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SOIL EXPLORATION REPORT

For

CRESCENTZ HOMES & INFRASTRUCTURE PVT LTD.,

Rajam , Arumugam, Sivanesan & Gowtham Sivanesan

Ref:GEO- 071-2013

PROJECT NAME:

CONSTRUCTION OF NEW APARTMENT WITH (Stilt+ 4) @ Old S.F. No-446, Ward no-44, Block No 1, New T S No 54/1 & 2,Kumarapalayam Village, Coimbatore Municipal Corporation

GEODESIGN

Soil Investigations, SPT Test, DTH, Diamond core drilling, & Grouting works

NO – 19/1,RS – NAGAR, KAVUNDAMPALAYAM , Coimbatore-641030

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1. INTRODUCTION

1.1. PURPOSE AND SCOPE

Geo-technical site investigation work for. "CONSTRUCTION OF NEW APARTMENT WITH (Stilt +4) @ Old S.F. No-446, Ward no-44, Block No 1, New T S No 54/1 & 2,Kumarapalayam Village, Coimbatore Municipal Corporation". The primary purpose of our investigation is to obtain data to develop foundation design recommendations for the above work. At, first instance, Six boreholes was bored at site. Client's representatives selected the locations of borings. To accomplish these purposes, the following tasks were performed:

1. Detailed soil borings were done up to stratum to explore the sub surface stratigraphy and obtain soil samples for testing.
2. Field and laboratory tests were conducted to evaluate the index and engineering properties of the soils
3. Engineering analysis were performed to develop foundation design information for proposed structure

1.2. THE SITE:

CONSTRUCTION OF NEW APARTMENT WITH (Stilt +4) @ Old S.F. No-446, Ward no-44, Block No 1, New T S No 54/1 & 2,Kumarapalayam Village, Coimbatore Municipal Corporation

2. FIELD INVESTIGATIONS

2.1. ROTARY BORING

Rotary drilling technique was adapted using Calyx machine in this field. In this method, boring is effected by the cutting action of a rotating bit that is kept in firm contact with the bottom of the hole. The bit is attached to the lower end of a hollow drill rod that is rotated by a suitable chuck. Drilling mud (usually Bentonite) is continuously forced down the hollow drill rods. The mud returning upwards though the annular space between the drill rods and the side of the hold bring the cutting to the surface.

2.2. STANDARD PENETRATION TEST

It is now most commonly used in site test. The test measures the penetration resistance of the split spoon sampler, when it is driven into the soil, at the bottom of a borehole in a standard manner. The N-value, which is the number of blow required to achieve 300mm penetration of the soil, indicates the relative density of sand or gravel, the consistency of other soil such as silts or clays and the strength of weak rocks. The test is described in IS 2131 - 1981. The split spoon

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sampler is attached to stiff drill rod and lowered to the bottom of the bore hold. A standard blow consists of dropping a mass of 65kg free fall through 760 mm on to an anvil at the top of the rods and ensuing that this amount of dynamic energy is transferred to the sampler as much as possible.

The number of blows required to achieve each 150mm penetration is recorded for a fall penetration of 450mm. The initial 150mm penetration is referred to as seating drive and the blows required for this penetration are not considered as this zone is in disturbed soil. The next 300mm of penetration is referred to as the test drive and the number of blows required to achieve this fully is termed the penetration resistance or N-value.

2.3. SAMPLING

Soil samples were collected through Split spoon and rock core sample were collected through single tube core barrel.

3.LABORATARY TESTS

The operations to be performed in the laboratory depend upon the type of the nature of data required for the problem at hand. In case of cohesionless material, like sand, the laboratory tests are usually minimum and the design parameters are worked out from field test data such as form SPT- N value, Core resistance and plate load test data.

In the case of cohesive soils, the programme of laboratory testing can vary from carrying out simple tests such as unconfined tests to comprehensive study of soil behaviour using triaxial shear tests and consolidation tests.

Following laboratory tests are conducted.

For cohesionless soil

a) Specific gravity
b) Sieve analysis
c) Direct shear test

For cohesive soil

a) Specific gravity
b) Natural moisture content
c) Atterberg's limits
d) Sieve Analysis
e) Unconfined compression test
f) Consolidation test
g) Triaxal test

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4. FOUNDATION ANALYSIS

4.1 Soil Profile

The profile of the area as observed in the bore hole is given in the chart. The water level is observed far blow. The soil layer up to 10.00m depth is SOFT DISINTEGRATED ROCK Was obtained .

4.2 Safe Bearing Capacity

The bearing capacity of granular soil depends upon the unit weight and angle of internal friction of the soil. These two properties of granular soils are determined by standard penetration tests.

The allowable bearing pressure based on tolerable settlement has been established empirically by Terzaghi and Peck, 1948 and may be expressed by the equation.

Safe bearing capacity (SBC) = $3.5\ (N-3)\ \{(B+0.3)/2B\}^2$ X RW X FD +P

Where

N = Collected N value N2

B = Width of Foundation = constant 1

RW = Water Correction = constant 0.5

FD = Depth of Factor = constant 1

P = Over Burden Pressure

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5.RECOMMENDATION

- The site of CRESCENTZ HOMES at Old S.F. No-446, Ward no-44, Block No 1, New T S No 54/1 & 2,Kumarapalayam Village, Coimbatore Municipal Corporation the bore hole investigation was conduct and SBC was determined.
- The site up to 10.00 m SOFT DISINTEGRATED ROCK was obtained.
- It is recommended that open foundations in the form of Inverted Raft.
- The depth of foundation goes up to Hard stratum (@ 4.50m).
- The SBC at 4.50m is 37.88 t/m^2 is determined in All Boreholes.
- The SBC at 10.00m is 41.73 t/m^2 is determined in All Borehole.
- Connecting all Columns in Longitudinal and Transverse directions in Foundation Level.

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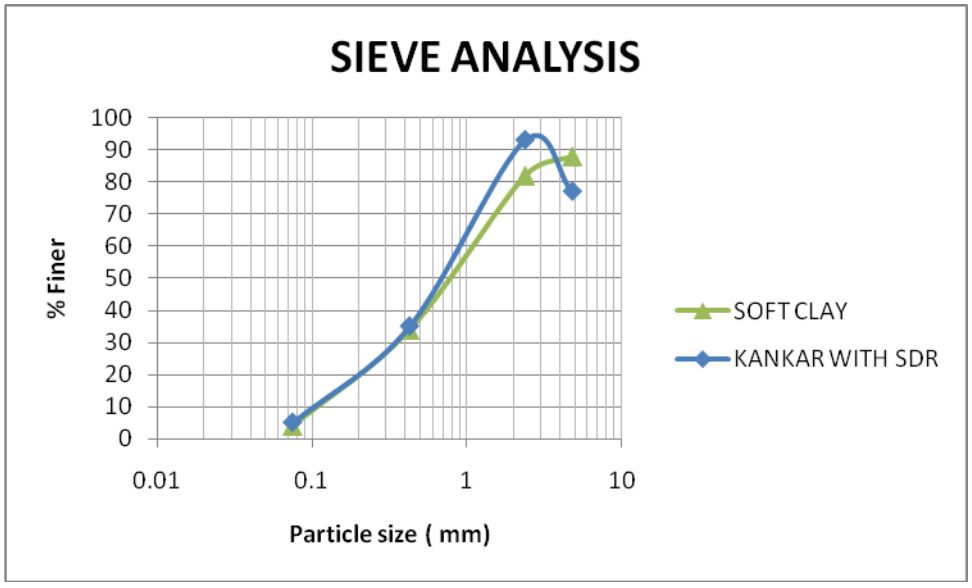
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GEOTECHNICAL ENGINEER

6. GRAIN SIZE ANALYSIS

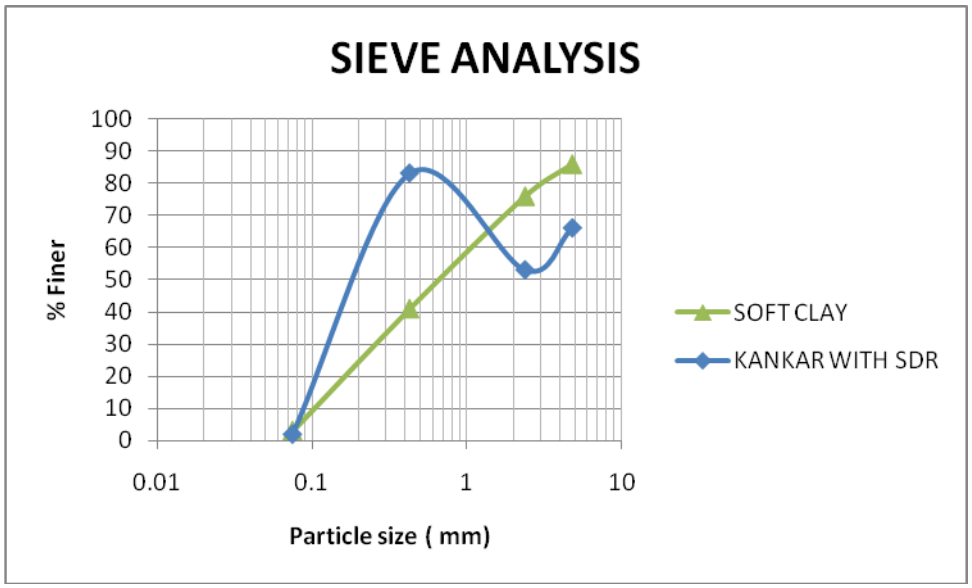
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Soil Investigation done by: GEODESIGN
Soil Exploration
Contractor,
COIMBATORE - 30

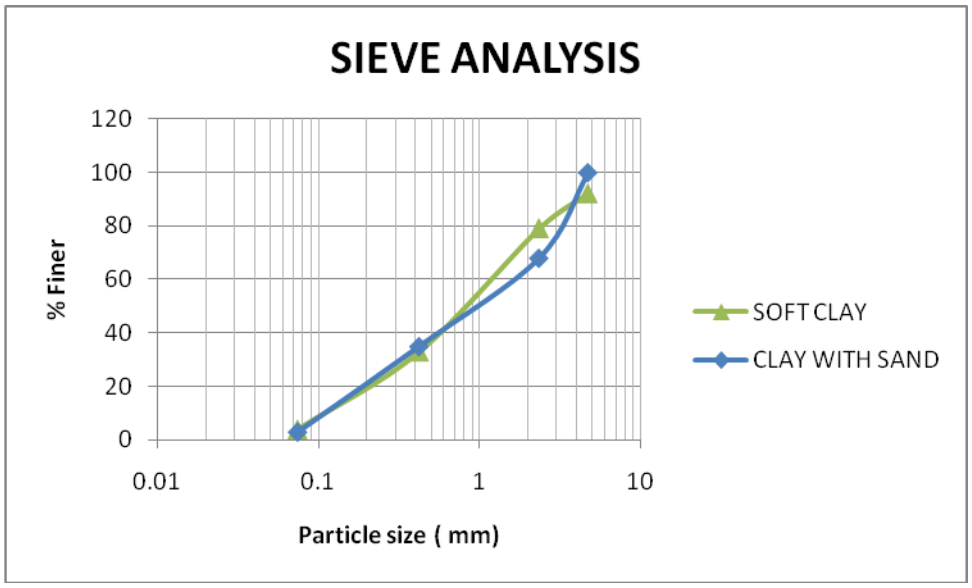


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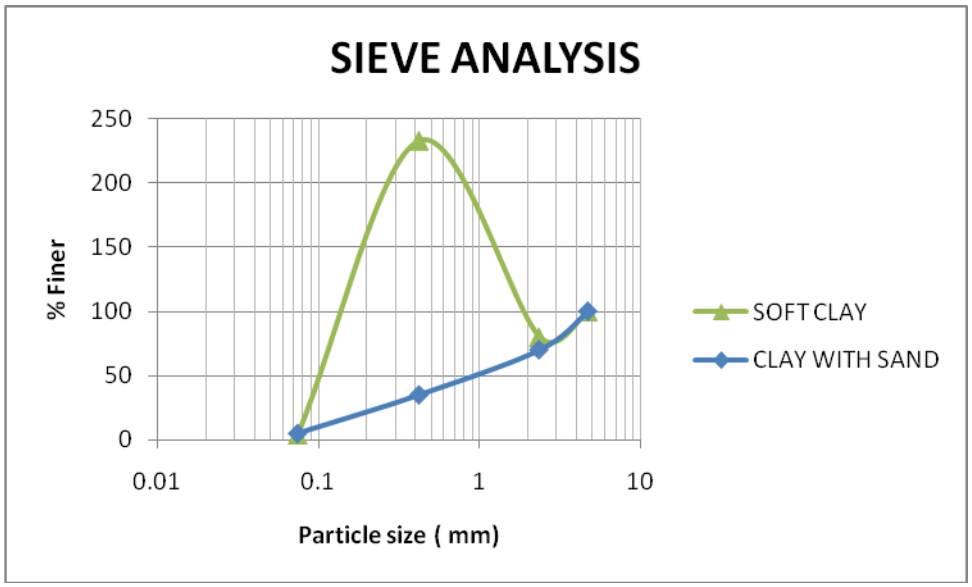


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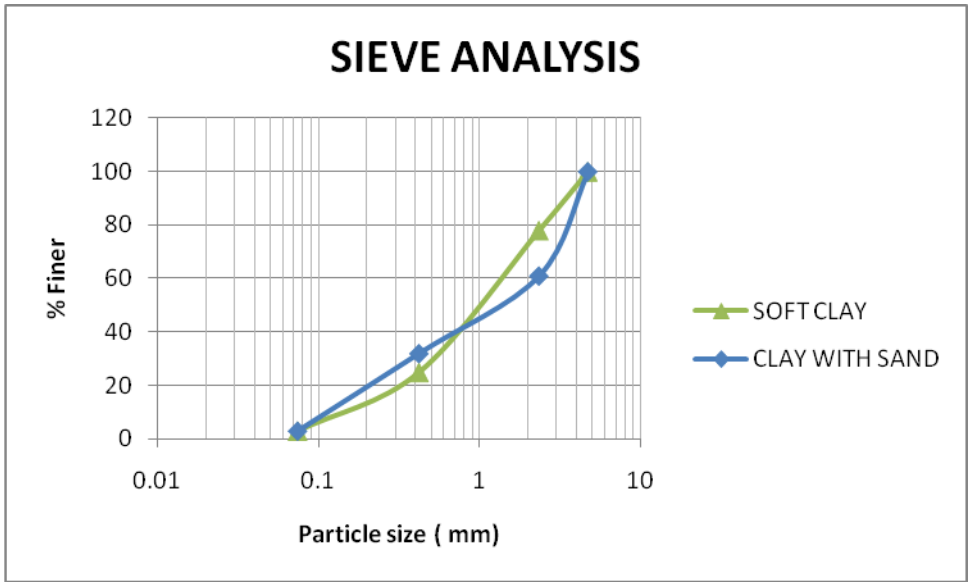


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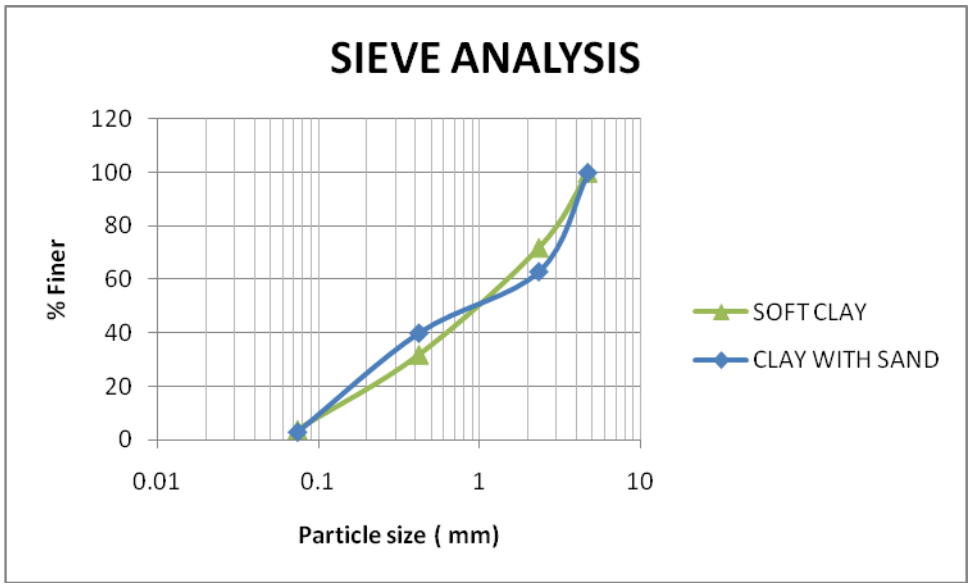


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BH – 5



BH – 6

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7. REFERENCES

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Bore Log

Ref: GEO/ 071/ 2013

Name of Project: CONSTRUCTION OF NEW APARTMENT WITH (STILT +4) @ Old S.F. No-446, Ward no-44, Block No 1, New T S No 54/1 & 2,Kumarapalayam Village, Coimbatore Municipal Corporation

Soil Investigation done by: GEODESIGN Soil Exploration Contractor, COIMBATORE - 30

Type of Drilling: Rotary – Mud Circulation

G.W.T- Not met

Bed Level :

Chainage :

Bore hole No: 1

Location/R.L:

Date of commencement : 31.05.2013

Date of completion : 31.05.2013

Depth below G.L.(R.L)	Soil Profile	Description of Soil	Thickness of layer (m)	Standard penetration test data: Depth at which test is conducted	N – Value- Depth of penetration: 15cm	30cm	45cm	For 30cm	Relative density / Consistency	Graphical representation of penetration resistance
				1.50	4	6	8	14	Medium	
				3.00	7	16	23	39	Dense	
				4.50	>50	-	-	>50	V.Dense	
				6.00	>50	-	-	>50	-do-	
				7.50	>50	-	-	>50	-do-	
				9.00	>50	-	-	>50	-do-	
				10.00	>50	-	-	>50	-do-	
4.00		**Soft Clay**	4.00							
		Kankar with Soft Disintegrated Rock	6.00							
10.00m		End of Bore hole								

0 20 40 60 80 100

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Contd…..2

Bore Log

Ref: GEO/ 071/ 2013

Name of Project: CONSTRUCTION OF NEW APARTMENT WITH (STILT +4) @ Old S.F. No-446, Ward no-44, Block No 1, New T S No 54/1 & 2,Kumarapalayam Village, Coimbatore Municipal Corporation

Soil Investigation done by: GEODESIGN Soil Exploration Contractor, COIMBATORE - 30

Type of Drilling: Rotary – Mud Circulation

G.W.T- Not met

Bed Level :

Chainage :

Bore hole No: 2

Location/R.L:

Date of commencement : 01.06.2013

Date of completion : 01.06.2013

Depth below G.L.(R.L)	Soil Profile	Description of Soil	Thickness of layer (m)	Standard penetration test data: Depth at which test is conducted	N – Value- Depth of penetration: 15cm	30cm	45cm	For 30cm	Relative density / Consistency	Graphical representation of penetration resistance
				1.50	6	4	9	13	Medium	
				3.00	9	17	25	42	Dense	
		Soft Clay	1.90	4.50	>50	-	-	>50	V.Dense	
1.90				6.00	>50	-	-	>50	-do-	
				7.50	>50	-	-	>50	-do-	
				9.00	>50	-	-	>50	-do-	
		Kankar with Soft Disintegrated Rock	2.60	10.00	>50	-	-	>50	-do-	
4.50										
		Soft Disintegrated Rock	5.50							
10.00m		End of Bore hole								

0 20 40 60 80 100

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Contd…..3

Bore Log

Ref: GEO/ 071/ 2013

Name of Project: CONSTRUCTION OF NEW APARTMENT WITH (STILT +4) @ Old S.F. No-446, Ward no-44, Block No 1, New T S No 54/1 & 2,Kumarapalayam Village, Coimbatore Municipal Corporation

Soil Investigation done by: GEODESIGN Soil Exploration Contractor, COIMBATORE - 30

Type of Drilling: Rotary – Mud Circulation

G.W.T- Not met

Bed Level :

Chainage :

Bore hole No: 3

Location/R.L:

Date of commencement : 01.06.2013

Date of completion : 02.06.2013

Depth below G.L.(R.L)	Soil Profile	Description of Soil	Thickness of layer (m)	Standard penetration test data						Graphical representation of penetration resistance
				Depth at which test is conducted	N – Value- Depth of penetration				Relative density / Consistency	0 10 20 40 60 80
					15cm	30cm	45cm	For 30cm		
				1.50	10	8	12	20	Medium	
				3.00	17	>50	-	>50	V.Dense	
1.20		**Soft Clay**	1.20	4.50	>50	-	-	>50	-do-	
				6.00	>50	-	-	>50	-do-	
				7.50	>50	-	-	>50	-do-	
1.90		**Clay with Sand**	0.70	9.00	>50	-	-	>50	-do-	
				10.00	>50	-	-	>50	-do-	
		Soft Disintegrated Rock	8.10							
10.00m		End of Bore hole								

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Contd…..4

Bore Log

Ref: GEO/ 071/ 2013

Name of Project: CONSTRUCTION OF NEW APARTMENT WITH (STILT +4) @ Old S.F. No-446, Ward no-44, Block No 1, New T S No 54/1 & 2,Kumarapalayam Village, Coimbatore Municipal Corporation

Soil Investigation done by: GEODESIGN Soil Exploration Contractor, COIMBATORE - 30

Type of Drilling: Rotary – Mud Circulation

G.W.T- Not met

Bed Level :

Chainage :

Bore hole No: 4

Location/R.L:

Date of commencement : 02.06.2013

Date of completion : 02.06.2013

Depth below G.L.(R.L)	Soil Profile	Description of Soil	Thickness of layer (m)	Standard penetration test data						Graphical representation of penetration resistance
				Depth at which test is conducted	N – Value- Depth of penetration				Relative density / Consistency	0 10 20 40 60 80
					15cm	30cm	45cm	For 30cm		
1.30		**Soft Clay**	1.30	1.50	8	10	9	19	Medium	
				3.00	20	25	>50	>50	V.Dense	
				4.50	>50	-	-	>50	-do-	
2.00		**Clay with Sand**	0.70	6.00	>50	-	-	>50	-do-	
				7.50	>50	-	-	>50	-do-	
		Soft isintegrated Rock	8.00	9.00	>50	-	-	>50	-do-	
				10.00	>50	-	-	>50	-do-	
10.00m		End of Bore hole								

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Bore Log

Ref: GEO/ 071/ 2013

Name of Project: CONSTRUCTION OF NEW APARTMENT WITH (STILT +4) @ Old S.F. No-446, Ward no-44, Block No 1, New T S No 54/1 & 2,Kumarapalayam Village, Coimbatore Municipal Corporation

Soil Investigation done by: GEODESIGN Soil Exploration Contractor, COIMBATORE - 30

Type of Drilling: Rotary – Mud Circulation

G.W.T- Not met

Bed Level :

Chainage :

Bore hole No: 5

Location/R.L:

Date of commencement : 03.06.2013

Date of completion : 03.06.2013

Depth below G.L.(R.L)	Soil Profile	Description of Soil	Thickness of layer (m)	Standard penetration test data: Depth at which test is conducted	N – Value- Depth of penetration: 15cm	30cm	45cm	For 30cm	Relative density / Consistency	Graphical representation of penetration resistance
										0 20 40 60 80 100
				1.50	4	5	8	13	Medium	
				3.00	6	10	17	27	-do-	
				4.50	>50	-	-	>50	V.Dense	
				6.00	>50	-	-	>50	-do-	
				7.50	>50	-	-	>50	-do-	
				9.00	>50	-	-	>50	-do-	
				10.00	>50	-	-	>50	-do-	
		Soft Clay	3.40							
3.40										
		Clay with Sand	0.50							
3.90										
		Soft isintegrated Rock	6.10							
10.00m		End of Bore hole								

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Bore Log

Ref: GEO/ 071/ 2013

Name of Project: CONSTRUCTION OF NEW APARTMENT WITH (STILT +4) @ Old S.F. No-446, Ward no-44, Block No 1, New T S No 54/1 & 2,Kumarapalayam Village, Coimbatore Municipal Corporation

Soil Investigation done by: GEODESIGN Soil Exploration Contractor, COIMBATORE - 30

Type of Drilling: Rotary – Mud Circulation

G.W.T- Not met

Bed Level :

Chainage :

Bore hole No: 6

Location/R.L:

Date of commencement : 04.06.2013

Date of completion : 04.06.2013

Depth below G.L.(R.L)	Soil Profile	Description of Soil	Thickness of layer (m)	Standard penetration test data						Graphical representation of penetration resistance
				Depth at which test is conducted	N – Value- Depth of penetration				Relative density / Consistency	0 10 20 30 40 60
					15cm	30cm	45cm	For 30cm		
				1.50	14	18	17	35	Medium	
				3.00	10	13	10	23	-do-	
				4.50	>50	-	-	>50	V.Dense	
				6.00	>50	-	-	>50	-do-	
				7.50	>50	-	-	>50	-do-	
				9.00	>50	-	-	>50	-do-	
				10.00	>50	-	-	>50	-do-	
		Soft Clay	3.50							
3.50										
3.95		**Clay with Sand**	0.45							
		Soft isintegrated Rock	6.05							
10.00m		End of Bore hole								

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SOIL TEST RESULTS

Name of Project: CONSTRUCTION OF NEW APARTMENT WITH (STILT +4) @ Old S.F. No-446, Ward no-44, Block No 1, New T S No 54/1 & 2,Kumarapalayam Village, Coimbatore Municipal Corporation

GEODESIGN Soil Exploration Contractor, COIMBATORE-30	BORE NUMBER -1 CHAINAGE:	REDUCED LEVEL:	GROUND WATER LEVEL: Not met	WORK COMMENCED ON 31.5.2013	WORK COMPLETED ON 31.5.2013

SOIL PROFILE AND DEPTH IN METRES	DEPTH OF SAMPLING	IS SOIL CLASSIFICATION	NATURAL WET DENSITY	NATURAL MOISTURE CONTENT %	INDEX TEST			SIEVE ANALYSIS % PASSING IS SIEVE ANALYSIS				SPECIFIC GRAVITY	SHEAR TEST		STANDARD PENETRATION TEST				CONSOLIDATION TEST			
					LIQUID LIMIT %	PLASTIC LIMIT %	PLASTICITY INDEX	% OF GRAVEL	% OF SAND	% OF CLAY	% OF SILT		COHESION C Ton / M^2	ANGLE OF INTERNAL FRICTION ^{0}	DEPTH OF TESTING M	OBSERVED N VALUE	CORRECTED N VALUE	SAFE BEARING CAPACITY T/m^2	COMPRESSION INDEX C_C	PRE - CONSOLIDATION PRESSURE $1Kn/M^2$	INITIAL VOIDS RATIO	CO-EFFECT OF CONSOLIDATION CV IN CM^2/MIN
		SC	8.6	11.18	54	32	22	12	18	66	4	2.65	19	27	1.50	14	19.62	13.33				
															3.00	39	37.57	27.65				
															4.50	>50	50	37.88				
															6.00	>50	50	38.93				
															7.50	>50	50	39.98				
	4.00														9.00	>50	50	41.03				
															10.00	>50	50	41.73				
		KAN & SDR	7.89	13.34	34	18	16	23	7	65	5	2.67	18	37								
	10.00																					

SC – SOFT CLAY , KAN & SDR – KANKAR WITH SOFT DISINTEGRATED ROCK , *SBC is based on SPT results.*

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Contd……2

Ref: GEO/ 071/ 2012

SOIL TEST RESULTS

Name of Project: CONSTRUCTION OF NEW APARTMENT WITH (STILT +4) @ Old S.F. No-446, Ward no-44, Block No 1, New T S No 54/1 & 2,Kumarapalayam Village, Coimbatore Municipal Corporation

GEODESIGN Soil Exploration Contractor, COIMBATORE-30	BORE NUMBER -2 CHAINAGE:	REDUCED LEVEL:	GROUND WATER LEVEL: Not met	WORK COMMENCED ON 01.06.2013	WORK COMPLETED ON 01.06.2013

SOIL PROFILE AND DEPTH IN METRES	DEPTH OF SAMPLING	IS SOIL CLASSIFICATION	NATURAL WET DENSITY	NATURAL MOISTURE CONTENT %	INDEX TEST			SIEVE ANALYSIS % PASSING IS SIEVE ANALYSIS				SPECIFIC GRAVITY	SHEAR TEST		STANDARD PENETRATION TEST				CONSOLIDATION TEST			
					LIQUID LIMIT %	PLASTIC LIMIT %	PLASTICITY INDEX	% OF GRAVEL	% OF SAND	% OF CLAY	% OF SILT		COHESION C Ton / M^2	ANGLE OF INTERNAL FRICTION ^{0}	DEPTH OF TESTING M	OBSERVED N VALUE	CORRECTED N VALUE	SAFE BEARING CAPACITY T/m^2	COMPRESSION INDEX C_C	PRE - CONSOLIDATION PRESSURE $1Kn/M^2$	INITIAL VOIDS RATIO	CO-EFFECT OF CONSOLIDATION CV IN CM^2/MIN
		SC	8.1	10.87	50	29	21	14	24	59	3	2.65	19	27	1.50	13	18.75	12.69				
	1.90														3.00	42	39.88	29.36				
															4.50	>50	50	37.88				
															6.00	>50	50	38.93				
															7.50	>50	50	39.98				
		KAN & SDR	8.14	12.96	30	18	12	34	47	17	2	2.67	18	37	9.00	>50	50	41.03				
	4.50														10.00	>50	50	41.73				
		SDR																				
	10.00																					

SC – SOFT CLAY , KAN & SDR – KANKAR WITH SOFT DISINTEGRATED ROCK , SDR – SOFT DISINTEGRATED ROCK,

SBC is based on SPT results.

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Contd……3

Ref: GEO/ 071/ 2012

SOIL TEST RESULTS

Name of Project: CONSTRUCTION OF NEW APARTMENT WITH (STILT +4) @ Old S.F. No-446, Ward no-44, Block No 1, New T S No 54/1 & 2,Kumarapalayam Village, Coimbatore Municipal Corporation

GEODESIGN Soil Exploration Contractor, COIMBATORE-30	BORE NUMBER -3 CHAINAGE:	REDUCED LEVEL:	GROUND WATER LEVEL: Not met	WORK COMMENCED ON 01.06.2013	WORK COMPLETED ON 02.06.2013

SOIL PROFILE AND DEPTH IN METRES	DEPTH OF SAMPLING	IS SOIL CLASSIFICATION	NATURAL WET DENSITY	NATURAL MOISTURE CONTENT %	INDEX TEST			SIEVE ANALYSIS % PASSING IS SIEVE ANALYSIS				SPECIFIC GRAVITY	SHEAR TEST		STANDARD PENETRATION TEST				CONSOLIDATION TEST			
					LIQUID LIMIT %	PLASTIC LIMIT %	PLASTICITY INDEX	% OF GRAVEL	% OF SAND	% OF CLAY	% OF SILT		COHESION C Ton / M^2	ANGLE OF INTERNAL FRICTION ^{0}	DEPTH OF TESTING M	OBSERVED N VALUE	CORRECTED N VALUE	SAFE BEARING CAPACITY T/m^2	COMPRESSION INDEX C_C	PRE - CONSOLIDATION PRESSURE $1Kn/M^2$	INITIAL VOIDS RATIO	CO-EFFECT OF CONSOLIDATION CV IN CM^2/MIN
		SC	8.6	11.18	54	32	22	8	21	67	4	2.65	19	27	1.50	20	24.81	17.17				
	1.20														3.00	>50	50	36.83				
															4.50	>50	50	37.88				
															6.00	>50	50	38.93				
		CS	5.64	7.21	31	19	12	0	32	65	3	2.64	18	31	7.50	>50	50	39.98				
	1.90														9.00	>50	50	41.03				
															10.00	>50	50	41.73				
		SDR	-	-	-	-	-	-	-	-	-	-	-	-								
	10.00																					

SC – SOFT CLAY , CS – CLAY WITH SAND , KAN & SDR – KANKAR WITH SOFT DISINTEGRATED ROCK , *SBC is based on SPT results.*

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Contd……4

Ref: GEO/ 071/ 2012

SOIL TEST RESULTS

Name of Project: CONSTRUCTION OF NEW APARTMENT WITH (STILT +4) @ Old S.F. No-446, Ward no-44, Block No 1, New T S No 54/1 & 2,Kumarapalayam Village, Coimbatore Municipal Corporation

GEODESIGN Soil Exploration Contractor, COIMBATORE-30	BORE NUMBER -4 CHAINAGE:	REDUCED LEVEL:	GROUND WATER LEVEL: Not met	WORK COMMENCED ON 02.06.2013	WORK COMPLETED ON 02.06.2013

SOIL PROFILE AND DEPTH IN METRES	DEPTH OF SAMPLING	IS SOIL CLASSIFICATION	NATURAL WET DENSITY	NATURAL MOISTURE CONTENT %	INDEX TEST			SIEVE ANALYSIS % PASSING IS SIEVE ANALYSIS				SPECIFIC GRAVITY	SHEAR TEST		STANDARD PENETRATION TEST				CONSOLIDATION TEST			
					LIQUID LIMIT %	PLASTIC LIMIT %	PLASTICITY INDEX	% OF GRAVEL	% OF SAND	% OF CLAY	% OF SILT		COHESION C Ton / M^2	ANGLE OF INTERNAL FRICTION ^{0}	DEPTH OF TESTING M	OBSERVED N VALUE	CORRECTED N VALUE	SAFE BEARING CAPACITY T/m^2	COMPRESSION INDEX C_C	PRE - CONSOLIDATION PRESSURE $1Kn/M^2$	INITIAL VOIDS RATIO	CO-EFFECT OF CONSOLIDATION CV IN CM^2/MIN
		SC	8.9	10.37	52	30	22	0	20	77	3	2.65	18	27	1.50	19	23.94	16.53				
	1.30														3.00	>50	50	36.83				
															4.50	>50	50	37.88				
															6.00	>50	50	38.93				
		CS	4.9	7.14	30	19	11	0	30	65	5	2.64	18	31	7.50	>50	50	39.98				
	2.00														9.00	>50	50	41.03				
															10.00	>50	50	41.73				
		SDR	-	-	-	-	-	-	-	-	-	-	-	-								
	10.00																					

SC – SOFT CLAY , CS – CLAY WITH SAND , KAN & SDR – KANKAR WITH SOFT DISINTEGRATED ROCK , *SBC is based on SPT results.*

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Contd……5

Ref: GEO/ 071/ 2012

SOIL TEST RESULTS

Name of Project: CONSTRUCTION OF NEW APARTMENT WITH (STILT +4) @ Old S.F. No-446, Ward no-44, Block No 1, New T S No 54/1 & 2,Kumarapalayam Village, Coimbatore Municipal Corporation

GEODESIGN Soil Exploration Contractor, COIMBATORE-30	BORE NUMBER -5 CHAINAGE:	REDUCED LEVEL:	GROUND WATER LEVEL: Not met	WORK COMMENCED ON 03.06.2013	WORK COMPLETED ON 03.06.2013

SOIL PROFILE AND DEPTH IN METRES	DEPTH OF SAMPLING	IS SOIL CLASSIFICATION	NATURAL WET DENSITY	NATURAL MOISTURE CONTENT %	INDEX TEST			SIEVE ANALYSIS % PASSING IS SIEVE ANALYSIS				SPECIFIC GRAVITY	SHEAR TEST		STANDARD PENETRATION TEST				CONSOLIDATION TEST			
					LIQUID LIMIT %	PLASTIC LIMIT %	PLASTICITY INDEX	% OF GRAVEL	% OF SAND	% OF CLAY	% OF SILT		COHESION C Ton / M^2	ANGLE OF INTERNAL FRICTION ^{0}	DEPTH OF TESTING M	OBSERVED N VALUE	CORRECTED N VALUE	SAFE BEARING CAPACITY T/m^2	COMPRESSION INDEX C_C	PRE - CONSOLIDATION PRESSURE $1Kn/M^2$	INITIAL VOIDS RATIO	CO-EFFECT OF CONSOLIDATION CV IN CM^2/MIN
		SC	9.1	12.34	56	34	22	0	22	75	3	2.65	19	27	1.50	13	18.75	12.69				
															3.00	27	28.32	20.81				
															4.50	>50	50	37.88				
															6.00	>50	50	38.93				
															7.50	>50	50	39.98				
															9.00	>50	50	41.03				
	3.40														10.00	>50	50	41.73				
		CS	6.7	7.41	30	17	13	0	39	58	3	2.64	18	31								
	3.90																					
		SDR	-	-	-	-	-	-	-	-	-	-	-	-								
	10.00																					

SC – SOFT CLAY , CS – CLAY WITH SAND , KAN & SDR – KANKAR WITH SOFT DISINTEGRATED ROCK , *SBC is based on SPT results.*

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Contd……6

Ref: GEO/ 071/ 2012

SOIL TEST RESULTS

Name of Project: CONSTRUCTION OF NEW APARTMENT WITH (STILT +4) @ Old S.F. No-446, Ward no-44, Block No 1, New T S No 54/1 & 2,Kumarapalayam Village, Coimbatore Municipal Corporation

GEODESIGN Soil Exploration Contractor, COIMBATORE-30	BORE NUMBER -6 CHAINAGE:	REDUCED LEVEL:	GROUND WATER LEVEL: Not met	WORK COMMENCED ON 04.06.2013	WORK COMPLETED ON 04.06.2013

SOIL PROFILE AND DEPTH IN METRES	DEPTH OF SAMPLING	IS SOIL CLASSIFICATION	NATURAL WET DENSITY	NATURAL MOISTURE CONTENT %	INDEX TEST			SIEVE ANALYSIS % PASSING IS SIEVE ANALYSIS				SPECIFIC GRAVITY	SHEAR TEST		STANDARD PENETRATION TEST				CONSOLIDATION TEST			
					LIQUID LIMIT %	PLASTIC LIMIT %	PLASTICITY INDEX	% OF GRAVEL	% OF SAND	% OF CLAY	% OF SILT		COHESION C Ton / M^2	ANGLE OF INTERNAL FRICTION ^{0}	DEPTH OF TESTING M	OBSERVED N VALUE	CORRECTED N VALUE	SAFE BEARING CAPACITY T/m^2	COMPRESSION INDEX C_C	PRE - CONSOLIDATION PRESSURE $1Kn/M^2$	INITIAL VOIDS RATIO	CO-EFFECT OF CONSOLIDATION CV IN CM^2/MIN
		SC	9.1	12.42	50	34	16	0	28	68	4	2.65	19	27	1.50	35	37.79	26.76				
															3.00	23	25.23	18.53				
															4.50	>50	50	37.88				
															6.00	>50	50	38.93				
															7.50	>50	50	39.98				
	3.50														9.00	>50	50	41.03				
															10.00	>50	50	41.73				
		CS	6.4	7.8	30	14	16	0	37	60	3	2.64	18	31								
	3.95																					
		SDR	-	-	-	-	-	-	-	-	-	-	-	-								
	10.00																					

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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

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

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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