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GEOTECHNICAL INVESTIGATION REPORT

for Apartment at MSB Apartment Project at Veeriyamapalayam Road, Kalapatti Village, Coimbatore

EXECUTIVE SUMMARY

M/s. Infinium Developers LLP., Coimbatore are proposing to construct an Apartment at MSB Apartment Project at Veeriyamapalayam Road, Kalapatti Village, Coimbatore.

The site for the proposed Apartment is situated at S.F.No: 733/4 on the eastern side of road in MSB Apartment Project at Veeriyamapalayam Road, Kalapatti Village, Coimbatore. The site is measures approximately 2.16acrs in area. The site is having boundary wall on all the sides and is fairly level in topography. Vegetation in the form of grass and trees were grown within the site.

The proposed Apartment consists of a single Basement, open stilt floor at ground level and eleven upper floors.

Geotechnical investigations have been undertaken at the site as per the scope of investigations, stipulated by the client, which consisted of 6 boreholes of 5m depth or if refusal/rock strata (where N>100) is met earlier then further drilling in refusal strata by 5m was to be carried out.

The borehole investigations indicate the presence of top layer of Brownish red clayey silty sand with gravel has been encountered from GL to a depth of 0.8-1.4m depth. Below this strata, refusal strata in the form of completely to moderately weathered rock was encountered and continued till maximum termination depth of 10m below existing ground level.

The soil strata encountered till refusal strata is in a medium dense state with observed N-values ranging between 58 and 66.

Ground water table was not encountered in the boreholes during the period of field investigations till maximum investigated depth of 10m below existing ground level.

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In view of the observed subsoil conditions, the proposed structure can be supported on

Isolated/strip/raft footings at a depth of 4m below the existing ground level (due to the single basement). Net allowable bearing pressure of 40t/m^2 (4.0kg/cm^2) can be adopted for foundations of widths ≥1.5m.

The excavated soil can be used for backfilling purposes.

The foundation surface should be watered, the top slush should then be removed. If any loose pockets are observed, the same shall be filled with plum concrete. Foundations can subsequently be placed over such a prepared surface.

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REPORT ON GEOTECHNICAL INVESTIGATION FOR APARTMENT AT MSB APARTMENT PROJECT AT VEERIYAMAPALAYAM ROAD, KALAPATTI VILLAGE, COIMBATORE

1.0 INTRODUCTION

1.1 Overview

1.1.1 M/s. Infinium Developers LLP., Coimbatore are proposing to construct an Apartment at MSB Apartment Project at Veeriyamapalayam Road, Kalapatti Village, Coimbatore.

1.1.2 The geotechnical investigations have been carried to ascertain the soil conditions for the design of foundations of the proposed MSB Apartment Project.

1.2 Authority

A detailed geotechnical investigations programme has been conducted as per the authorisation by M/s. Infinium Developers LLP., Coimbatore vide their Work Order No: ID/WO/22-23/APR/1007 dated 28.04.2022.

2.0 PROJECT DETAILS

2.1 Site Location

The site for the proposed Apartment is situated at S.F.No: 733/4 on the eastern side of road in MSB Apartment Project at Veeriyamapalayam Road, Kalapatti Village, Coimbatore. The key map showing the location of the site is given in fig. 1.

2.2 Site Layout and Topography

2.2.1 The site measures approximately 2.16acres in area. The site is having boundary wall on all the sides and is fairly level in topography. Vegetation in the form of grass and trees were grown within the site.

2.2.2 The colour of the exposed soil surface is Brownish red.

2.3 The Structure

As per information provided by the client, the Apartment consists of a single Basement,

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open stilt floor at ground level and eleven upper floors.

2.4 Seismic Zone

Site for the proposed project is situated in Kalapatti Village, Coimbatore which falls under Seismic Zone III as per IS 1893 (Part 1) - 2016.

2.5 Geographical Information

2.5.1 The site for the proposed Apartment is located at:

a) Latitude : 11°03'

b) Longitude : 77°02'

3.0 OBJECT OF INVESTIGATIONS

3.1 For designing the foundation system of the proposed structures, 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.

3.2 To determine above factors, the following information would be required:

a) The subsoil profile indicating thicknesses 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 strata with depth.

3.3 For evaluating the above parameters, field investigations and laboratory investigations on the soil samples collected during the field investigations have been carried out.

3.4 The results from these investigations have been analysed to provide the recommendations for the design of foundations.

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4.0 SCOPE OF INVESTIGATIONS

4.1 Scope of investigations as given in the work order:

a) Conducting 6 boreholes of 5m depth or if refusal/rock strata (where N>100) is met earlier then further drilling in refusal strata by 5m, as required by the client.

b) Conducting standard penetration tests at 1.5m intervals.

c) Recovering undisturbed soil samples from various levels of the subsoil strata.

d) Recording ground water table levels, if met with.

e) Conducting relevant laboratory tests on soil and rock samples recovered.

f) Preparation and submission of a technical report containing the details of the tests carried out, their analysis and recommendations regarding the foundation system to be adopted. Two copies of the report are to be submitted.

5.0 FIELD INVESTIGATIONS

5.1 General Details

5.1.1 The locations of the boreholes were shown at site by the client's representative. A Schematic site plan showing the boreholes locations marked by the client is given in fig.1.

5.1.2 Weather was clear during the period of field investigations which were carried out in the first week of May 2022.

5.2 Boreholes

5.2.1 The boreholes were progressed by mechanically operated rotary core drill method.

5.2.2 Refusal strata (i.e. N-value > 100) was encountered at shallow depths in the form of weathered rock (Charconites Based) strata. The drilling in refusal/rock strata was conducted using NX size core barrel fitted with diamond bits.

5.2.3 The boreholes were terminated at specified depths as per the client requirement.

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5.2.4 The termination depths of the boreholes are given in the following table.

Borehole No.	Depth of Refusal / Rock Strata Below E G L (m)	Termination Depth Below E G L (m)
1	1.4	7
2	1.0	7
3	0.9	10
4	1.3	10
5	1.3	6.5
6	0.8	6

5.2.5 Standard Penetration Tests were conducted in soil strata at 1.5m depth intervals. Additionally, Standard Penetration Tests had also been conducted in refusal strata for the confirmation of the refusal strata.

5.2.6 Disturbed soil samples recovered from split spoon samples were packed in polythene bags, labelled and retained for identification purposes.

5.2.7 Undisturbed soil samples could not be collected due to the nature of the sub soil strata, i,e refusal strata was encountered at shallow depths.

5.2.8 Ground water table was not encountered in the boreholes during the period of field investigations down to a maximum depth of 10m below existing ground level.

6.0 LABORATORY INVESTIGATIONS

6.1 The disturbed soil samples brought to the laboratory were subjected to various tests to determine the following properties

a) Type of soil and its gradation

b) Consistency limits

c) Shear strength properties

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6.2 In order to determine the above properties listed in 6.1, the following tests were conducted.

a) Sieve analysis on the coarse grained soil fraction

b) Hydrometer analysis on the fine grained soil fraction

c) Liquid and plastic limits

d) Triaxial compression tests

e) Free Swell Index tests

6.3 The rock core samples brought to the laboratory were subjected to various tests to determine the following properties

a) Unit Weight

b) Porosity

c) Water Absorption

d) Point load index

7.0 RESULTS AND ANALYSIS

7.1 Presentation of Results

7.1.1 The results of borehole investigations and of the laboratory investigations conducted on the soil and rock samples collected from the boreholes have been presented in the form of soil profile tables and rock profile tables. Table No.1 to 12 give the details of BH1 to BH6.

7.1.2 The soil profile tables indicate the following:

a) Standard Penetration Test Values (i.e. N- values observed) at various depths

b) Soil description identifying the type of soil

c) Grain size analysis indicating composition of subsoil

d) Consistency limits

e) Triaxial compression test results

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7.1.3 The rock profile tables indicate the following:

a) Description of rock

b) Number of core pieces in each drill run

c) Core Recovery in each drill run

d) RQD in each drill run

e) Unit Weight of rock samples

f) Porosity of rock samples

g) Water Absorption of rock samples

h) Uniaxial strength of rock derived from point load index

7.2 Analysis of Soil Profile

7.2.1 A perusal of the data presented in the soil profile tables indicate the presence of the following substrata.

a) Stratum I : Brownish red clayey silty sand with gravel

b) Stratum II : Brownish grey completely weathered rock with pebbles

c) Stratum III : Brownish grey moderately weathered rock

7.2.2 The thicknesses in each borehole of each strata described in 7.2.1 is given in the table below:

BH No.	Depth (m) : from - to		
	Stratum - I	Stratum - II	Stratum - III
1	0.0 - 14	1.4 - 3	3 - 7
2	0.0 - 1.0	1 - 4	4 - 7
3	0.0 - 0.9	0.9 - 4	4 - 10
4	0.0 - 1.3	1.3 - 4.5	4.5 - 10
5	0.0 - 1.3	1.3 - 3	3 - 6.5
6	0.0 - 0.8	0.8 - 2.5	2.5 - 6.5

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7.2.3 The above results show that :

a) Stratum - I (Brownish red clayey silty sand with gravel) strata has been encountered down to the depths from GL to 0.8-1.4mm below existing ground level.

b) Stratum - II (Brownish grey completely weathered rock with pebbles) has been encountered at a depth varying between 0.8-1.4m below existing ground level down to 2.5-4.5m depth below exisitng ground level.

c) Stratum - III (Brownish grey moderately weathered rock) has been encountered at a depth varying between 2.5-4.5m below existing ground level down to the termination depth of the boreholes of 6.5-10m.

7.3 Soil Composition

7.3.1 The grain size distribution of the soil samples at various depths, as determined in the laboratory have been presented in the form of grain size analysis curves in figs. 3.

7.3.2 The variations in the grain size distribution - strata wise across the boreholes are as follows:

a) Stratum - I : Brownish red clayey silty sand with gravel

BH No.	Gravel (%)	Sand (%)	Silt (%)	Clay (%)
1	7	58	20	15
2	3	56	23	18
3	3	55	24	18
4	7	55	22	16
5	6	54	25	15
6	5	52	26	17

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7.3.3 The above results indicate that :

Stratum - I consists of about 15-18% of clay 20-26% of silt , 52-58% of sand and 3-7% of gravel.

7.4 Consistency Limits

7.4.1 The Consistency Limits of the soil in Stratum - I (Brownish red clayey silty sand with gravel) indicates that the liquid limit varies between 19% to 22%, plastic limit varies between 13% to 15% and plasticity index varies between 6% to 7%.

7.4.2 The Consistency Limits indicate that the soil in :

Stratum - I (Brownish red clayey silty sand with gravel) is low plastic in nature.

7.5 Standard Penetration Tests

7.5.1 Standard Penetration Test values (N-values observed) are presented in the soil profile table nos.1 to 6.

7.5.2 The N-values indicate that the soil strata down to refusal/rock strata is in a medium dense state with observed N-values between 58 to 66.

7.6 Triaxial Test Results

The cohesion 'c' obtained from consolidated drained triaxial compression test on remoulded samples varies between 0.11 to 0.12kg/cm² and the angle of shearing resistance 'ϕ' of the soil varies between 26° & 27°.

7.7 Free Swell Index

7.7.1 The free swell index of the soil samples collected are given below:

BH No.	Free Swell Index (%)
1	11.2
2	15.8
3	16.2

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BH No.	Free Swell Index (%)
4	13.1
5	12.5
6	14.3

7.7.2 The above results indicate that the soil strata is low swelling in nature. Hence, the excavated soil can be used for backfilling purposes.

7.8 Rock Conditions

7.8.1 An analysis of the data provided in the rock profile tables indicates the following :

a) The rock strata generally consists of Charnockite based rock.

b) The completely weathered rock with pebbles and moderately weathered rock is brown with grey in color.

c) Core recoveries is nil in the completely weathered rock strata. The core recovery is ranging between nil and small pieces to 10% in the moderately weathered rock strata been observed at different depths in different boreholes.

d) RQD values is nil in completely and moderately weathered rock strata.

e) Unit weight of the rock generally varies between 2.55g/cm^3 and 2.63g/cm^3.

f) Porosity of the rock varies between 0.42% and 0.62%.

g) Water absorption of the rock varies between 0.37% and 0.59%.

h) Point load strength of the moderately weathered rock generally varies between 161kg/cm^2 and 282kg/cm^2.

7.8.2 The above results the rock strata has been observed to have a wide range of weathered states from completely weathered (generally recognised by nil core recovery) to more or less in a moderately weathered state (generally recognised by core recovery) at different depths in different boreholes.

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7.9 Compiled Soil Rock Profile

7.9.1 An overview of the results and their analysis has been presented in the form of a compiled soil and rock profile (fig. 2).

7.9.2 The above figure shows the various strata encountered and their thicknesses in each of the boreholes and also gives the soil / rock composition and the observed N-values at various depths along with core recovery and RQD.

8.0 DESIGN CRITERIA

8.1 Primary Parameters

8.1.1 The parameters required for the design of foundation system for the proposed structure are:

a) Type of foundation to be adopted

b) Depth at which the foundations have to be laid

c) Allowable bearing pressure

8.1.2 On the basis of the analysis of the results of investigations, the required design parameters have been arrived at and are given in the following sections.

8.2 Type of Foundations

8.2.1 The type of foundation depends on the following:

a) Subsoil conditions

b) Type of structure

c) Configuration at loading points

d) Loading intensity on each sub-structure/structural element.

8.2.2 As per information provided by the client, the proposed Apartment consists of a single basement, open stilt floor at ground level and eleven upper floors.

8.2.3 The results of the investigations are shown that the soil encountered is in a medium

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dense state and refusal/rock strata has been encountered at shallow depths ranging between 0.8-1.4m below the existing ground level.

8.2.4 In view of the above, *Isolated/Strip/Raft Footings* can be adopted for the proposed Apartment.

8.3 Depth of Foundations

8.3.1 The depth at which foundations should be laid will be governed by the following criteria.

a) Top filled up strata/loose soil, if any

b) There should be sufficient thickness of soil above the footing/foundations so that the bearing capacity of the soil can be fully mobilised.

c) Strata below the level of footings/foundations should have the requisite strength to support the anticipated bearing pressures on the foundations without allowing the settlement of footings/foundations to exceed the acceptable limits.

d) Requirements of the type of structure

8.3.2 The investigations reveal that completely weathered rock with pebbles/moderately weathered rock strata is encountered at shallow depths.

8.3.3 Apartment consists of a single basement, open stilt floor at ground level and eleven upper floors. As informed by the client, the basement floor level is likely to be at about 3m below the existing ground level.

8.3.4 In view of the above factors, foundations of the proposed structure can be made to rest at a depth of *4m below the existing ground level*. The strata at the founding level will be Brownish grey completely/moderately weathered rock strata.

8.4 Allowable Bearing Pressure

8.4.1 The Allowable bearing pressure is based on the provisions given in Table 2 of BIS code

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IS 12070 - 1987 (RA - 1995).

8.4.2 An allowable bearing pressure of 40t/m² may be adopted at 4m depth below existing ground level.

8.4.3 The Allowable Settlement to be considered is 12mm as per BIS code IS 13063-1991 (RA 1996) for foundations on weathered rock strata.

8.4.4 In the absence of a plate load test, A modulus of sub grade reaction of 6kg/cm²/cm at a depth of 4m below existing ground level may be adopted based on IS 2950 (Part 1) - 1981 (for a plate size of 30cm) considering the profile.

9.0 RECOMMENDATIONS

9.1 Type of Foundations

Isolated/Strip/Raft Footings

9.2 Depth of Foundations

4m below the existing ground level (considering single basement)

9.3 Allowable Bearing Pressure

Net allowable bearing pressure of 40t/m² can be adopted of widths ≥1.5m.

9.4 Notes

9.4.1 The recommendations given in this report have been arrived at on the basis of design parameters which have been judiciously adopted by giving due consideration to the results of field and laboratory investigations as well as NAGADI's experience of over four decades in working in various types of soil and rock conditions all over India.

9.4.2 The entire report should be studied before adopting the recommendations given in the report.

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9.5 Construction Advisories

9.5.1 The soil of each strata has been described with name, colour etc. During excavation, any

variations observed in the nature and condition of the soil from those given in this Report should be noted and appropriate action should be taken.

9.5.2 The excavated clayey soil can be used for backfilling purposes.

9.5.3 The foundation surface should be watered, the top slush should then be removed. If any loose pockets are observed, the same shall be filled with plum concrete. Foundations can subsequently be placed over such a prepared surface.

9.6 References

A list of IS codes referred for providing the recommendations and that which might be required to implement the same has been given in Appendix A.

10.0 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 this Report are hence valid only for those test locations. However, if there is any change in the subsoil conditions and properties at places between or beyond the chosen test locations, Nagadi may be contacted for further actions. Fresh investigations will have to be carried out at such locations.

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Appendix A

LIST OF IS CODES

Field Investigation

1. IS : 1498 - 1970 : Classification and identification of soils for general engineering purposes (First Revision) (Amendment 2)
2. IS : 1892 - 1979 : Code of practice for sub surface investigations for foundations (First revision)
3. IS : 2131 - 1981 : Method of Standard Penetration Tests for soils (First revision)
4. IS : 2132 - 1986 : Code of practice for thin walled tube sampling of soils (Second revision)

Laboratory Tests

1. IS : 2720 - 1983 (Part 1) : Methods of test for soils: Preparation of dry soil samples for various tests (Second revision)
2. IS : 2720 - 1980 (Part 2) : Method of test for soils: Determination of water content (Second revision) Amendment 1
3. IS : 2720 - 1980 (Part 3/Sec 1) : Method of test for soils : Determination of Specific Gravity : Fine grained soils. (First revision)
4. IS : 2720 - 1980 (Part 3/Sec 2) : Method of test for soils : Determination of Specific Gravity : Fine, Medium & Coarse grained soils. (First revision).
5. IS : 2720 - 1985 (Part 4) : Method of test for soils : Grain size analysis (Second revision)
6. IS : 2720 - 1985 (Part 5) : Method of test for soils : Determination of liquid and plastic limit (Second revision)
7. IS : 2720 - 1977 (Part 40) : Methods of tests for soils: Determination of free swell index of soils.

Foundation Construction

1. IS : 1080 - 1986 : Code of practice for design and construction of shallow foundations on soils (other than raft, ring and shell) (Second revision)
2. IS : 1904 - 1986 : Code of practice for design and construction of foundation in soils: General requirements (Third revision)
3. IS 6403 - 1981 : Code of practice for determination of bearing capacity of shallow foundations : First revision (Amendment 1)
4. IS 8009 - 1976 (Part 1) : Code of practice for calculation of settlements of foundations : Shallow foundations subject to symmetrical static vertical loads (Amendment 2)
5. IS 12070 - 1987 : Design and construction of shallow foundations in rocks (RA - 1995)
6. IS 13063-1991 (RA 1996): Structural safety of buildings on shallow foundations on rocks — Code of practice

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SOIL PROFILE

Project: MSB Apartment Project at Veeriyamapalayam Road, Kalapatti Village, Coimbatore.

B. H. Location: | Water Table: Not met | Term. Depth : 7.0m | B.H. No. : 1

N - Value#	Depth (m)	Soil Description	Grain Size Analysis				Atterberg Limits		In-situ properties		Triaxial Test		
			Gravel (%)	Sand (%)	Silt (%)	Clay (%)	Liquid (%)	Plastic (%)	Density * (g/cm^3)	Water Cont (%)	Type	c (kg/cm^2)	Φ (°)
	0.0	Ground level											
	1.0	Brownish red clayey silty sand with gravels	7	58	20	15	19	13					
	1.4	Change of strata											
>100 (50/9cm)	1.5	Brownish grey Completely Weathered Rock (Charnockites based)											
>100 (30/Nil)	3.0	Brownish grey Moderately Weathered Rock (Charnockites based)											

* Natural Bulk Density # -N Values (Observed)

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Job No. G(C)9879

Sheet No. : 1

ROCK PROFILE

Project : MSB Apartment Project at Veeriyamapalayam Road, Kalapatti Village, Coimbatore.

Location :

B.H. Size :

Water Table (m) : Not met

Term. Depth (m) : 7.0m

BH No.: 1

Depth (m)	Strata Description	No. of Core Pieces of >75	No. of Core Pieces of 25-75	No. of Core Pieces of 10-25	No. of Core Pieces of <10	Core Recovery (%)	RQD (%)	Run Time (min)	Unit Weight (g/cm^3)	Porosity (%)	Water Absorption (%)	Unconfined Compressive Strength (kg/cm^2)	Point Load Strength (kg/cm^2)	Remarks
1.5	Brownish grey Completely Weathered Rock (Charnockites based)													
3.0	Brownish grey Moderately Weathered Rock (Charnockites based)					20	Nil	Nil						
4.5	Brownish grey Moderately Weathered Rock (Charnockites based)				1		5	Nil	2.55	0.61	0.54		161	
6.0	Brownish grey Moderately Weathered Rock (Charnockites based)				2		7	Nil	2.60	0.52	0.44		202	
7.0	Brownish grey Moderately Weathered Rock (Charnockites based)				2		10	Nil	2.59	0.47	0.39		242	

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Job No.: G(C)9679

Sheet No. : 1A

SOIL PROFILE

Project: MSB Apartment Project at Veeriyamapalayam Road, Kalapatti Village, Coimbatore.

B. H. Location: | Water Table: Not met | Term. Depth : 7.0m | B.H. No. : 2

N - Value#	Depth (m)	Soil Description	Grain Size Analysis				Atterberg Limits		In-situ properties		Triaxial Test		
			Gravel (%)	Sand (%)	Silt (%)	Clay (%)	Liquid (%)	Plastic (%)	Density * (g/cm^3)	Water Cont (%)	Type	c (kg/cm^2)	ϕ (°)
	0.0	Ground level											
	0.5	Brownish red clayey silty sand with gravels	3	56	23	18	22	14					
	1.0	Change of strata											
>100 (50/7cm)		Brownish grey Completely Weathered Rock (Charnockites based)											
>100 (30/Nil)	1.5	Brownish grey Completely Weathered Rock (Charnockites based)											
>100 (30/Nil)		Brownish grey Moderately Weathered Rock (Charnockites based)											

*-Natural Bulk Density # -N Values (Observed)

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Job No. : G(C)9679

Sheet No. : 2

ROCK PROFILE

Project : MSB Apartment Project at Veeriyamapalayam Road, Kalapatti Village, Coimbatore.

Location :

B.H. Size :

Water Table (m) : Not met

Term. Depth (m) : 7.0m

BH No.: 2

Depth (m)	Strata Description	No. of Core Pieces of				Core Recovery (%)						RQD (%)	Run Time (min)	Unit Weight (g/cm^3)	Porosity (%)	Water Absorption (%)	Unconfined Compressive Strength (kg/cm^2)	Point Load Strength (kg/cm^2)	Remarks
		<10	10-25	25-75	>75	20	40	60	80	100									
1.0	Brownish grey Completely Weathered Rock (Charnockites based)																		
2.5	Brownish grey Completely Weathered Rock (Charnockites based)										Nil	Nil							
4.0	Brownish grey Moderately Weathered Rock (Charnockites based)										S.P	Nil							S.P - Small Pieces
5.5	Brownish grey Moderately Weathered Rock (Charnockites based)	2									4	Nil		2.58	0.58	0.43		161	
7.0	Brownish grey Moderately Weathered Rock (Charnockites based)	3									9	Nil		2.63	0.43	0.38		242	

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Sheet No. : 2A

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SOIL PROFILE

Project: MSB Apartment Project at Veeriyamapalayam Road, Kalapatti Village, Coimbatore.

B. H. Location: | Water Table: Not met | Term. Depth : 10.0m | B.H. No. : 3

N - Value#	Depth (m)	Soil Description	Grain Size Analysis				Atterberg Limits		In-situ properties		Triaxial Test		
			Gravel (%)	Sand (%)	Silt (%)	Clay (%)	Liquid (%)	Plastic (%)	Density * (g/cm^3)	Water Cont (%)	Type	c (kg/cm^2)	ϕ (°)
	0.0	Ground level											
		Brownish red clayey silty sand with gravels	3	55	24	18	22	14					
	0.9	Change of strata											
>100 (50/4cm)	1.0	Brownish grey Completely Weathered Rock (Charnockites based)											
>100 (50/12cm)	2.5	Brownish grey Completely Weathered Rock (Charnockites based)											
100 (50/11)	4.1	Brownish grey Moderately Weathered Rock (Charnockites based)											

*-Natural Bulk Density # -N Values (Observed)

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Job No. : G(C)9679

Sheet No. : 3

ROCK PROFILE

Project : MSB Apartment Project at Veeriyamapalayam Road, Kalapatti Village, Coimbatore.

Location :

B.H. Size :

Water Table (m) : Not met

Term. Depth (m) : 10.0m

BH No.: 3

Depth (m)	Strata Description	No. of Core Pieces of				Core Recovery (%)						RQD (%)	Run Time (min)	Unit Weight (g/cm^3)	Porosity (%)	Water Absorption (%)	Unconfined Compressive Strength (kg/cm^2)	Point Load Strength (kg/cm^2)	Remarks
		<10	10-25	25-75	>75	20	40	60	80	100									
1.0	Brownish grey Completely Weathered Rock (Charnockites based)																		
2.5	Brownish grey Completely Weathered Rock (Charnockites based)										Nil	Nil							
4.0	Brownish grey Moderately Weathered Rock (Charnockites based)										Nil	Nil							S.P - Small Pieces
5.5	Brownish grey Moderately Weathered Rock (Charnockites based)										S.P	Nil							
7.0	Brownish grey Moderately Weathered Rock (Charnockites based)	1									4	Nil		2.60	0.57	0.42		161	
8.5	Brownish grey Moderately Weathered Rock (Charnockites based)	2									7	Nil		2.57	0.59	0.51		202	
10.0	Brownish grey Moderately Weathered Rock (Charnockites based)	2									8	Nil		2.63	0.42	0.37		282	

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Job No. : G(C)9679

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SOIL PROFILE

Project: MSB Apartment Project at Veeriyamapalayam Road, Kalapatti Village, Coimbatore.

B. H. Location: | Water Table: Not met | Term. Depth : 10.0m | B.H. No. : 4

N - Value#	Depth (m)	Soil Description	Grain Size Analysis				Atterberg Limits		In-situ properties		Triaxial Test		
			Gravel (%)	Sand (%)	Silt (%)	Clay (%)	Liquid (%)	Plastic (%)	Density * (g/cm^3)	Water Cont (%)	Type	c (kg/cm^2)	ϕ (°)
	0.0	Ground level											
58	1.0	Brownish red clayey silty sand with gravels	7	55	22	16	20	14			CD$	0.12	26
	1.3	Change of strata											
>100 (35/Nil)	1.5	Brownish grey Completely Weathered Rock (Charnockites based)											
>100 (50/8cm)	3.0	Brownish grey Completely Weathered Rock (Charnockites based)											
>100 (50/4cm)	4.5	Brownish grey Moderately Weathered Rock (Charnockites based)											

*-Natural Bulk Density # -N Values (Observed)

$ - Remoulded Sample

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Job No. G(C)9679

Sheet No.: 4

ROCK PROFILE

Project : MSB Apartment Project at Veeriyamapalayam Road, Kalapatti Village, Coimbatore.

Location :

B.H. Size :

Water Table (m) : Not met

Term. Depth (m) : 10.0m

BH No.: 4

Depth (m)	Strata Description	No. of Core Pieces of				Core Recovery (%)						RQD (%)	Run Time (min)	Unit Weight (g/cm^3)	Porosity (%)	Water Absorption (%)	Unconfined Compressive Strength (kg/cm^2)	Point Load Strength (kg/cm^2)	Remarks
		<10	10-25	25-75	>75	20	40	60	80	100									
1.5	Brownish grey Completely Weathered Rock (Charnockites based)																		
3.0	Brownish grey Completely Weathered Rock (Charnockites based)										Nil	Nil							
4.5	Brownish grey Moderately Weathered Rock (Charnockites based)										Nil	Nil							S.P - Small Pieces
6.0	Brownish grey Moderately Weathered Rock (Charnockites based)										S.P	Nil							
7.5	Brownish grey Moderately Weathered Rock (Charnockites based)	1									3	Nil		2.59	0.53	0.48		242	
9.0	Brownish grey Moderately Weathered Rock (Charnockites based)	2									6	Nil		2.63	0.45	0.37		202	
10.0	Brownish grey Moderately Weathered Rock (Charnockites based)	2									8	Nil		2.61	0.49	0.41		282	

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Job No. : G(C)9679

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SOIL PROFILE

Project: MSB Apartment Project at Veeriyamapalayam Road, Kalapatti Village, Coimbatore.

B. H. Location: | Water Table: Not met | Term. Depth : 6.5m | B.H. No. : 5

N - Value#	Depth (m)	Soil Description	Grain Size Analysis				Atterberg Limits		In-situ properties		Triaxial Test		
			Gravel (%)	Sand (%)	Silt (%)	Clay (%)	Liquid (%)	Plastic (%)	Density * (g/cm^3)	Water Cont (%)	Type	c (kg/cm^2)	Φ (°)
	0.0	Ground level											
66	1.0	Brownish red clayey silty sand with gravels	6	54	25	15	20	14			CD$	0.11	27
	1.3	Change of strata											
>100 (50/12cm)	1.5	Brownish grey Completely Weathered Rock (Charnockites based)											
>100 (35/Nil)	3.0	Brownish grey Moderately Weathered Rock (Charnockites based)											

*-Natural Bulk Density # -N Values (Observed)
$- Remoulded Sample

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Job No. G(C)9679

Sheet No. : 5

ROCK PROFILE

Project : MSB Apartment Project at Veeriyamapalayam Road, Kalapatti Village, Coimbatore.

Location :

B.H. Size :

Water Table (m) : Not met

Term. Depth (m) : 6.5m

BH No.: 5

Depth (m)	Strata Description	No. of Core Pieces of >75	No. of Core Pieces of 25-75	No. of Core Pieces of 10-25	No. of Core Pieces of <10	Core Recovery (%) 100	Core Recovery (%) 80	Core Recovery (%) 60	Core Recovery (%) 40	Core Recovery (%) 20	RQD (%)	Run Time (min)	Unit Weight (g/cm^3)	Porosity (%)	Water Absorption (%)	Unconfined Compressive Strength (kg/cm^2)	Point Load Strength (kg/cm^2)	Remarks
1.5	Brownish grey Completely Weathered Rock (Charnockites based)																	
3.0	Brownish grey Moderately Weathered Rock (Charnockites based)										Nil	Nil						
4.5	Brownish grey Moderately Weathered Rock (Charnockites based)										S.P	Nil						S.P - Small Pieces
6.5	Brownish grey Moderately Weathered Rock (Charnockites based)				3						6	Nil	2.58	0.51	0.37		242	

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Job No.: G(C)9679

Sheet No.5A

SOIL PROFILE

Project:MSB Apartment Project at Veeriyamapalayam Road, Kalapatti Village, Coimbatore.

B. H. Location: | Water Table: Not met | Term. Depth : 6.0m | B.H. No. : 6

N - Value#	Depth (m)	Soil Description	Grain Size Analysis				Atterberg Limits		In-situ properties		Triaxial Test		
			Gravel (%)	Sand (%)	Silt (%)	Clay (%)	Liquid (%)	Plastic (%)	Density * (g/cm^3)	Water Cont (%)	Type	c (kg/cm^2)	Φ (°)
	0.0	Ground level											
		Brownish red clayey silty sand with gravels	5	52	26	17	22	15					
	0.8	Change of strata											
>100 (50/8cm)	1.0	Brownish grey Completely Weathered Rock (Charnockites based)											
>100 (30/Nil)	2.5	Brownish grey Moderately Weathered Rock (Charnockites based)											

*-Natural Bulk Density # -N Values (Observed)

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Job No. : G(C)9679

Sheet No. : 6

ROCK PROFILE

Project : MSB Apartment Project at Veeriyamapalayam Road, Kalapatti Village, Coimbatore.

Location :

B.H. Size :

Water Table (m) : Not met

Term. Depth (m) : 6.0m

BH No.: 6

Depth (m)	Strata Description	No. of Core Pieces of				Core Recovery (%)					RQD (%)	Run Time (min)	Unit Weight (g/cm^3)	Porosity	Water Absorption (%)	Unconfined Compressive Strength (kg/cm^2)	Point Load Strength (kg/cm^2)	Remarks
		>75	25-75	10-25	<10	100	80	60	40	20								
1.0	Brownish grey Completely Weathered Rock (Charnockites based)																	
2.5	Brownish grey Moderately Weathered Rock (Charnockites based)										Nil	Nil						S.P - Small Pieces
4.0	Brownish grey Moderately Weathered Rock (Charnockites based)										S.P	Nil						
6.0	Brownish grey Moderately Weathered Rock (Charnockites based)				3						5	Nil	2.60	0.62	0.43		202	

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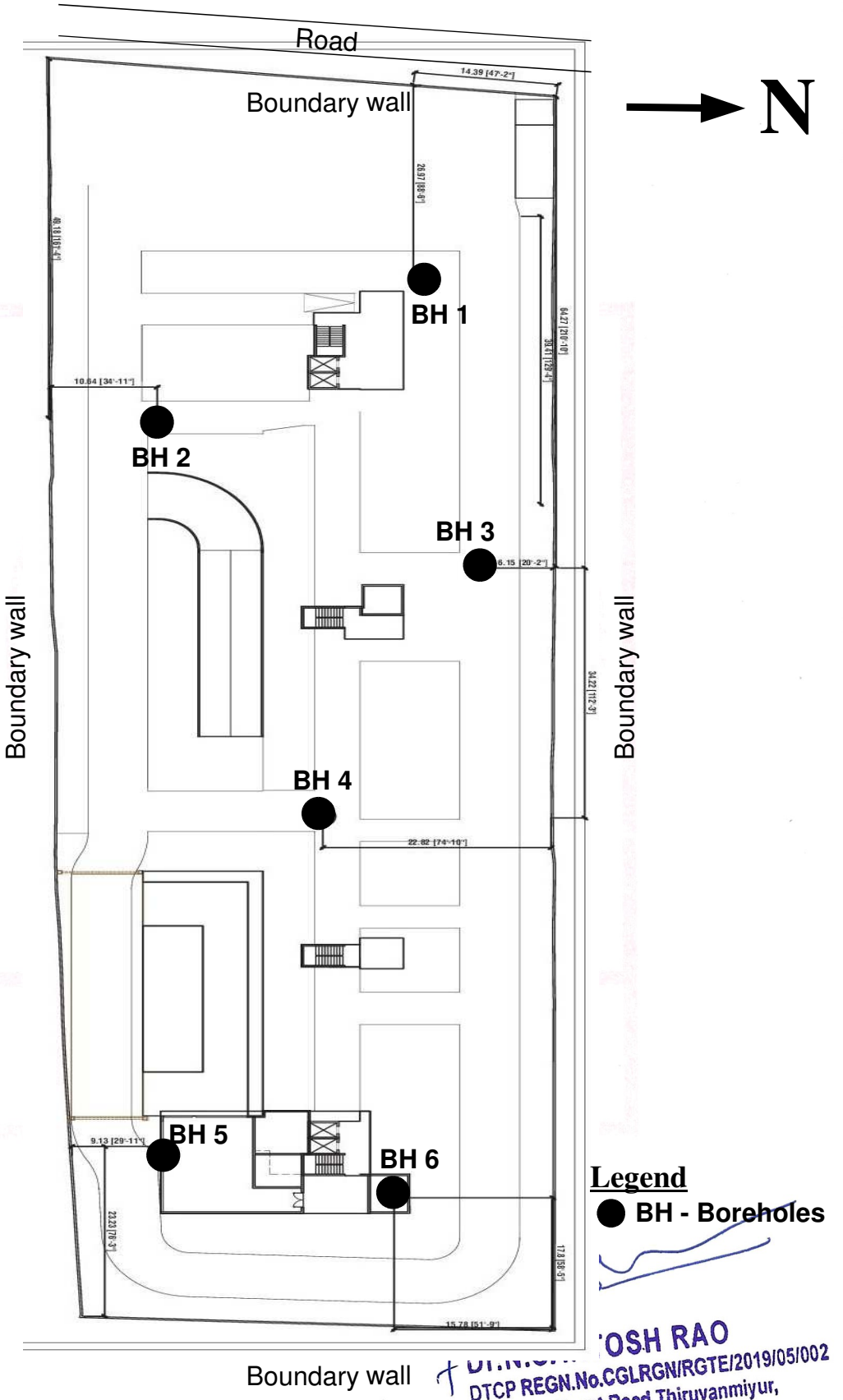
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Job No.: G(C)9679

Sheet No. : 6A



LOCATION PLAN (NOT TO SCALE)

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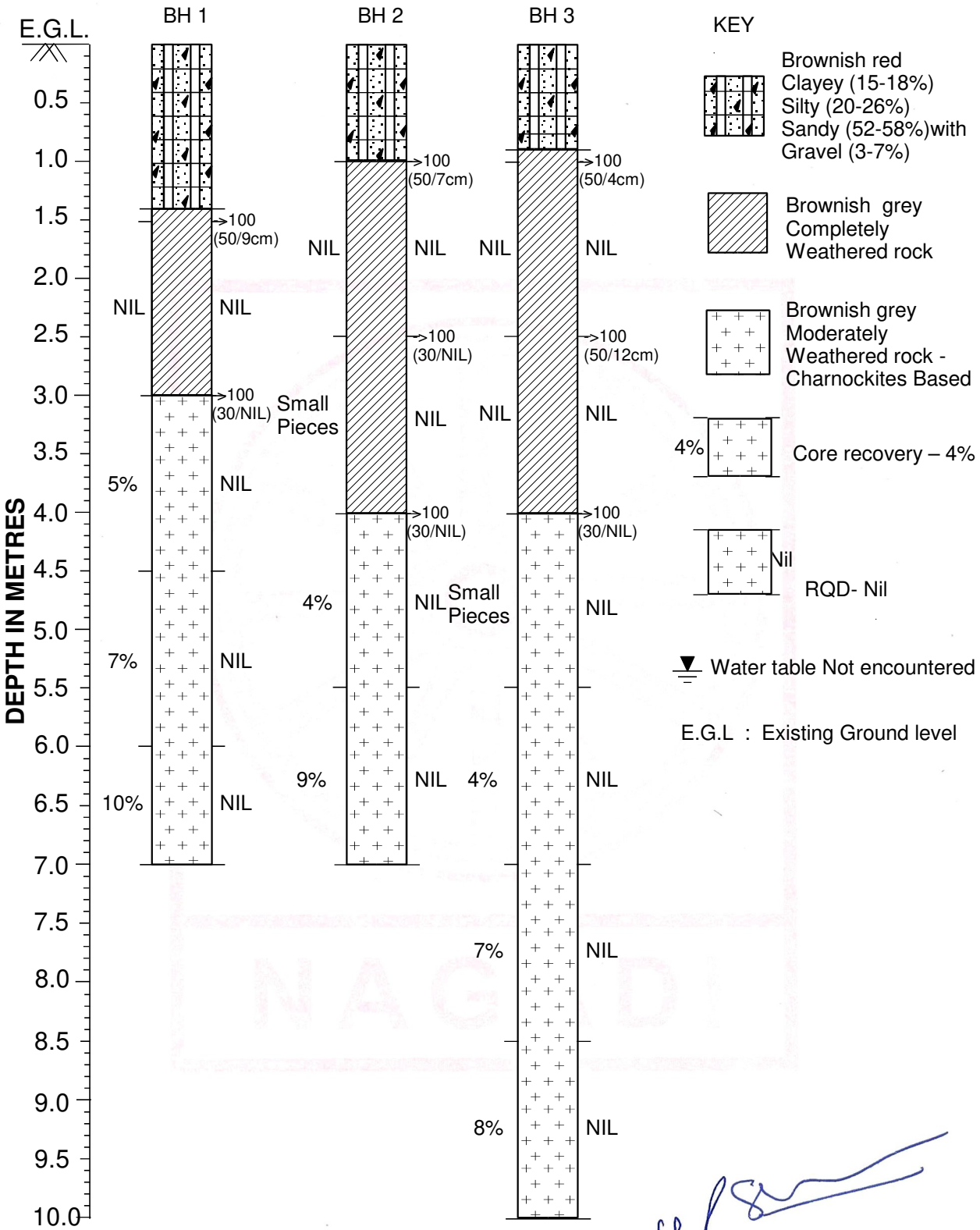
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Job No. : G(C)9679

Sheet No. : 1



COMPILED SOIL PROFILE

GEOTECHNICAL INVESTIGATION FOR APARTMENT AT MSB APARTMENT PROJECT AT VEERIYAMAPALAYAM ROAD, KALAPATTI VILLAGE, COIMBATORE

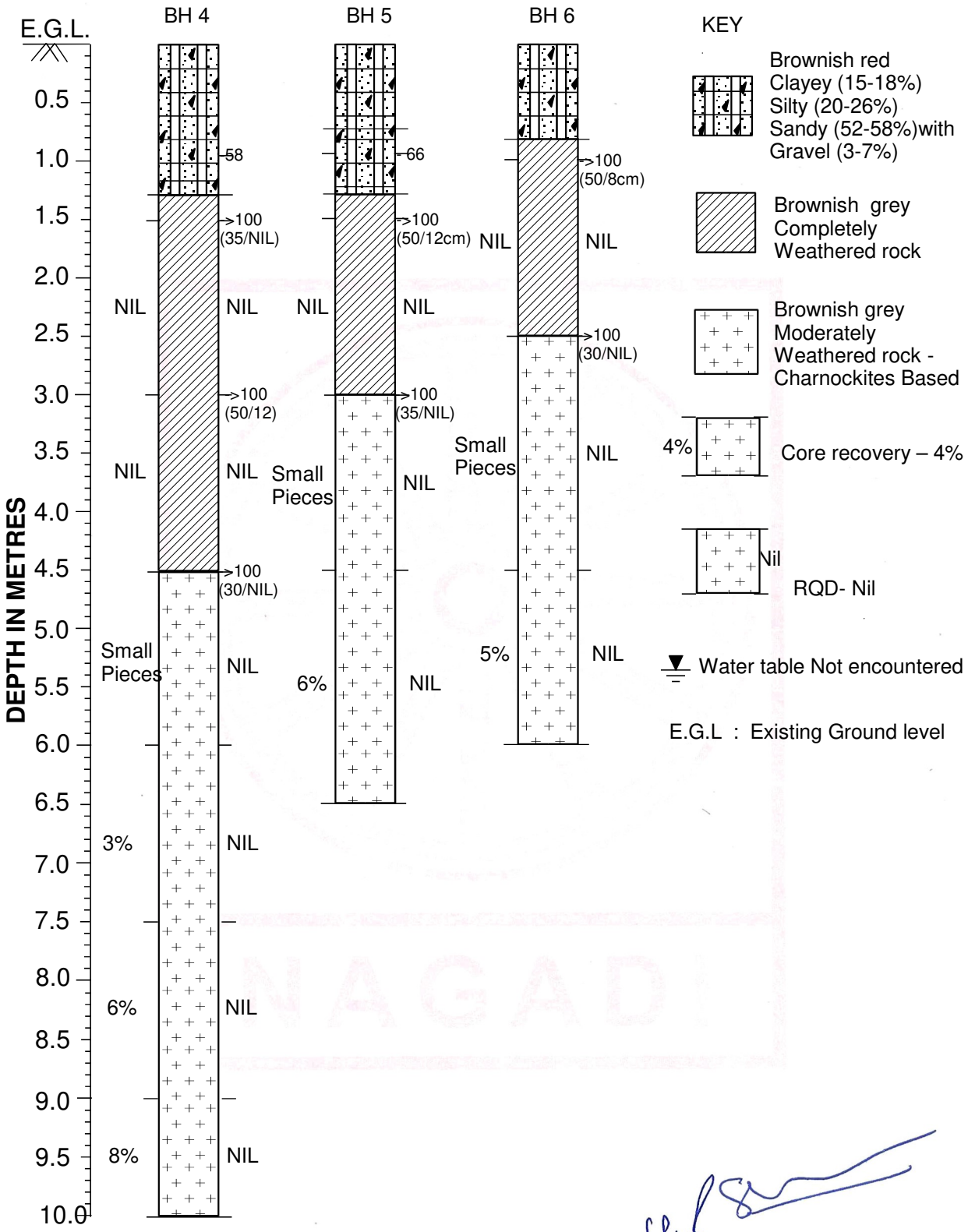
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Job No. : G(C)9679

Sheet No. : 2a



COMPILED SOIL PROFILE

GEOTECHNICAL INVESTIGATION FOR APARTMENT AT MSB APARTMENT PROJECT AT VEERIYAMAPALAYAM ROAD, KALAPATTI VILLAGE, COIMBATORE

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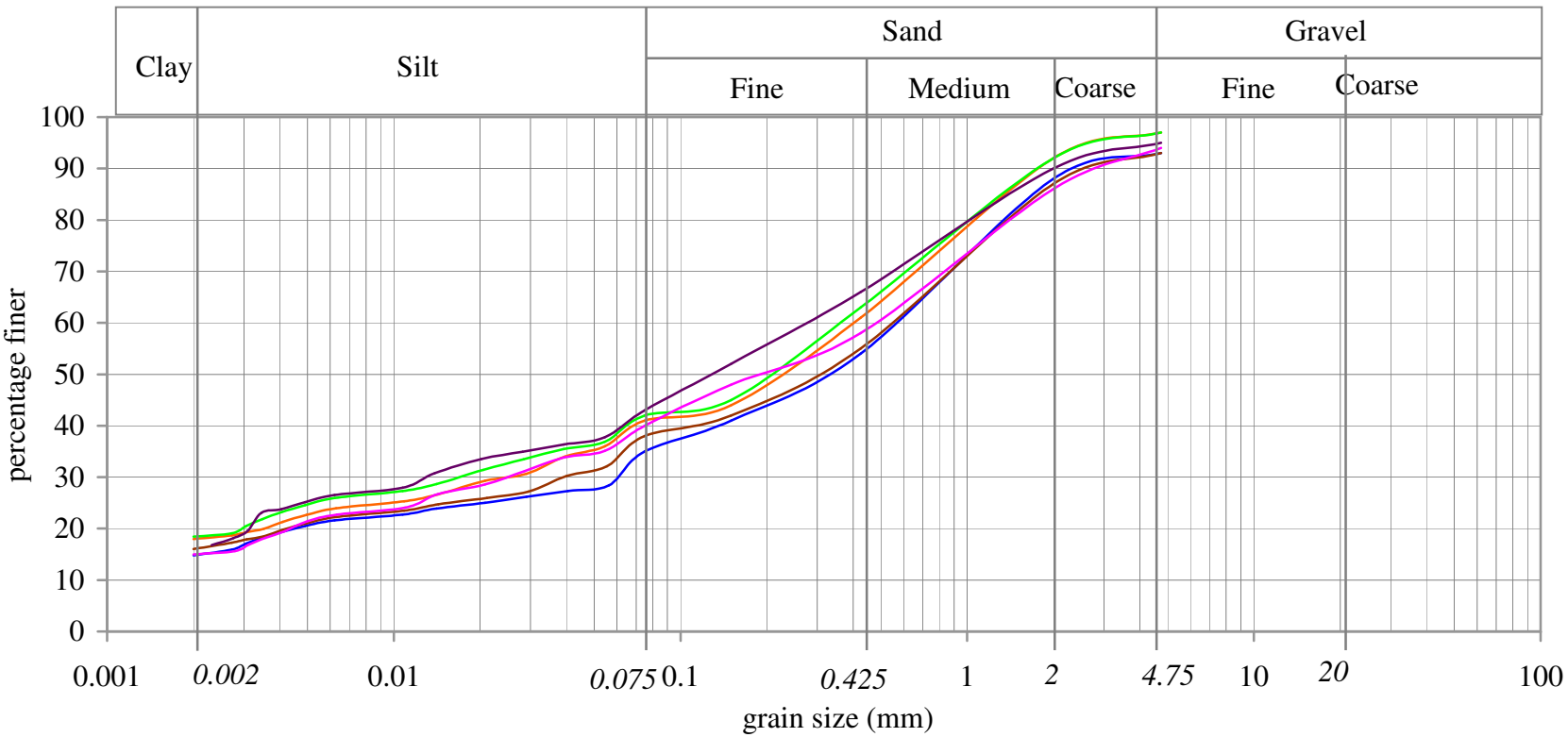
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Job No. G(C)9679

Sheet No. : 3



Line Style	Bore hole	Depth (m)	Description	Gravel (%)	Sand (%)	Silt (%)	Clay (%)	d_{60}	d_{10}	U
	1	1.0	Clayey silty sand with gravels	7	58	20	15	0.580		
	2	0.5	Clayey silty sand with gravels	3	56	23	18	0.410		
	3	0.5	Clayey silty sand with gravels	3	55	24	18	0.370		
	4	1.0	Clayey silty sand with gravels	7	55	22	16	0.550		
	5	1.0	Clayey silty sand with gravels	6	54	25	15	0.500		
	6	0.5	Clayey silty sand with gravels	5	52	26	17	0.280		

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our services doesn't just end there

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Legal & Documentation Services

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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

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