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SOIL INVESTIGATION REPORT FOR THE PROPOSED CONSTRUCTION OF RCC ROOF STILT FLOOR +4 FLOOR RESIDENTIAL APARTMENT BUILDING IN S.F.NO:52/1A1A1A4 AT ANDIPALAYAM VILLAGE, TIRUPPUR CITY MUNICIPAL CORPORATION, TIRUPPUR SOUTH TALUK, TIRUPPUR DISTRICT.

SOIL INVESTIGATION REPORT

Client:
Mrs. Rani,
W/o. Mr. N. Radhakrishnan,
Tiruppur.

By

THE COIMBATORE DIGITAL SURVEYORS
30, Second Main Road, Anna Nagar,
Peelamedu (Post),
Coimbatore – 641 004
Tamil Nadu, India
Phone: 9790030071 / 9790090051

December 2023

THE COIMBATORE DIGITAL SURVEYORS
(Specialised in Digital & GPS Survey)

GSTIN No.: 33BLJPS8355R1Z2

30, Anna Nagar,
Second Main Road,
Peelamedu (Post)
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Phone: 9790030071/9790090051
Email: digitalsurvey@gmail.com

Date: 12-12-2023

To
Mrs. Rani W/o. Mr. N. Radhakrishnan,
Tiruppur.

Dear Sir,

Ref: Soil / S039 / 2022-2023 / dated 08-12-2023

Sub: Proposed Construction of RCC Roof Stilt Floor + 4 Floor Residential Apartment Building in S.F.No: 52/1A1A1A4 at Andipalayam Village, Tiruppur City Municipal Corporation, Tiruppur South Taluk, Tiruppur District. Soil Testing Report- Reg.

We take pleasure in submitting the report on Proposed Construction of RCC Roof Stilt Floor + 4 Floor Residential Apartment Building in S.F.No: 52/1A1A1A4 at Andipalayam Village, Tiruppur City Municipal Corporation, Tiruppur South Taluk, Tiruppur District. The report describes various soil properties and design parameters for the site. It is hoped that the results presented in this report will provide all the information required for the design of foundations for the proposed structure.

Thanking you,

For The Coimbatore Digital Surveyors,

THE COIMBATORE DIGITAL SURVEYORS CBE

Authorized Signatory
Er.K.PRAKASH,M.E.,(Geotech),MIGS.,
Geotechnical Consultant
Reg.No: LPA/GTE/CBE/19/05/003.

SOIL INVESTIGATION REPORT DETAILS

CLIENT	: Mrs. Rani, W/o. Mr. N. Radhakrishnan, Tiruppur.
LOCATION	: S.F.No:52/1A1A1A4, Andipalayam Village, Tiruppur City Municipal Corporation, Tiruppur South Taluk, Tiruppur District.
NAME OF THE WORK	: Residential Apartment Building (Stilt Floor + 4 Floor)
SITE INSPECTION DATE	: 08-12-2023
DATE OF TEST	: 08-12-2023 to 10-12-2023
NATURE OF TEST	: Engineering Status

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1 Introduction

Geotechnical Investigation for the **"CONDUCTING SOIL EXPLORATION FOR PROPOSED CONSTRUCTION OF RCC ROOF STILT FLOOR + 4 FLOOR RESIDENTIAL APARTMENT BUILDING IN S.F.NO: 52/1A1A1A4 AT ANDIPALAYAM VILLAGE, TIRUPPUR CITY MUNICIPAL CORPORATION, TIRUPPUR SOUTH TALUK, TIRUPPUR DISTRICT."** Was carried out by THE COIMBATORE DIGITAL SURVEYORS, COIMBATORE.

2 Scope of Work

- Three boreholes are drilled through manually operated auger bore. Location and depth of borehole represented by client.
- Proposed construction of **Residential Apartment Building** up to hard strata for preliminary identification of type and extent of soil layers.
- The Safe Bearing Capacity of layers at different depth is based on Standard Penetration test values which are conducted in the bore holes at regular intervals.
- Submitting geotechnical investigation report for the above project based on field and laboratory test results and recommendation of suitable foundation systems based on as per IS-1892 and IS -2720.

3 Field work

Field investigations were carried out through mechanically operated rotary drilling machine in mention location.

3.1 Drilling through soil medium

3.1.1 ROTARY BORING

Rotary drilling technique was adapted using Rotary drilling machine in the proposed project. 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.

3.1.2. 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 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 63.5kg free fall through 750 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. The SPT results are given in the annexure

4. SAMPLING:

The disturbed samples were collected through SPT sampler and undisturbed samples were collected through brass tube, properly waxed on both sides then sent to laboratory for analysis.

4. 1 LABORATORY TESTS

Following laboratory tests are conducted as per IS codes.

a. Sieve analysis- IS 2720 Part 4
b. Specific gravity –IS 2720-Part 3/Sec 1
c. Unconfined compressive strength-IS 2720-Part 10
d. Direct Shear test-IS 2720 Part 13 & Part 39 Sec 1
e. Natural Moisture Content-IS 2720 Part 2
f. Soil classification as per IS 1498-1970

5. Subsoil Conditions

The soil conditions at this site found through Standard Penetration Test samples N Values are obtained. The Three boreholes are terminated at a maximum depth of 10.00m from Natural Ground level which are shown in bore logs.

6. Engineering Appraisal

Based on Laboratory results on the samples collected from investigation locations, the shear strength parameters such as C (Cohesive Strength) and Φ (angle of internal friction) can be correlated with SPT values.

7. Design Methodology

The Safe Bearing Capacity of the soil can be calculated on Shear failure Criteria and Settlement Criteria and any foundation system has to satisfy the above said criteria. The former one depends on shear strength and the bearing capacity equation suggested by IS 6403 as follows.

Net ultimate Bearing Capacity is given by

$$C\ NC\ Sc\ dc\ ic + \gamma\ D\ (Nq - 1)\ Sq\ dq\ iq + 0.5\ \gamma\ B\ N\gamma\ S\gamma\ d\gamma\ i\gamma\ W'$$

The Safe Bearing Capacity is the maximum gross intensity of loading that the soil can carry safely without failing in shear which is obtained by the Net ultimate Bearing Capacity divided by factor of safety (2.5 to 3.0)

The later one follows Settlement Criteria, that the intensity of the loading will cause within the permissible settlement is termed as allowable bearing pressure given by

Safe bearing capacity (SBC) = $1.4\ (N-3)\ \{(B+0.3)/2B\}^2$ X RW X S+P Where,

N = Corrected N value N2

B = Width of Foundation = constant 1

RW = Water Correction, If water table at

founding level is 0.5 and 1.0 for not occur.

FD = Depth of Factor = constant 1

P = Over Burden Pressure

S = Permissible settlement

8. Safe Bearing Capacity

The recommended safe bearing capacity at various depth based on SPT results are tabulated in the annexure.

9. Depth of Foundation

Minimum depth of foundations is governed by the following factors:

- Avoid Top loose zone.
- Adequate depth of soil above founding level, to ensure mobilization of full safe bearing Capacity.
- Adequate depth of soil strata below founding level of requisite strength to mobilize the safe Bearing capacity and at the same time restricts the total and differential settlements within the Allowable limits.

10. FOUNDATION RECOMMENDATIONS:

The site for **CONDUCTING SOIL EXPLORATION FOR PROPOSED CONSTRUCTION OF RCC ROOF STILT FLOOR + 4 FLOOR RESIDENTIAL APARTMENT BUILDING IN S.F.NO: 52/1A1A1A4 AT ANDIPALAYAM VILLAGE, TIRUPPUR CITY MUNICIPAL CORPORATION, TIRUPPUR SOUTH TALUK, TIRUPPUR DISTRICT."** The borehole investigation was conducted, and SBC was determined.

Bore Hole No	**Type of Footing**	**Size of Footing in m**	**Depth in m below NGL**	**SBC of soil Based on Shear criteria in t/m^2**
1	Isolated Footing	1.50 X 1.60	3.00 M	25.00
2		1.50 X 1.60	3.00 M	25.00
3		1.50 X 1.60	3.00 M	25.00

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COMPUTATION OF BEARING CAPACITY AS PER IS: 6403:1981
MODEL CALCULATION:

1 Geometrical Data :

Shape considered for bearing capacity design	RECT	
Length of footing	1.50	m
Size of Footing (B)	1.60	m
Breadth to Length Ratio of Foundation (B/L)	1.07	
Depth of Foundation below E.G.L. (D_f):	3.00	m
Inclination of Vertical Load with the Vertical (a)	0.00	Deg.

2 Soil Data :

Type of Bearing Strata :	SDR	
Design SPT **"N"** value of the Bearing Strata:	50	
Type of Shear Failure:	General	
Design Angle of Shearing Resistance	31.00	Deg.
Cohesive Strength	0.00	kN/m^2

3 Design Parameters:

Saturated Density of Soil above the foundation depth (γ_{bulk})	16.00	kN/m^3
Submerged Density of Soil ($\gamma'=\gamma_{bulk}-\gamma_w$)	6.19	
Effective Overburden pressure at foundation level ($q = \gamma'*D_f$)	18.57	kN/m^2
Water Table Correction Factor (w')	0.50	

Bearing Capacity Factors:

N_c =	33.34
N_q =	21.38
N_r =	27.53

Shape Factors:

S_c =	1.30
S_q =	1.21
S_r =	0.57

Depth Factors :

D_c =	1.59
D_q =	1.29
D_r =	1.29

Inclination Factor:

I_c =	1.00
I_q =	1.00

	I_r =	1.00	

4 Ultimate Bearing Capacity (Qu) :(General Shear Failure)

Based on N Value:

Qu =q (Nq – 1) Sq x dq x iq + 0.5 x B x γ x Nγ x Sγ x dγ x iγ x W`	724.26535	kN/m^2

Safe Bearing Capacity (Qsafe) :

Factor of Safety (F.S.) :	2.50	
Qsafe :	289.71	kN/m^2
Qsafe :	29.54	t/m^2

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SOIL TEST RESULTS

Name of work: CONDUCTING SOIL EXPLORATION FOR PROPOSED CONSTRUCTION OF RCC ROOF STILT FLOOR + 4 FLOOR RESIDENTIAL APARTMENT BUILDING IN S.F.NO: 52/1A1A1A4 AT ANDIPALAYAM VILLAGE, TIRUPPUR CITY MUNICIPAL CORPORATION, TIRUPPUR SOUTH TALUK, TIRUPPUR DISTRICT.

THE COIMBATORE DIGITAL SURVEYORS, COIMBATORE.	BORE NUMBER - 1	LOCATION: NORTH EAST	GROUND WATER LEVEL: 1.00M	WORK COMMENCED ON 08/12/2023	WORK COMPLETED ON 08/12/2023

SOIL PROFILE AND DEPTH IN METRES	DEPTH OF SAMPLING	IS SOIL CLASSIFICATION	NATURAL WET DENSITY	NATURAL MOISTURE CONTENT %	INDEX TEST			SIEVE ANALYSIS % RETAINED IS SIEVE ANALYSIS						SPECIFIC GRAVITY	SHEAR TEST		STANDARD PENETRATION TEST			
					LIQUID LIMIT %	PLASTIC LIMIT %	PLASTICITY INDEX	GRAVEL	COARSE SAND	MEDIUM SAND	FINE SAND	SILT	CLAY		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
		SC	16.8	8.79	35	21	14	52	28	16	8	-	-	2.64	1.34	-	1.00	13	18.81	12.38
	0.90																2.00	>50	50.00	36.18
		SDR															3.00	>50	50.00	36.88
	4.00																4.00	>50	50.00	37.58
		SR																		
	9.00																			
		HR																		
	10.00																			

Depth (m)	Core Recovery (%)	Rock Quality Designation (%)	Ultimate crushing strength (MPa)
2.00-3.00	-	-	-
3.00-4.00	-	-	-
4.00-5.00	26.00	-	-
5.00-6.00	30.00	-	-
6.00-7.00	63.00	51.00	35.27
7.00-8.00	63.00	63.00	46.32
8.00-9.00	67.00	50.00	31.58
9.00-10.00	87.00	87.00	4.21

SC-CLAYEY SAND, SDR- SOFT DISINTEGRATED ROCK, SR-SOFT ROCK, HR-HARD ROCK, SBC based on SPT N value. NP – Non plastic.

SOIL TEST RESULTS

Name of work: CONDUCTING SOIL EXPLORATION FOR PROPOSED CONSTRUCTION OF RCC ROOF STILT FLOOR + 4 FLOOR RESIDENTIAL APARTMENT BUILDING IN S.F.NO: 52/1A1A1A4 AT ANDIPALAYAM VILLAGE, TIRUPPUR CITY MUNICIPAL CORPORATION, TIRUPPUR SOUTH TALUK, TIRUPPUR DISTRICT.

THE COIMBATORE DIGITAL SURVEYORS, COIMBATORE.	BORE NUMBER - 2	LOCATION: SOUTH EAST	GROUND WATER LEVEL: 1.00M	WORK COMMENCED ON 09/12/2023	WORK COMPLETED ON 09/12/2023

SOIL PROFILE AND DEPTH IN METRES	DEPTH OF SAMPLING	IS SOIL CLASSIFICATION	NATURAL WET DENSITY	NATURAL MOISTURE CONTENT %	INDEX TEST			SIEVE ANALYSIS % RETAINED IS SIEVE ANALYSIS						SPECIFIC GRAVITY	SHEAR TEST		STANDARD PENETRATION TEST			
					LIQUID LIMIT %	PLASTIC LIMIT %	PLASTICITY INDEX	GRAVEL	COARSE SAND	MEDIUM SAND	FINE SAND	SILT	CLAY		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
		GW	16.5	10.4	NP	NP	NP	49	22	25	4	-	-	2.65	-	28.7	1.00	>50	50.00	35.48
																	2.00	>50	50.00	36.18
	1.90	SDR															3.00	>50	50.00	36.88
																	4.00	>50	50.00	37.58
	3.90	SR																		
	10.00																			

Depth (m)	Core Recovery (%)	Rock Quality Designation (%)	Ultimate crushing strength (MPa)
3.00-4.00	-	-	-
4.00-5.00	-	-	-
5.00-6.00	52.00	52.00	88.44
6.00-7.00	58.00	43.00	37.52
7.00-8.00	52.00	20.00	45.28
8.00-9.00	56.00	56.00	56.85
9.00-10.00	77.00	77.00	18.95

GW-WELL GRADED GRAVEL, SDR- SOFT DISINTEGRATED ROCK, SR-SOFT ROCK, SBC based on SPT N value. NP – Non plastic.

SOIL TEST RESULTS

Name of work: CONDUCTING SOIL EXPLORATION FOR PROPOSED CONSTRUCTION OF RCC ROOF STILT FLOOR + 4 FLOOR RESIDENTIAL APARTMENT BUILDING IN S.F.NO: 52/1A1A1A4 AT ANDIPALAYAM VILLAGE, TIRUPPUR CITY MUNICIPAL CORPORATION, TIRUPPUR SOUTH TALUK, TIRUPPUR DISTRICT.

THE COIMBATORE DIGITAL SURVEYORS, COIMBATORE.	BORE NUMBER - 3	LOCATION: SOUTH WEST	GROUND WATER LEVEL: 1.00M	WORK COMMENCED ON 10/12/2023	WORK COMPLETED ON 10/12/2023

SOIL PROFILE AND DEPTH IN METRES	DEPTH OF SAMPLING	IS SOIL CLASSIFICATION	NATURAL WET DENSITY	NATURAL MOISTURE CONTENT %	INDEX TEST			SIEVE ANALYSIS % RETAINED IS SIEVE ANALYSIS						SPECIFIC GRAVITY	SHEAR TEST		STANDARD PENETRATION TEST			
					LIQUID LIMIT %	PLASTIC LIMIT %	PLASTICITY INDEX	GRAVEL	COARSE SAND	MEDIUM SAND	FINE SAND	SILT	CLAY		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
		GW	16.3	12.5	NP	NP	NP	45	21	20	14	-	-	2.64	-	29.5	1.00	33	36.21	25.24
																	2.00	>50	50.00	36.18
	2.20	SDR															3.00	>50	50.00	36.88
																	4.00	>50	50.00	37.58
	5.00																			
		SR																		
	7.90																			
		HR																		
	10.00																			

Depth (m)	Core Recovery (%)	Rock Quality Designation (%)	Ultimate crushing strength (MPa)
2.00-3.00	-	-	-
3.00-4.00	-	-	-
4.00-5.00	-	-	-
5.00-6.00	-	-	-
6.00-7.00	83.00	73.00	35.80
7.00-8.00	87.00	79.00	52.64
8.00-9.00	88.00	88.00	58.96
9.00-10.00	94.00	94.00	54.75

GW-WELL GRADED GRAVEL, SDR- SOFT DISINTEGRATED ROCK, SR-SOFT ROCK, HR-HARD ROCK, SBC based on SPT N value. NP – Non plastic.

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FIELD BORE LOG REPORT

Name of Work	CONDUCTING SOIL EXPLORATION FOR PROPOSED CONSTRUCTION OF RCC ROOF STILT FLOOR + 4 FLOOR RESIDENTIAL APARTMENT BUILDING IN S.F.NO: 52/1A1A1A4 AT ANDIPALAYAM VILLAGE, TIRUPPUR CITY MUNICIPAL CORPORATION, TIRUPPUR SOUTH TALUK, TIRUPPUR DISTRICT.						
Name of Contractor	THE COIMBATORE DIGITAL SURVEYORS, COIMBATORE.						
Name of Client	Mrs. RANI, W/o Mr. N. RADHAKRISHNAN, TIRUPPUR.						
Type of Bore:	ROTARY CIRCULAR DRILLING				CH :-		-
Period:	08-12-2023				RL :-		-
Bore No :	1	LAT:	11.09628	LONG: 77.31836	Water Table in Metre :		1.00M
LOCATION	NORTH EAST				Weather Condition :		SUNNY

Graphic Log	Depth in Metre	Soil Description	Thickness of each soil Layers in metre	Depth in metre	Standard Penetration Test (SPT) Data IS : 2131 - 1981				Soil Collection		Rock Samples IS : 11315 (Part. 11) -1985		Graphical Representation of Penetration Resistance (SPT in No. of Blows / 30 cm Penetration) Depth Vs Blows	Remarks
					0.0 - 15.0 Cms	15.0 - 30.0 Cms	30.0 - 45.0 Cms	SPT Value in No.of Blows/Cms	UDS/DS	IS CLASSIFICATION	Percentage of Rock Core Recovery	Percentage of Rock Quality Designation (RQD)		
	0.90	**CLAYEY SAND**	**0.90**	1.00	4	6	7	13	DS	SC	-	-		**ABBREVIATIONS : GL -Ground Level . DS -Disturbed Soil .UDS -Undisturbed Soil .RB -Rebound .WS -Washing Sample**
		SOFT DISINTEGRATED ROCK	**3.10**	2.00	50/13	RB	-	>50	DS		-	-		
				3.00	SMALL PIECES				DS	SDR	-	-		
	4.00			4.00	SMALL PIECES-6				DS		-	-		
		SOFT ROCK	**5.00**	5.00	4+5+6+5+6=26CM				DS		26.00	-		
				6.00	4+6+5+7+8=30CM				DS		30.00	-		
				7.00	10+5+7+11+19+11=63CM				DS	SR	63.00	51.00		
				8.00	18+20+25=63CM				DS		63.00	63.00		
	9.00			9.00	13+8+9+37=67CM				DS		67.00	50.00		
	10.00	**HARD ROCK**	**1.00**	10.00	13+17+57=87CM				DS	HR	87.00	87.00		

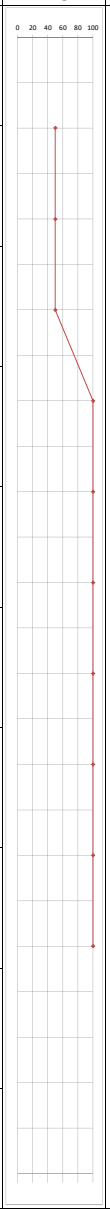
Bore Terminated at 10.00m from NGL

Note :	**1.The bore has been closed as per the field officers instruction.**		**4. Number of Soft Rock Core Bits ... .**	**23**
	2. Number of Disturbed Samples (DS)...	**10**	**5. Number of Hard Rock Core Bits ... .**	**3**
	3. Number of Undisturbed Soil Samples (UDS)	**-**	**6. Soft / Hard Rock Core Dia (Ø) ... .**	**-**

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FIELD BORE LOG REPORT

Name of Work	CONDUCTING SOIL EXPLORATION FOR PROPOSED CONSTRUCTION OF RCC ROOF STILT FLOOR + 4 FLOOR RESIDENTIAL APARTMENT BUILDING IN S.F.NO: 52/1A1A1A4 AT ANDIPALAYAM VILLAGE, TIRUPPUR CITY MUNICIPAL CORPORATION, TIRUPPUR SOUTH TALUK, TIRUPPUR DISTRICT.						
Name of Contractor	THE COIMBATORE DIGITAL SURVEYORS, COIMBATORE.						
Name of Client	Mrs. RANI, W/o. Mr. N. RADHAKRISHNAN, TIRUPPUR.						
Type of Bore:	ROTARY CIRCULAR DRILLING				CH :-		-
Period:	09-12-2023				RL :-		-
Bore No :	2	LAT:	11.09627	LONG: 77.31857	Water Table in Metre :		1.00M
LOCATION	SOUTH EAST				Weather Condition :		SUNNY

Graphic Log	Depth in Metre	Soil Description	Thickness of each soil Layers in metre	Depth in metre	Standard Penetration Test (SPT) Data IS : 2131 - 1981				Soil Collection		Rock Samples IS : 11315 (Part. 11) -1985		Graphical Representation of Penetration Resistance (SPT in No. of Blows / 30 cm Penetration) Depth Vs Blows	Remarks
					0.0 - 15.0 Cms	15.0 - 30.0 Cms	30.0 - 45.0 Cms	SPT Value in No.of Blows/Cms	UDS/DS	IS CLASSIFICATION	Percentage of Rock Core Recovery	Percentage of Rock Quality Designation (RQD)		
		WELL GRADED GRAVEL	**1.90**	1.00	15	50/13	RB	>50	DS	GW	-	-		**ABBREVIATIONS : GL -Ground Level . DS -Disturbed Soil .UDS -Undisturbed Soil .RB -Rebound .WS -Washing Sample**
	1.90			2.00	50/13	RB	-	>50	DS		-	-		
		SOFT DISINTEGRATED ROCK	**2.00**	3.00	RB	-	-	>50	DS	SDR	-	-		
	3.90			4.00	SMALL PIECES-6				DS		-	-		
		SOFT ROCK	**6.10**	5.00	SMALL PIECES-10				DS	SR	-	-		
				6.00	10+42=52CM				DS		52.00	52.00		
				7.00	22+11+7+10+3+5=58CM				DS		58.00	43.00		
				8.00	3+4+2+1+9+10+5+10+8=52CM				DS		52.00	20.00		
				9.00	21+20+15=56CM				DS		56.00	56.00		
	10.00			10.00	32+35+10=77CM				DS		77.00	77.00		

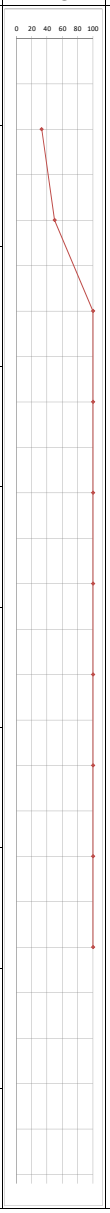
Bore Terminated at 10.00m from NGL

Note :	**1.The bore has been closed as per the field officers instruction.**		**4. Number of Soft Rock Core Bits ... .**	**23**
	2. Number of Disturbed Samples (DS)...	**10**	**5. Number of Hard Rock Core Bits ... .**	**-**
	3. Number of Undisturbed Soil Samples (UDS)	**-**	**6. Soft / Hard Rock Core Dia (Ø) ... .**	**-**

GEOTECHNICAL ENGINEER

FIELD BORE LOG REPORT

Name of Work	CONDUCTING SOIL EXPLORATION FOR PROPOSED CONSTRUCTION OF RCC ROOF STILT FLOOR + 4 FLOOR RESIDENTIAL APARTMENT BUILDING IN S.F.NO: 52/1A1A1A4 AT ANDIPALAYAM VILLAGE, TIRUPPUR CITY MUNICIPAL CORPORATION, TIRUPPUR SOUTH TALUK, TIRUPPUR DISTRICT.						
Name of Contractor	THE COIMBATORE DIGITAL SURVEYORS, COIMBATORE.						
Name of Client	Mrs. RANI, W/o. Mr. N. RADHAKRISHNAN, TIRUPPUR.						
Type of Bore:	ROTARY CIRCULAR DRILLING				CH :-		-
Period:	10-12-2023				RL :-		-
Bore No :	3	LAT:	11.09625	LONG: 77.31874	Water Table in Metre :		1.00M
LOCATION	SOUTH WEST				Weather Condition :		SUNNY

Graphic Log	Depth in Metre	Soil Description	Thickness of each soil Layers in metre	Depth in metre	Standard Penetration Test (SPT) Data IS : 2131 - 1981				Soil Collection		Rock Samples IS : 11315 (Part. 11) -1985		Graphical Representation of Penetration Resistance (SPT in No. of Blows / 30 cm Penetration) Depth Vs Blows	Remarks
					0.0 - 15.0 Cms	15.0 - 30.0 Cms	30.0 - 45.0 Cms	SPT Value in No.of Blows/Cms	UDS/DS	IS CLASSIFICATION	Percentage of Rock Core Recovery	Percentage of Rock Quality Designation (RQD)		
		WELL GRADED GRAVEL	**2.20**	1.00	8	15	18	33	DS	GW	-	-		**ABBREVIATIONS : GL -Ground Level . DS -Disturbed Soil .UDS -Undisturbed Soil .RB -Rebound .WS -Washing Sample**
				2.00	50/13	RB	-	>50	DS		-	-		
	2.20	**SOFT DISINTEGRATED ROCK**	**2.80**	3.00	SMALL PIECES-5				DS	SDR	-	-		
				4.00	SMALL PIECES-5				DS		-	-		
				5.00	SMALL PIECES-4				DS		-	-		
	5.00	**SOFT ROCK**	**2.90**	6.00	SMALL PIECES-7				DS	SR	-	-		
				7.00	7+3+48+25=83CM				DS		83.00	73.00		
				8.00	8+29+50=87CM				DS		87.00	79.00		
	7.90	**HARD ROCK**	**2.10**	9.00	32+56=88CM				DS	HR	88.00	88.00		
				10.00	49+45=94CM				DS		94.00	94.00		
	10.00													

Bore Terminated at 10.00m from NGL

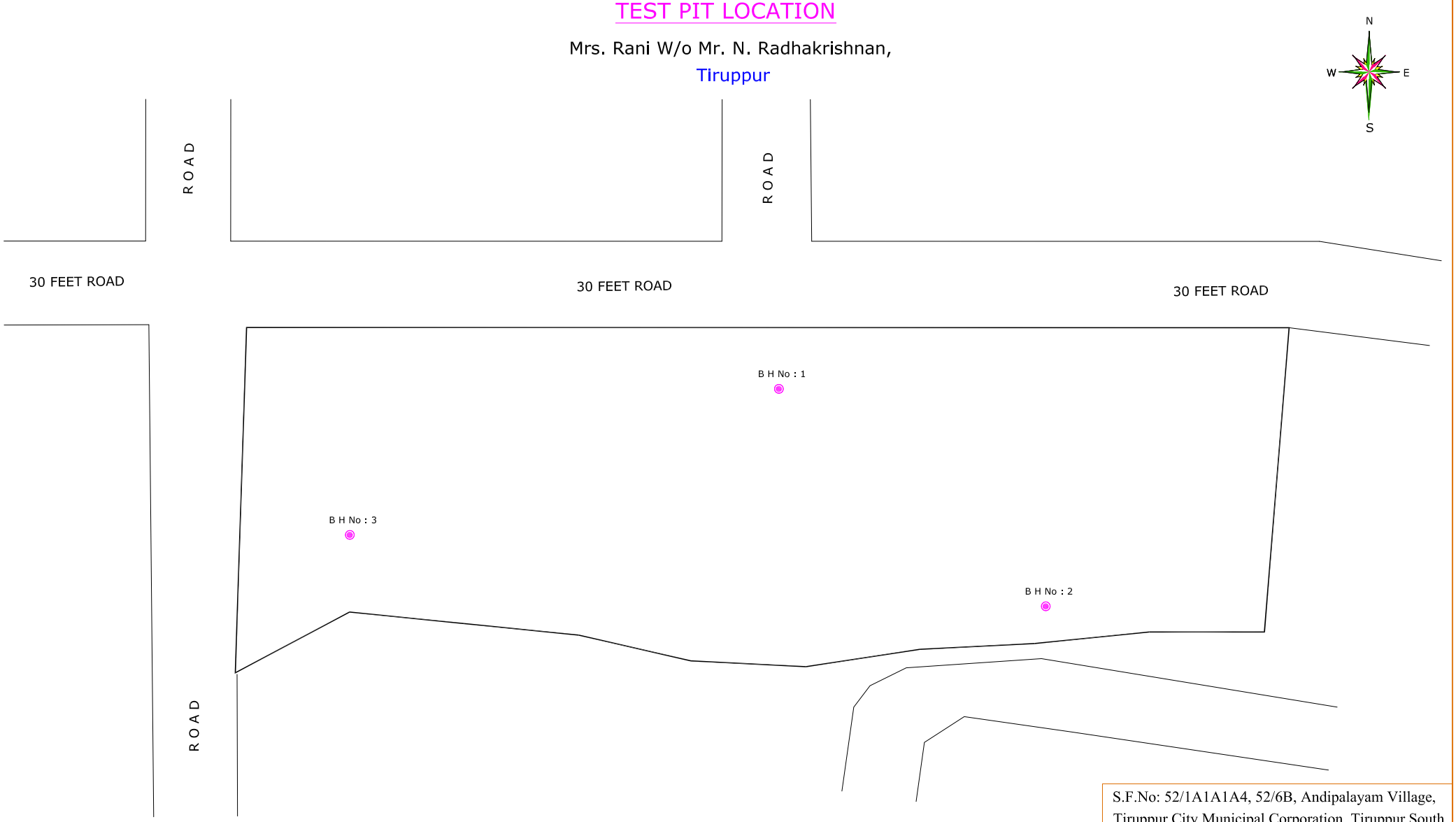
Note :	**1.The bore has been closed as per the field officers instruction.**		**4. Number of Soft Rock Core Bits ... .**	**7**
	2. Number of Disturbed Samples (DS)...	**10**	**5. Number of Hard Rock Core Bits ... .**	**4**
	3. Number of Undisturbed Soil Samples (UDS)	**-**	**6. Soft / Hard Rock Core Dia (Ø) ... .**	**-**

GEOTECHNICAL ENGINEER

TEST PIT LOCATION

Mrs. Rani W/o Mr. N. Radhakrishnan,

Tiruppur



S.F.No: 52/1A1A1A4, 52/6B, Andipalayam Village, Tiruppur City Municipal Corporation, Tiruppur South Taluk , Tiruppur District

SITE IMAGES

Name of work: CONDUCTING SOIL EXPLORATION FOR PROPOSED CONSTRUCTION OF RCC ROOF STILT FLOOR + 4 FLOOR RESIDENTIAL APARTMENT BUILDING IN S.F.NO: 52/1A1A1A4 AT ANDIPALAYAM VILLAGE, TIRUPPUR CITY MUNICIPAL CORPORATION, TIRUPPUR SOUTH TALUK, TIRUPPUR DISTRICT.



SPT IMAGE



SPOON SAMPLE



SPT IMAGE-2



ROCK SAMPLE



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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

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