
Depth: 13.5

		Liquid limit				Plastic limit	
No. of blows		18	29	43		118	68
Weight of wet soil+ Tare	g	37.50	36.00	37.50		30.00	34.50
Weight of dry soil + Tare	g	32.50	32.00	34.00		27.50	32.00
Weight of Tare	g	25.00	24.00	25.00		20.00	24.50
Weight of water	g	5.00	4.00	3.50		2.50	2.50
Weight of dry Soil	g	7.50	8.00	9.00		7.50	7.50
Moisture content	%	66.67	50.00	38.89		33.33	33.33



Liquid limit : 50 %
Plastic limit : 34 %
Plasticity index : 16 %

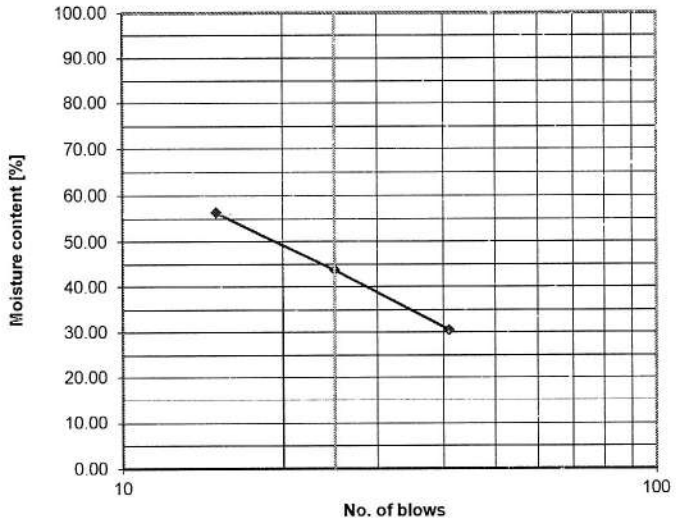
CHENNAI SOIL LAB * CHENNAI-101 *

ATTERBERG LIMITS TEST

PROJECT: PROPOSED CONSTRUCTION OF RESIDENTIAL BUILDING (B+S+11) AT KORATTUR VILLAGE

Bore Hole No: 3
Depth: 3

		Liquid limit				Plastic limit	
No. of blows		15	25	41		8	17
Weight of wet soil+ Tare	g	44.50	45.00	33.50		37.50	36.50
Weight of dry soil + Tare	g	40.00	41.50	30.70		35.00	34.00
Weight of Tare	g	32.00	33.50	21.50		27.50	26.50
Weight of water	g	4.50	3.50	2.80		2.50	2.50
Weight of dry Soil	g	8.00	8.00	9.20		7.50	7.50
Moisture content	%	56.25	43.75	30.43		33.33	33.33



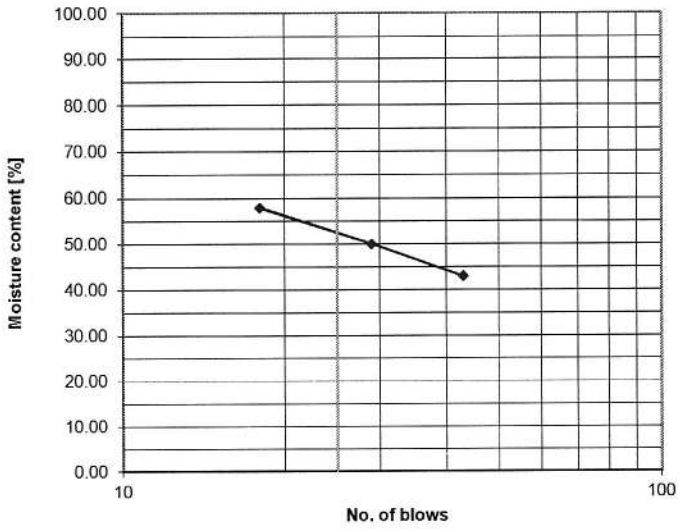
Liquid limit : 56 %
Plastic limit : 33 %
Plasticity index : 23 %

ATTERBERG LIMITS TEST

PROJECT: PROPOSED CONSTRUCTION OF RESIDENTIAL BUILDING (B+S+11) AT KORATTUR VILLAGE

Bore Hole No: 3
Depth: 4.50

		Liquid limit				Plastic limit	
No. of blows		18	29	43		54	58
Weight of wet soil+ Tare	g	45.50	45.00	47.00		45.00	43.00
Weight of dry soil + Tare	g	41.10	41.00	43.70		42.40	40.40
Weight of Tare	g	33.50	33.00	36.00		34.00	32.00
Weight of water	g	4.40	4.00	3.30		2.60	2.60
Weight of dry Soil	g	7.60	8.00	7.70		8.40	8.40
Moisture content	%	57.89	50.00	42.86		30.95	30.95



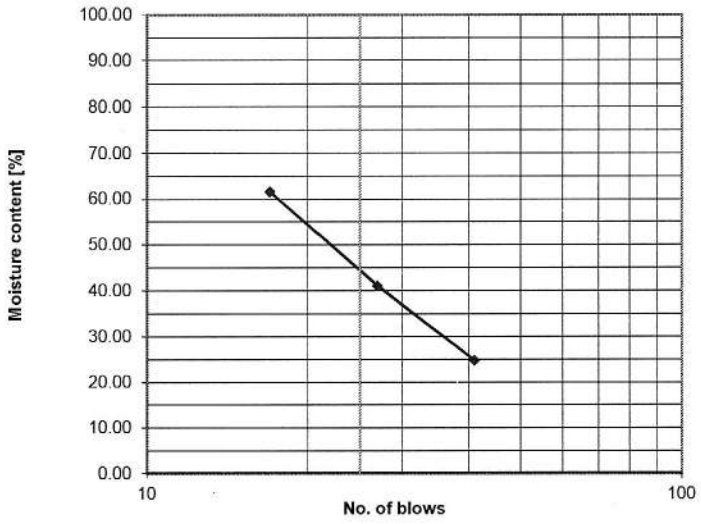
Liquid limit : 57 %
Plastic limit : 30 %
Plasticity index : 27 %

ATTERBERG LIMITS TEST

PROJECT: PROPOSED CONSTRUCTION OF RESIDENTIAL BUILDING (B+S+11) AT KORATTUR VILLAGE

Bore Hole No: 3
Depth: 6.00

		Liquid limit				Plastic limit	
No. of blows		17	27	41		40	53
Weight of wet soil+ Tare	g	36.50	36.00	44.10		30.00	32.00
Weight of dry soil + Tare	g	32.50	32.80	41.90		27.90	29.30
Weight of Tare	g	26.00	25.00	33.00		20.00	19.00
Weight of water	g	4.00	3.20	2.20		2.10	2.70
Weight of dry Soil	g	6.50	7.80	8.90		7.90	10.30
Moisture content	%	61.54	41.03	24.72		26.58	26.21



Liquid limit : 41 %
Plastic limit : 26 %
Plasticity index : 15 %

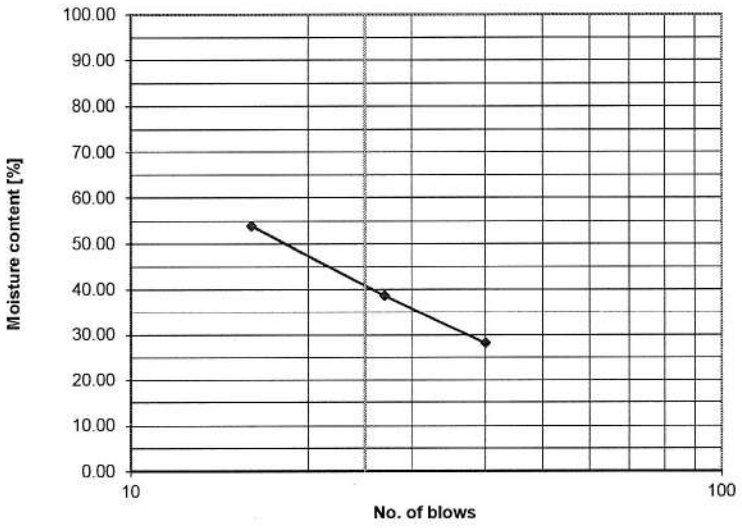
CHENNAI SOIL LAB * CHENNAI-107 *

ATTERBERG LIMITS TEST

PROJECT: PROPOSED CONSTRUCTION OF RESIDENTIAL BUILDING (B+S+11) AT KORATTUR VILLAGE

Bore Hole No: 3
Depth: 7.50

		Liquid limit				Plastic limit	
No. of blows		16	27	40		138	141
Weight of wet soil+ Tare	g	42.00	45.50	44.00		30.50	30.50
Weight of dry soil + Tare	g	38.50	42.10	41.30		28.50	28.70
Weight of Tare	g	32.00	33.30	31.70		19.10	20.30
Weight of water	g	3.50	3.40	2.70		2.00	1.80
Weight of dry Soil	g	6.50	8.80	9.60		9.40	8.40
Moisture content	%	53.85	38.64	28.13		21.28	21.43



Liquid limit : 40 %
Plastic limit : 21 %
Plasticity index : 19 %

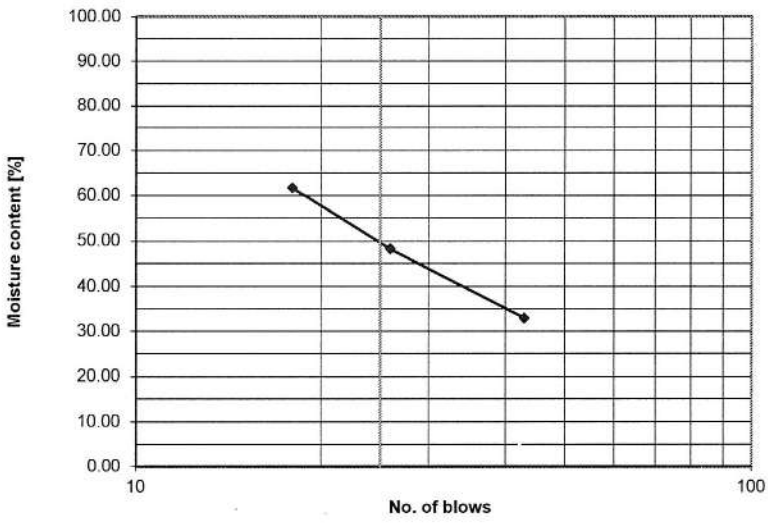
CHENNAI SOIL LAB * CHENNAI-197 *

ATTERBERG LIMITS TEST

PROJECT: PROPOSED CONSTRUCTION OF RESIDENTIAL BUILDING (B+S+11) AT KORATTUR VILLAGE

Bore Hole No: 3
Depth: 9.00

		Liquid limit				Plastic limit	
No. of blows		18	26	43		122	139
Weight of wet soil+ Tare	g	45.50	47.00	41.50		32.50	31.00
Weight of dry soil + Tare	g	41.00	42.80	39.00		30.00	28.80
Weight of Tare	g	33.70	34.10	31.40		21.20	21.00
Weight of water	g	4.50	4.20	2.50		2.50	2.20
Weight of dry Soil	g	7.30	8.70	7.60		8.80	7.80
Moisture content	%	61.64	48.28	32.89		28.41	28.21



Liquid limit : 48 %
Plastic limit : 28 %
Plasticity index : 20 %

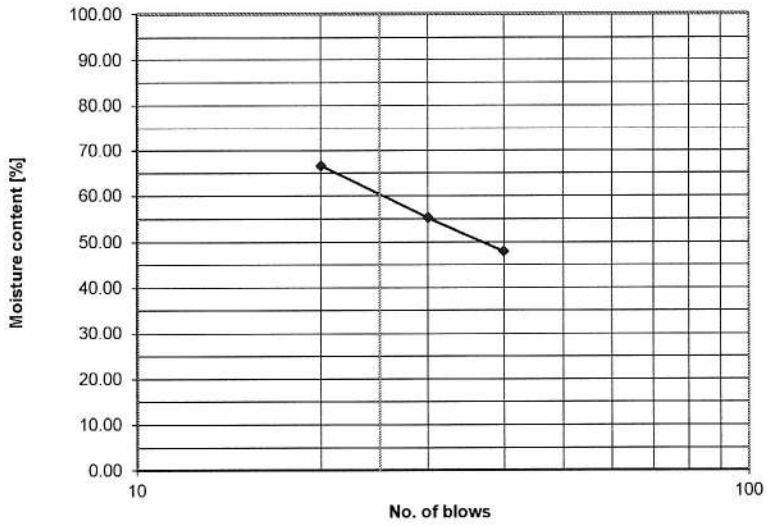
CHENNAI SOIL LAB * CHENNAI-101 *

ATTERBERG LIMITS TEST

PROJECT: PROPOSED CONSTRUCTION OF RESIDENTIAL BUILDING (B+S+11) AT KORATTUR VILLAGE

Bore Hole No: 3
Depth: 10.50

		Liquid limit				Plastic limit	
No. of blows		20	30	40		146	7
Weight of wet soil+ Tare	g	32.00	37.50	36.00		30.00	46.50
Weight of dry soil + Tare	g	28.00	33.30	32.60		27.30	43.00
Weight of Tare	g	22.00	25.70	25.50		19.70	33.10
Weight of water	g	4.00	4.20	3.40		2.70	3.50
Weight of dry Soil	g	6.00	7.60	7.10		7.60	9.90
Moisture content	%	66.67	55.26	47.89		35.53	35.35



Liquid limit : 57 %
Plastic limit : 35 %
Plasticity index : 22 %

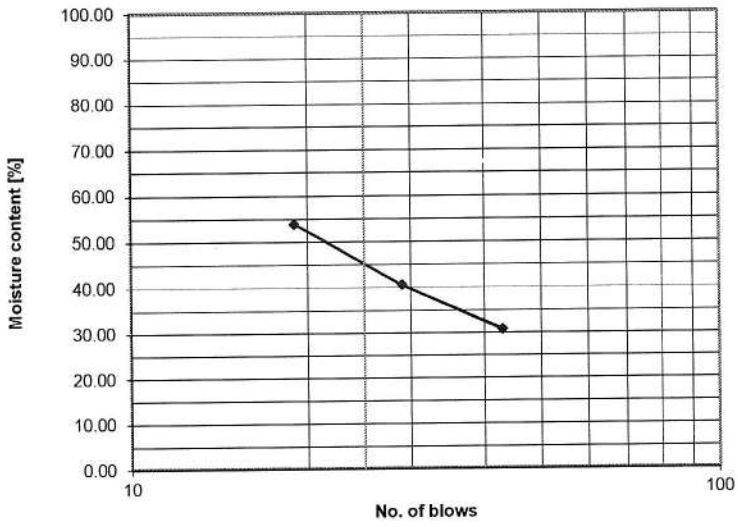
CHENNAI SOIL LAB * CHENNAI-117 *

ATTERBERG LIMITS TEST

PROJECT: PROPOSED CONSTRUCTION OF RESIDENTIAL BUILDING (B+S+11) AT KORATTUR VILLAGE

Bore Hole No: 3
Depth: 12.00

		Liquid limit				Plastic limit	
No. of blows		19	29	43		10	137
Weight of wet soil+ Tare	g	29.50	28.50	30.50		37.50	30.40
Weight of dry soil + Tare	g	26.00	25.50	28.10		35.00	28.00
Weight of Tare	g	19.50	18.10	20.30		27.10	20.30
Weight of water	g	3.50	3.00	2.40		2.50	2.40
Weight of dry Soil	g	6.50	7.40	7.80		7.90	7.70
Moisture content	%	53.85	40.54	30.77		31.65	31.17



Liquid limit : 53 %
Plastic limit : 32 %
Plasticity index : 21 %

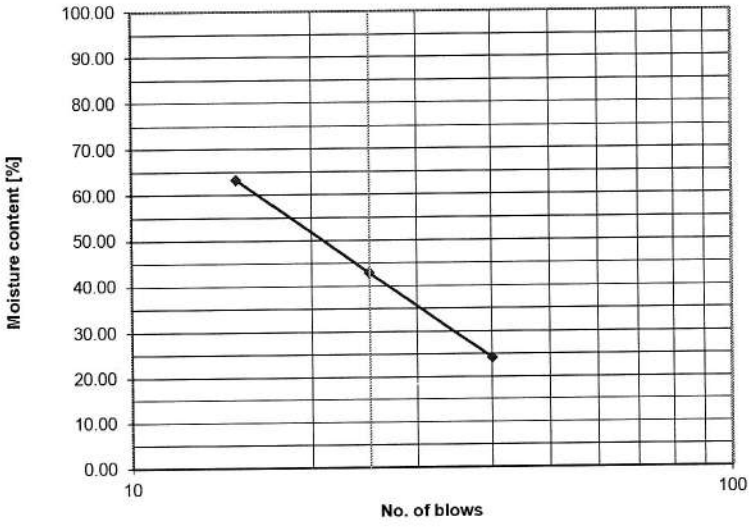
CHENNAI SOIL LAB * CHENNAI-107 *

ATTERBERG LIMITS TEST

PROJECT: PROPOSED CONSTRUCTION OF RESIDENTIAL BUILDING (B+S+11) AT KORATTUR VILLAGE

Bore Hole No: 3
Depth: 13.50

		Liquid limit				Plastic limit	
No. of blows		15	25	40		18	202
Weight of wet soil+ Tare	g	49.00	38.50	44.50		37.50	38.00
Weight of dry soil + Tare	g	44.00	35.50	42.40		35.00	35.75
Weight of Tare	g	36.10	28.50	33.70		26.30	27.90
Weight of water	g	5.00	3.00	2.10		2.50	2.25
Weight of dry Soil	g	7.90	7.00	8.70		8.70	7.85
Moisture content	%	63.29	42.86	24.14		28.74	28.66



Liquid limit : 42 %
Plastic limit : 29 %
Plasticity index : 13 %

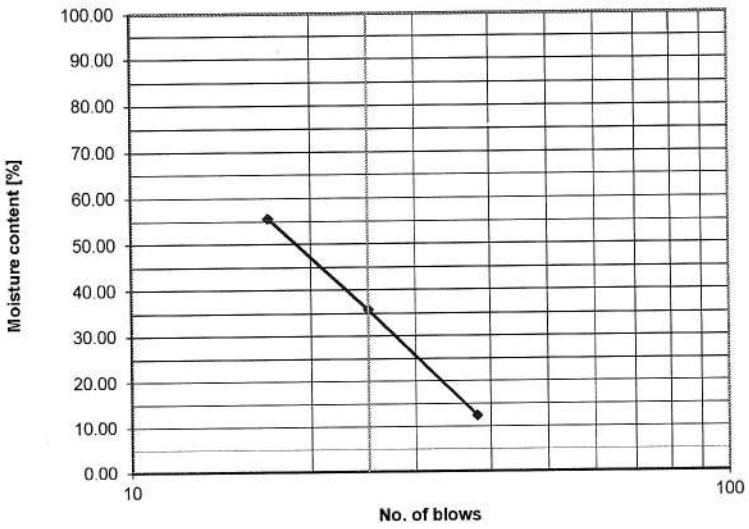
CHENNAI SOIL LAB CHENNAI-101

ATTERBERG LIMITS TEST

PROJECT: PROPOSED CONSTRUCTION OF RESIDENTIAL BUILDING (B+S+11) AT KORATTUR VILLAGE

Bore Hole No: 4
Depth: 3.00

		Liquid limit				Plastic limit	
No. of blows		17	25	38		135	136
Weight of wet soil+ Tare	g	45.00	43.00	44.50		33.50	34.50
Weight of dry soil + Tare	g	41.50	40.00	43.40		30.50	31.20
Weight of Tare	g	35.20	31.60	34.50		20.20	19.90
Weight of water	g	3.50	3.00	1.10		3.00	3.30
Weight of dry Soil	g	6.30	8.40	8.90		10.30	11.30
Moisture content	%	55.56	35.71	12.36		29.13	29.20



Liquid limit : 55 %
Plastic limit : 30 %
Plasticity index : 25 %

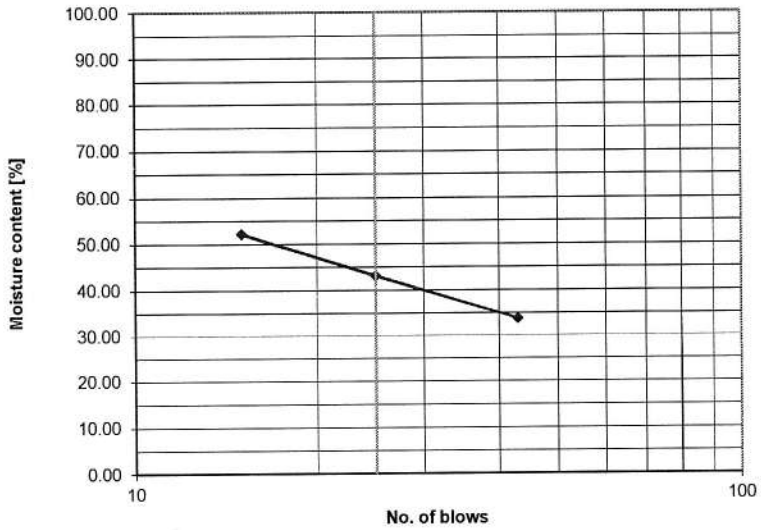
CHENNAI SOIL LAB * CHENNAI-40 *

ATTERBERG LIMITS TEST

PROJECT: PROPOSED CONSTRUCTION OF RESIDENTIAL BUILDING (B+S+11) AT KORATTUR VILLAGE

Bore Hole No: 4
Depth: 4.50

		Liquid limit				Plastic limit	
No. of blows		15	25	43		215	221
Weight of wet soil+ Tare	g	30.50	38.00	38.00		37.50	38.00
Weight of dry soil + Tare	g	26.90	34.90	35.00		35.00	35.50
Weight of Tare	g	20.00	27.70	26.10		25.80	26.20
Weight of water	g	3.60	3.10	3.00		2.50	2.50
Weight of dry Soil	g	6.90	7.20	8.90		9.20	9.30
Moisture content	%	52.17	43.06	33.71		27.17	26.88



Liquid limit : 52 %
Plastic limit : 28 %
Plasticity index : 24 %

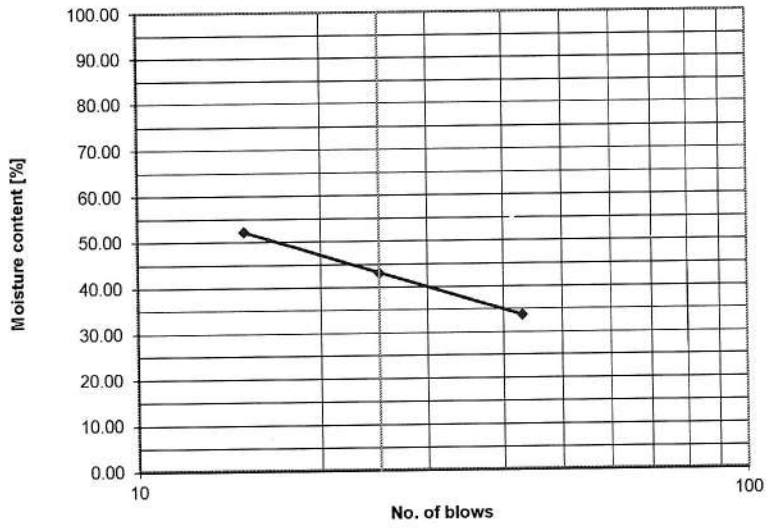
CHENNAI SOIL LAB * CHENNAI-107 *

ATTERBERG LIMITS TEST

PROJECT: PROPOSED CONSTRUCTION OF RESIDENTIAL BUILDING (B+S+11) AT KORATTUR VILLAGE

Bore Hole No: 4
Depth: 6.00

		Liquid limit				Plastic limit	
No. of blows		18	28	50			
Weight of wet soil+ Tare	g	50.12	53.00	63.30		42.00	44.10
Weight of dry soil + Tare	g	43.10	45.10	52.60		39.00	41.50
Weight of Tare	g	31.10	30.80	31.00		31.40	34.50
Weight of water	g	7.02	7.90	10.70		3.00	2.60
Weight of dry Soil	g	12.00	14.30	21.60		7.60	7.00
Moisture content	%	58.50	55.24	49.54		39.47	37.14



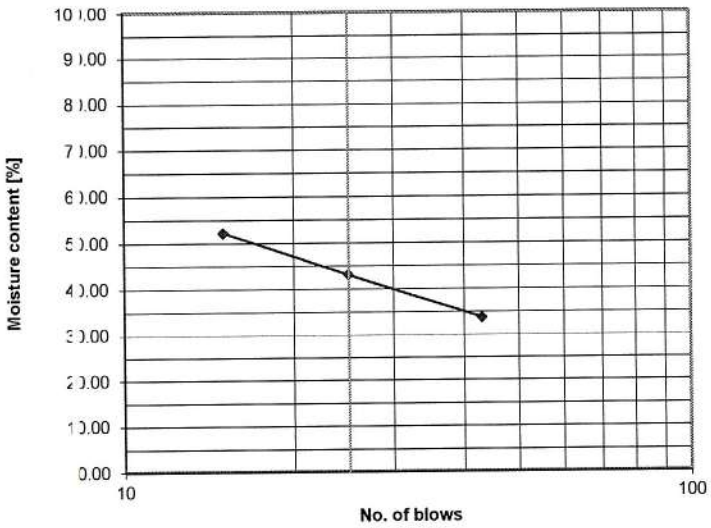
Liquid limit : 58 %
Plastic limit : 39 %
Plasticity index : 19 %

ATTERBERG LIMITS TEST

PROJECT: PROPOSED CONSTRUCTION OF RESIDENTIAL BUILDING (B+S+11) AT KORATTUR VILLAGE

Bore Hole No: 4
Depth: 7.50

		Liquid limit				Plastic limit	
No. of blows		17	39	55			
Weight of wet soil+ Tare	g	58.90	55.50	53.00		43.00	42.60
Weight of dry soil + Tare	g	47.40	46.60	46.70		40.40	40.20
Weight of Tare	g	30.00	28.50	32.00		31.60	32.00
Weight of water	g	11.50	8.90	6.30		2.60	2.40
Weight of dry Soil	g	17.40	18.10	14.70		8.80	8.20
Moisture content	%	66.09	49.17	42.86		29.55	29.27



Liquid limit : 57 %
Plastic limit : 29 %
Plasticity index : 28 %

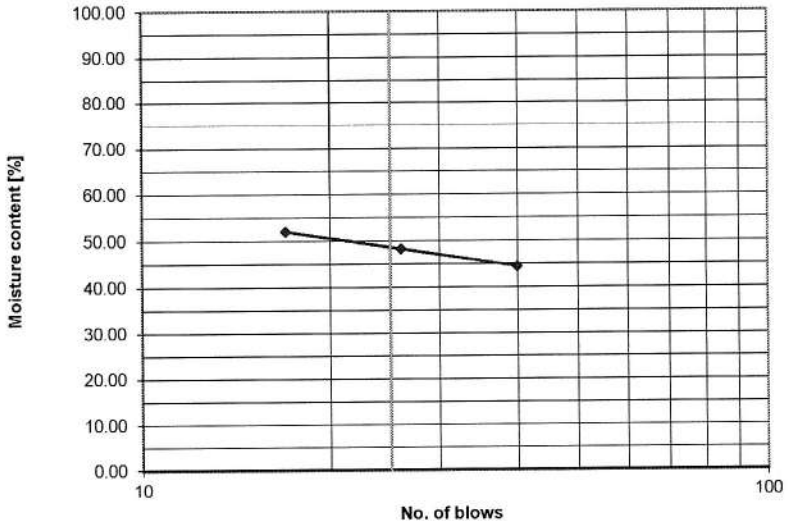
CHENNAI SOIL LAB CHENNAI-157

ATTERBERG LIMITS TEST

PROJECT: PROPOSED CONSTRUCTION OF RESIDENTIAL BUILDING (B+S+11) AT KORATTUR VILLAGE

Bore Hole No: 1
Depth: 3

		Liquid limit				Plastic limit	
No. of blows		17	26	40		142	149
Weight of wet soil+ Tare	g	38.00	37.50	43.30		32.50	32.00
Weight of dry soil + Tare	g	34.00	33.60	39.70		29.95	29.70
Weight of Tare	g	26.30	25.50	31.60		20.30	21.10
Weight of water	g	4.00	3.90	3.60		2.55	2.30
Weight of dry Soil	g	7.70	8.10	8.10		9.65	8.60
Moisture content	%	51.95	48.15	44.44		26.42	26.74



Liquid limit : 52 %
Plastic limit : 27 %
Plasticity index : 25 %

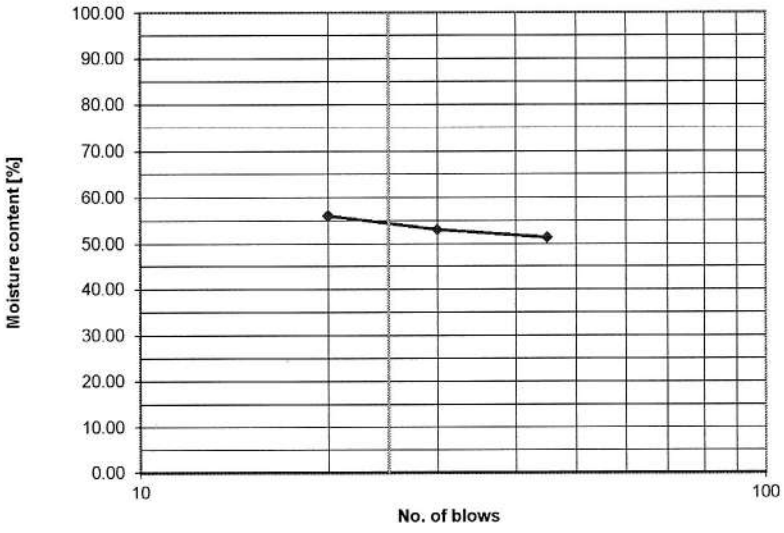
CHENNAI SOIL LAB * CHENNAI-187 *

ATTERBERG LIMITS TEST

PROJECT: PROPOSED CONSTRUCTION OF RESIDENTIAL BUILDING (B+S+11) AT KORATTUR VILLAGE

Bore Hole No: 1
Depth: 4.5

		Liquid limit				Plastic limit	
No. of blows		20	30	45		241	136
Weight of wet soil+ Tare	g	38.00	44.00	37.10		37.00	30.00
Weight of dry soil + Tare	g	34.30	40.50	33.30		34.20	27.50
Weight of Tare	g	27.70	33.90	25.90		25.50	19.90
Weight of water	g	3.70	3.50	3.80		2.80	2.50
Weight of dry Soil	g	6.60	6.60	7.40		8.70	7.60
Moisture content	%	56.06	53.03	51.35		32.18	32.89



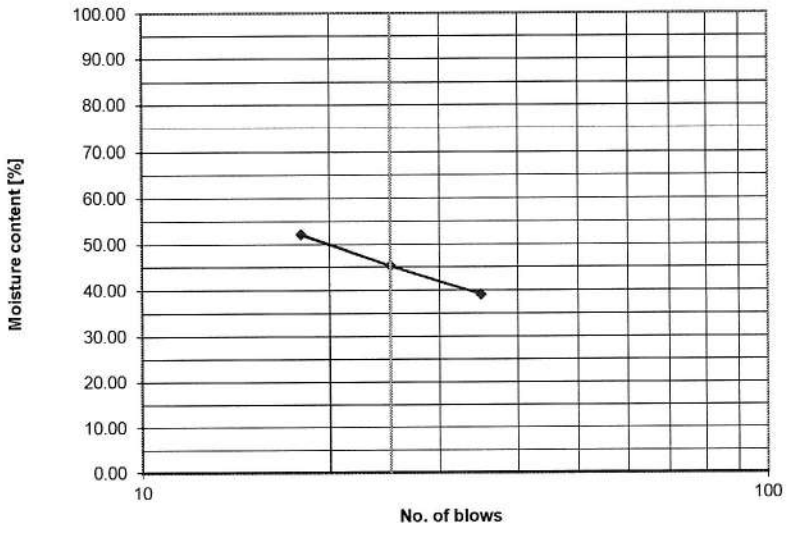
Liquid limit : 53 %
Plastic limit : 32 %
Plasticity index : 21 %

ATTERBERG LIMITS TEST

PROJECT: PROPOSED CONSTRUCTION OF RESIDENTIAL BUILDING (B+S+11) AT KORATTUR VILLAGE

Bore Hole No: 1
Depth: 6

		Liquid limit				Plastic limit	
No. of blows		18	25	35		224	248
Weight of wet soil+ Tare	g	47.50	42.50	43.00		37.00	38.50
Weight of dry soil + Tare	g	42.50	39.10	39.60		34.00	35.00
Weight of Tare	g	32.90	31.60	30.90		26.40	26.10
Weight of water	g	5.00	3.40	3.40		3.00	3.50
Weight of dry Soil	g	9.60	7.50	8.70		7.60	8.90
Moisture content	%	52.08	45.33	39.08		39.47	39.33



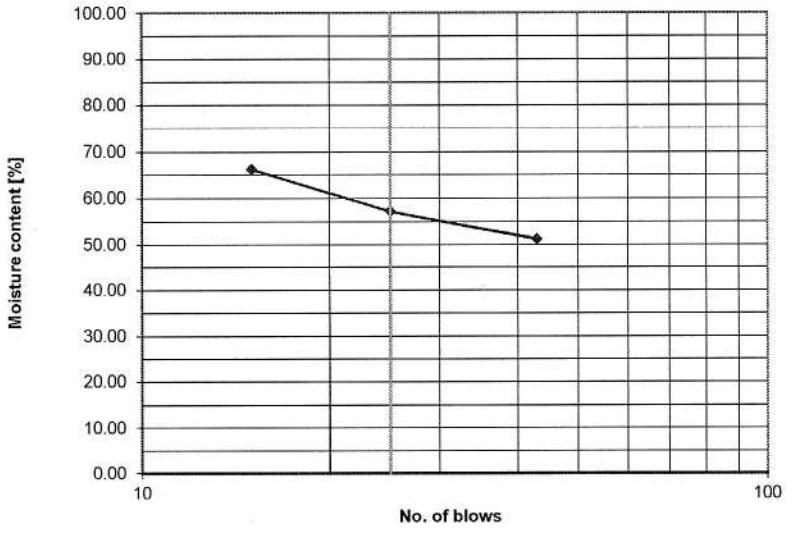
Liquid limit : 52 %
Plastic limit : 40 %
Plasticity index : 12 %

ATTERBERG LIMITS TEST

PROJECT: PROPOSED CONSTRUCTION OF RESIDENTIAL BUILDING (B+S+11) AT KORATTUR VILLAGE

Bore Hole No: 1
Depth: 7.5

		Liquid limit				Plastic limit	
No. of blows		15	25	43		255	147
Weight of wet soil+ Tare	g	44.00	32.00	46.50		36.50	30.50
Weight of dry soil + Tare	g	39.50	28.00	42.30		34.00	27.60
Weight of Tare	g	32.70	21.00	34.10		26.80	19.30
Weight of water	g	4.50	4.00	4.20		2.50	2.90
Weight of dry Soil	g	6.80	7.00	8.20		7.20	8.30
Moisture content	%	66.18	57.14	51.22		34.72	34.94



Liquid limit : 58 %
Plastic limit : 35 %
Plasticity index : 23 %

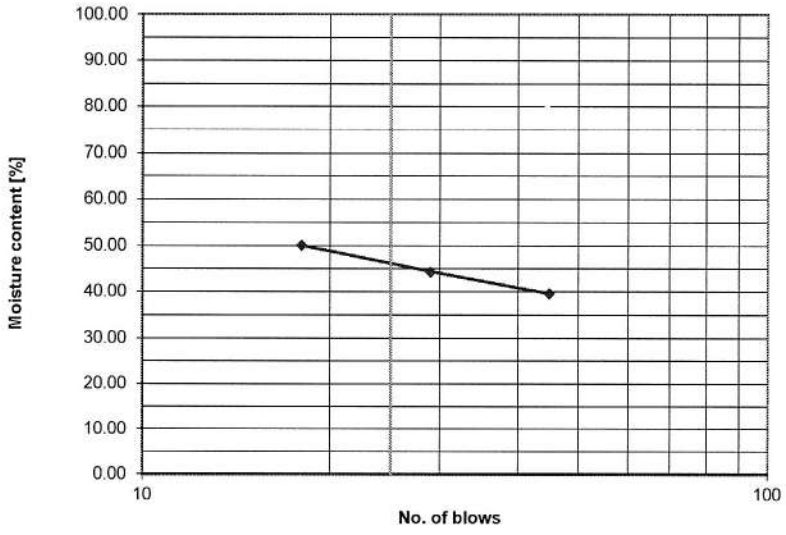
CHENNAI SOIL LAB * CHENNAI-107 *

ATTERBERG LIMITS TEST

PROJECT: PROPOSED CONSTRUCTION OF RESIDENTIAL BUILDING (B+S+11) AT KORATTUR VILLAGE

Bore Hole No: 1
Depth: 9

		Liquid limit				Plastic limit	
No. of blows		18	29	45		122	43
Weight of wet soil+ Tare	g	47.00	38.00	45.00		31.50	39.00
Weight of dry soil + Tare	g	42.80	34.50	41.40		29.00	35.80
Weight of Tare	g	34.40	26.60	32.30		21.20	26.30
Weight of water	g	4.20	3.50	3.60		2.50	3.20
Weight of dry Soil	g	8.40	7.90	9.10		7.80	9.50
Moisture content	%	50.00	44.30	39.56		32.05	33.68



Liquid limit : 50 %
Plastic limit : 32 %
Plasticity index : 18 %

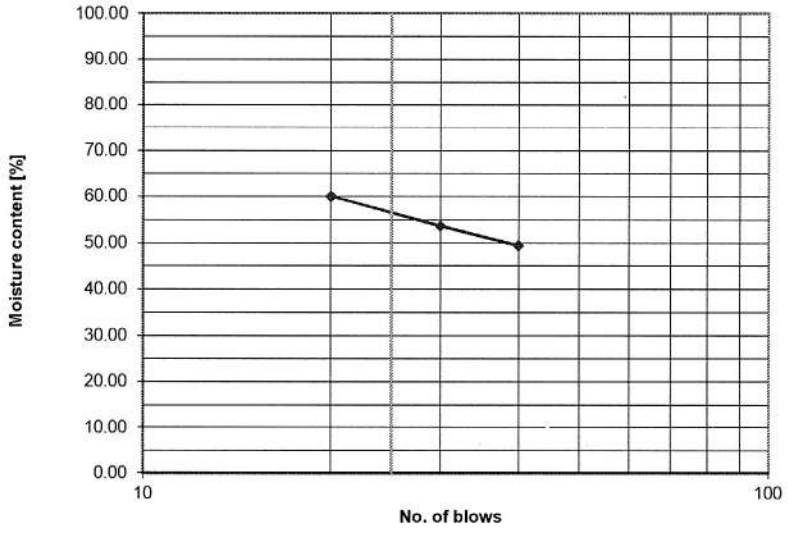
CHENNAI SOIL LAB * CHENNAI *

ATTERBERG LIMITS TEST

PROJECT: PROPOSED CONSTRUCTION OF RESIDENTIAL BUILDING (B+S+11) AT KORATTUR VILLAGE

Bore Hole No: 1
Depth: 10.5

		Liquid limit				Plastic limit	
No. of blows		20	30	40		123	145
Weight of wet soil+ Tare	g	37.20	47.50	37.00		33.00	33.00
Weight of dry soil + Tare	g	33.30	43.10	33.30		30.00	30.50
Weight of Tare	g	26.80	34.90	25.80		19.50	22.00
Weight of water	g	3.90	4.40	3.70		3.00	2.50
Weight of dry Soil	g	6.50	8.20	7.50		10.50	8.50
Moisture content	%	60.00	53.66	49.33		28.57	29.41



Liquid limit : 54 %
Plastic limit : 29 %
Plasticity index : 25 %

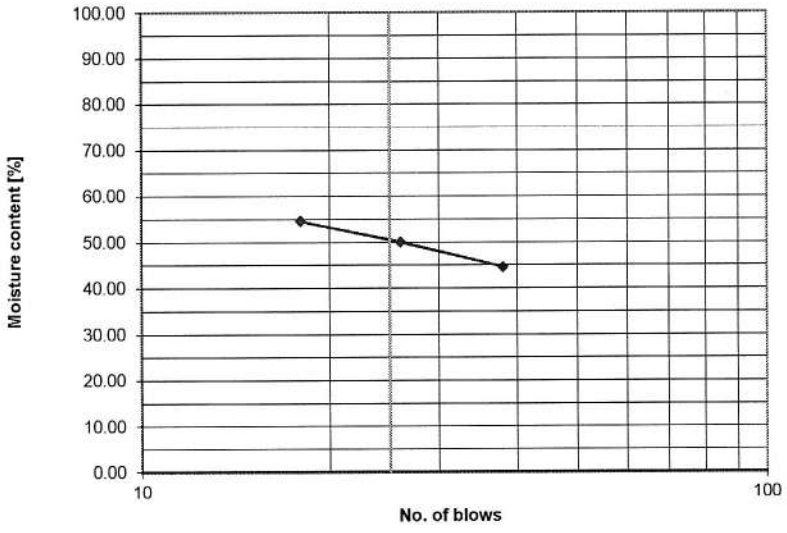
CHENNAI SOIL LAB * CHENNAI-101 *

ATTERBERG LIMITS TEST

PROJECT: PROPOSED CONSTRUCTION OF RESIDENTIAL BUILDING (B+S+11) AT KORATTUR VILLAGE

Bore Hole No: 1
Depth: 12

		Liquid limit				Plastic limit	
No. of blows		18	26	38		134	139
Weight of wet soil+ Tare	g	31.50	30.50	31.00		34.50	32.50
Weight of dry soil + Tare	g	27.90	27.00	27.70		32.00	30.00
Weight of Tare	g	21.30	20.00	20.30		22.80	21.00
Weight of water	g	3.60	3.50	3.30		2.50	2.50
Weight of dry Soil	g	6.60	7.00	7.40		9.20	9.00
Moisture content	%	54.55	50.00	44.59		27.17	27.78



Liquid limit : 55 %
Plastic limit : 28 %
Plasticity index : 27 %

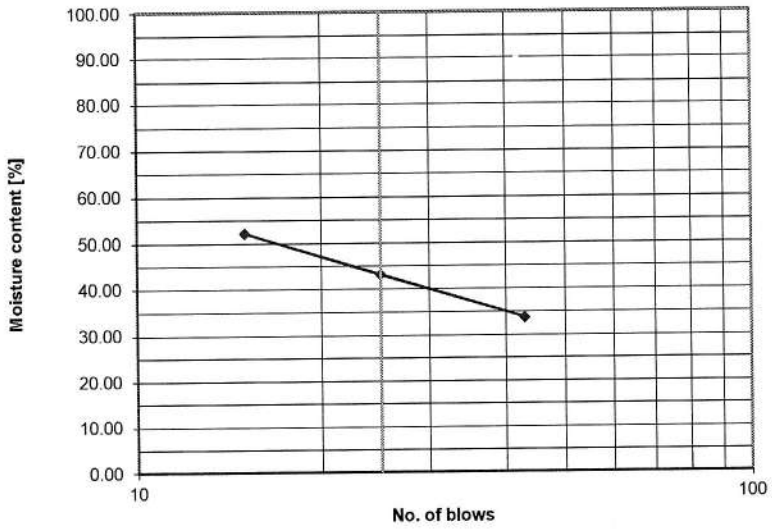
CHENNAI SOIL LAB

ATTERBERG LIMITS TEST

PROJECT: PROPOSED CONSTRUCTION OF RESIDENTIAL BUILDING (B+S+11) AT KORATTUR VILLAGE

Bore Hole No: 4
Depth: 9.00

		Liquid limit				Plastic limit	
No. of blows		18	39	60			
Weight of wet soil+ Tare	g	51.70	50.90	55.20		43.60	42.50
Weight of dry soil + Tare	g	43.20	43.40	47.30		41.50	39.80
Weight of Tare	g	30.70	31.40	33.80		32.00	30.80
Weight of water	g	8.50	7.50	7.90		2.70	2.70
Weight of dry Soil	g	12.50	12.00	13.50		8.90	9.00
Moisture content	%	68.00	62.50	58.52		30.34	30.00



Liquid limit : 62 %
Plastic limit : 32 %
Plasticity index : 30 %

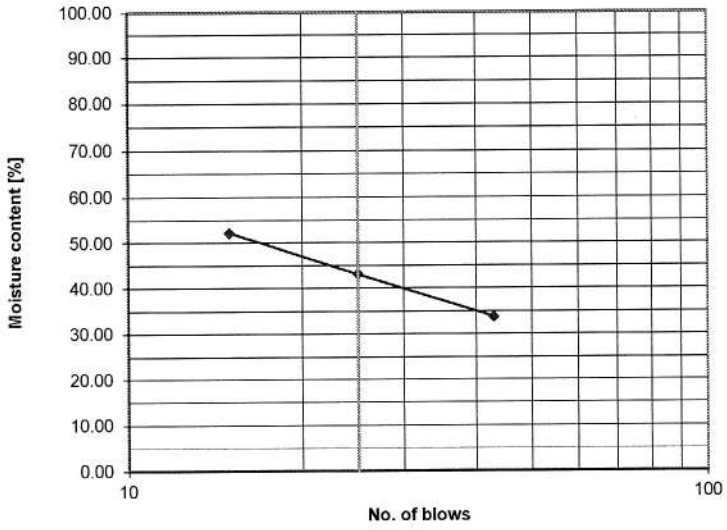
CHENNAI SOIL LAB CHENNAI-107

ATTERBERG LIMITS TEST

PROJECT: PROPOSED CONSTRUCTION OF RESIDENTIAL BUILDING (B+S+11) AT KORATTUR VILLAGE

Bore Hole No: 4
Depth: 10.50

		Liquid limit				Plastic limit	
No. of blows		23	31	51			
Weight of wet soil+ Tare	g	55.40	51.50	52.25		43.60	42.35
Weight of dry soil + Tare	g	48.30	45.20	46.30		40.50	39.70
Weight of Tare	g	35.20	33.10	34.00		30.70	31.40
Weight of water	g	7.10	6.30	5.95		3.10	2.65
Weight of dry Soil	g	13.10	12.10	12.30		9.80	8.30
Moisture content	%	54.20	52.07	48.37		31.63	31.93



Liquid limit : 52 %
Plastic limit : 32 %
Plasticity index : 20 %

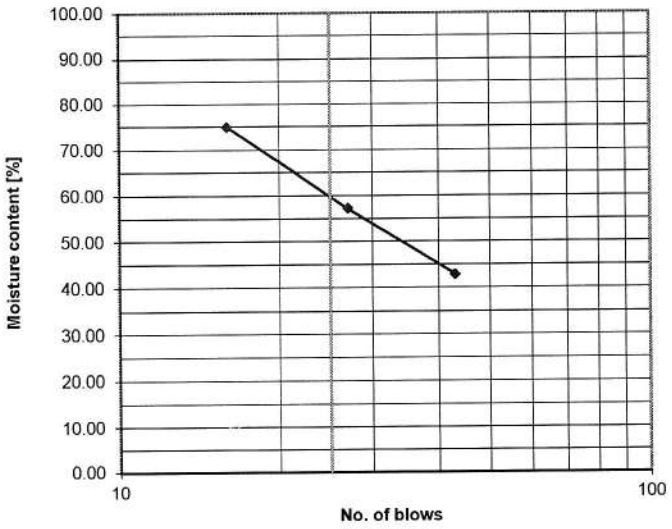
CHENNAI SOIL LAB
CHENNAI-167

ATTERBERG LIMITS TEST

PROJECT: PROPOSED CONSTRUCTION OF RESIDENTIAL BUILDING (B+S+11) AT KORATTUR VILLAGE

Bore Hole No: 4
Depth: 12.00

		Liquid limit				Plastic limit	
No. of blows		16	27	43			
Weight of wet soil+ Tare	g	41.50	36.00	34.50		43.00	42.50
Weight of dry soil + Tare	g	37.00	32.00	31.50		40.40	40.10
Weight of Tare	g	31.00	25.00	24.50		31.50	32.00
Weight of water	g	4.50	4.00	3.00		2.60	2.40
Weight of dry Soil	g	6.00	7.00	7.00		8.90	8.10
Moisture content	%	75.00	57.14	42.86		29.21	29.63



Liquid limit : 57 %
Plastic limit : 29 %
Plasticity index : 28 %

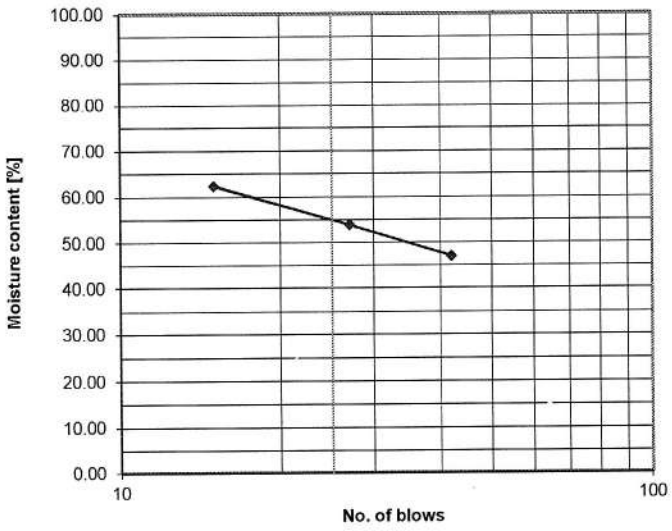
CHENNAI SOIL LAB * CHENNAI-107 *

ATTERBERG LIMITS TEST

PROJECT: PROPOSED CONSTRUCTION OF RESIDENTIAL BUILDING (B+S+11) AT KORATTUR VILLAGE

Bore Hole No: 4
Depth: 13.50

		Liquid limit				Plastic limit	
No. of blows		15	27	42			
Weight of wet soil+ Tare	g	39.50	35.00	38.50		35.00	37.50
Weight of dry soil + Tare	g	34.70	31.50	35.30		32.80	35.10
Weight of Tare	g	27.00	25.00	28.50		25.00	26.70
Weight of water	g	4.80	3.50	3.20		2.20	2.40
Weight of dry Soil	g	7.70	6.50	6.80		7.80	8.40
Moisture content	%	62.34	53.85	47.06		28.21	28.57



Liquid limit : 53 %
Plastic limit : 29 %
Plasticity index : 24 %

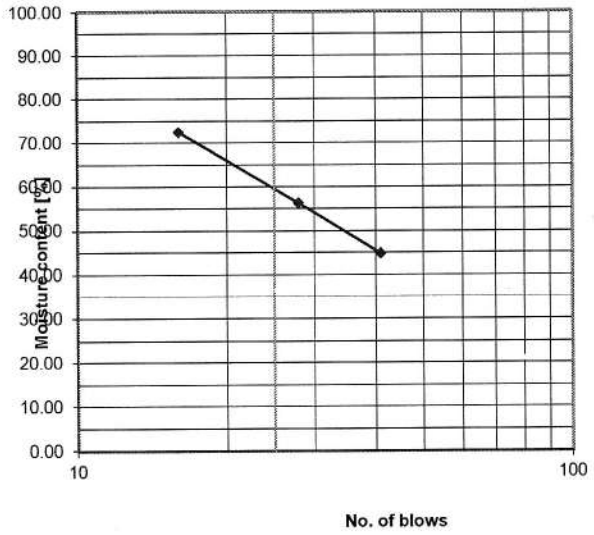
CHENNAI SOIL LAB * CHENNAI-107 *

ATTERBERG LIMITS TEST

PROJECT: PROPOSED CONSTRUCTION OF RESIDENTIAL BUILDING (B+S+11) AT KORATTUR VILLAGE

Bore Hole No: 5
Depth: 3.00

		Liquid limit				Plastic limit	
No. of blows		16	28	41			
Weight of wet soil+ Tare	g	44.50	44.00	45.00		37.00	36.00
Weight of dry soil + Tare	g	40.30	40.40	41.60		34.50	33.70
Weight of Tare	g	34.50	34.00	34.00		26.10	25.90
Weight of water	g	4.20	3.60	3.40		2.50	2.30
Weight of dry Soil	g	5.80	6.40	7.60		8.40	7.80
Moisture content	%	72.41	56.25	44.74		29.76	29.49



Liquid limit : 57 %
Plastic limit : 30 %
Plasticity index : 27 %

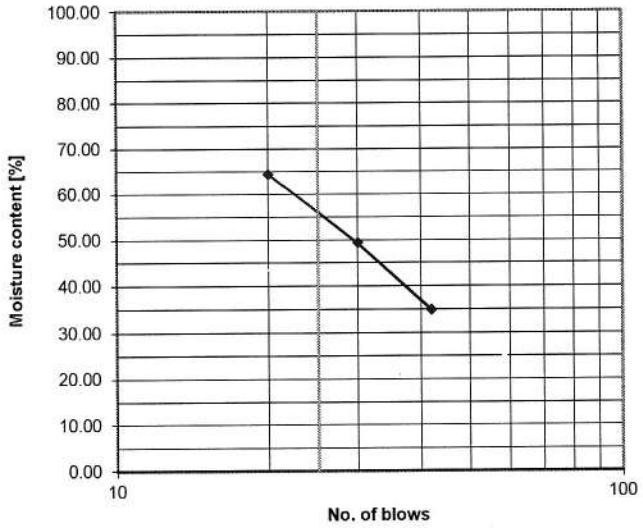
CHENNAI SOIL LAB * CHENNAI-107 *

ATTERBERG LIMITS TEST

PROJECT: PROPOSED CONSTRUCTION OF RESIDENTIAL BUILDING (B+S+11) AT KORATTUR VILLAGE

Bore Hole No: 5
Depth: 4.5

		Liquid limit				Plastic limit	
No. of blows		20	30	42			
Weight of wet soil+ Tare	g	36.00	36.00	38.00		42.00	45.50
Weight of dry soil + Tare	g	31.30	32.20	34.90		39.80	42.90
Weight of Tare	g	24.00	24.50	26.00		32.00	33.70
Weight of water	g	4.70	3.80	3.10		2.20	2.60
Weight of dry Soil	g	7.30	7.70	8.90		7.80	9.20
Moisture content	%	64.38	49.35	34.83		28.21	28.26



Liquid limit : 50 %
Plastic limit : 28 %
Plasticity index : 22 %

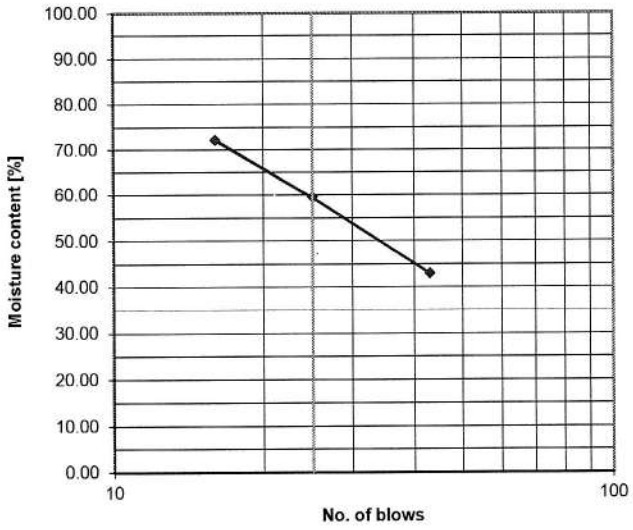
CHENNAI SOIL LAB * CHENNAI-97 *

ATTERBERG LIMITS TEST

PROJECT: PROPOSED CONSTRUCTION OF RESIDENTIAL BUILDING (B+S+11) AT KORATTUR VILLAGE

Bore Hole No: 5
Depth: 6.00

		Liquid limit				Plastic limit	
No. of blows		16	25	43			
Weight of wet soil+ Tare	g	39.00	36.50	33.00		37.00	38.00
Weight of dry soil + Tare	g	34.60	32.40	30.00		34.60	35.50
Weight of Tare	g	28.50	25.50	23.00		26.50	27.00
Weight of water	g	4.40	4.10	3.00		2.40	2.50
Weight of dry Soil	g	6.10	6.90	7.00		8.10	8.50
Moisture content	%	72.13	59.42	42.86		29.63	29.41



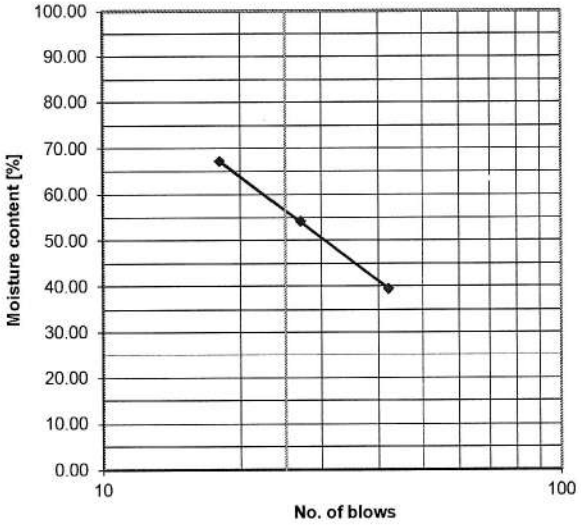
Liquid limit : 59 %
Plastic limit : 30 %
Plasticity index : 29 %

ATTERBERG LIMITS TEST

PROJECT: PROPOSED CONSTRUCTION OF RESIDENTIAL BUILDING (B+S+11) AT KORATTUR VILLAGE

Bore Hole No: 5
Depth: 7.50

		Liquid limit				Plastic limit	
No. of blows		18	27	42			
Weight of wet soil+ Tare	g	31.50	44.50	41.50		38.50	29.00
Weight of dry soil + Tare	g	27.40	40.50	38.70		36.20	26.90
Weight of Tare	g	21.30	33.10	31.60		28.00	19.40
Weight of water	g	4.10	4.00	2.80		2.30	2.10
Weight of dry Soil	g	6.10	7.40	7.10		8.20	7.50
Moisture content	%	67.21	54.05	39.44		28.05	28.00



Liquid limit : 54 %
Plastic limit : 28 %
Plasticity index : 26 %

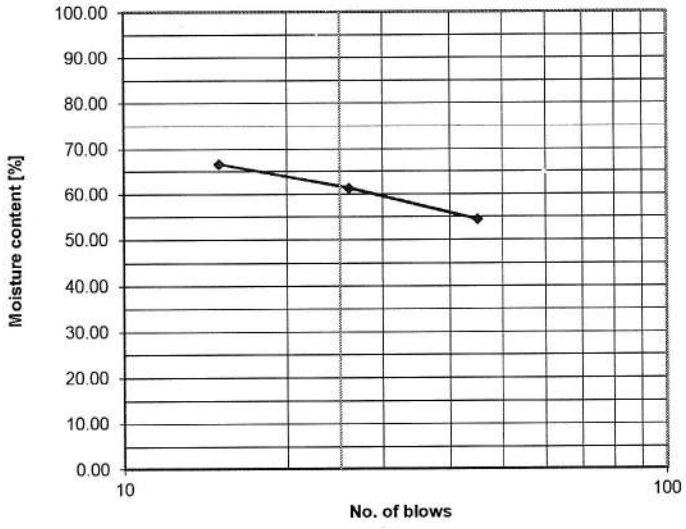
CHENNAI SOIL LAB * CHENNAI-107 *

ATTERBERG LIMITS TEST

PROJECT: PROPOSED CONSTRUCTION OF RESIDENTIAL BUILDING (B+S+11) AT KORATTUR VILLAGE

Bore Hole No: 5
Depth: 9.00

		Liquid limit				Plastic limit	
No. of blows		15	26	45			
Weight of wet soil+ Tare	g	36.00	37.50	38.50		35.00	36.50
Weight of dry soil + Tare	g	32.00	33.70	34.80		32.60	33.80
Weight of Tare	g	26.00	27.50	28.00		24.90	25.10
Weight of water	g	4.00	3.80	3.70		2.40	2.70
Weight of dry Soil	g	6.00	6.20	6.80		7.70	8.70
Moisture content	%	66.67	61.29	54.41		31.17	31.03



Liquid limit : 55 %
Plastic limit : 31 %
Plasticity index : 24 %

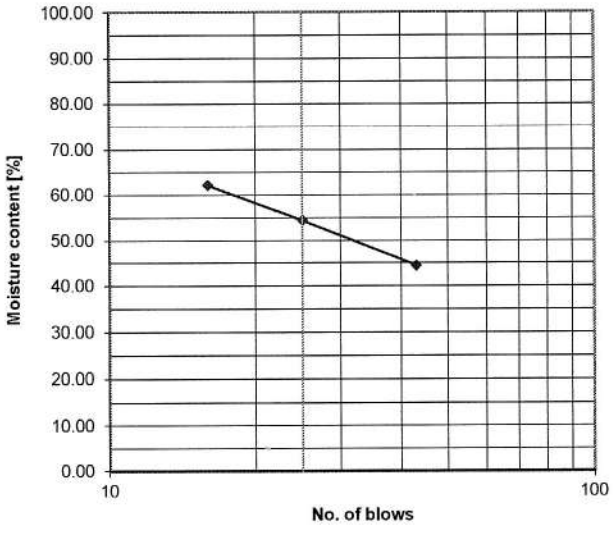
CHENNAI SOIL LAB * CHENNAI-101 *

ATTERBERG LIMITS TEST

PROJECT: PROPOSED CONSTRUCTION OF RESIDENTIAL BUILDING (B+S+11) AT KORATTUR VILLAGE

Bore Hole No: 5
Depth: 10.50

		Liquid limit				Plastic limit	
No. of blows		16	25	43			
Weight of wet soil+ Tare	g	43.00	36.50	37.00		43.00	37.50
Weight of dry soil + Tare	g	38.90	32.80	33.80		40.30	34.80
Weight of Tare	g	32.30	26.00	26.60		32.00	26.50
Weight of water	g	4.10	3.70	3.20		2.70	2.70
Weight of dry Soil	g	6.60	6.80	7.20		8.30	8.30
Moisture content	%	62.12	54.41	44.44		32.53	32.53



Liquid limit : 55 %
Plastic limit : 32 %
Plasticity index : 23 %

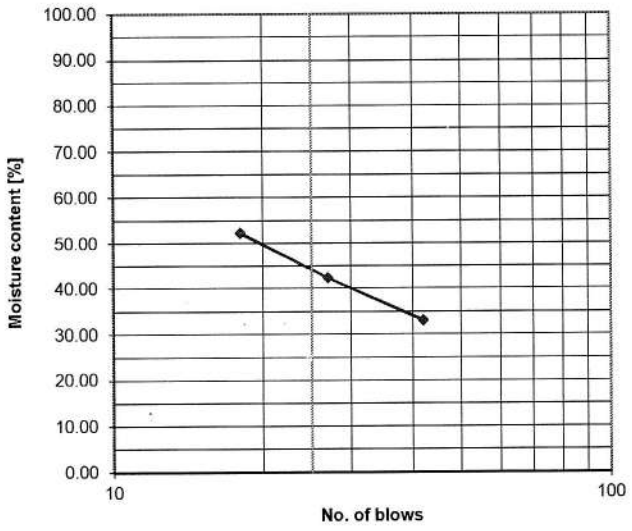
CHENNAI SOIL LAB * CHENNAI-107 *

ATTERBERG LIMITS TEST

PROJECT: PROPOSED CONSTRUCTION OF RESIDENTIAL BUILDING (B+S+11) AT KORATTUR VILLAGE

Bore Hole No: 5
Depth: 12.00

		Liquid limit				Plastic limit	
No. of blows		18	27	42			
Weight of wet soil+ Tare	g	36.50	36.00	43.00		30.50	30.00
Weight of dry soil + Tare	g	33.00	33.00	40.50		28.00	27.50
Weight of Tare	g	26.30	25.90	32.90		20.20	19.70
Weight of water	g	3.50	3.00	2.50		2.50	2.50
Weight of dry Soil	g	6.70	7.10	7.60		7.80	7.80
Moisture content	%	52.24	42.25	32.89		32.05	32.05



Liquid limit : 53 %
Plastic limit : 33 %
Plasticity index : 20 %

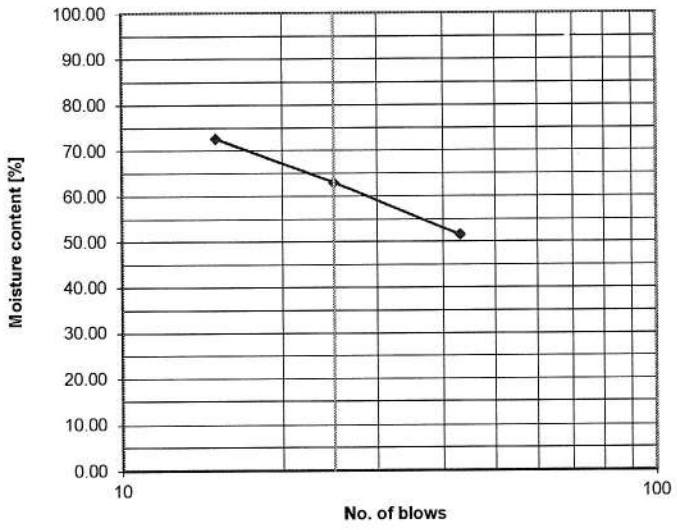
CHENNAI SOIL LAB * CHENNAI-101 *

ATTERBERG LIMITS TEST

PROJECT: PROPOSED CONSTRUCTION OF RESIDENTIAL BUILDING (B+S+11) AT KORATTUR VILLAGE

Bore Hole No: 5
Depth: 13.50

		Liquid limit				Plastic limit	
No. of blows		15	25	43			
Weight of wet soil+ Tare	g	40.60	44.50	42.50		36.00	38.00
Weight of dry soil + Tare	g	36.10	40.60	38.90		33.40	35.50
Weight of Tare	g	29.90	34.40	31.90		25.30	27.80
Weight of water	g	4.50	3.90	3.60		2.60	2.50
Weight of dry Soil	g	6.20	6.20	7.00		8.10	7.70
Moisture content	%	72.58	62.90	51.43		32.10	32.47

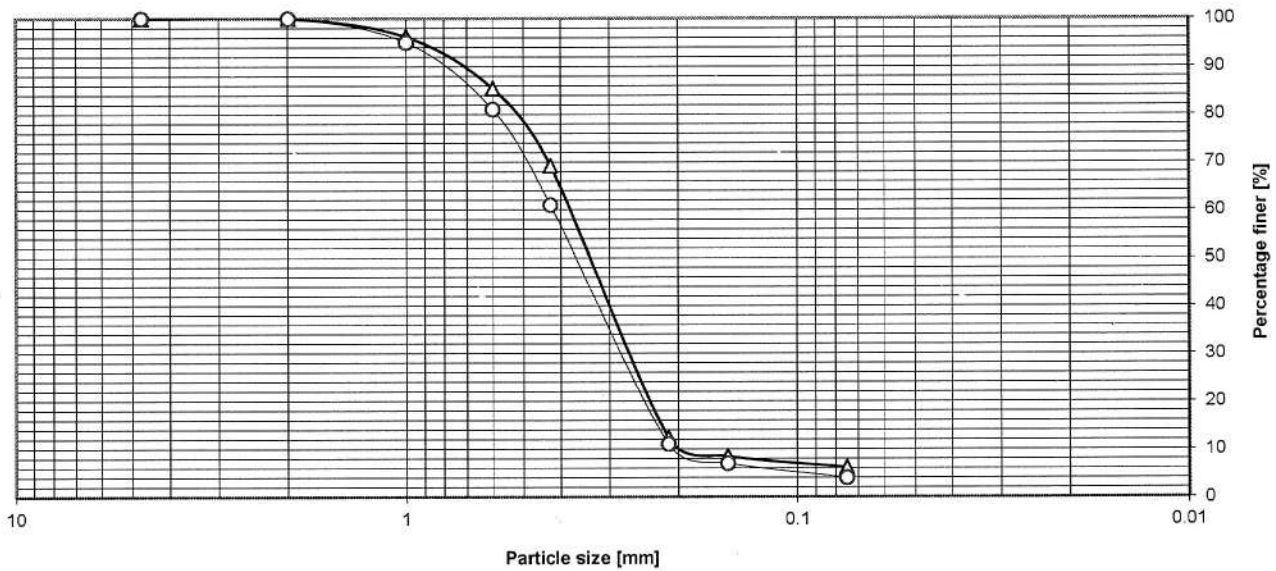


Liquid limit : 51 %
Plastic limit : 32 %
Plasticity index : 19 %

CHENNAI SOIL LAB * CHENNAI-107 *

GRAIN SIZE DISTRIBUTION CHART

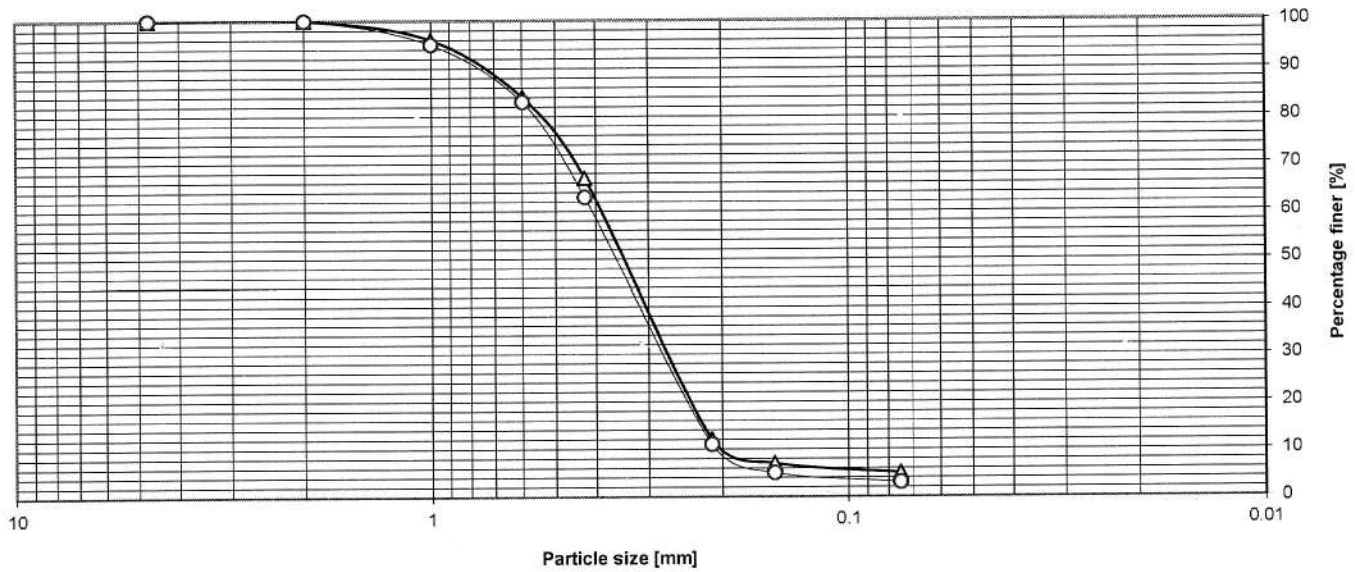
PROJECT: PROPOSED CONSTRUCTION OF RESIDENTIAL BUILDING (B+S+11) AT KORATTUR VILLAGE



		Coarse	Medium	Fine	Coarse	Medium	Fine	Coarse	Medium	Fine	
Boulders	COBBLES	Gravel			Sand			Silt			CLAY
		>4.75mm			2.00mm to 0.075mm			0.075mm to 0.02mm			<0.02mm
BH-P1	Depth:15.00m △	0			0	31	63	6			
BH-P1	Depth:16.50m ○	0			0	39	57	4			

GRAIN SIZE DISTRIBUTION CHART

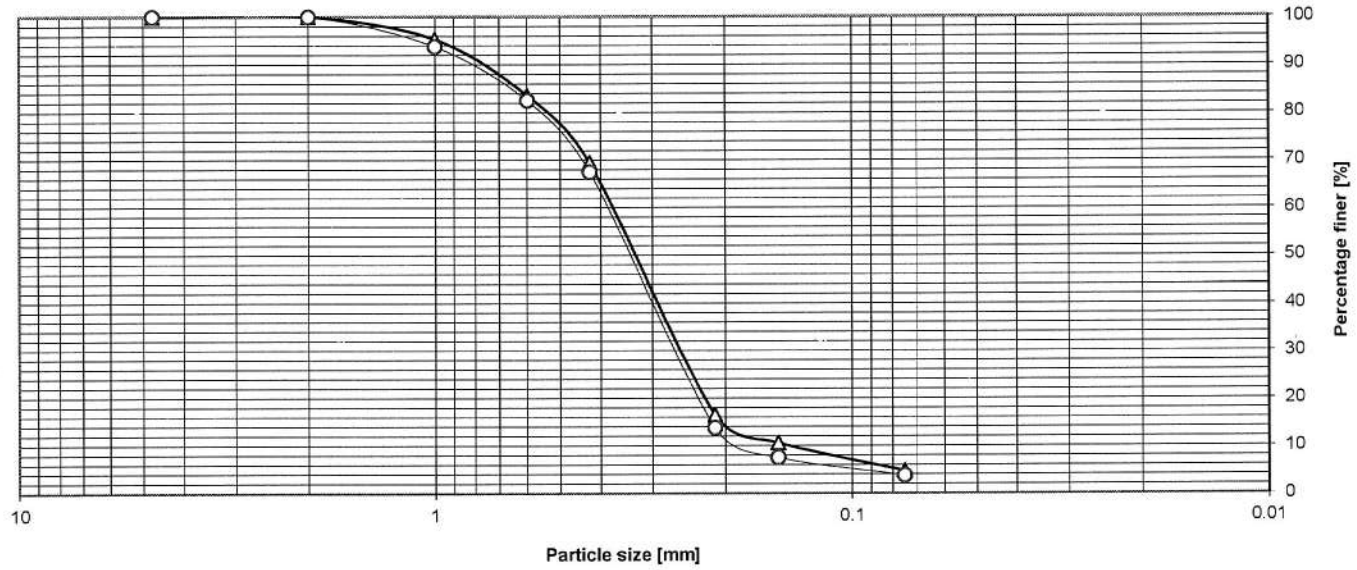
PROJECT: PROPOSED CONSTRUCTION OF RESIDENTIAL BUILDING (B+S+11) AT KORATTUR VILLAGE



		Coarse	Medium	Fine	Coarse	Medium	Fine	Coarse	Medium	Fine	
Boulders	COBBLES	Gravel			Sand			Silt			CLAY
		>4.75mm			2.00mm to 0.075mm			0.075mm to 0.02mm			<0.02mm
BH-P1	Depth:18.00m	△	0		0	33	62	5			
BH-P1	Depth:20.00m	○	0		0	37	60	3			

GRAIN SIZE DISTRIBUTION CHART

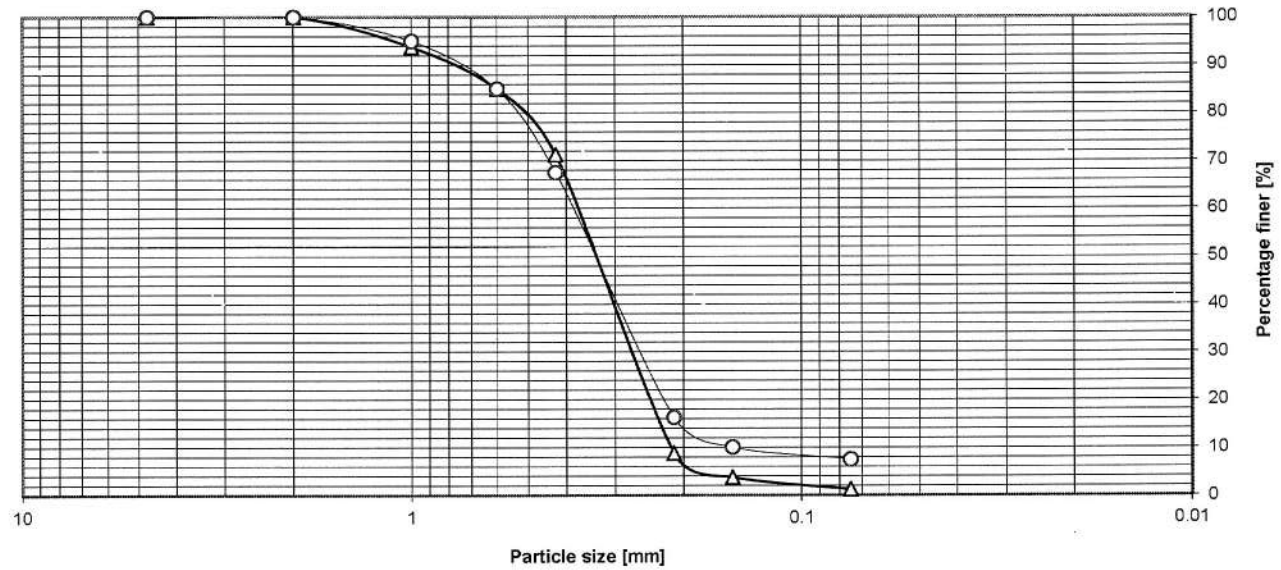
PROJECT: PROPOSED CONSTRUCTION OF RESIDENTIAL BUILDING (B+S+11) AT KORATTUR VILLAGE



		Coarse	Medium	Fine	Coarse	Medium	Fine	Coarse	Medium	Fine	
Boulders	COBBLES	Gravel			Sand			Silt			CLAY
		>4.75mm			2.00mm to 0.075mm			0.075mm to 0.02mm			<0.02mm
BH-P2	Depth:15.00m	△	0		0	31	65	5			
BH-P2	Depth:16.50m	○	0		0	33	64	4			

GRAIN SIZE DISTRIBUTION CHART

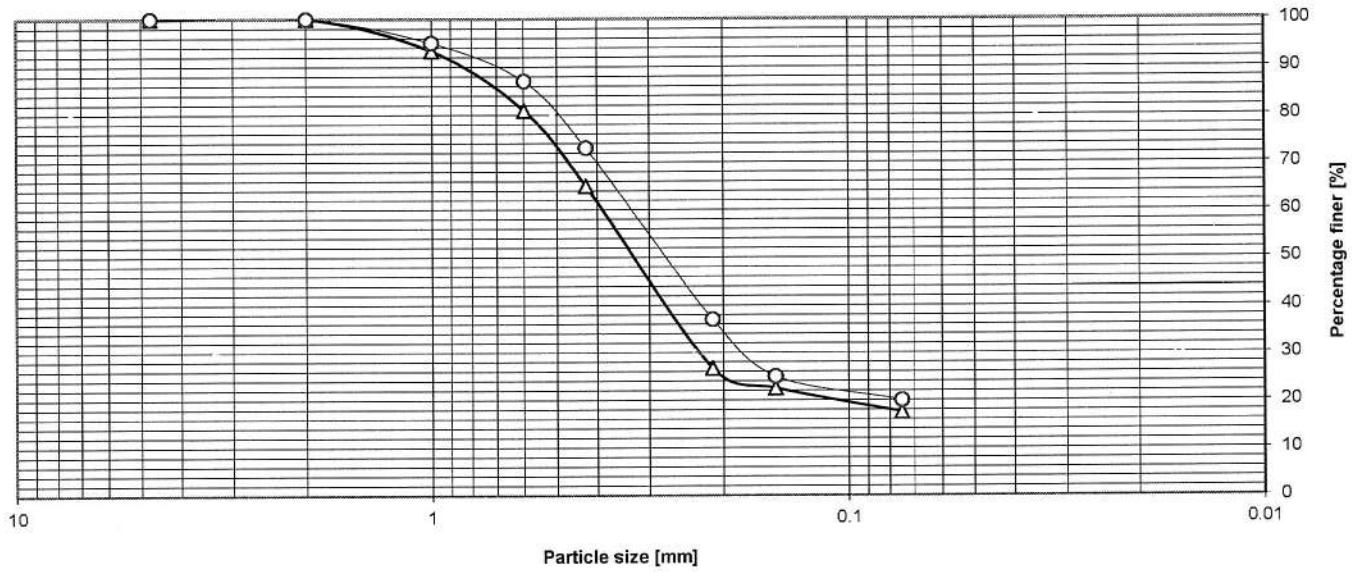
PROJECT: PROPOSED CONSTRUCTION OF RESIDENTIAL BUILDING (B+S+11) AT KORATTUR VILLAGE



		Coarse	Medium	Fine	Coarse	Medium	Fine	Coarse	Medium	Fine	
Boulders	COBBLES	Gravel			Sand			Silt			CLAY
		>4.75mm			2.00mm to 0.075mm			0.075mm to 0.02mm			<0.02mm
BH-P2	Depth:18.00m △	0			0	29	70	1			
BH-P2	Depth:20.00m ○	0			0	33	60	8			

GRAIN SIZE DISTRIBUTION CHART

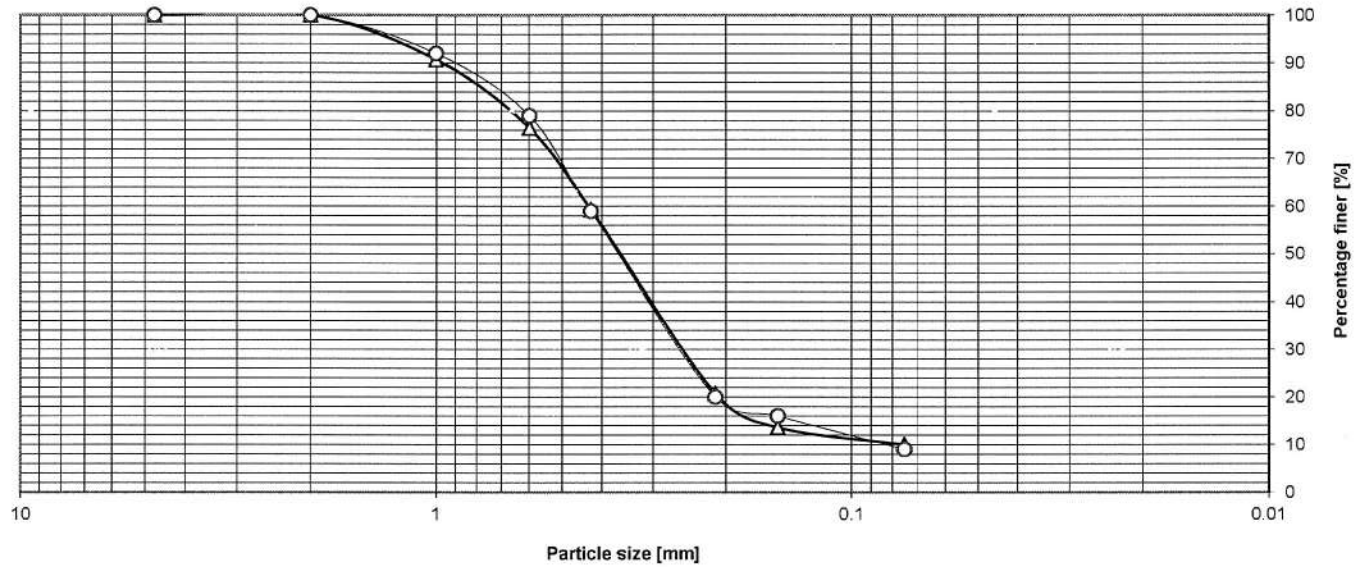
PROJECT: PROPOSED CONSTRUCTION OF RESIDENTIAL BUILDING (B+S+11) AT KORATTUR VILLAGE



		Coarse	Medium	Fine	Coarse	Medium	Fine	Coarse	Medium	Fine	
Boulders	COBBLES	Gravel			Sand			Silt			CLAY
		>4.75mm			2.00mm to 0.075mm			0.075mm to 0.02mm			<0.02mm
BH-P3	Depth:15.00m	△	0		0	35	48	18			
BH-P3	Depth:16.50m	○	0		0	27	53	20			

GRAIN SIZE DISTRIBUTION CHART

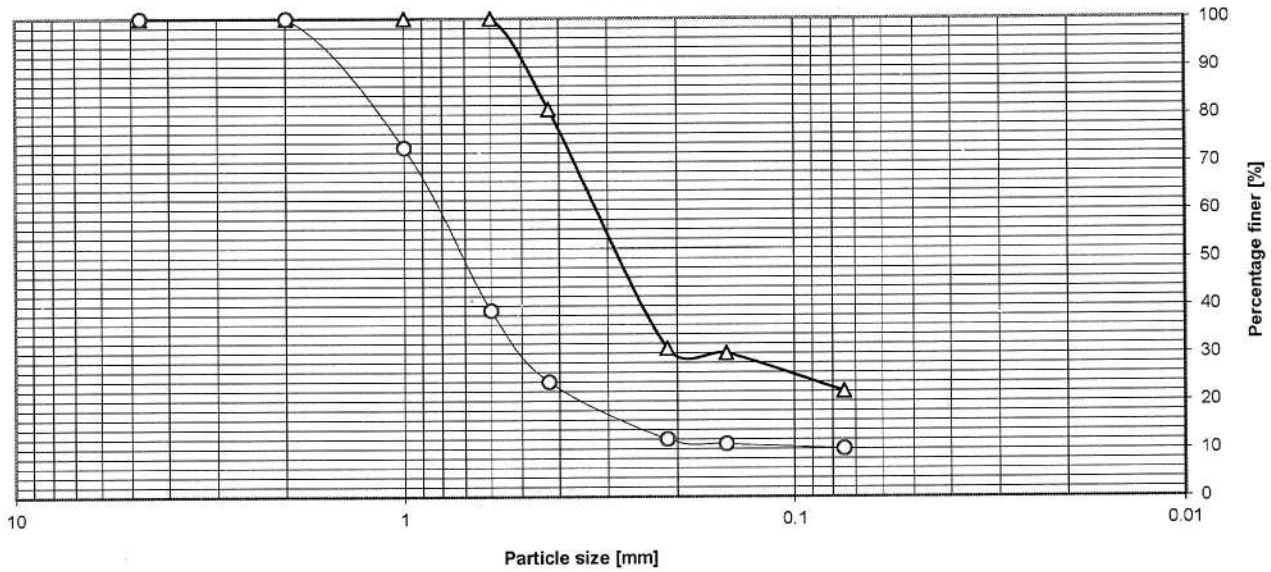
PROJECT: PROPOSED CONSTRUCTION OF RESIDENTIAL BUILDING (B+S+11) AT KORATTUR VILLAGE



		Coarse	Medium	Fine	Coarse	Medium	Fine	Coarse	Medium	Fine	
Boulders	COBBLES	Gravel			Sand			Silt			CLAY
		>4.75mm			2.00mm to 0.075mm			0.075mm to 0.02mm			<0.02mm
BH-P3	Depth:18.00m	△	0		0	41	49	10			
BH-P3	Depth:20.00m	○	0		0	41	50	9			

GRAIN SIZE DISTRIBUTION CHART

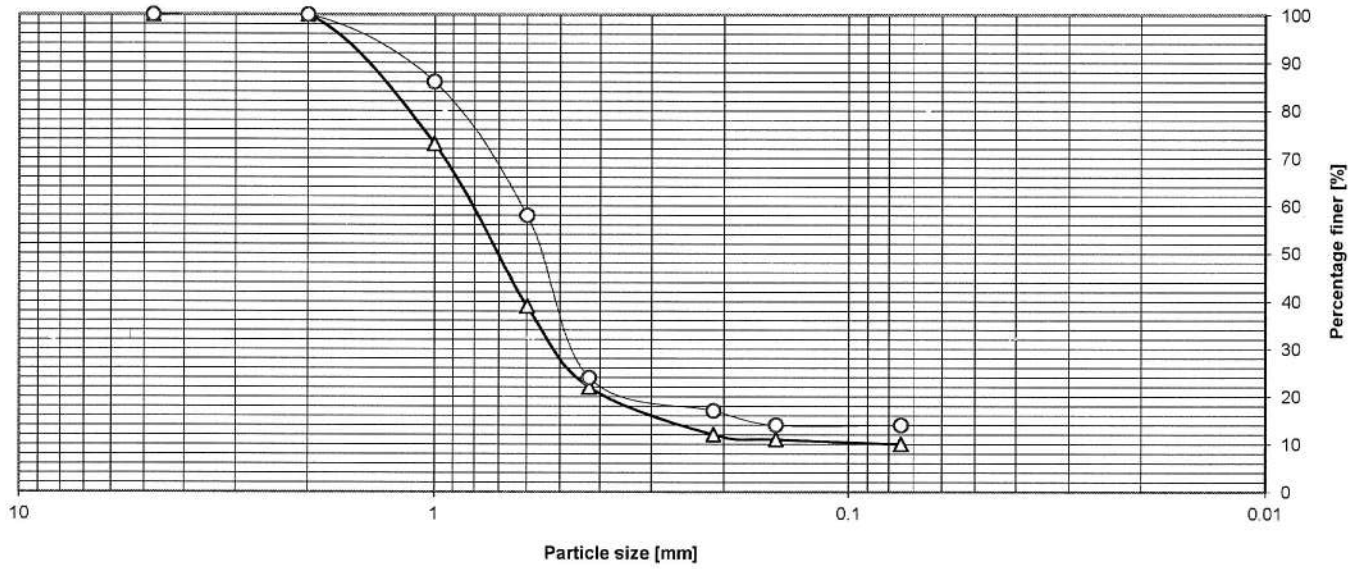
PROJECT: PROPOSED CONSTRUCTION OF RESIDENTIAL BUILDING (B+S+11) AT KORATTUR VILLAGE



		Coarse	Medium	Fine	Coarse	Medium	Fine	Coarse	Medium	Fine	
Boulders	COBBLES	Gravel			Sand			Silt			CLAY
		>4.75mm			2.00mm to 0.075mm			0.075mm to 0.02mm			<0.02mm
BH-P4	Depth:15.00m △	0			0	19	59	22			
BH-P4	Depth:16.50m ○	0			0	76	14	10			

GRAIN SIZE DISTRIBUTION CHART

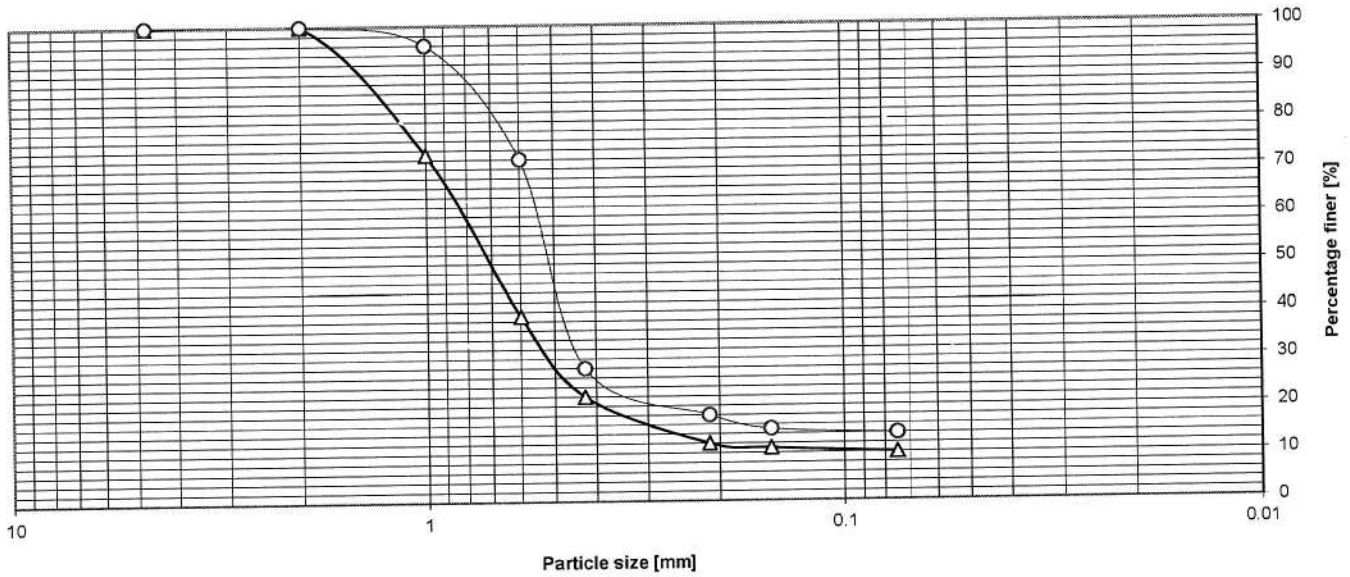
PROJECT: PROPOSED CONSTRUCTION OF RESIDENTIAL BUILDING (B+S+11) AT KORATTUR VILLAGE



		Coarse	Medium	Fine	Coarse	Medium	Fine	Coarse	Medium	Fine	
Boulders	COBBLES	Gravel			Sand			Silt			CLAY
		>4.75mm			2.00mm to 0.075mm			0.075mm to 0.02mm			<0.02mm
BH-P4	Depth:18.00m	△	0		0	78	12	10			
BH-P4	Depth:20.00m	○	0		0	76	10	14			

GRAIN SIZE DISTRIBUTION CHART

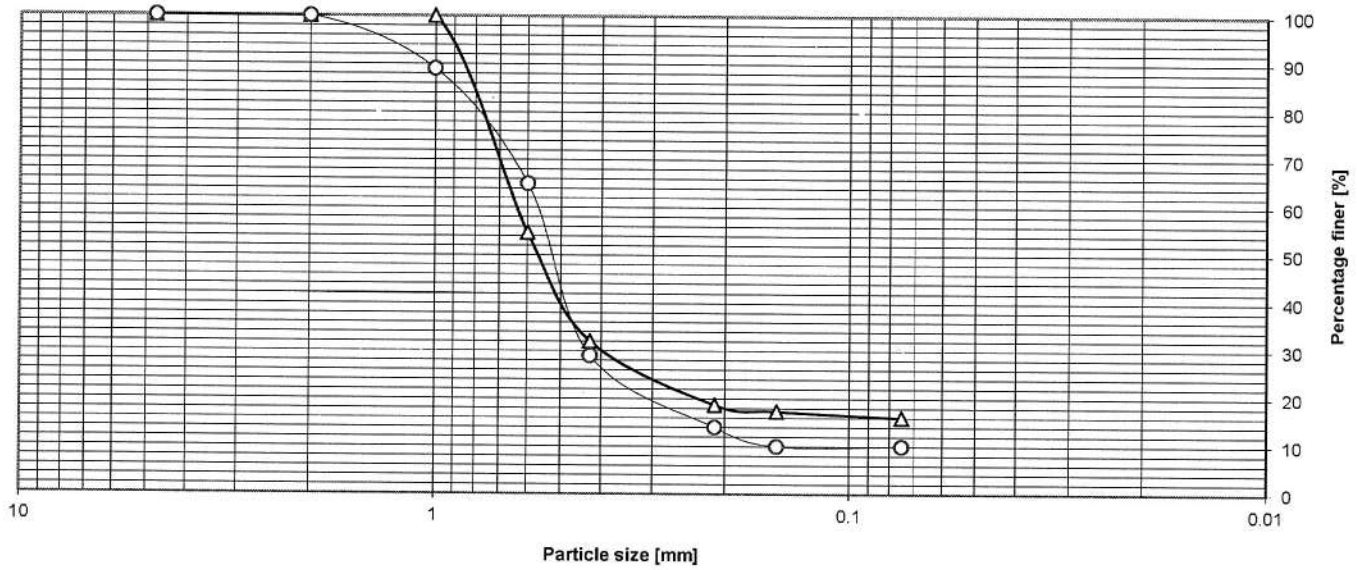
PROJECT: PROPOSED CONSTRUCTION OF RESIDENTIAL BUILDING (B+S+11) AT KORATTUR VILLAGE



		Coarse	Medium	Fine	Coarse	Medium	Fine	Coarse	Medium	Fine	
Boulders	COBBLES	Gravel			Sand			Silt			CLAY
		>4.75mm			2.00mm to 0.075mm			0.075mm to 0.02mm			<0.02mm
BH-P5	Depth:15.00m	△	0		0	78	12	10			
BH-P5	Depth:16.50m	○	0		0	72	14	14			

GRAIN SIZE DISTRIBUTION CHART

PROJECT: PROPOSED CONSTRUCTION OF RESIDENTIAL BUILDING (B+S+11) AT KORATTUR VILLAGE



		Coarse	Medium	Fine	Coarse	Medium	Fine	Coarse	Medium	Fine	
Boulders	COBBLES	Gravel			Sand			Silt			CLAY
		>4.75mm			2.00mm to 0.075mm			0.075mm to 0.02mm			<0.02mm
BH-P5	Depth:18.00m	△	0		0	68	16	16			
BH-P5	Depth:20.00m	○	0		0	71	19	10			

PROJECT: PROPOSED CONSTRUCTION OF RESIDENTIAL BUILDING (B+S+11) AT KORATTUR VILLAGE

Natural Moisture Content Data Sheet

BH.No/ Pit no	1		1		1		1		1		1	
Depth (m)	3.00		4.50		6.00		7.50		9.00		10.50	
Tare No	55	61	63	73	69	85	29	74	52	82	77	80
Wt of Tare (gr)	25.00	25.00	24.00	27.00	24.00	24.00	27.00	24.00	25.00	25.00	26.00	28.00
Tare + Soil (gr)	35.00	35.00	36.00	38.00	34.00	38.00	40.00	40.00	40.00	41.00	41.00	43.00
Tare+Dry soil (gr)	33.20	33.20	33.50	35.70	32.00	35.20	37.50	37.00	37.15	38.00	38.00	40.00
Wt of Water (gr)	1.80	1.80	2.50	2.30	2.00	2.80	2.50	3.00	2.85	3.00	3.00	3.00
Wt Dry soil (gr)	8.20	8.20	9.50	8.70	8.00	11.20	10.50	13.00	12.15	13.00	12.00	12.00
Water Content	21.95	21.95	26.32	26.44	25.00	25.00	23.81	23.08	23.46	23.08	25.00	25.00
Average Water Content (%)	22		26		25		23		23		25	

PROJECT: PROPOSED CONSTRUCTION OF RESIDENTIAL BUILDING (B+S+11) AT KORATTUR VILLAGE

Natural Moisture Content Data Sheet

BH.No/ Pit no	1		2		2		2		2		2	
Depth (m)	12.00		13.50		15.00		16.50		18.00		20.00	
Tare No	33	61	63	73	69	85	29	74	52	82	77	80
Wt of Tare (gr)	33.00	34.00	33.00	29.00	33.00	25.00	25.00	22.00	26.00	35.00	25.00	33.00
Tare + Soil (gr)	44.00	44.00	46.00	40.00	44.00	36.00	35.00	35.00	39.00	47.00	39.00	43.00
Tare+Dry soil (gr)	42.00	42.15	43.90	38.20	42.50	34.50	33.50	33.05	37.40	45.50	37.60	42.00
Wt of Water (gr)	2.00	1.85	2.10	1.80	1.50	1.50	1.50	1.95	1.60	1.50	1.40	1.00
Wt Dry soil (gr)	9.00	8.15	10.90	9.20	9.50	9.50	8.50	11.05	11.40	10.50	12.60	9.00
Water Content	22.22	22.70	19.27	19.57	15.79	15.79	17.65	17.65	14.04	14.29	11.11	11.11
Average Water Content (%)	22		19		16		18		14		11	

PROJECT: PROPOSED CONSTRUCTION OF RESIDENTIAL BUILDING (B+S+11) AT KORATTUR VILLAGE

Natural Moisture Content Data Sheet

BH.No/ Pit no	2		2		2		2		2		2	
Depth (m)	3.00		4.50		6.00		7.50		9.00		10.50	
Tare No	55	61	63	73	69	85	29	74	52	82	77	80
Wt of Tare (gr)	25.00	24.00	25.00	24.00	25.00	24.00	25.00	25.00	25.00	26.00	27.00	26.00
Tare + Soil (gr)	35.00	37.00	37.00	36.00	38.00	36.00	37.00	43.00	38.00	42.00	38.00	42.00
Tare+Dry soil (gr)	33.00	34.40	35.00	34.00	35.50	33.70	35.00	40.00	35.50	39.00	35.90	39.00
Wt of Water (gr)	2.00	2.60	2.00	2.00	2.50	2.30	2.00	3.00	2.50	3.00	2.10	3.00
Wt Dry soil (gr)	8.00	10.40	10.00	10.00	10.50	9.70	10.00	15.00	10.50	13.00	8.90	13.00
Water Content	25.00	25.00	20.00	20.00	23.81	23.71	20.00	20.00	23.81	23.08	23.60	23.08
Average Water Content (%)	25		20		24		20		23		23	

PROJECT: PROPOSED CONSTRUCTION OF RESIDENTIAL BUILDING (B+S+11) AT KORATTUR VILLAGE

Natural Moisture Content Data Sheet

BH.No/ Pit no	2		2		2		2		2		2	
Depth (m)	12.00		13.50		15.00		16.50		18.00		20.00	
Tare No	55	61	63	73	69	85	29	74	52	82	77	80
Wt of Tare (gr)	25.00	24.00	26.00	26.00	25.00	32.00	28.00	25.00	26.00	24.00	25.00	26.00
Tare + Soil (gr)	38.00	41.00	38.00	37.00	39.00	44.00	39.00	37.00	38.00	39.00	41.00	37.00
Tare+Dry soil (gr)	35.50	37.80	35.80	35.00	37.00	42.30	37.35	35.20	36.50	37.10	39.50	36.00
Wt of Water (gr)	2.50	3.20	2.20	2.00	2.00	1.70	1.65	1.80	1.50	1.90	1.50	1.00
Wt Dry soil (gr)	10.50	13.80	9.80	9.00	12.00	10.30	9.35	10.20	10.50	13.10	14.50	10.00
Water Content	23.81	23.19	22.45	22.22	16.67	16.50	17.65	17.65	14.29	14.50	10.34	10.00
Average Water Content (%)	23		22		17		18		14		10	

PROJECT: PROPOSED CONSTRUCTION OF RESIDENTIAL BUILDING (B+S+11) AT KORATTUR VILLAGE

Natural Moisture Content Data Sheet

BH.No/ Pit no	3		3		3		3		3		3	
Depth (m)	3.00		4.50		6.00		7.50		9.00		10.50	
Tare No	55	61	63	73	69	85	29	74	52	82	77	80
Wt of Tare (gr)	25.00	26.00	24.00	24.00	25.00	25.00	25.00	25.00	27.00	28.00	25.00	27.00
Tare + Soil (gr)	37.00	37.00	38.00	34.00	38.00	36.00	36.00	36.00	38.00	41.00	39.00	37.00
Tare+Dry soil (gr)	34.75	36.00	35.20	32.00	35.60	34.00	34.00	34.00	35.90	38.50	36.20	35.00
Wt of Water (gr)	2.25	2.30	2.80	2.00	2.40	2.00	2.00	2.00	2.10	2.50	2.80	2.00
Wt Dry soil (gr)	9.75	10.00	11.20	8.00	10.60	9.00	9.00	9.00	8.90	10.50	11.20	8.00
Water Content	23.08	23.00	25.00	25.00	22.64	22.22	22.22	22.22	23.60	23.81	25.00	25.00
Average Water Content (%)	23		25		22		22		24		25	

PROJECT: PROPOSED CONSTRUCTION OF RESIDENTIAL BUILDING (B+S+11) AT KORATTUR VILLAGE

Natural Moisture Content Data Sheet

BH.No/ Pit no	3		3		3		3		3		3	
Depth (m)	12.00		13.50		15.00		16.50		18.00		20.00	
Tare No	55	61	63	73	69	85	29	74	52	82	77	80
Wt of Tare (gr)	27.00	25.00	27.00	24.00	23.00	26.00	24.00	25.00	27.00	25.00	25.00	23.00
Tare + Soil (gr)	40.00	35.00	43.00	34.00	37.00	36.00	38.00	37.00	37.00	39.00	36.00	34.00
Tare+Dry soil (gr)	37.50	33.10	40.00	32.10	35.00	34.60	36.20	35.50	35.60	37.00	34.90	32.90
Wt of Water (gr)	2.50	1.90	3.00	1.90	2.00	1.40	1.80	1.50	1.40	2.00	1.10	1.10
Wt Dry soil (gr)	10.50	8.10	13.00	8.10	12.00	8.60	12.20	10.50	8.60	12.00	9.90	9.90
Water Content	23.81	23.46	23.08	23.46	16.67	16.28	14.75	14.29	16.28	16.67	11.11	11.11
Average Water Content (%)	24		23		16		15		16		11	

PROJECT: PROPOSED CONSTRUCTION OF RESIDENTIAL BUILDING (B+S+11) AT KORATTUR VILLAGE

Natural Moisture Content Data Sheet

BH.No/ Pit no	4		4		4		4		4		4	
Depth (m)	3.00		4.50		6.00		7.50		9.00		10.50	
Tare No	55	61	63	73	69	85	29	74	52	82	77	80
Wt of Tare (gr)	26.00	24.00	25.00	27.00	21.00	25.00	25.00	24.00	25.00	25.00	25.00	23.00
Tare + Soil (gr)	42.00	42.00	40.00	39.00	33.00	37.00	38.00	38.00	40.00	36.00	46.00	42.00
Tare+Dry soil (gr)	39.00	38.60	37.10	36.70	30.40	34.40	35.70	35.50	37.00	33.80	41.80	38.20
Wt of Water (gr)	3.00	3.40	2.90	2.30	2.60	2.60	2.30	2.50	3.00	2.20	4.20	3.80
Wt Dry soil (gr)	13.00	14.60	12.10	9.70	9.40	9.40	10.70	11.50	12.00	8.80	16.80	15.20
Water Content	23.08	23.29	23.97	23.71	27.66	27.66	21.50	21.74	25.00	25.00	25.00	25.00
Average Water Content (%)	23		24		28		22		25		25	

PROJECT: PROPOSED CONSTRUCTION OF RESIDENTIAL BUILDING (B+S+11) AT KORATTUR VILLAGE

Natural Moisture Content Data Sheet

BH.No/ Pit no	4		4		4		4		4		4	
Depth (m)	12.00		13.50		15.00		16.50		18.00		20.00	
Tare No	55	61	63	73	69	85	29	74	52	82	77	80
Wt of Tare (gr)	23.00	24.00	25.00	27.00	21.00	25.00	25.00	24.00	25.00	25.00	26.00	25.00
Tare + Soil (gr)	43.00	38.00	40.00	39.00	33.00	37.00	38.00	38.00	40.00	36.00	41.00	37.00
Tare+Dry soil (gr)	39.00	35.15	37.50	37.00	31.50	35.50	36.50	36.30	38.30	34.80	39.40	35.80
Wt of Water (gr)	4.00	2.85	2.50	2.00	1.50	1.50	1.50	1.70	1.70	1.20	1.60	1.20
Wt Dry soil (gr)	16.00	11.15	12.50	10.00	10.50	10.50	11.50	12.30	13.30	9.80	13.40	10.80
Water Content	25.00	25.56	20.00	20.00	14.29	14.29	13.04	13.82	12.78	12.24	11.94	11.11
Average Water Content (%)	25		20		14		13		13		12	

PROJECT: PROPOSED CONSTRUCTION OF RESIDENTIAL BUILDING (B+S+11) AT KORATTUR VILLAGE

Natural Moisture Content Data Sheet

BH.No/ Pit no	5		5		5		5		5		5	
Depth (m)	3.00		4.50		6.00		7.50		9.00		10.50	
Tare No	55	61	63	73	69	85	29	74	63	73	63	73
Wt of Tare (gr)	23.00	24.00	25.00	27.00	21.00	25.00	25.00	24.00	25.00	27.00	25.00	27.00
Tare + Soil (gr)	43.00	38.00	40.00	39.00	33.00	37.00	38.00	38.00	40.00	39.00	40.00	39.00
Tare+Dry soil (gr)	38.80	35.20	37.00	36.60	30.50	34.50	34.75	34.50	37.20	36.80	37.50	37.00
Wt of Water (gr)	4.20	3.00	3.00	2.40	2.50	2.50	3.25	3.50	2.80	2.20	2.50	2.00
Wt Dry soil (gr)	15.80	11.20	12.00	9.60	9.50	9.50	9.75	10.50	12.20	9.80	12.50	10.00
Water Content	26.58	26.79	25.00	25.00	26.32	26.32	33.33	33.33	22.95	22.45	20.00	20.00
Average Water Content (%)	27		25		26		33		23		20	

PROJECT: PROPOSED CONSTRUCTION OF RESIDENTIAL BUILDING (B+S+11) AT KORATTUR VILLAGE

Natural Moisture Content Data Sheet

BH.No/ Pit no	5		5		5		5		5		5	
Depth (m)	12.00		13.50		15.00		16.50		18.00		20.00	
Tare No	55	61	63	73	69	85	29	74	52	82	77	80
Wt of Tare (gr)	23.00	24.00	25.00	27.00	21.00	25.00	25.00	24.00	25.00	25.00	26.00	25.00
Tare + Soil (gr)	43.00	38.00	40.00	39.00	33.00	37.00	38.00	38.00	40.00	36.00	41.00	37.00
Tare+Dry soil (gr)	38.90	35.20	37.00	36.60	31.20	35.20	36.50	36.30	38.00	34.50	39.50	35.80
Wt of Water (gr)	4.10	2.80	3.00	2.40	1.80	1.80	1.50	1.70	2.00	1.50	1.50	1.20
Wt Dry soil (gr)	15.90	11.20	12.00	9.60	10.20	10.20	11.50	12.30	13.00	9.50	13.50	10.80
Water Content	25.79	25.00	25.00	25.00	17.65	17.65	13.04	13.82	15.38	15.79	11.11	11.11
Average Water Content (%)	25		25		18		13		16		11	

Chennai Soil Lab

SPECIFIC GRAVITY TEST

PROJECT: PROPOSED CONSTRUCTION OF RESIDENTIAL BUILDING (B+S+11) AT KORATTUR VILLAGE

BH.No	1
Depth(m)	15.00

Pycnometer number			2	13
Weight of bottle	w_1	g	35.00	37.50
Weight of bottle + soil	w_2	g	45.00	49.00
Weight of bottle + soil + water	w_3	g	89.40	96.29
Weight of bottle full of water	w_4	g	83.50	89.50
Weight of soil	w_2-w_1	g	10.00	11.50
Specific gravity	$\frac{w2-w1}{(w4-w1)-(w3-w2)}$		2.44	2.44
Average value G_s			2.44	

BH.No	1
Depth(m)	16.50

Pycnometer number			5	7
Weight of bottle	w_1	g	36.00	36.50
Weight of bottle + soil	w_2	g	47.00	47.00
Weight of bottle + soil + water	w_3	g	95.55	93.75
Weight of bottle full of water	w_4	g	89.00	87.50
Weight of soil	w_2-w_1	g	11.00	10.50
Specific gravity	$\frac{w2-w1}{(w4-w1)-(w3-w2)}$		2.47	2.47
Average value G_s			2.47	

Chennai Soil Lab

SPECIFIC GRAVITY TEST

PROJECT: PROPOSED CONSTRUCTION OF RESIDENTIAL BUILDING (B+S+11) AT KORATTUR VILLAGE

BH.No	1				
Depth(m)	18.00				
Pycnometer number				9	10
Weight of bottle		w_1	g	37.50	35.50
Weight of bottle + soil		w_2	g	48.00	47.00
Weight of bottle + soil + water		w_3	g	93.29	96.39
Weight of bottle full of water		w_4	g	87.00	89.50
Weight of soil		w_2-w_1	g	10.50	11.50
Specific gravity		$\frac{w2-w1}{(w4-w1)-(w3-w2)}$		2.49	2.49
Average value G_s				2.49	

BH.No	1				
Depth(m)	20.00				
Pycnometer number				11	12
Weight of bottle		w_1	g	39.50	36.50
Weight of bottle + soil		w_2	g	51.00	47.00
Weight of bottle + soil + water		w_3	g	94.90	92.80
Weight of bottle full of water		w_4	g	88.00	86.50
Weight of soil		w_2-w_1	g	11.50	10.50
Specific gravity		$\frac{w2-w1}{(w4-w1)-(w3-w2)}$		2.50	2.50
Average value G_s				2.50	

Chennai Soil Lab

SPECIFIC GRAVITY TEST

PROJECT: PROPOSED CONSTRUCTION OF RESIDENTIAL BUILDING (B+S+11) AT KORATTUR VILLAGE

BH.No	2				
Depth(m)	15.00				
Pycnometer number				2	13
Weight of bottle		w_1	g	35.00	37.50
Weight of bottle + soil		w_2	g	45.00	49.00
Weight of bottle + soil + water		w_3	g	89.45	96.35
Weight of bottle full of water		w_4	g	83.50	89.50
Weight of soil		w_2-w_1	g	10.00	11.50
Specific gravity		$\frac{w2-w1}{(w4-w1)-(w3-w2)}$		2.47	2.47
Average value G_s				2.47	

BH.No	2				
Depth(m)	16.50				
Pycnometer number				5	7
Weight of bottle		w_1	g	36.00	36.50
Weight of bottle + soil		w_2	g	47.00	47.00
Weight of bottle + soil + water		w_3	g	95.55	93.75
Weight of bottle full of water		w_4	g	89.00	87.50
Weight of soil		w_2-w_1	g	11.00	10.50
Specific gravity		$\frac{w2-w1}{(w4-w1)-(w3-w2)}$		2.47	2.47
Average value G_s				2.47	

Chennai Soil Lab

SPECIFIC GRAVITY TEST

PROJECT: PROPOSED CONSTRUCTION OF RESIDENTIAL BUILDING (B+S+11) AT KORATTUR VILLAGE

BH.No	2				
Depth(m)	18.00				
Pycnometer number				9	10
Weight of bottle		w_1	g	37.50	35.50
Weight of bottle + soil		w_2	g	48.00	47.00
Weight of bottle + soil + water		w_3	g	93.30	96.40
Weight of bottle full of water		w_4	g	87.00	89.50
Weight of soil		w_2-w_1	g	10.50	11.50
Specific gravity		$\frac{w2-w1}{(w4-w1)-(w3-w2)}$		2.50	2.50
Average value G_s				2.50	

BH.No	2				
Depth(m)	20.00				
Pycnometer number				11	12
Weight of bottle		w_1	g	39.50	36.50
Weight of bottle + soil		w_2	g	51.00	47.00
Weight of bottle + soil + water		w_3	g	94.90	92.80
Weight of bottle full of water		w_4	g	88.00	86.50
Weight of soil		w_2-w_1	g	11.50	10.50
Specific gravity		$\frac{w2-w1}{(w4-w1)-(w3-w2)}$		2.50	2.50
Average value G_s				2.50	

Chennai Soil Lab

SPECIFIC GRAVITY TEST

PROJECT: PROPOSED CONSTRUCTION OF RESIDENTIAL BUILDING (B+S+11) AT KORATTUR VILLAGE

BH.No	3				
Depth(m)	15.00				
Pycnometer number				2	13
Weight of bottle		w_1	g	35.00	37.50
Weight of bottle + soil		w_2	g	45.00	49.00
Weight of bottle + soil + water		w_3	g	89.47	96.37
Weight of bottle full of water		w_4	g	83.50	89.50
Weight of soil		w_2-w_1	g	10.00	11.50
Specific gravity		$\frac{w2-w1}{(w4-w1)-(w3-w2)}$		2.48	2.48
Average value G_s				2.48	

BH.No	3				
Depth(m)	16.50				
Pycnometer number				5	7
Weight of bottle		w_1	g	36.00	36.50
Weight of bottle + soil		w_2	g	47.00	47.00
Weight of bottle + soil + water		w_3	g	95.60	93.80
Weight of bottle full of water		w_4	g	89.00	87.50
Weight of soil		w_2-w_1	g	11.00	10.50
Specific gravity		$\frac{w2-w1}{(w4-w1)-(w3-w2)}$		2.50	2.50
Average value G_s				2.50	

Chennai Soil Lab

SPECIFIC GRAVITY TEST

PROJECT: PROPOSED CONSTRUCTION OF RESIDENTIAL BUILDING (B+S+11) AT KORATTUR VILLAGE

BH.No	3				
Depth(m)	18.00				
Pycnometer number				9	10
Weight of bottle		w_1	g	37.50	35.50
Weight of bottle + soil		w_2	g	48.00	47.00
Weight of bottle + soil + water		w_3	g	93.28	96.38
Weight of bottle full of water		w_4	g	87.00	89.50
Weight of soil		w_2-w_1	g	10.50	11.50
Specific gravity		$\frac{w2-w1}{(w4-w1)-(w3-w2)}$		2.49	2.49
Average value G_s				2.49	

BH.No	3				
Depth(m)	20.00				
Pycnometer number				11	12
Weight of bottle		w_1	g	39.50	36.50
Weight of bottle + soil		w_2	g	51.00	47.00
Weight of bottle + soil + water		w_3	g	94.87	92.77
Weight of bottle full of water		w_4	g	88.00	86.50
Weight of soil		w_2-w_1	g	11.50	10.50
Specific gravity		$\frac{w2-w1}{(w4-w1)-(w3-w2)}$		2.48	2.48
Average value G_s				2.48	

Chennai Soil Lab

SPECIFIC GRAVITY TEST

PROJECT: PROPOSED CONSTRUCTION OF RESIDENTIAL BUILDING (B+S+11) AT KORATTUR VILLAGE

BH.No	4
Depth(m)	15.00

Pycnometer number			2	13
Weight of bottle	w_1	g	35.00	37.50
Weight of bottle + soil	w_2	g	45.00	49.00
Weight of bottle + soil + water	w_3	g	89.46	96.36
Weight of bottle full of water	w_4	g	83.50	89.50
Weight of soil	w_2-w_1	g	10.00	11.50
Specific gravity	$\frac{w2-w1}{(w4-w1)-(w3-w2)}$		2.48	2.48
Average value G_s			2.48	

BH.No	4
Depth(m)	16.50

Pycnometer number			5	7
Weight of bottle	w_1	g	36.00	36.50
Weight of bottle + soil	w_2	g	47.00	47.00
Weight of bottle + soil + water	w_3	g	95.60	93.80
Weight of bottle full of water	w_4	g	89.00	87.50
Weight of soil	w_2-w_1	g	11.00	10.50
Specific gravity	$\frac{w2-w1}{(w4-w1)-(w3-w2)}$		2.50	2.50
Average value G_s			2.50	

Chennai Soil Lab

SPECIFIC GRAVITY TEST

PROJECT: PROPOSED CONSTRUCTION OF RESIDENTIAL BUILDING (B+S+11) AT KORATTUR VILLAGE

BH.No	4				
Depth(m)	18.00				
Pycnometer number				9	10
Weight of bottle		w_1	g	37.50	35.50
Weight of bottle + soil		w_2	g	48.00	47.00
Weight of bottle + soil + water		w_3	g	93.30	96.40
Weight of bottle full of water		w_4	g	87.00	89.50
Weight of soil		w_2-w_1	g	10.50	11.50
Specific gravity		$\frac{w2-w1}{(w4-w1)-(w3-w2)}$		2.50	2.50
Average value G_s				2.50	

BH.No	4				
Depth(m)	20.00				
Pycnometer number				11	12
Weight of bottle		w_1	g	39.50	36.50
Weight of bottle + soil		w_2	g	51.00	47.00
Weight of bottle + soil + water		w_3	g	94.90	92.80
Weight of bottle full of water		w_4	g	88.00	86.50
Weight of soil		w_2-w_1	g	11.50	10.50
Specific gravity		$\frac{w2-w1}{(w4-w1)-(w3-w2)}$		2.50	2.50
Average value G_s				2.50	

Chennai Soil Lab

SPECIFIC GRAVITY TEST

PROJECT: PROPOSED CONSTRUCTION OF RESIDENTIAL BUILDING (B+S+11) AT KORATTUR VILLAGE

BH.No	5
Depth(m)	15.00

Pycnometer number			2	13
Weight of bottle	w_1	g	35.00	37.50
Weight of bottle + soil	w_2	g	45.00	49.00
Weight of bottle + soil + water	w_3	g	89.44	96.33
Weight of bottle full of water	w_4	g	83.50	89.50
Weight of soil	w_2-w_1	g	10.00	11.50
Specific gravity	$\frac{w2-w1}{(w4-w1)-(w3-w2)}$		2.46	2.46
Average value G_s			2.46	

BH.No	5
Depth(m)	16.50

Pycnometer number			5	7
Weight of bottle	w_1	g	36.00	36.50
Weight of bottle + soil	w_2	g	47.00	47.00
Weight of bottle + soil + water	w_3	g	95.59	93.79
Weight of bottle full of water	w_4	g	89.00	87.50
Weight of soil	w_2-w_1	g	11.00	10.50
Specific gravity	$\frac{w2-w1}{(w4-w1)-(w3-w2)}$		2.49	2.49
Average value G_s			2.49	

Chennai Soil Lab

SPECIFIC GRAVITY TEST

PROJECT: PROPOSED CONSTRUCTION OF RESIDENTIAL BUILDING (B+S+11) AT KORATTUR VILLAGE

BH.No	5				
Depth(m)	18.00				
Pycnometer number				9	10
Weight of bottle		w_1	g	37.50	35.50
Weight of bottle + soil		w_2	g	48.00	47.00
Weight of bottle + soil + water		w_3	g	93.27	96.37
Weight of bottle full of water		w_4	g	87.00	89.50
Weight of soil		w_2-w_1	g	10.50	11.50
Specific gravity		$\frac{w2-w1}{(w4-w1)-(w3-w2)}$		2.48	2.48
Average value G_s				2.48	

BH.No	5				
Depth(m)	20.00				
Pycnometer number				11	12
Weight of bottle		w_1	g	39.50	36.50
Weight of bottle + soil		w_2	g	51.00	47.00
Weight of bottle + soil + water		w_3	g	94.90	92.80
Weight of bottle full of water		w_4	g	88.00	86.50
Weight of soil		w_2-w_1	g	11.50	10.50
Specific gravity		$\frac{w2-w1}{(w4-w1)-(w3-w2)}$		2.50	2.50
Average value G_s				2.50	



our services doesn't just end there

Buying & Selling Services

Property Buying Assistance, Property Selling Support, Market Price Analysis, Owner Outreach and Negotiation.

Legal & Documentation Services

Certified EC, Patta, legal opinions, property verification, due diligence, litigation solutions, and legal heir certificates.

Property Development & Approvals

Building plan approvals, construction, layout and sub-division approvals, zone conversion, and occupancy certification.

NRI & Investment Services

Escrow Services, Rentals, Litigation Solutions, Property Valuation and Property Management

Compliance & Special Services

Demolition, Vaasthu checks, regularization of unauthorized buildings, and office space solutions.



empowering your real estate decisions with smart tools

Property Valuation & Cost Estimation

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

Ownership, Compliance & Legal Verification

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,
OMR Thoraipakkam,
Chennai, India

hello@verified.realestate
+91 9996 12 9996
www.verified.realestate