GEOTECHNICAL INVESTIGATION REPORT FOR REDEVELOPMENT OF BOTANICAL GARDEN OF INDIAN REPUBLIC, NOIDA

(GT-1997)

CLIENT:

EXECUTIVE ENGINEER (P)

NOIDA CENTRAL DIVISION, CPWD

NEW DELHI

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CONTENTS

1. INTRODUCTION

The present report deals with the Geotechnical field and lab investigations conducted for **REDEVELOPMENT OF BOTANICAL GARDEN OF INDIAN REPUBLIC, NOIDA.** The work was taken in hand on Behest of **Executive Engineer (P) Noida Central Division, CPWD, New Delhi.** The work was carried out in Month of February - March 2019.

The objective of the report is restricted to the factual information to be collected during the investigation period along with laboratory tests results and so as to obtain sequence & extent of soil so as to arrive at design parameters for the foundations from the recommended safe bearing capacity of foundation soil.

2. SCOPE OF WORK

2.1. Reconnaissance / field trip for studying the general topography and geology of the area/ terrain

2.2. The field Geotech investigations consisted of determination of sub soil profile by conducting 46 nos. bore holes up to maximum depth of 40.0 m below N.S.L or hard stratum/refusal, whichever is earlier, as per IS code.

2.3. Conducting SPT/DCPT in the bore-hole/trial pits at regular intervals and collecting disturbed/undisturbed soil samples from the bores hole at regular intervals as per Indian code of practice.

2.4. Recording of water table level in the bore holes at the time of boring (if encountered).

2.5. Conducting laboratory tests on the samples collected and thereby determining various index and engineering properties and summarizing the detail of soil classification.

2.6. Conducting 18 nos. Plate load test for determination of Modulus of Subgrade Reaction (K-Value) using 30cm x 30 cm plate at varying depths at 6 locations.

2.7. A comprehensive Geotechnical investigation report embodying all the above information along with tables of Field / Lab tests results and bearing capacity computations.

a) Correction due to effect of overburden pressure,

$$N_N = C_N \times N$$

C_N' is overburden pressure correction and is calculated as $C_N = 0.77 \log_{10}(200/\sigma_0)$.

b) Correction due to submerge effect (in case of fine sand and silt),

$N_c = 15 + (N_N - 15)/2$, provided $N_N > 15$. Else $N_C = N_N$

Where 'N_c' is the final corrected value

3.5. DETERMINATION OF MODULUS OF SUBGRADE (K-VALUE) OF SOIL IN FIELD

Modulus of Sub grade Reaction is Ratio of load per unit area (applied through a centrally loaded rigid body) of horizontal surface of a mass of soil to corresponding settlement of the surface. It is determined as the slope of the secant drawn between the point corresponding to zero settlement and the point of 1.25 mm settlement, of a load-settlement curve obtained from a plate load test on a soil using a 75 cm diameter or smaller loading plate with corrections for size of plate used.

3.5.1. LOADING PROCEDURE

The loading system and bearing plate should be seated by applying a load of 3·1 kN (310 kgf) (0·007 MPa) for a plate size of 30cm x 30 cm. The seating load will be allowed to remain until practically complete deformation has taken place, at this time a reading should be taken on the dial gauges and adjusted to 'zero' reading. Then without releasing the seating load an additional 31 kN (3100 kgf) should be applied to the plates and held until practically complete settlement has taken place.

3.5.2. EVALUATION OF SUBGRADE TEST RESULTS

Modulus of Sub grade Reaction (k) is required for foundation & Calculated by Westergads method and is estimated from Plate Load Test data.

Standard plate size for finding 'k' value is 75 cm size, the standard 'k' value corresponding to 30 cm plate is found by applying a suitable correction for plate size.

By equation,

$$K = 10p/1.25 \text{ Kg/cm}^2/\text{cm}$$

Where,

'K' = Modulus of Sub grade Reaction

'p' = load intensity required for settlement of 1.25mm from load-settlement curve

Correction for plate size:

$\Delta = 1.18\ pa/E$ (Elastic theory)

Where,

Δ = Deflection

E = Elasticity constant of soil

Now,

$\frac{p}{\Delta} = k = E/1.18A$

$kA = E/1.18$ = Constant

Therefore, $k_1 A_1 = k_2 A_2$

$k_{75} = k_{30} \times A_{30}/A_{75}$

$k_{75} = 0.16\ k_{30}$

4. GROUND WATER TABLE

Determination of Ground water Table and water depth from Existing Ground level was done using Steel tape with weigh. The depth of Ground water table was determined as per procedure laid in IS 6935-1973. Depth of water tables was measured in the month of February 2019. Depth of Ground Water Table encountered in each boreholes was as follows:

S.No	BHL No	Depth of water Table, m	S.No	BHL No	Depth of water Table, m
1	BHL - 1	16.5 m	24	BHL - 24	13.5 m
2	BHL - 2	15.0 m	25	BHL - 25	13.3 m
3	BHL - 3	13.7 m	26	BHL - 26	13.8 m
4	BHL - 4	17.5 m	27	BHL - 27	13.5 m
5	BHL - 5	18.0 m	28	BHL - 28	13.2 m
6	BHL - 6	15.0 m	29	BHL - 29	13.8 m
7	BHL - 7	14.5 m	30	BHL - 30	14.5 m
8	BHL - 8	15.0 m	31	BHL - 31	11.2 m
9	BHL - 9	14.7 m	32	BHL - 32	10.9 m
10	BHL - 10	13.7 m	33	BHL - 33	14.2 m

S.No	BHL No	Depth of water Table, m	S.No	BHL No	Depth of water Table, m
11	BHL - 11	13.5 m	34	BHL - 34	12.6 m
12	BHL - 12	11.7 m	35	BHL - 35	11.4 m
13	BHL - 13	11.4 m	36	BHL - 36	12.7 m
14	BHL - 14	12.5 m	37	BHL - 37	14.7 m
15	BHL - 15	12.9 m	38	BHL - 38	11.5 m
16	BHL - 16	13.2 m	39	BHL - 39	14.6 m
17	BHL - 17	12.5 m	40	BHL - 40	14.8 m
18	BHL - 18	12.7 m	41	BHL - 41	14.7 m
19	BHL - 19	13.4 m	42	BHL - 42	14.7 m
20	BHL - 20	13.2 m	43	BHL - 43	13.5 m
21	BHL - 21	13.3 m	44	BHL - 44	12.5 m
22	BHL - 22	13.2 m	45	BHL - 45	13.4 m
23	BHL - 23	13.7 m	46	BHL - 46	14.0 m

5. OBSERVATION AND DISCUSSIONS

From the field borehole logs, the laboratory test result and the visual examination of soil samples indicates the following type of strata in the bore holes.

5.1. SOIL CLASSIFICATION & GENERAL NATURE OF THE SOIL STRATA:

Classification and identification is the pre-requisite of any site investigation report. The sub soil strata are classified on the basis of lab tests as per IS: 1498 -1978. The classification on the soil samples were obtained from the % age of grain size distribution of gravel sand silt and clay in different layers of deposit met at site. The classification soil groups are given in the data sheets attached.

6. LABORATORY TESTS

6.1. Index Properties [As per SP 36 (Part-I)-1987] :

All the relevant classification on the samples obtained from the bore holes were carried out in the laboratory. The index properties obtained from such classification tests at different depths in the bore holes are reported in the bore hole log sheets.

6.2. UNDISTURBED SOIL SAMPLES:

Undisturbed soil sample collected in field have been tested in laboratory and preparation of sample for the under mentioned tests have been done in accordance with I.S.2720.

1. Sieve analysis test as per I.S. Specification No. 2720 --(Part-IV).
2. Atterberg limit test (L.L., P.I. & S.L.) as per I.S. Specification No. 2720 --(Part-II,VI).
3. Natural moisture content as per I.S. Specification No.2720 - (Part-IV).
4. Particle size analysis test as per I.S. Specification No. 2720-(Part-VI).
5. Wet density test as per I.S. Specification No 2720- (Part-VI).
6. Dry density test as per I.S. Specification No. 2720- (Part-VI)
7. Free soil index as per I.S. Specification No. 2720- (Part-XL).
8. Specific Gravity test as per I.S. Specification No-2720-(Part-III)-Sec.2.
9. Triaxial compression test and determination of shear parameter (C & Ø as per I.S. XII) & I.S. 2720 - (part - XIII).
10. Consolidation test conducted as per I.S Specification No. 2720- (Part-XV).

6.3. DISTURBED SOIL SAMPLES:

Disturbed Soil samples have been prepared in accordance with I.S. Specification No. 2720-(Part-I)- 1983 and tested as follows:-

1. Sieve analysis test as per I.S. Specification No. 2720- (Part- IV).
2. Atterberg limit test (L.L., P.I. & S.L.) as per I.S. Specification No. 2720 --(Part-II,VI).
3. Particle size analysis test as per I.S. Specification No. 2720-(Part-VI).

Calculation of bearing capacity is governed generally by I.S. Specification No. 8009-(Part-I)- 1976, I.S.No.2720- (Part - II)- 1980, I.S. No 6403-1981, I.S. 1904-1978 and I.S. 1080-1985 and other relevant I.S. Codes as well as based on assessment and latest developments.

Test results are shown in the respective borehole data sheets.

7. FOUNDATION PARAMETERS

Allowable Bearing capacity values are based on the following parameters:

Table 1: Foundation Parameters

TYPE OF FOUNDATION	BORE HOLE NO.	FOUNDATION SIZE	FOUNDATION DEPTH
ISOLATED FOOTING	BHL - 1 to 46	3.00 m x 2.00 m 3.00 m x 3.00 m	1.5m, 3.0m & 4.50 m

8. ESTIMATION OF ALLOWABLE BEARING CAPACITY

A foundation can fail by two modes i.e.

i) Shear failure.

ii) Excessive settlement.

Shear failure being catastrophic, an adequate factor of safety is applied to ultimate bearing capacity that can initiate this type of failure. BIS recommends a value of FOS = 2.5 to obtain the net safe bearing capacity q_{ns} by using the physical characteristics of the foundation and relevant shear strength parameters of soil.

Settlement analysis a net loading intensity q_n is obtained by using the physical characteristics of the foundation and the relevant compressibility characteristics of the Underlying soil. The value so obtained ensures that the foundation shall not settle more than that which is permissible as per BIS recommendations. The permissible settlement depends upon the type of superstructure and the nature of supporting strata.

The lesser of these computed values i.e. q_{ns} or q_n is adopted as the allowable bearing capacity for proportioning the foundation of superstructures.

9. COMPUTATION OF ALLOWABLE BEARING CAPACITY

SHEAR FAILURE ANALYSIS

Net Ultimate bearing capacity for general shear failure,

$$q_{nu} = c\,N_c\,S_c\,D_c + q\,(N_q-1)\,S_q\,D_q + \tfrac{1}{2}\,B\,\gamma\,N_\gamma\,S_\gamma\,D_\gamma\,W' \qquad \text{-------(1)}$$

Net Ultimate bearing capacity for local shear failure,

$$q_{nu} = 2/3\,c\,N_c\,S_c\,D_c + q\,(N'_q-1)\,S_q\,D_q + \tfrac{1}{2}\,B\,\gamma\,N'_\gamma\,S_\gamma\,D_\gamma\,W' \qquad \text{--------(2)}$$

Shape factors,

For Strip Footing

$S_c = 1$; $S_q = 1$; $S_y = 1$

For Rectangle Footing

$S_c = 1+0.2\ B/L$; $S_q = 1+0.2\ B/L$; $S_y = 1-0.4\ B/L$

For Square Footing

$S_c = 1.3$; $S_q = 1.2$; $S_y = 0.8$

For Circular Footing

$S_c = 1.3$; $S_q = 1.2$; $S_y = 0.6$

Depth factors,

$d_c = 1 + 0.2 \times D/B\ \text{Tan}(45 + \Phi/2)$; $d_q = d_y = 1 + 0.1 \times D/B\ \text{Tan}(45 + \Phi/2)$

(For Cohesive soil, $\Phi = 0$)

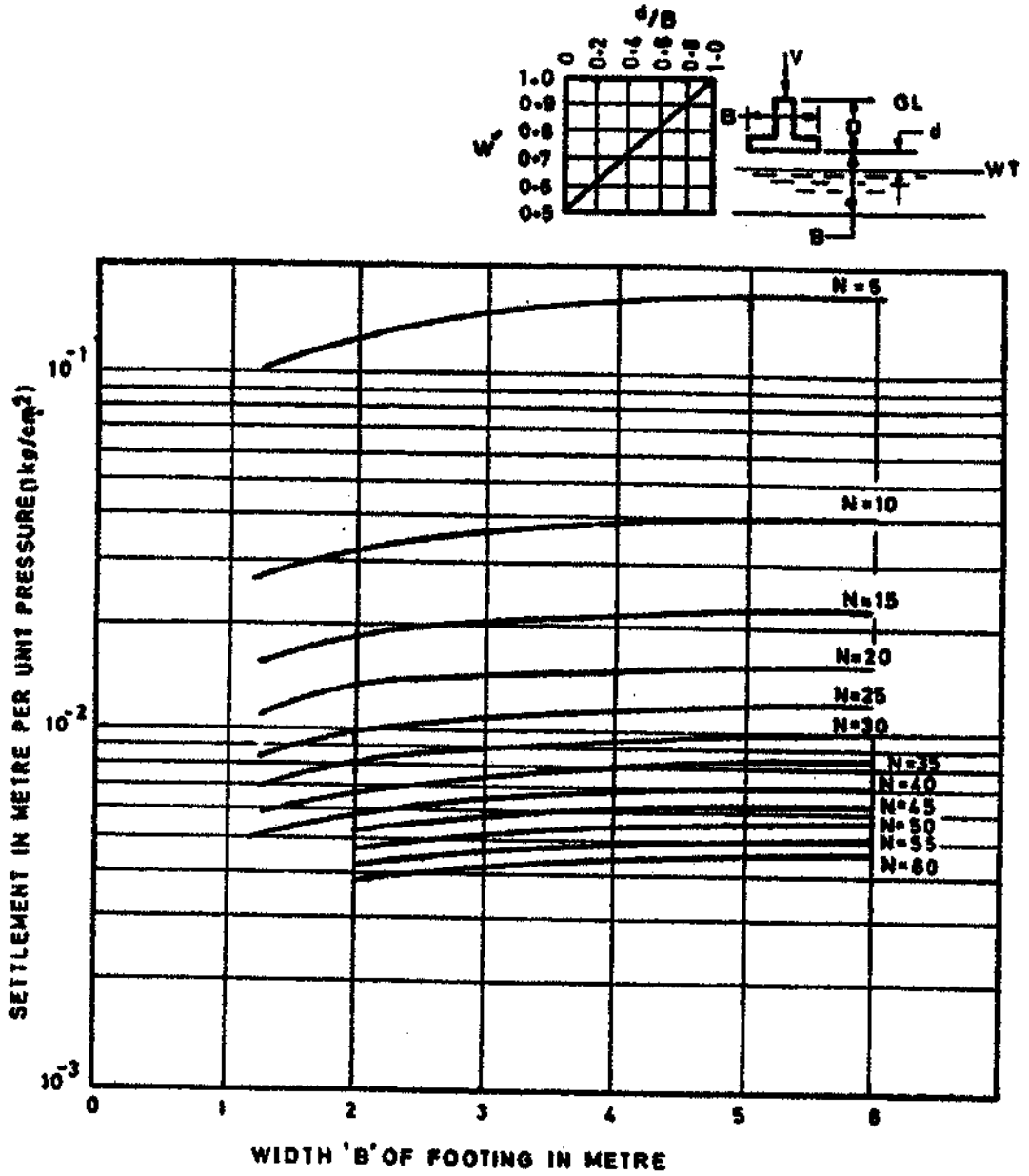
Inclination Factors,

$i_c = 1.0$; $i_q = 1.0$; $i_y = 1.0$

SETTLEMENT ANALYSIS

As per BIS recommendation permissible settlement for isolated column footing for RC structures on Cohesion less is 50 mm. Because of the erratic and pronounced variations of the compressibility characteristics of supporting strata, even slight differential settlement can cause distress to superstructure. As such differential settlement should be kept as low as possible. Depending upon the ability of the strata to absorb settlements, maximum permissible settlement is conservatively chosen so that resultant differential settlements do not cause distress to the superstructure. However to be on conservative side and based upon field observations, maximum permissible settlement of 40 mm has been adopted for present analysis.

Settlement for cohesion less strata is done as per figure no 9 IS code 8009 (part-1) -1976



GL = Ground level. WT = Water table.

FIG. 9 SETTLEMENT PER UNIT PRESSURE FROM STANDARD PENETRATION RESISTANCE

ISOLATED FOOTING (3.0 M X 2.0 M) - FOR BHL 40

Depth of Footing, D = 1.50 m, 3.00 m & 4.50 m

Width of Footing, B = 2.0 m

Density, γ = 1.63 t/m^2

Cohesion, C = 0.6 t/m^2

Angle of shearing resistance, Φ = 20.0°

Mobilizing angle of shearing resistance, Φ' = 13.64°

Bearing Capacity Factor:

N'c = 10.26 N'q = 3.54 N'y = 2.26

Table 2: Shape & Depth Factor

Depth of Footing	Shape Factors			Depth Factors			Surcharge (YxD), q (t/m^2)	Water table correction factor, W'
	S_c	S_q	S_y	D_c	D_q	D_y		
1.50 m	1.13	1.13	0.73	1.214	1.107	1.107	2.45	1.00
3.00 m	1.13	1.13	0.73	1.428	1.214	1.214	4.89	1.00
4.50 m	1.13	1.13	0.73	1.642	1.321	1.321	7.34	1.00

Calculation of bearing capacity from local shear failure

Substituting values in equation,

$$q_{nu} = 2/3\ c\ N_c S_c D_c + q\ (N'_q - 1)\ S_q D_q + ½\ B\ \gamma\ N'_\gamma S_\gamma D_\gamma\ W'$$

$$q_{ns} = q_{nu}/\ FOS = q_{nu}/\ 2.5$$

Table 3: Safe bearing capacity in Shear Criteria

Foundation Size	Depth of Foundation	Net Ultimate Bearing Capacity, q_{nu}	*Net Safe Bearing Capacity, q_{Ns}*
ISOLATED FOOTING 3.0m X 2.0m	1.50 m	16.40 t/m^2	6.6 t/m^2
	3.00 m	26.98 t/m^2	10.8 t/m^2
	4.50 m	39.07 t/m^2	15.6 t/m^2

SETTLEMENT ANALYSIS

Net Settlement from safe bearing capacity from Settlement criteria may be calculated from separately for foundation in cohesion less soil.

Table 4: Settlement in Cohesion less soil

Depth of Footing	AVG. N-VALUE	Net Safe bearing capacity, q_{Ns}	Settlement in Cohesion less Soil, Δ_2 (mm)	Total Settlement Δ (mm)
1.5 m	6.0	6.6 t/m^2	45 x 6.6/10 = 29.70	29.7
3.0 m	8.0	10.8 t/m^2	28 x 10.8/10 = 30.24	30.2
4.5 m	13.0	15.6 t/m^2	18 x 15.6/10 = 28.08	28.1

Net Settlement, Δ< 40 mm, Hence safe

ISOLATED FOOTING (2.0 M X 2.0 M) - FOR BHL 40

Depth of Footing, D = 1.50 m, 3.00 m & 4.50 m

Width of Footing, B = 2.0 m

Density, γ = 1.63 t/m²

Cohesion, C = 0.6 t/m²

Angle of shearing resistance, Φ = 20.0°

Mobilizing angle of shearing resistance, Φ' = 13.64°

Bearing Capacity Factor:

N'c = 10.26 N'q = 3.54 N'y = 2.26

Table 5: Shape & Depth Factor

Depth of Footing	Shape Factors			Depth Factors			Surcharge (YxD), q (t/m²)	Water table correction factor, W'
	S_c	S_q	S_γ	D_c	D_q	D_γ		
1.50 m	1.30	1.20	0.80	1.214	1.107	1.107	2.45	1.00
3.00 m	1.30	1.20	0.80	1.428	1.214	1.214	4.89	1.00
4.50 m	1.30	1.20	0.80	1.642	1.321	1.321	7.34	1.00

Calculation of bearing capacity from local shear failure

Substituting values in equation,

$$q_{nu} = 2/3\ c\ N_c S_c D_c + q\ (N'_q - 1)\ S_q D_q + \tfrac{1}{2}\ B\ \gamma\ N'_\gamma S_\gamma D_\gamma\ W'$$

$$q_{ns} = q_{nu}/\ FOS = q_{nu}/\ 2.5$$

Table 6: Safe bearing capacity in Shear Criteria

Foundation Size	Depth of Foundation	Net Ultimate Bearing Capacity, q_{nu}	*Net Safe Bearing Capacity, q_{Ns}*
ISOLATED FOOTING 2.0m X 2.0m	1.50 m	17.99 t/m²	7.2 t/m²
	3.00 m	29.30 t/m²	11.7 t/m²
	4.50 m	42.20 t/m²	17.0 t/m²

SETTLEMENT ANALYSIS

Net Settlement from safe bearing capacity from Settlement criteria may be calculated from separately for foundation in cohesion less soil.

Table 7: Settlement in Cohesion less soil

Depth of Footing	AVG. N-VALUE	Net Safe bearing capacity, q_{Ns}	Settlement in Cohesion less Soil, Δ_2 (mm)	Total Settlement Δ (mm)
1.5 m	6.0	7.2 t/m²	45 x 7.2/10 = 32.40	32.4
3.0 m	8.0	11.7 t/m²	28 x 11.7/10 = 32.76	32.8
4.5 m	13.0	17.0 t/m²	18 x 17/10 = 30.60	30.6

Net Settlement, Δ< 40 mm, Hence safe

10. ESTIMATION OF MODULUS OF SUBGRADE REACTION (K-VALUE)

Modulus of Sub grade Reaction (k) is required for foundation & Calculated by Westergads method and is estimated from Plate Load Test data.

Standard plate size for finding 'k' value is 75 cm size, the standard 'k' value corresponding to 30 cm plate is found by applying a suitable correction for plate size.

By equation,

$$K = 10p/1.25 \text{ Kg/cm}^2/\text{cm}$$

Where,

'K' = Modulus of Sub grade Reaction

'p' = load intensity required for settlement of 1.25mm from load-settlement curve

Correction for plate size:

$\Delta = 1.18\, pa/E$ (Elastic theory)

Where,

Δ = Deflection

E = Elasticity constant of soil

Now,

$\frac{p}{\Delta} = k = E/1.18A$

$k A = E/1.18 = \text{Constant}$

Therefore, $k_1 A_1 = k_2 A_2$

$k_{75} = k_{30} \times A_{30}/A_{75}$

$k_{75} = 0.16\, k_{30}$

Calculation of Modulus of Sub grade Reaction from field results

For PLT 1/1

load intensity, p (from 1.25mm settlement) = 1.96 kg

$k_{30} = 10\, p/1.25 = 1.96 \times 10/1.25 = 15.68 \text{ kg/cm}^2/\text{cm}$

$k_{75} = 0.16\, k_{30} = 2.509 \text{ kg/cm}^2/\text{cm}$

Calculation for other PLT tests have been conducted in tabular form in Annexure -1

11. RECOMMENDATIONS

Recommended bearing capacity for different types of foundation may be assumed as follow:

Table 8: Recommendations

S.No	BHL No.	Type of foundation	At 1.5 m depth		At 3.0 m depth		At 4.5 m depth	
			$(q_a)_{net}$ (t/m^2)	$(q_a)_{gross}$ (t/m^2)	$(q_a)_{net}$ (t/m^2)	$(q_a)_{gross}$ (t/m^2)	$(q_a)_{net}$ (t/m^2)	$(q_a)_{gross}$ (t/m^2)
1.	BHL NO-1	Isolated Footing	8.1	10.6	13.4	18.5	19.4	27.0
2.	BHL NO-2	Isolated Footing	11.5	14.0	16.8	21.8	22.6	30.1
3.	BHL NO-3	Isolated Footing	10.5	13.0	16.1	21.2	22.2	29.8
4.	BHL NO-4	Isolated Footing	8.4	11.0	12.7	17.7	17.6	25.1
5.	BHL NO-5	Isolated Footing	9.6	12.0	14.3	19.2	19.6	26.8
6.	BHL NO-6	Isolated Footing	9.0	11.5	14.3	19.4	20.5	28.1
7.	BHL NO-7	Isolated Footing	7.0	9.5	11.3	16.2	16.2	23.6
8.	BHL NO-8	Isolated Footing	8.8	11.3	14.6	19.6	21.2	28.6
9.	BHL NO-9	Isolated Footing	9.4	12.0	15.8	20.9	23.2	30.8
10.	BHL NO-10	Isolated Footing	9.4	12.0	15.3	20.3	22.1	29.7
11.	BHL NO-11	Isolated Footing	8.5	11.0	16.1	21.0	25.0	32.4
12.	BHL NO-12	Isolated Footing	9.2	11.7	17.5	22.4	27.1	34.5
13.	BHL NO-13	Isolated Footing	8.5	11.0	16.0	20.9	25.0	32.3
14.	BHL NO-14	Isolated Footing	9.0	11.5	14.2	19.2	20.2	27.7
15.	BHL NO-15	Isolated Footing	6.5	9.0	12.3	17.5	19.0	26.4
16.	BHL NO-16	Isolated Footing	7.4	9.8	12.0	16.8	17.3	24.5
17.	BHL NO-17	Isolated Footing	9.6	12.0	15.8	20.7	23.0	30.3
18.	BHL NO-18	Isolated Footing	8.8	11.3	15.0	20.0	22.2	29.7
19.	BHL NO-19	Isolated Footing	8.5	11.0	14.3	19.3	21.0	28.6
20.	BHL NO-20	Isolated Footing	7.4	10.0	12.0	17.0	17.0	24.5
21.	BHL NO-21	Isolated Footing	6.5	9.0	12.4	17.4	19.1	26.7
22.	BHL NO-22	Isolated Footing	7.5	10.0	13.0	17.9	19.4	26.8
23.	BHL NO-23	Isolated Footing	7.8	10.3	14.8	19.7	23.0	30.4
24.	BHL NO-24	Isolated Footing	6.6	9.1	12.5	17.5	19.4	27.0
25.	BHL NO-25	Isolated Footing	7.5	10.0	12.5	17.4	18.3	25.6
26.	BHL NO-26	Isolated Footing	8.0	10.5	12.7	17.6	18.1	25.5
27.	BHL NO-27	Isolated Footing	7.1	9.6	11.8	16.8	17.1	24.6
28.	BHL NO-28	Isolated Footing	7.5	10.0	12.0	17.1	17.1	24.7
29.	BHL NO-29	Isolated Footing	7.0	9.5	11.4	16.4	16.5	24.0

S.No	BHL NO	Type of Foundation	At 1.5 m depth		At 3.0 m depth		At 4.5 m depth	
			$(q_a)_{net}$ (t/m^2)	$(q_a)_{gross}$ (t/m^2)	$(q_a)_{net}$ (t/m^2)	$(q_a)_{gross}$ (t/m^2)	$(q_a)_{net}$ (t/m^2)	$(q_a)_{gross}$ (t/m^2)
30.	BHL NO-30	Isolated Footing	9.0	11.5	14.2	19.2	20.2	27.7
31.	BHL NO-31	Isolated Footing	8.1	10.6	13.2	18.2	19.2	26.7
32.	BHL NO-32	Isolated Footing	8.7	11.2	15.0	19.9	22.0	29.4
33.	BHL NO-33	Isolated Footing	7.7	10.2	12.8	17.8	18.6	26.1
34.	BHL NO-34	Isolated Footing	8.6	11.0	13.5	18.4	19.0	26.3
35.	BHL NO-35	Isolated Footing	7.4	9.9	11.8	16.8	17.0	24.5
36.	BHL NO-36	Isolated Footing	7.3	9.8	13.7	18.7	21.3	28.8
37.	BHL NO-37	Isolated Footing	8.1	10.6	13.2	18.2	19.2	26.7
38.	BHL NO-38	Isolated Footing	9.5	12.0	15.5	20.5	22.7	30.1
39.	BHL NO-39	Isolated Footing	8.8	11.3	14.0	18.9	20.0	27.4
40.	BHL NO-40	Isolated Footing	6.6	9.0	10.8	15.7	15.6	22.9
41.	BHL NO-41	Isolated Footing	7.8	10.3	11.8	16.8	16.2	23.7
42.	BHL NO-42	Isolated Footing	8.1	10.5	13.8	18.8	20.3	27.9
43.	BHL NO-43	Isolated Footing	8.5	11.0	13.8	18.8	19.8	27.4
44.	BHL NO-44	Isolated Footing	8.0	10.5	15.0	20.0	23.2	30.7
45.	BHL NO-45	Isolated Footing	7.2	9.7	13.6	18.6	21.0	28.4
46.	BHL NO-46	Isolated Footing	9.3	11.8	15.6	20.6	23.0	30.5

NOTE:

1. The area under investigation falls under seismic zone- IV as per India seismic code.
2. It is also suggested that the backfilling of the foundation soil should be well compacted inlayer at optimum moisture content to achieve at least 95% of proctor density, followed by suitable plinth protection & effective drainage system.
3. For any other size and depth of footing bearing capacity of soil can be calculated from the data provided.

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LIST OF I.S. CODES

FIELD INVESTIGATION:

1.	IS : 1498 - 1970	:	Classification and identification of soils for general engineering purpose (First Revision).
2.	IS : 1892 - 1979	:	Code of practice for sub surface investigation for foundations (First Revision).
3.	IS : 2131 - 1981	:	Method of Standard Penetration Tests for soils.
4.	IS : 2132 - 1986	:	Code of practice for thin walled tube sampling of soils (Second Revision).
5.	IS : 4968 - 1976 (Part - 3)	:	Method of sub surface sounding for soils : Static cone penetration test.

LABORATORY TESTS:

1.	IS 2720 - 1983 (Part - 1)	:	Methods of test for soils : Preparation of dry soil sample for various tests (Second Revision).
2.	IS : 2720 - 1980 (Part - 2)	:	Method of test for soils : Determination of water content (Second Revision).
3.	IS : 2720 - 1980 (Part - 3) (Section - 1)	:	Method of test for soils : Determination of Specific Gravity : Fine Grained Soils.
4.	IS : 2720 - 1980 (Part - 3) (Section - 2)	:	Method of test for soils : Determination of Specific Gravity : Fine, Medium, Coarse Grained Soils (First Edition).
5.	IS : 2720 - 1985 (Part - 4)	:	Method of test for soils : Grain Size Analysis.
6.	IS : 2720 - 1985 (Part - 5)	:	Method of test for soils : Determination of liquid & plastic limit (Second Revision).
7.	IS : 2720 - 1986 (Part - 15)	:	Method of test for soils : Determination of consolidation properties (First Revision).
8.	IS : 2809 - 1972	:	Method of test for soils : Glossary of terms & symbols relating to soil engineering.

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.
3.	IS : 1080 - 1986	:	Code of practice for design and construction of shallow foundations on soils (other than raft, ring and shell) (Second Revision).
4.	IS 6403 - 1981	:	Code of practice for determination of bearing capacity of shallow foundations.
5.	IS 8009 - 1976 (Part - 1)	:	Code of practice for calculations of settlements of foundations : shallow foundations subject to symmetrical static vertical loads.

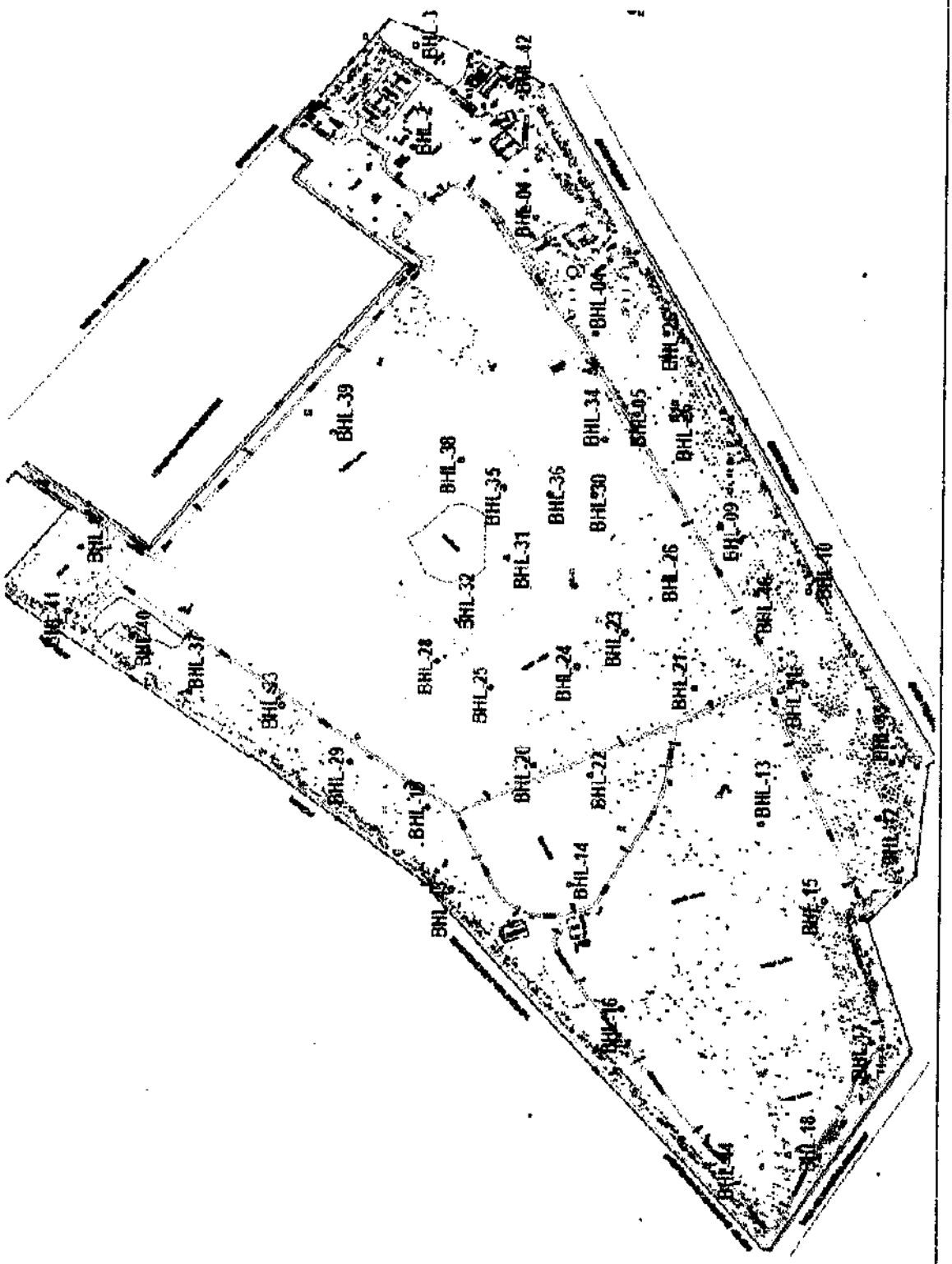
NOTATIONS USED

N	=	Observed SPT value
C_N	=	Correction factor
N_N	=	Corrected SPT values
Y	=	Bulk unit weight
Y'	=	Submerged unit weight
Y_d	=	Dry unit weight
Y_{sat}	=	Saturated unit weight
G	=	Specific gravity of soil
W_L	=	Liquid limit
W_P	=	Plastic limit
I_P	=	Plasticity index
Q_u	=	Unconfined compressive strength
C_u	=	Undrained shear strength
C	=	Effective cohesional parameter
Ø	=	Effective angle of shearing resistance
$Ø_m$	=	Mobilized angle of shearing resistance
N Ø	=	Flow value $Tan^2 (45 + Ø / 2)$
GSF	=	General shear failure
LSF	=	Local shear failure
C_c	=	Compression index
B	=	Width of foundation
L	=	Length of foundation
D	=	Depth of foundation
q	=	Effective surcharge
N_γ, N_q, & N_c	=	Bearing capacity factors
S_γ, S_q, & S_c	=	Shape factors
d_γ, d_q, & d_c	=	Depth factors

S.S.W.L.	=	Sub soil water level
W'	=	W.T. correction factor
H	=	Thickness of clayey layer
σ'_o	=	Original effective overburden pressure
$\Delta\sigma$	=	Vertical stress increment
e_o	=	Original void ratio
w	=	Water content
H_t	=	Thickness of sandy layer
B_t	=	Top width of sandy layer
$\Delta\sigma_t$	=	Stress increment at the top of a sandy layer
D_f	=	Depth factor
L_{yf}	=	Lateral yield factor
R_f	=	Rigidity factor
q_{nf}	=	Net ultimate bearing capacity
q_{ns}	=	Net safe bearing capacity against shear failure
q_n	=	Net foundation loading intensity for a given settlement
q_a	=	Allowable bearing capacity
S_o	=	Settlement due to a net unit foundation loading intensity
S_{ob}	=	Settlement due to a net unit foundation loading intensity under submerged conditions (1Kg / cm^2)
WT	=	Water table
S_t	=	Total settlement
S_a	=	Maximum allowable settlement
GW	=	Well graded gravels
GP	=	Poorly graded gravels
GM	=	Silty gravels
GC	=	Clayey gravels
SW	=	Well graded sands

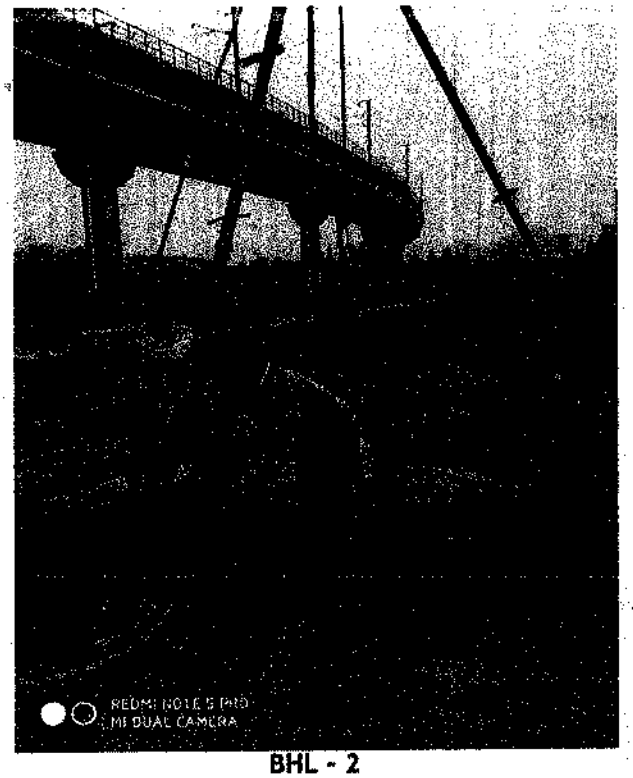
SP	=	Poorly graded sands
SM	=	Silty sands
SC	=	Clayey sands
ML	=	Silt of low compressibility
CL	=	Clay of low plasticity
MI	=	Silt of medium compressibility
CI	=	Clay of medium plasticity
MH	=	Silt of high compressibility
CH	=	Clay of high plasticity
M(NP)	=	Non plastic silt
ML-CL	=	Mixture of ML and CL

BOREHOLE LOCATION



SITE PHOTOGRAPHS

BHL - 1



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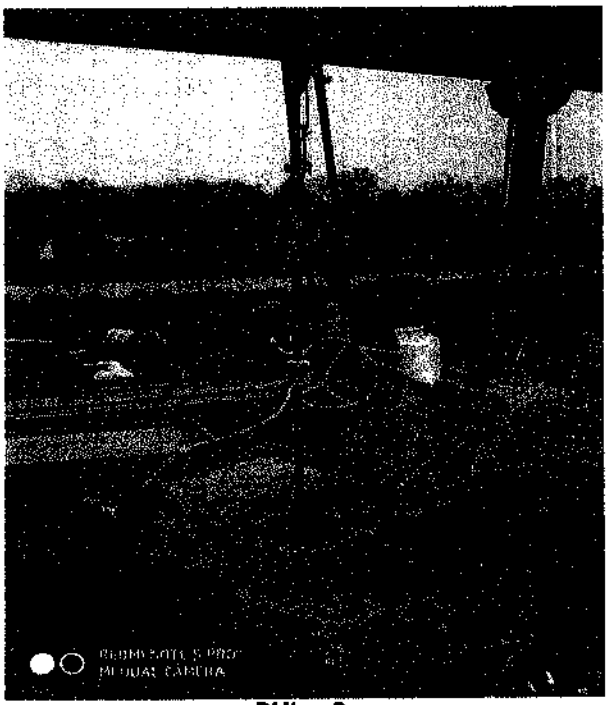

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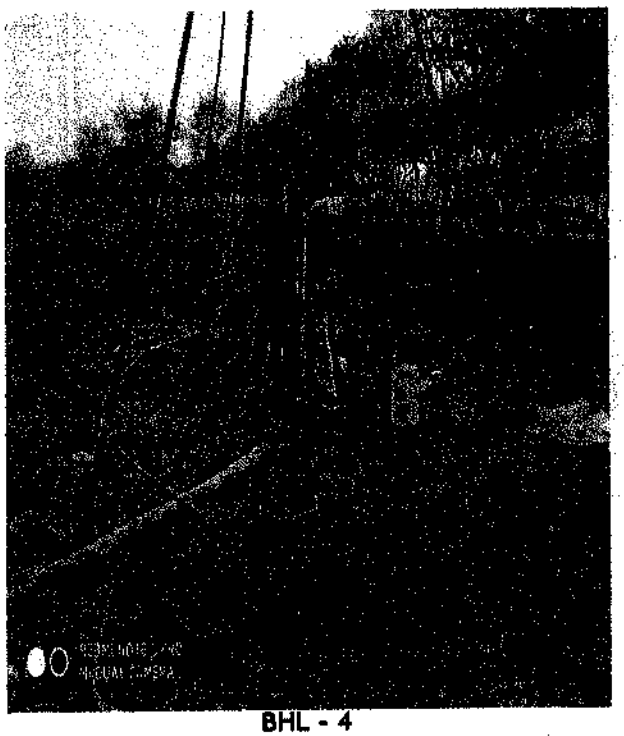

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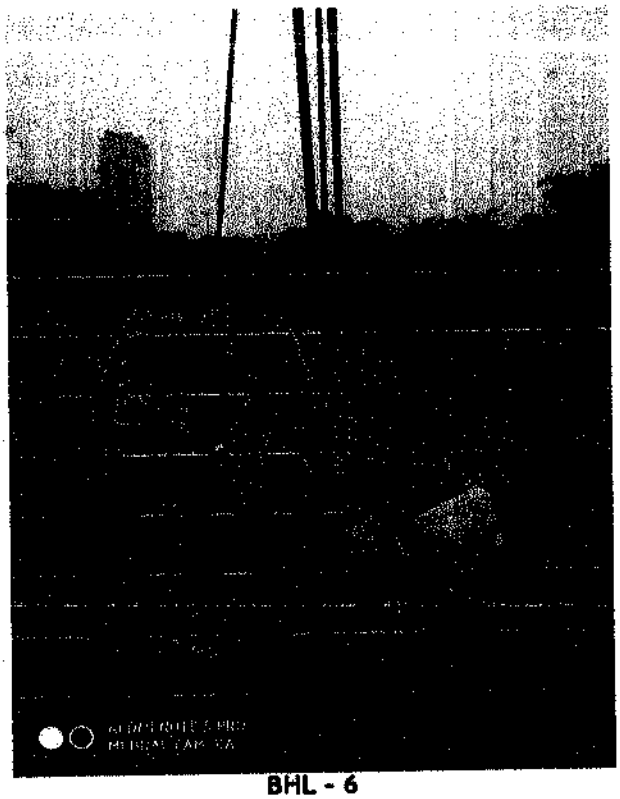

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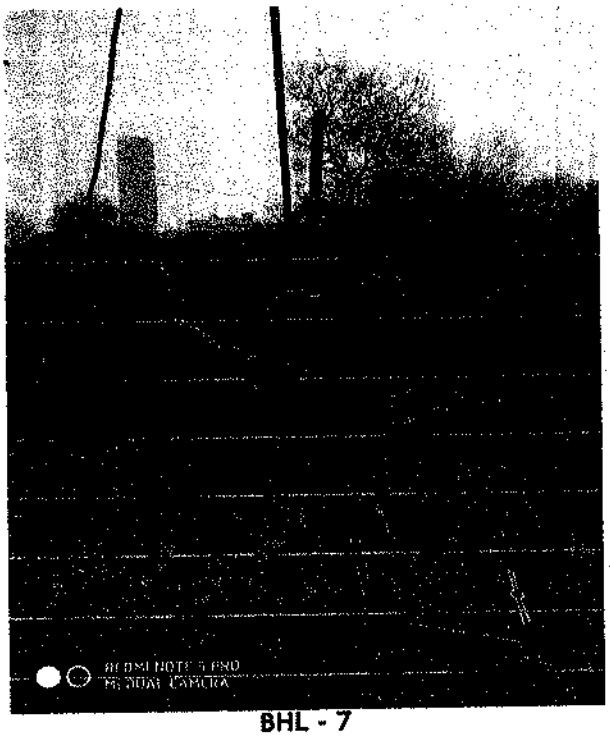

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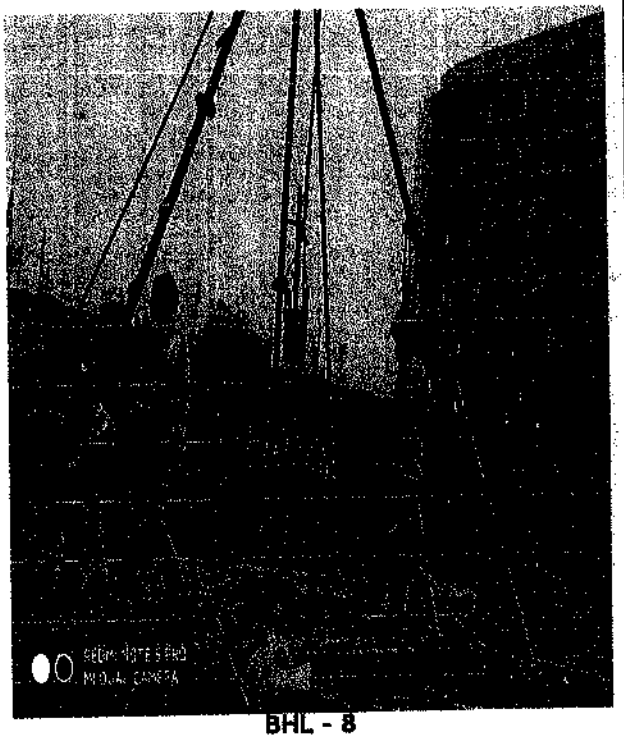

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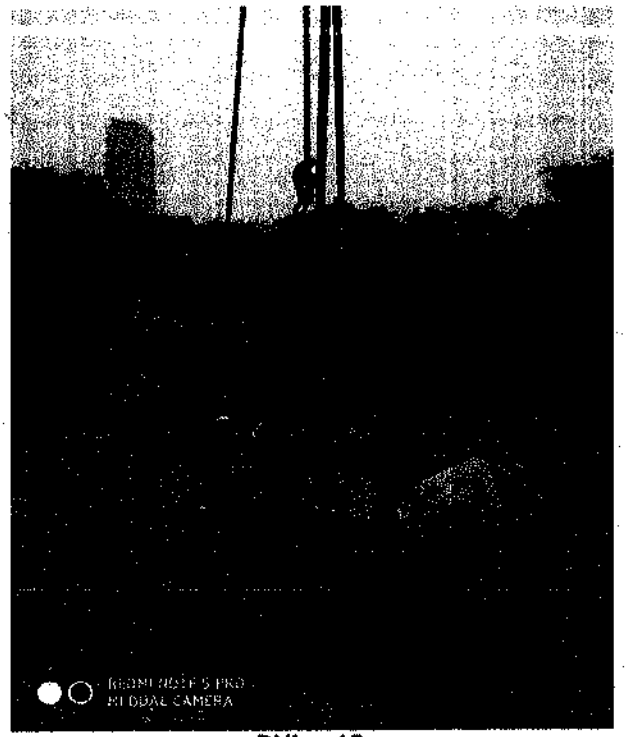

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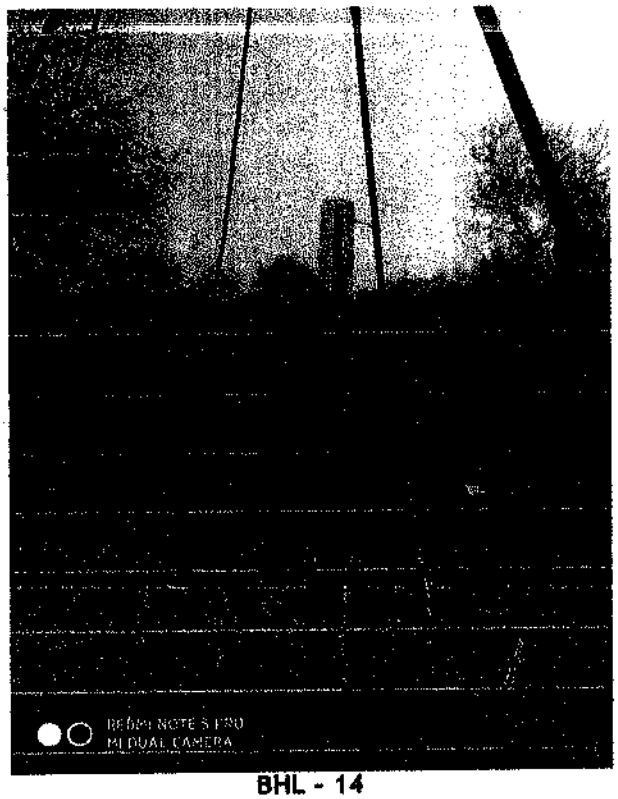
BHL - 11

BHL - 12

BHL - 13



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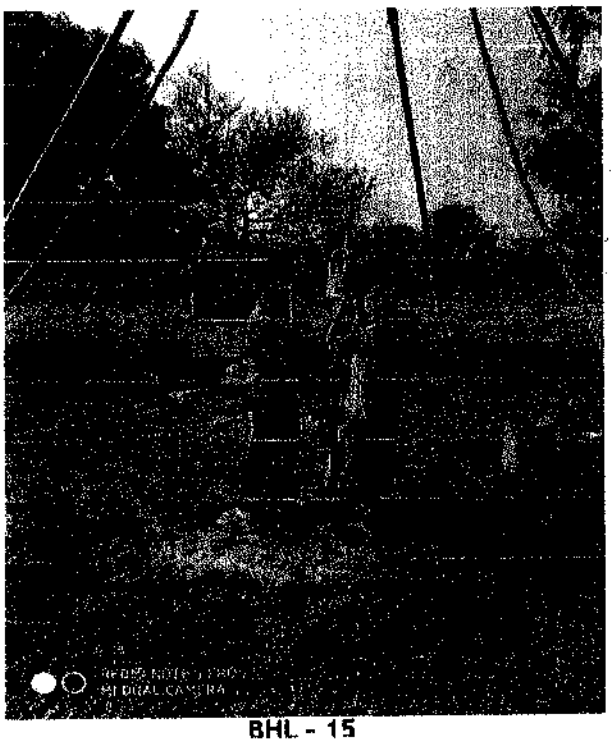

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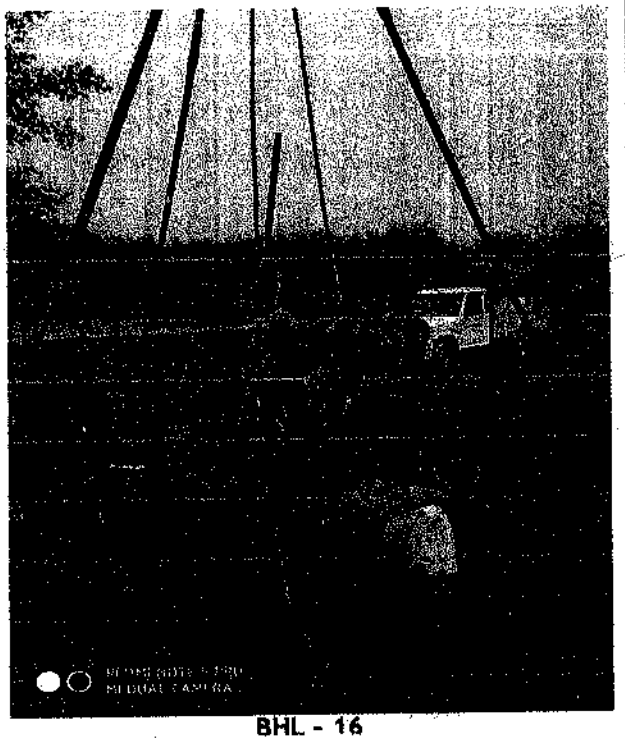

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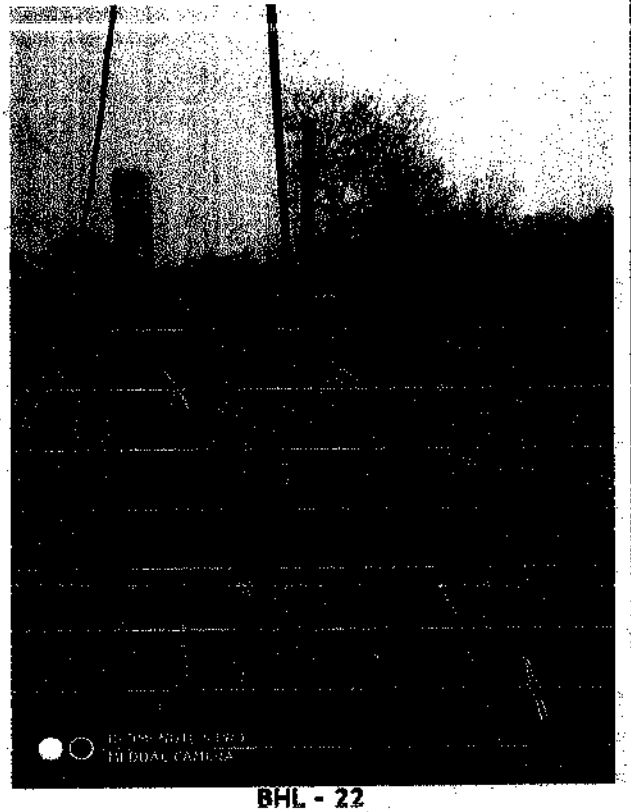
BHL - 17

BHL - 18

BHL - 19

BHL - 20

BHL - 21



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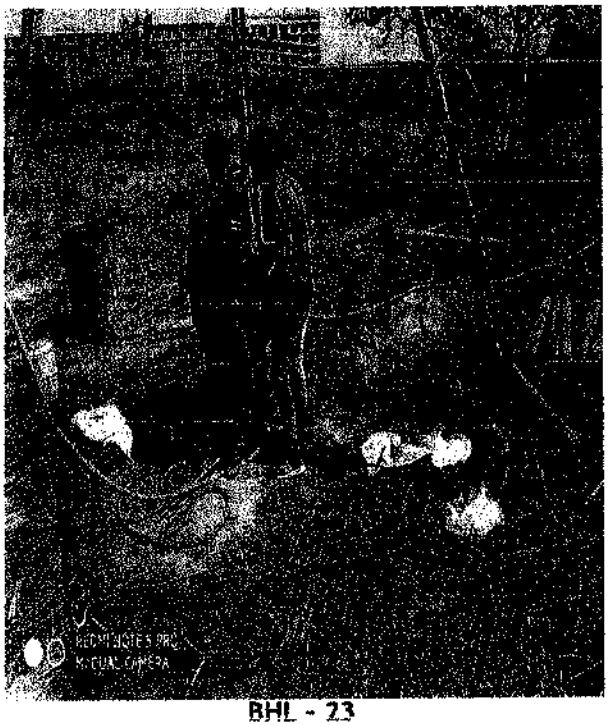
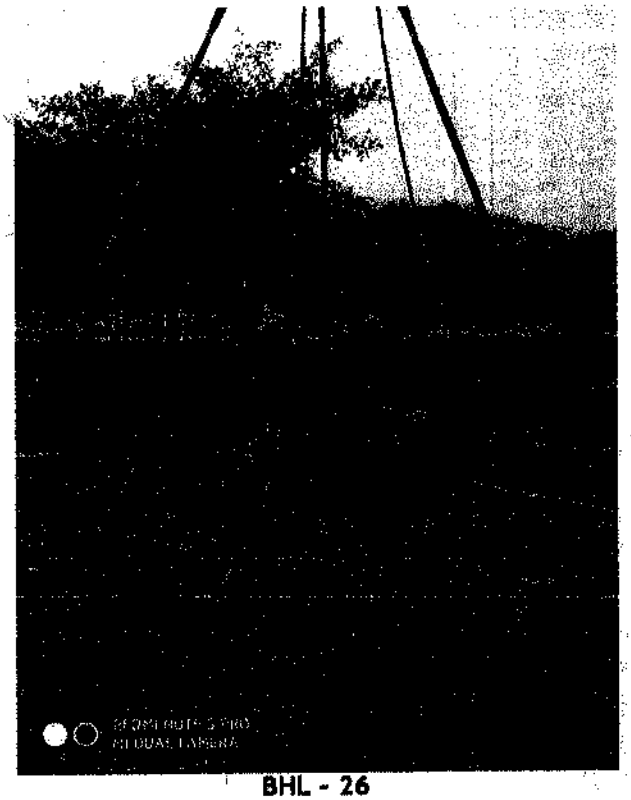


BHL - 23

BHL - 24

BHL - 25



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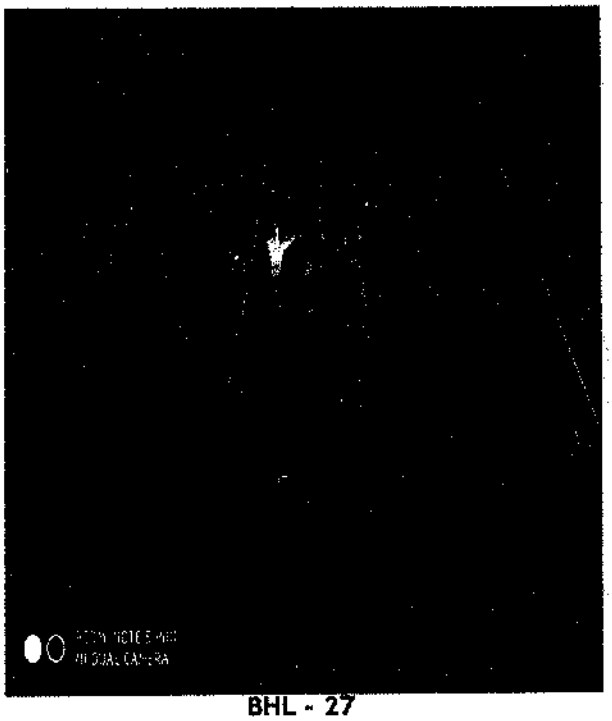
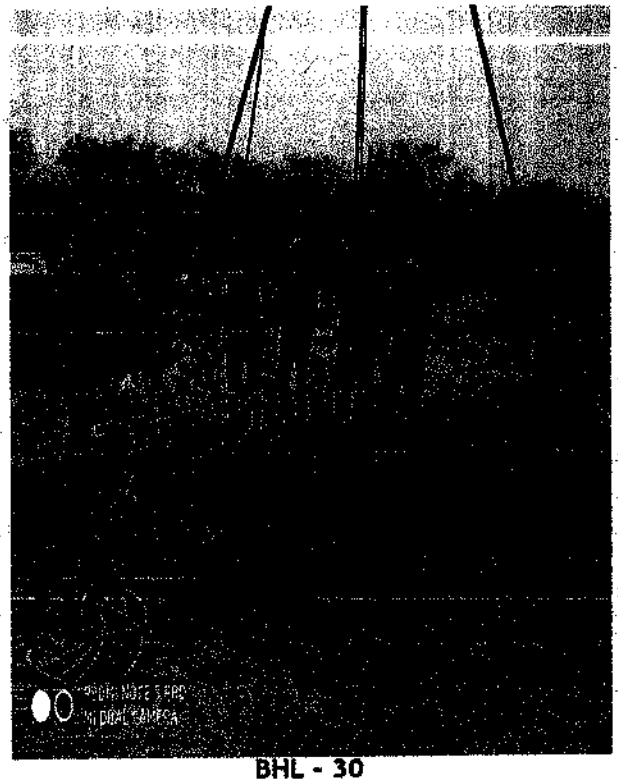


BHL - 27

BHL - 28

BHL - 29



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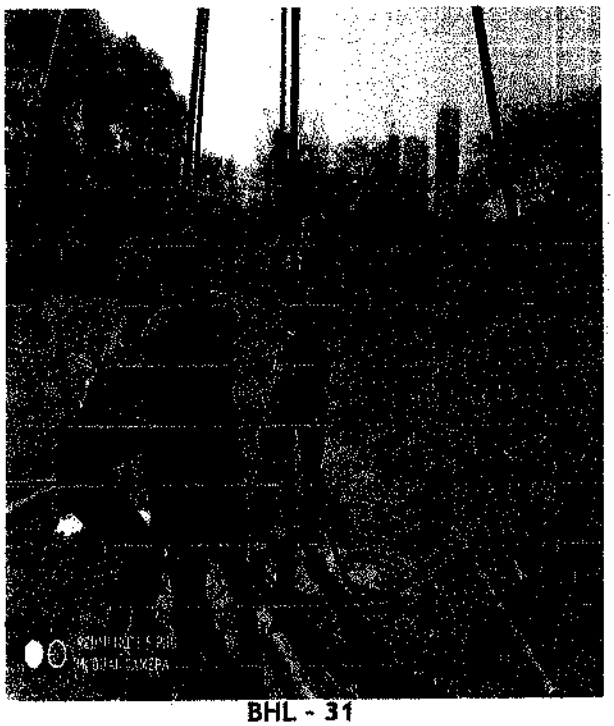

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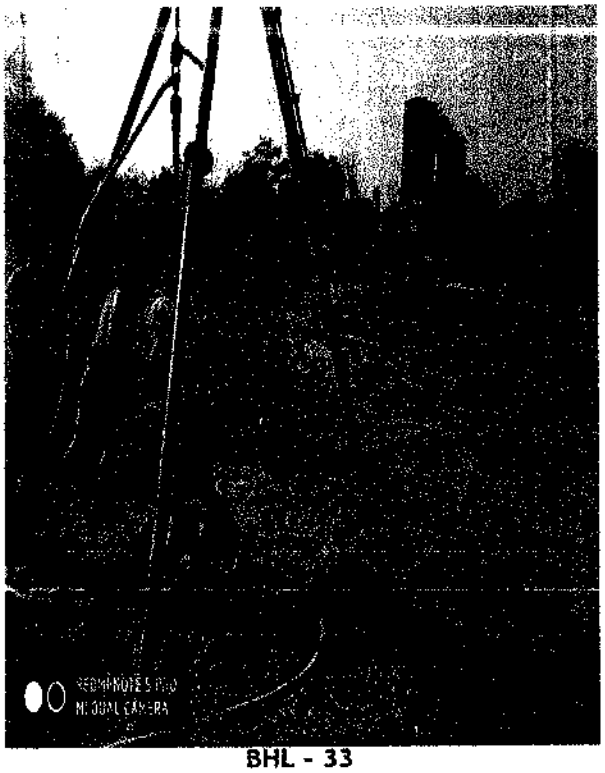


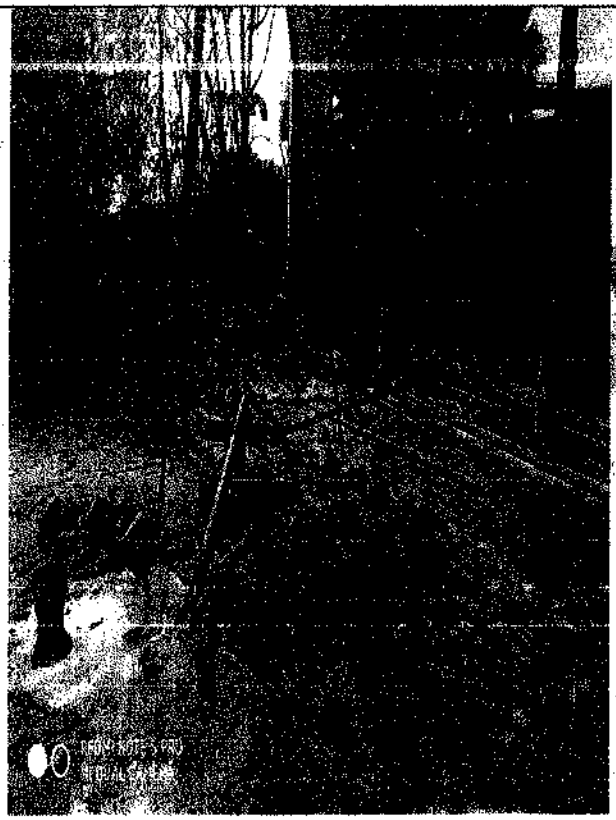
BHL - 33

BHL - 34

BHL - 35

BHL - 36

BHL - 37



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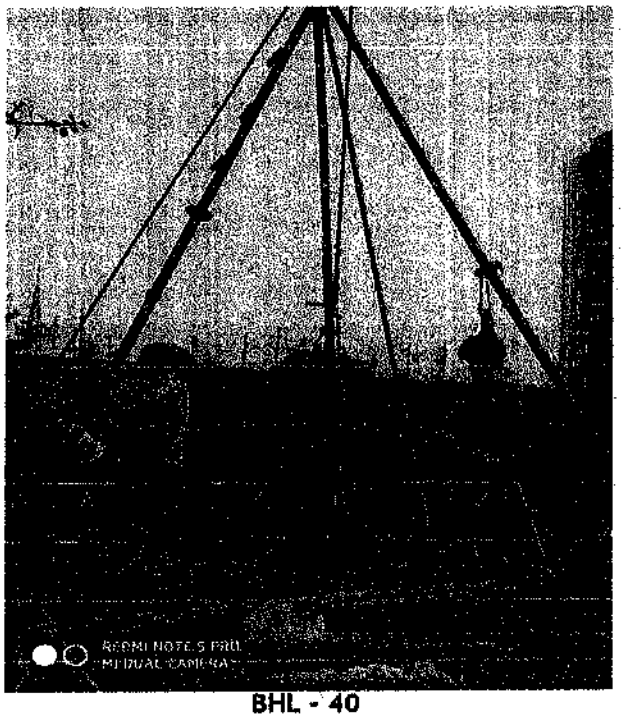
BHL - 39



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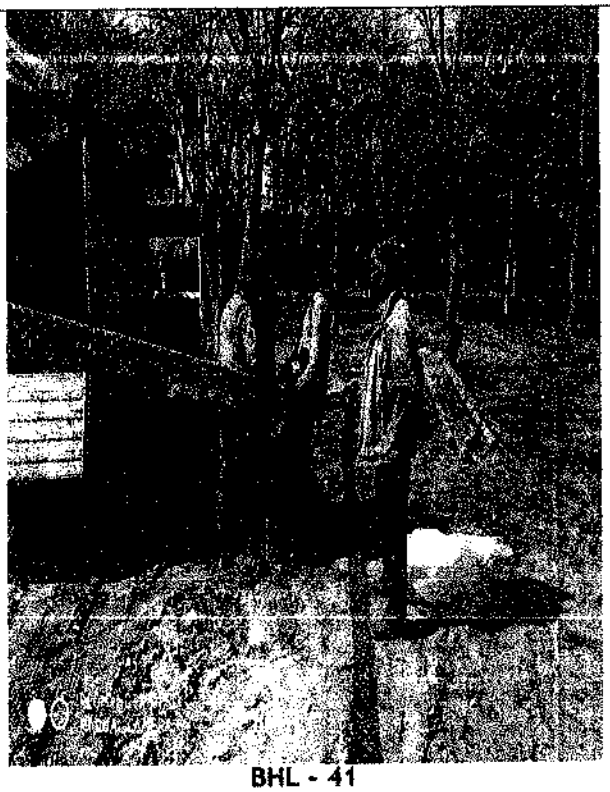

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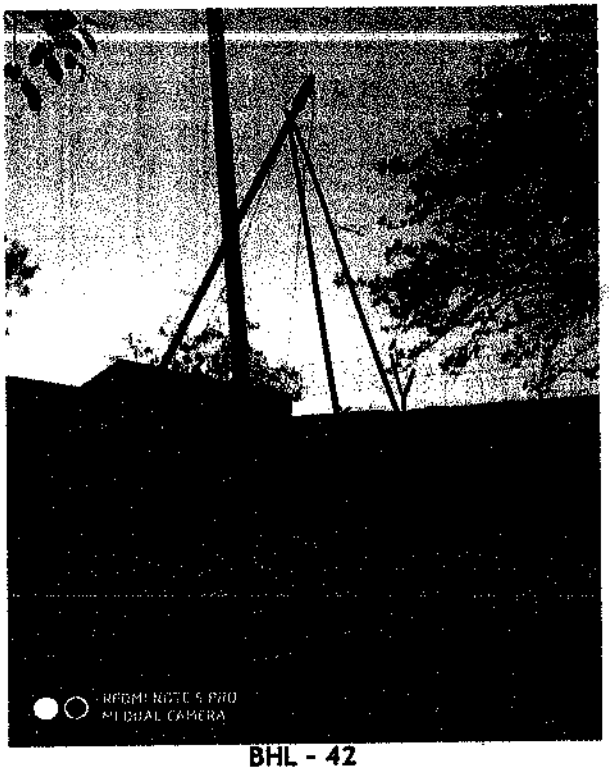

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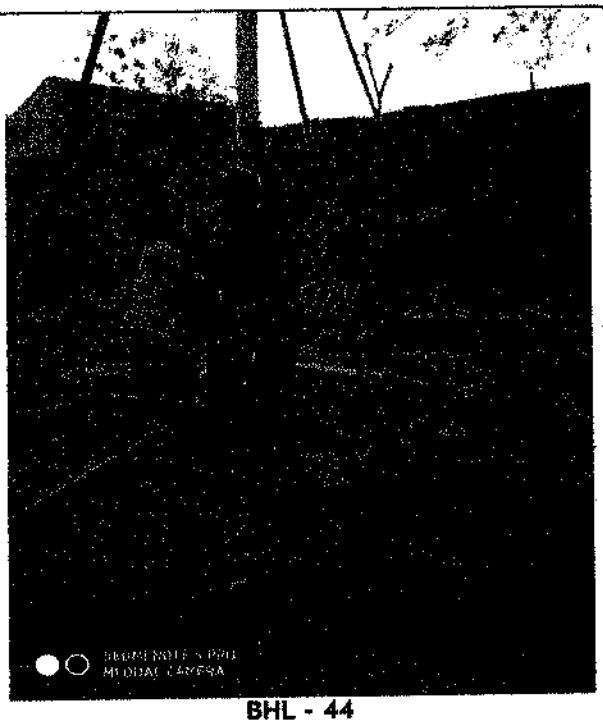
BHL - 43



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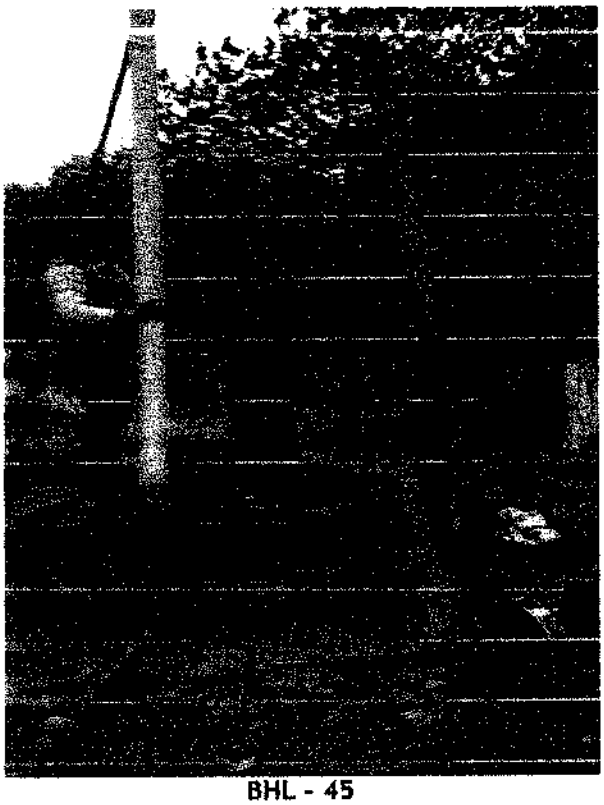


BHL - 45

BHL - 46

ANNEXURE 1

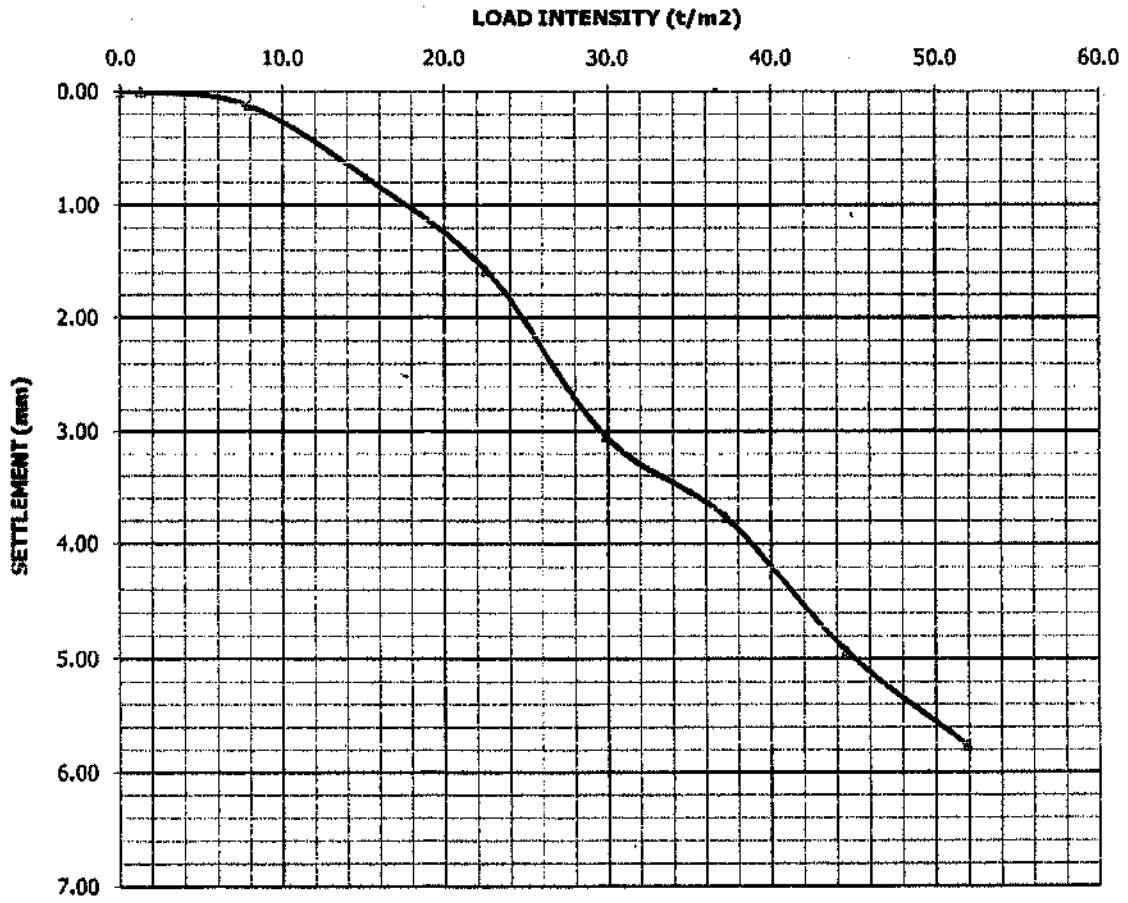
PLATE LOAD TEST RESULTS

S.No	Test Location	Depth	Load Intensity, p (tn)	K_{30}, Kg/cm²/cm	K_{75}, Kg/cm²/cm
1.	PLT-1/1	1.5 m	1.96	15.68	2.50
2.	PLT-1/2	2.5 m	2.36	18.88	3.02
3.	PLT-1/3	3.5 m	2.69	21.52	3.44
4.	PLT-2/1	1.5 m	2.07	16.56	2.64
5.	PLT-2/2	2.5 m	3.42	27.40	4.38
6.	PLT-2/3	3.5 m	4.13	33.10	5.28
7.	PLT-3/1	1.5 m	1.61	12.90	2.06
8.	PLT-3/2	2.5 m	1.97	15.8	2.52
9.	PLT-3/3	3.5 m	3.87	31.0	4.95
10.	PLT-4/1	1.5 m	2.28	18.3	2.92
11.	PLT-4/2	2.5 m	2.18	17.5	2.80
12.	PLT-4/3	3.5 m	3.79	30.4	4.85
13.	PLT-5/1	1.5 m	2.23	17.9	2.85
14.	PLT-5/2	2.5 m	3.22	25.8	4.13
15.	PLT-5/3	3.5 m	2.74	21.9	3.50
16.	PLT-6/1	1.5 m	2.32	18.6	2.97
17.	PLT-6/2	2.5 m	2.63	21.1	3.37
18.	PLT-6/3	3.5 m	2.77	22.2	3.55

PIT NO-1 TEST NO-1/1 DEPTH-1.5

Load (Kg)	Load Intensity (t/m^2)	Maximum Settlement of Plate (0.01mm)		
		Dial Gauge - 1	Dial Gauge - 2	Average
0	0	0	0	0
63	1.26	0	0	0
660	7.89	10	13	12
1320	15.22	67	85	76
1980	22.56	152	163	158
2640	29.89	300	310	305
3300	37.22	380	374	377
3960	44.56	437	548	493
4620	51.89	538	614	576

LOAD INTENSTIY v/s SETTLEMENT PLOT



PIT NO-1 TEST NO-1/2 DEPTH-2.5

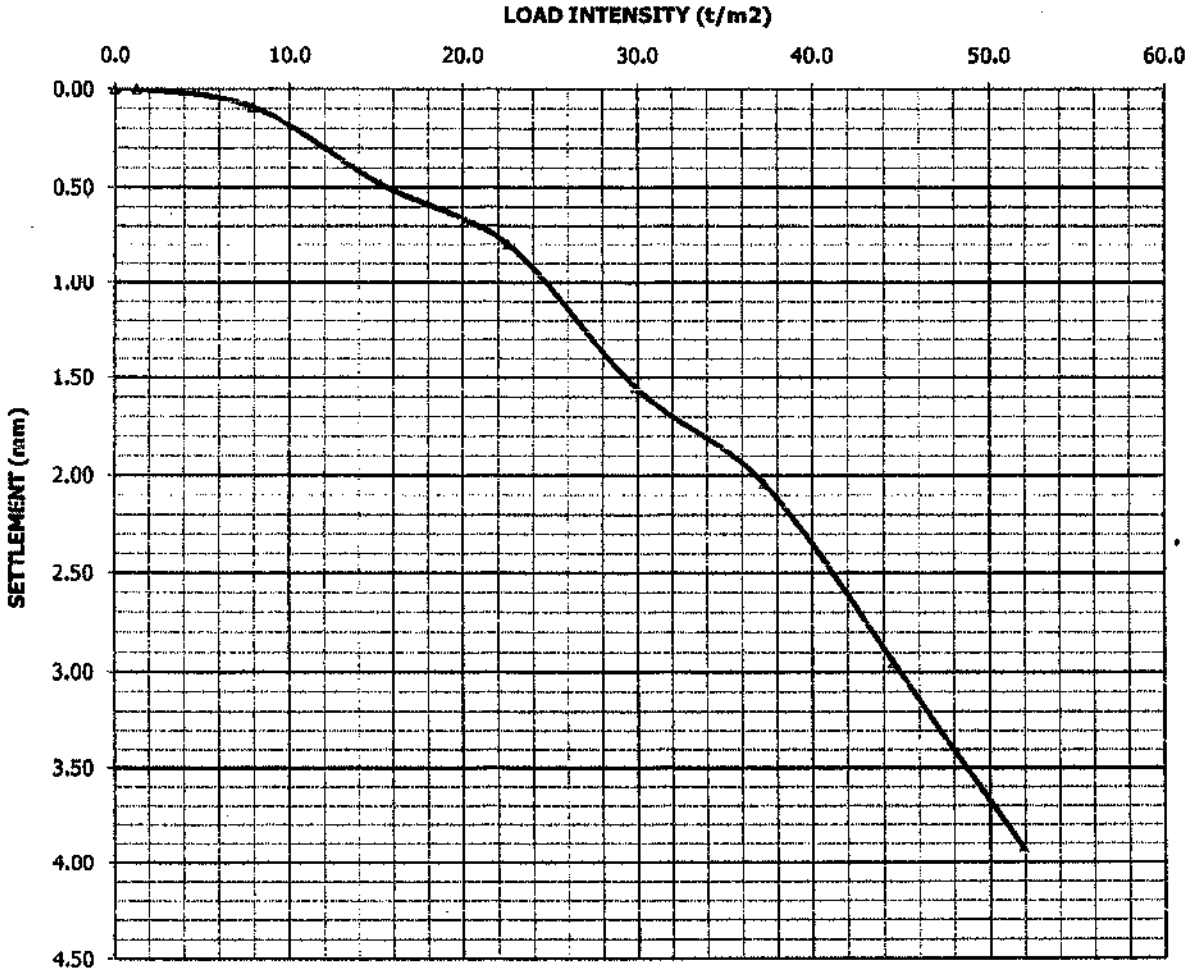
Load (Kg)	Load Intensity (t/m^2)	Maximum Settlement of Plate (0.01mm)		
		Dial Gauge - 1	Dial Gauge - 2	Average
0	0	0	0	0
63	1.26	0	0	0
660	7.89	11	16	14
1320	15.22	56	62	59
1980	22.56	103	112	108
2640	29.89	210	234	222
3300	37.22	346	358	352
3960	44.56	477	514	496
4620	51.89	590	663	627

LOAD INTENSTIY v/s SETTLEMENT PLOT

PIT NO-1 TEST NO-1/3 DEPTH-3.5

Load (Kg)	Load Intensity (t/m^2)	Maximum Settlement of Plate (0.01mm)		
		Dial Gauge - 1	Dial Gauge - 2	Average
0	0	0	0	0
63	1.26	0	0	0
660	7.89	7	10	9
1320	15.22	43	52	48
1980	22.56	78	82	80
2640	29.89	146	163	155
3300	37.22	199	208	204
3960	44.56	278	312	295
4620	51.89	398	388	393

LOAD INTENSTIY v/s SETTLEMENT PLOT



PIT NO-2 TEST NO-2/1 DEPTH-1.5

Load (Kg)	Load Intensity (t/m^2)	Maximum Settlement of Plate (0.01mm)		
		Dial Gauge - 1	Dial Gauge - 2	Average
0	0	0	0	0
63	1.26	0	0	0
660	7.89	14	22	18
1320	15.22	77	89	83
1980	22.56	147	130	139
2640	29.89	235	280	258
3300	37.22	310	340	325
3960	44.56	457	531	494
4620	51.89	614	712	663

LOAD INTENSTIY v/s SETTLEMENT PLOT

PIT NO-2 TEST NO-2/2 DEPTH-2.5

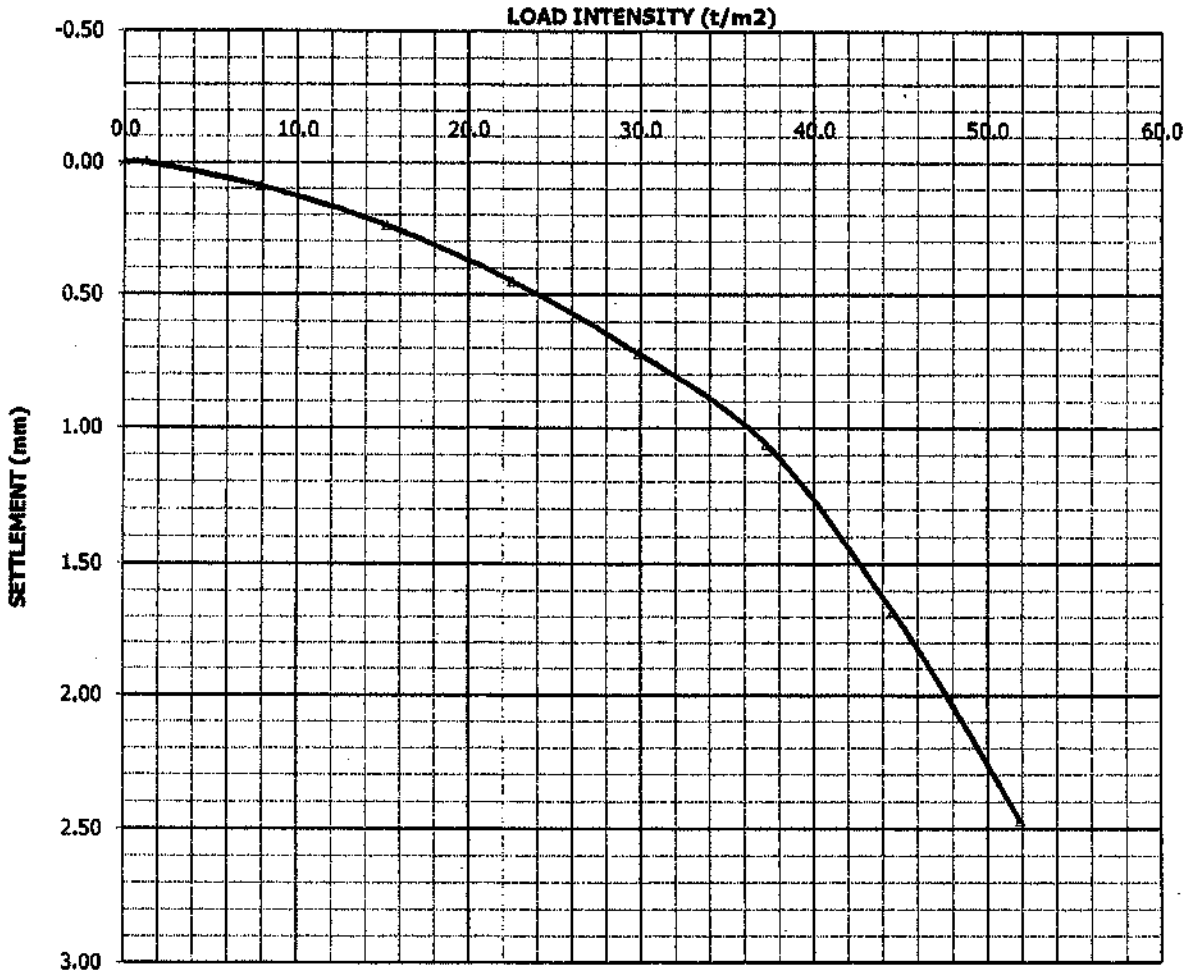
Load (Kg)	Load Intensity (t/m^2)	Maximum Settlement of Plate (0.01mm)		
		Dial Gauge - 1	Dial Gauge - 2	Average
0	0	0	0	0
63	1.26	0	0	0
660	7.89	9	12	11
1320	15.22	37	46	42
1980	22.56	56	62	59
2640	29.89	77	91	84
3300	37.22	143	162	153
3960	44.56	212	248	230
4620	51.89	356	413	385

LOAD INTENSTIY v/s SETTLEMENT PLOT

PIT NO-2 TEST NO-2/3 DEPTH-3.5

Load (Kg)	Load Intensity (t/m^2)	Maximum Settlement of Plate (0.01mm)		
		Dial Gauge - 1	Dial Gauge - 2	Average
0	0	0	0	0
63	1.26	0	0	0
660	7.89	7	10	9
1320	15.22	22	26	24
1980	22.56	42	47	45
2640	29.89	69	75	72
3300	37.22	99	113	106
3960	44.56	152	183	168
4620	51.89	240	253	247

LOAD INTENSTIY v/s SETTLEMENT PLOT



PIT NO-3 TEST NO-3/2 DEPTH-2.5

Load (Kg)	Load Intensity (t/m^2)	Maximum Settlement of Plate (0.01mm)		
		Dial Gauge - 1	Dial Gauge - 2	Average
0	0	0	0	0
63	1.26	0	0	0
660	7.89	22	33	28
1320	15.22	68	79	74
1980	22.56	143	171	157
2640	29.89	271	322	297
3300	37.22	362	403	383
3960	44.56	512	575	544
4620	51.89	621	702	662

LOAD INTENSTIY v/s SETTLEMENT PLOT

PIT NO-3 TEST NO-3/3 DEPTH-3.5

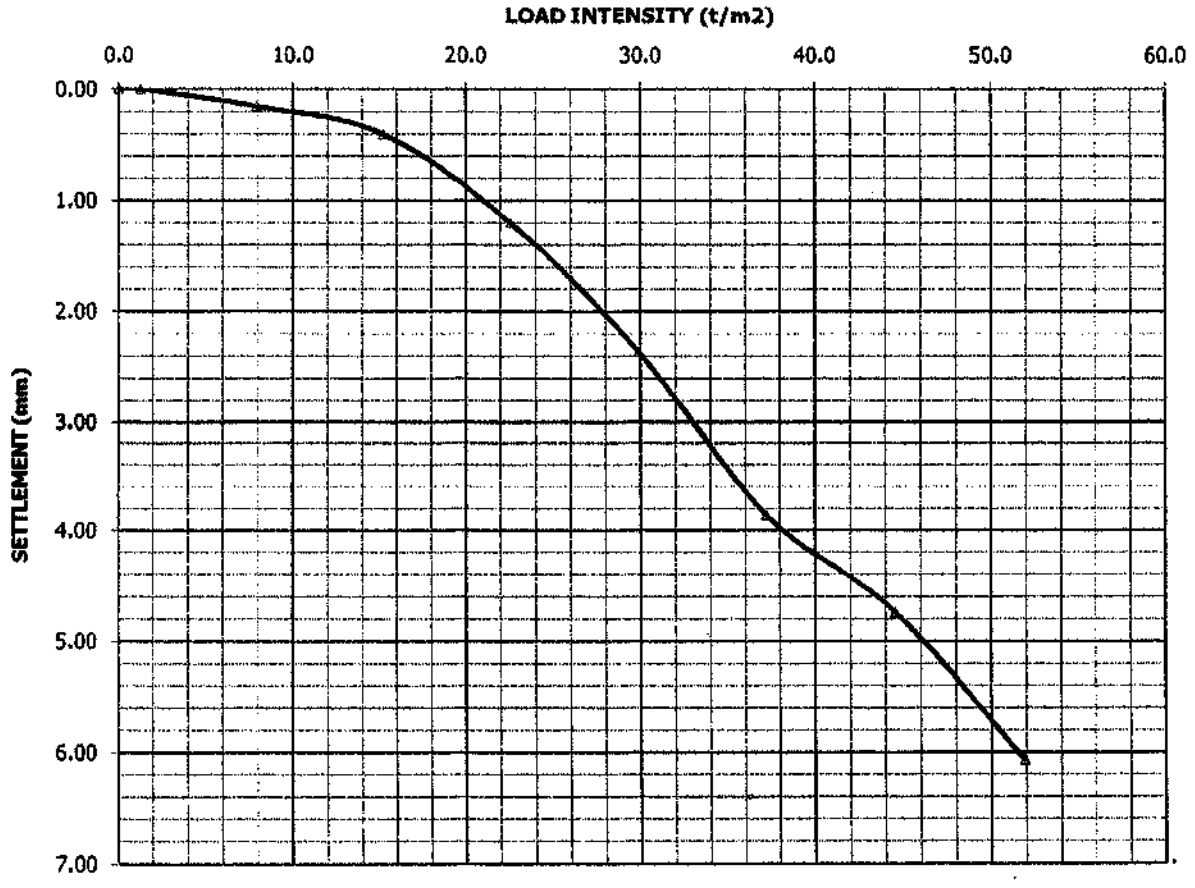
Load (Kg)	Load Intensity (t/m^2)	Maximum Settlement of Plate (0.01mm)		
		Dial Gauge - 1	Dial Gauge - 2	Average
0	0	0	0	0
63	1.26	0	0	0
660	7.89	9	11	10
1320	15.22	23	29	74
1980	22.56	44	51	48
2640	29.89	72	79	76
3300	37.22	105	119	112
3960	44.56	160	191	176
4620	51.89	259	270	265

LOAD INTENSTIY v/s SETTLEMENT PLOT

PIT NO-4 TEST NO-4/1 DEPTH-1.5

Load (Kg)	Load Intensity (t/m^2)	Maximum Settlement of Plate (0.01mm)		
		Dial Gauge - 1	Dial Gauge - 2	Average
0	0	0	0	0
63	1.26	0	0	0
660	7.89	12	17	15
1320	15.22	28	52	40
1980	22.56	101	138	120
2640	29.89	214	258	236
3300	37.22	358	413	386
3960	44.56	436	511	474
4620	51.89	567	647	607

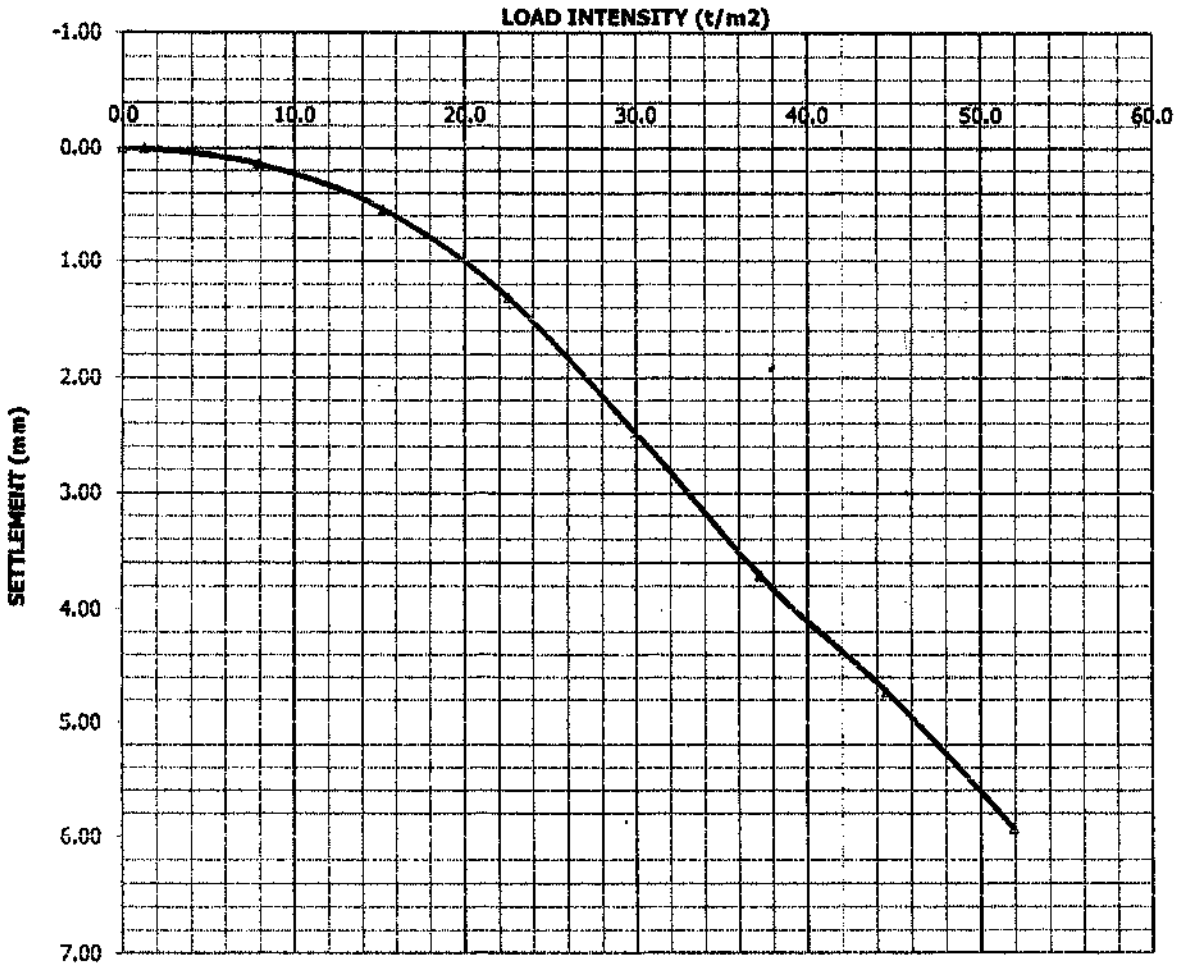
LOAD INTENSTIY v/s SETTLEMENT PLOT



PIT NO-4 TEST NO-4/2 DEPTH-2.5

Load (Kg)	Load Intensity (t/m^2)	Maximum Settlement of Plate (0.01mm)		
		Dial Gauge - 1	Dial Gauge - 2	Average
0	0	0	0	0
63	1.26	0	0	0
660	7.89	12	16	14
1320	15.22	48	59	54
1980	22.56	113	150	132
2640	29.89	215	279	247
3300	37.22	338	403	371
3960	44.56	432	513	473
4620	51.89	516	670	593

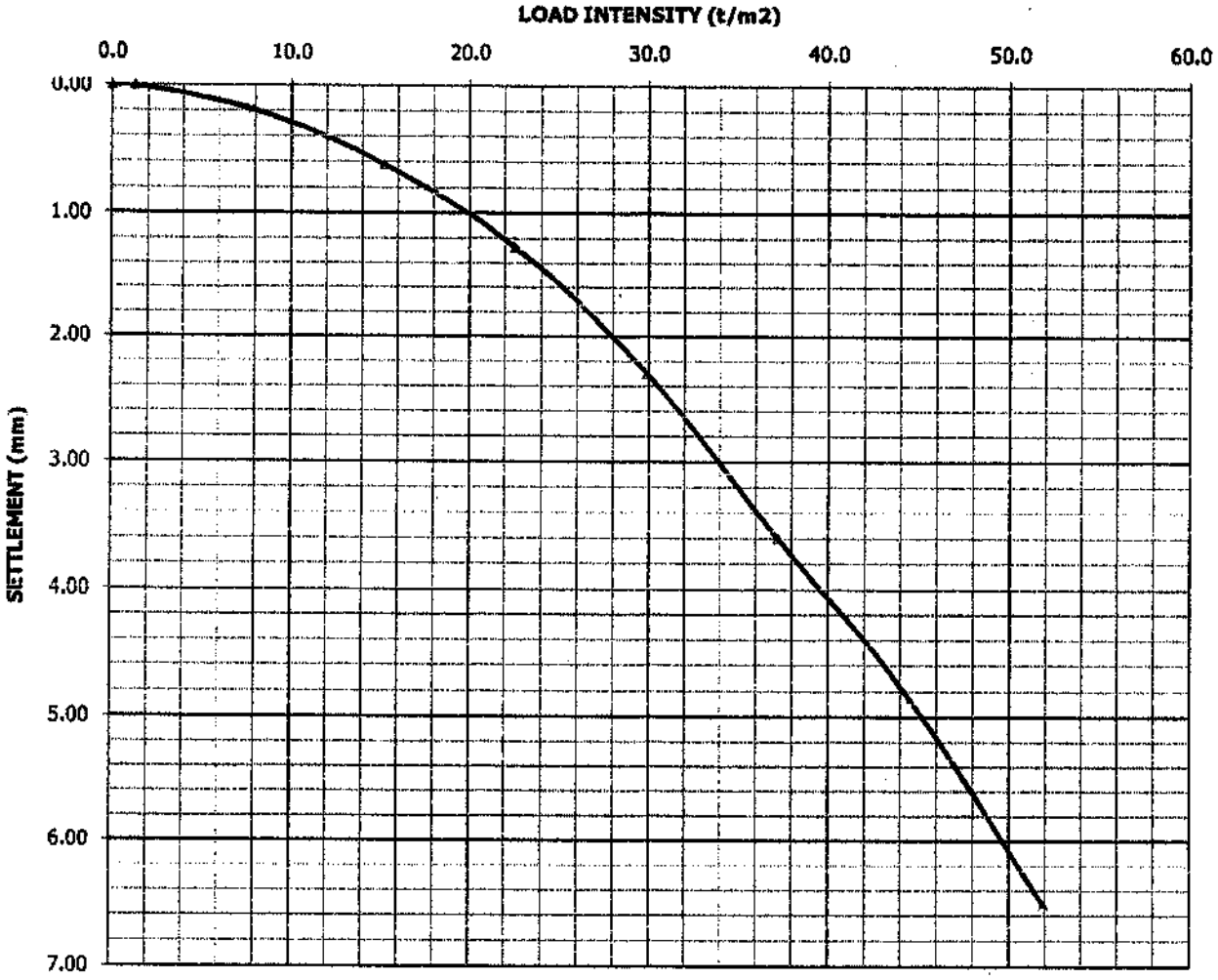
LOAD INTENSTIY v/s SETTLEMENT PLOT



PIT NO-5 TEST NO-5/1 DEPTH-1.5

Load (Kg)	Load Intensity (t/m^2)	Maximum Settlement of Plate (0.01mm)		
		Dial Gauge - 1	Dial Gauge - 2	Average
0	0	0	0	0
63	1.26	0	0	0
660	7.89	16	21	19
1320	15.22	54	69	62
1980	22.56	112	141	127
2640	29.89	210	249	230
3300	37.22	338	381	360
3960	44.56	463	510	487
4620	51.89	606	698	652

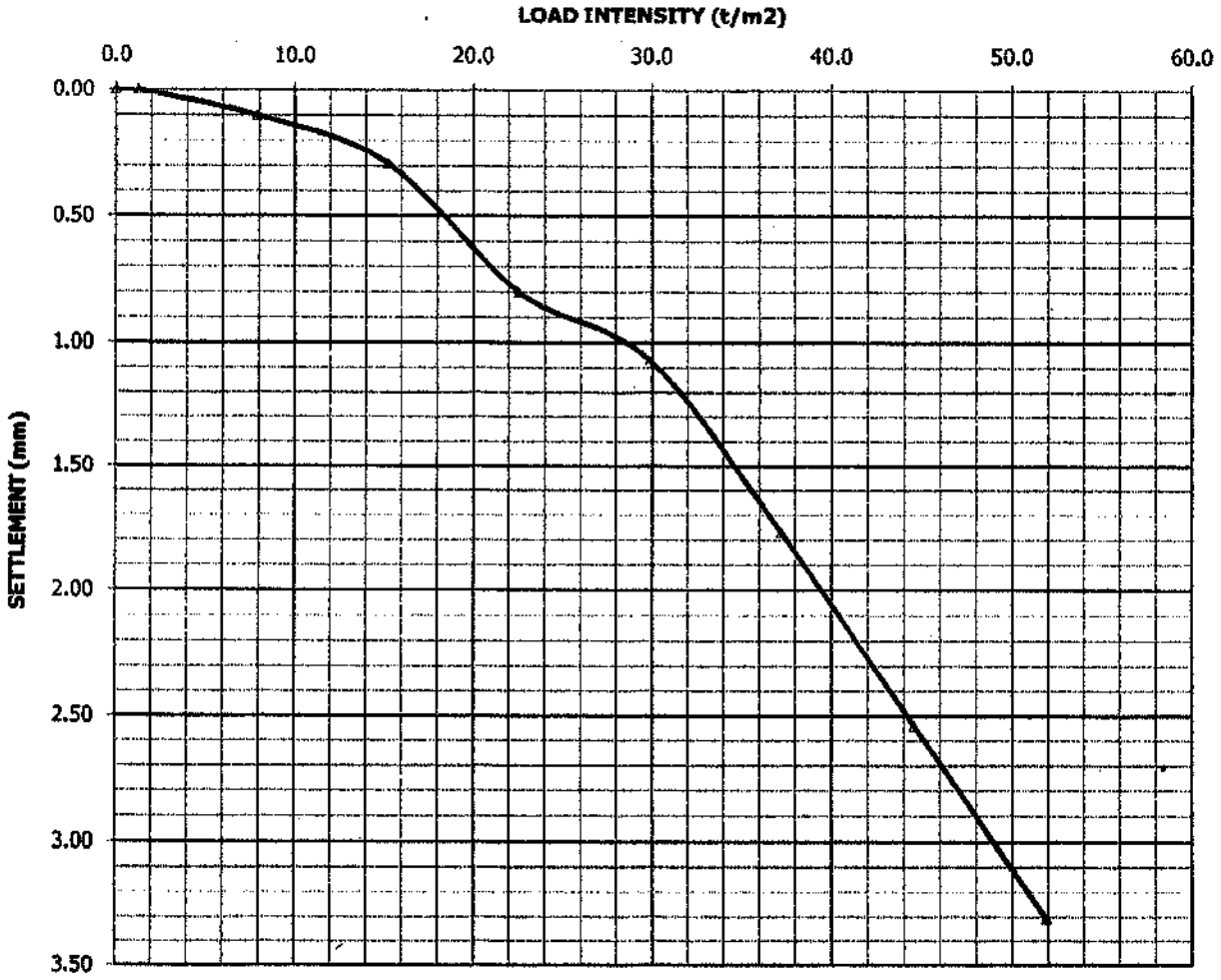
LOAD INTENSTIY v/s SETTLEMENT PLOT



PIT NO-5 TEST NO-5/2 DEPTH-2.5

Load (Kg)	Load Intensity (t/m^2)	Maximum Settlement of Plate (0.01mm)		
		Dial Gauge - 1	Dial Gauge - 2	Average
0	0	0	0	0
63	1.26	0	0	0
660	7.89	9	11	10
1320	15.22	21	36	29
1980	22.56	76	84	80
2640	29.89	102	112	107
3300	37.22	170	183	177
3960	44.56	248	259	254
4620	51.89	319	342	331

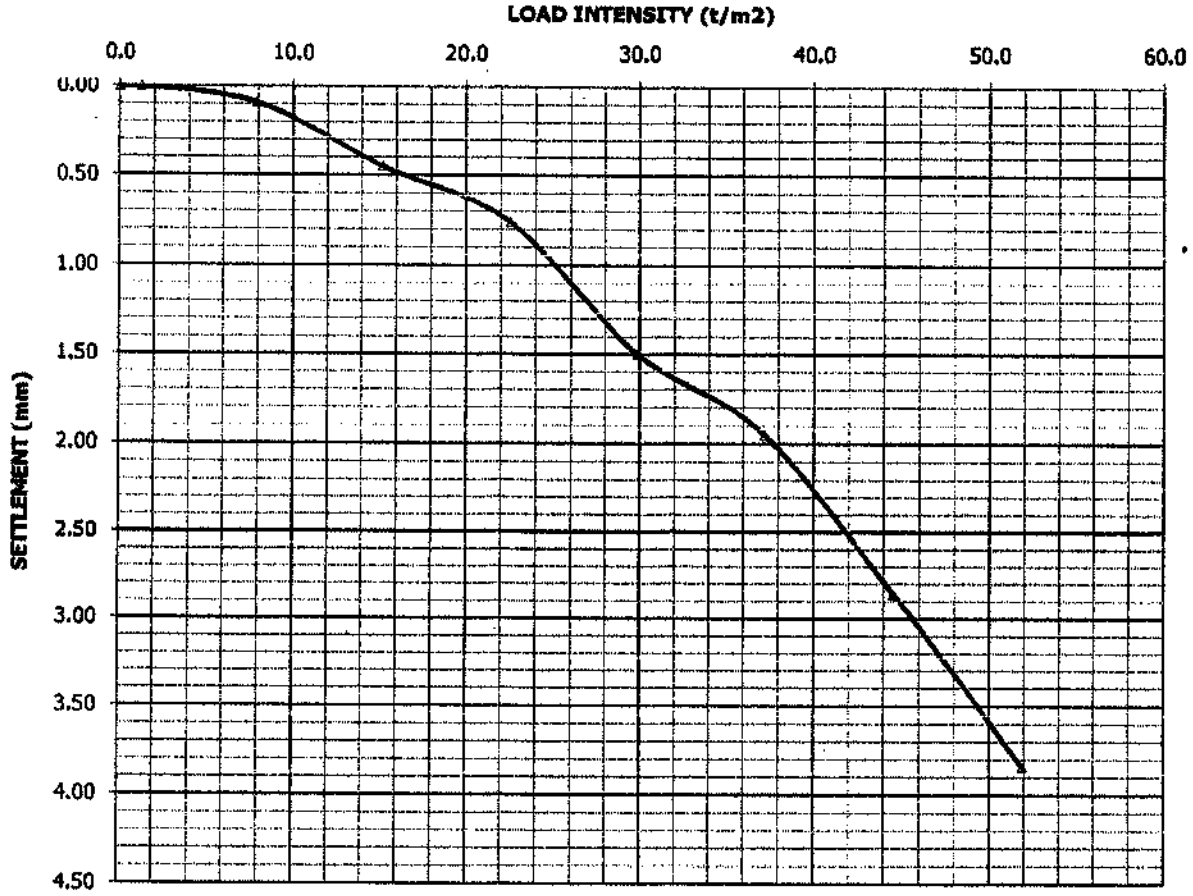
LOAD INTENSTIY v/s SETTLEMENT PLOT



PIT NO-5 TEST NO-5/3 DEPTH-3.5

Load (Kg)	Load Intensity (t/m^2)	Maximum Settlement of Plate (0.01mm)		
		Dial Gauge - 1	Dial Gauge - 2	Average
0	0	0	0	0
63	1.26	0	0	0
660	7.89	8	9	9
1320	15.22	41	48	45
1980	22.56	74	77	76
2640	29.89	141	159	150
3300	37.22	190	200	195
3960	44.56	271	301	286
4620	51.89	389	379	384

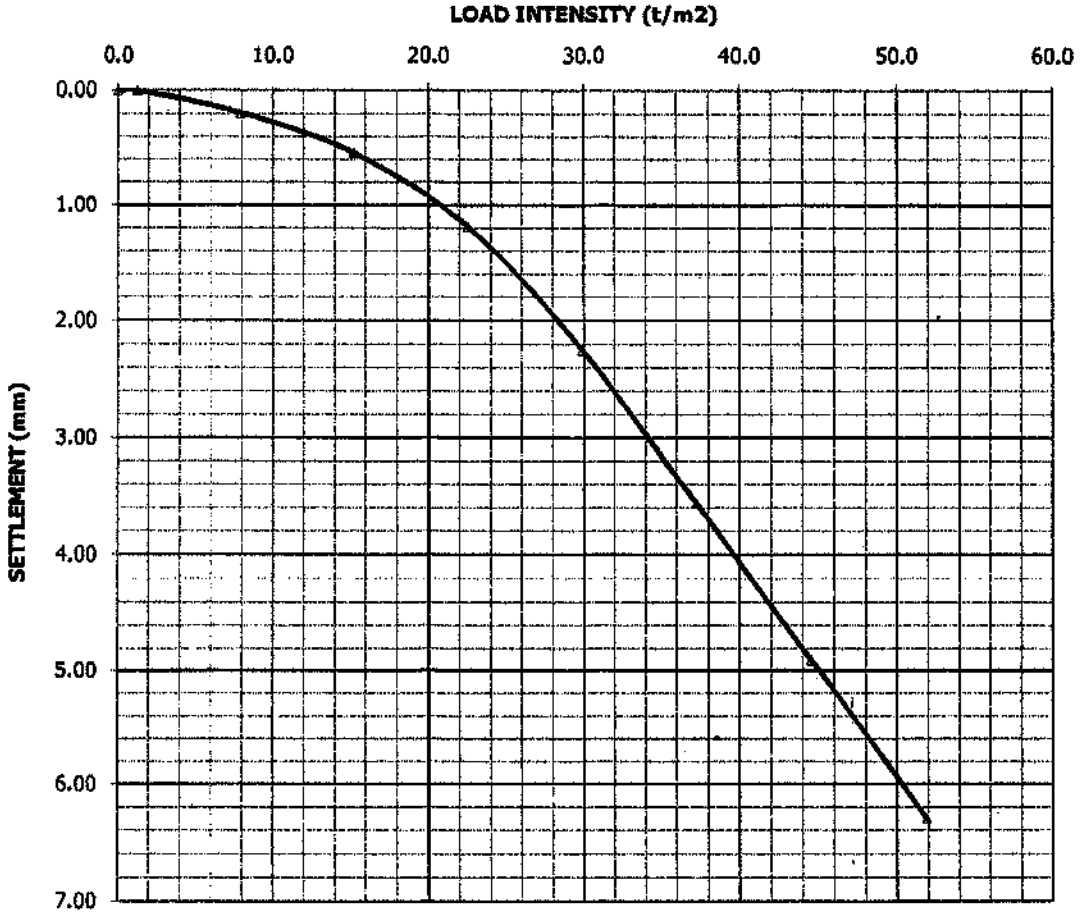
LOAD INTENSTIY v/s SETTLEMENT PLOT



PIT NO-6 TEST NO-6/1 DEPTH-1.5

Load (Kg)	Load Intensity (t/m^2)	Maximum Settlement of Plate (0.01mm)		
		Dial Gauge - 1	Dial Gauge - 2	Average
0	0	0	0	0
63	1.26	0	0	0
660	7.89	17	21	19
1320	15.22	48	59	54
1980	22.56	106	132	119
2640	29.89	210	239	225
3300	37.22	340	371	356
3960	44.56	470	512	491

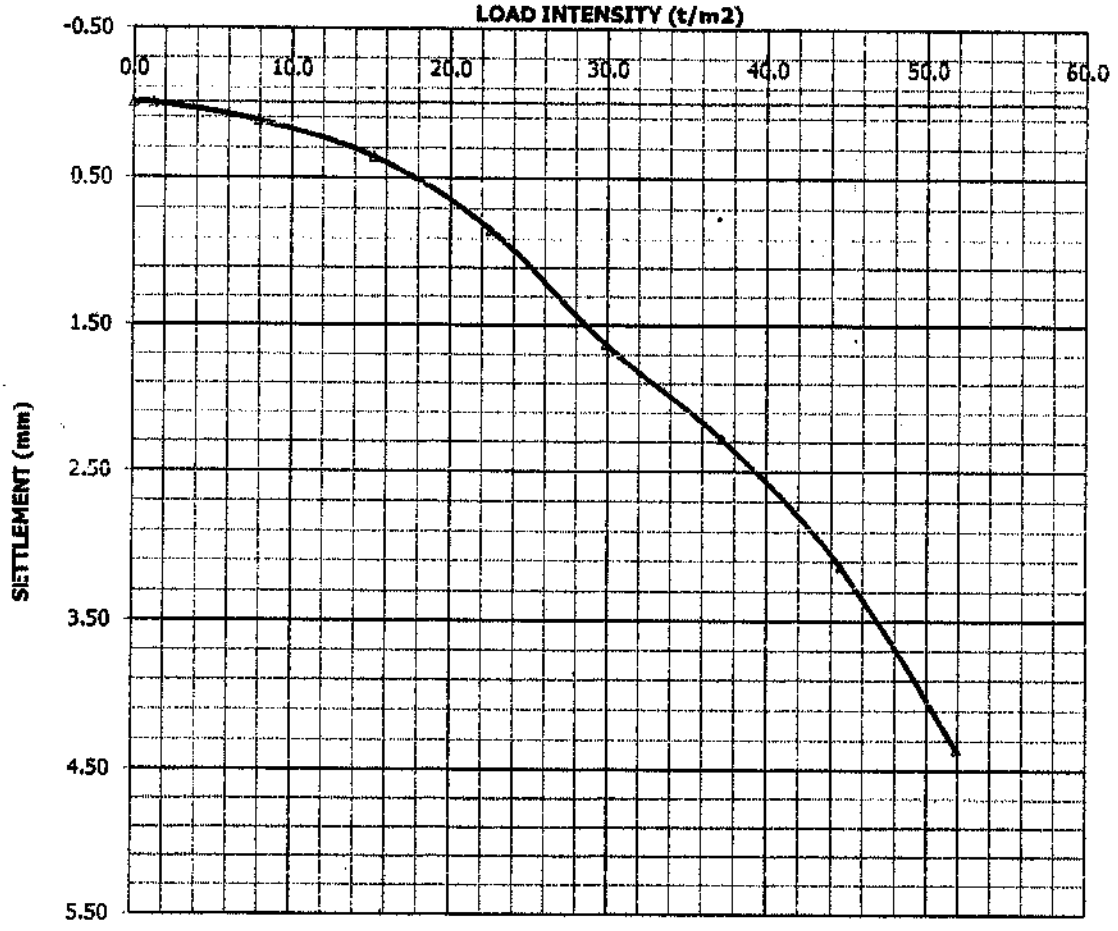
LOAD INTENSTIY v/s SETTLEMENT PLOT



PIT NO-6 TEST NO-6/2 DEPTH-2.5

Load (Kg)	Load Intensity (t/m^2)	Maximum Settlement of Plate (0.01mm)		
		Dial Gauge - 1	Dial Gauge - 2	Average
0	0	0	0	0
63	1.26	0	0	0
660	7.89	10	14	12
1320	15.22	32	40	36
1980	22.56	78	89	84
2640	29.89	143	182	163
3300	37.22	212	243	228
3960	44.56	306	319	313
4620	51.89	413	459	436

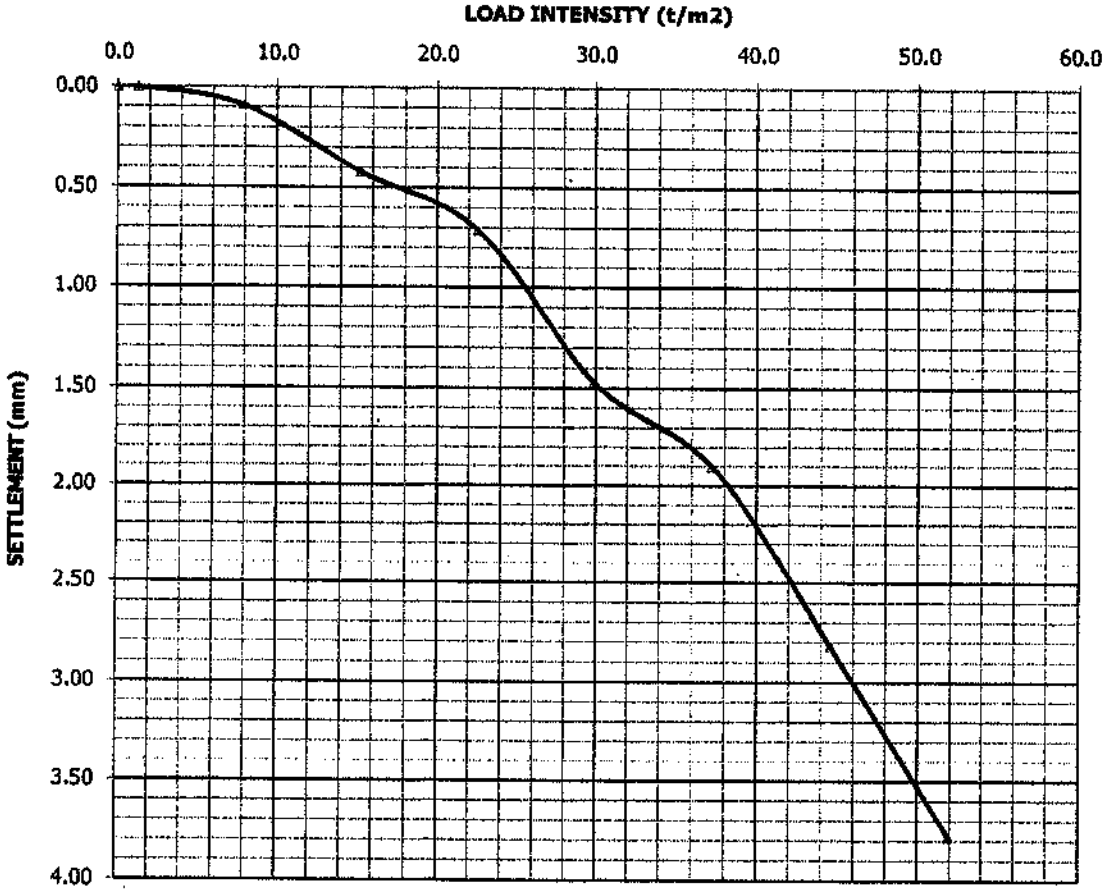
LOAD INTENSTIY v/s SETTLEMENT PLOT



PIT NO-6 TEST NO-6/3 DEPTH-3.5

Load (Kg)	Load Intensity (t/m^2)	Maximum Settlement of Plate (0.01mm)		
		Dial Gauge - 1	Dial Gauge - 2	Average
0	0	0	0	0
63	1.26	0	0	0
660	7.89	7	11	9
1320	15.22	39	45	42
1980	22.56	70	72	71
2640	29.89	139	155	147
3300	37.22	185	195	190
3960	44.56	265	298	282
4620	51.89	381	374	378

LOAD INTENSTIY v/s SETTLEMENT PLOT



ANNEXURE 2

CHEMICAL ANALYSIS OF SOIL SAMPLE

S.No.	Sample Description	Parameters		
		pH	Sulphates (as SO4),ppm	Chloride (as Cl),ppm
1	BHL-1	7.89	<1.0	<1.0
2	BHL-2	7.77	<1.0	<1.0
3	BHL-3	7.57	<1.0	<1.0
4	BHL-4	8.1	<1.0	<1.0
5	BHL-5	7.48	<1.0	<1.0
6	BHL-6	7.52	<1.0	<1.0
7	BHL-7	7.44	<1.0	<1.0
8	BHL-8	8.15	<1.0	<1.0
9	BHL-9	7.14	<1.0	<1.0
10	BHL-10	7.09	<1.0	<1.0
11	BHL-11	7.19	<1.0	<1.0
12	BHL-12	7.11	<1.0	<1.0
13	BHL-13	7.45	<1.0	<1.0
14	BHL-14	8.12	<1.0	<1.0
15	BHL-15	7.13	<1.0	<1.0
16	BHL-16	6.79	<1.0	<1.0
17	BHL-17	7.1	<1.0	<1.0
18	BHL-18	6.75	<1.0	<1.0
19	BHL-19	8.42	<1.0	<1.0
20	BHL-20	8.1	<1.0	<1.0
21	BHL-21	7.21	<1.0	<1.0
22	BHL-22	7.25	<1.0	<1.0
23	BHL-23	7.12	<1.0	<1.0
24	BHL-24	7.09	<1.0	<1.0
25	BHL-25	8.39	<1.0	<1.0
26	BHL-26	7.17	<1.0	<1.0
27	BHL-27	7.27	<1.0	<1.0
28	BHL-28	7.89	<1.0	<1.0
29	BHL-29	8.09	<1.0	<1.0
30	BHL-30	7.33	<1.0	<1.0
31	BHL-31	7.29	<1.0	<1.0
32	BHL-32	7.22	<1.0	<1.0
33	BHL-33	7.81	<1.0	<1.0

S.No.	Sample Description	Parameters		
		pH	Sulphates (as SO4),ppm	Chloride (as Cl),ppm
34	BHL-34	7.51	<1.0	<1.0
35	BHL-35	7.19	<1.0	<1.0
36	BHL-36	7.15	<1.0	<1.0
37	BHL-37	8.48	<1.0	<1.0
38	BHL-38	7.21	<1.0	<1.0
39	BHL-39	8.62	<1.0	<1.0
40	BHL-40	8.55	<1.0	<1.0
41	BHL-41	8.77	<1.0	<1.0
42	BHL-42	8.11	<1.0	<1.0
43	BHL-43	8.70	<1.0	<1.0
44	BHL-44	6.72	<1.0	<1.0
45	BHL-45	7.12	<1.0	<1.0
46	BHL-46	7.08	<1.0	<1.0

ANNEXURE 3

CHEMICAL ANALYSIS OF WATER SAMPLE

S.No.	Sample Description/Location	Parameters		
		pH	Sulphates (as SO_4)	Chloride (as Cl)
1	BHL-1	7.13	249 mg/l	85.4 mg/l
2	BHL-2	7.09	253 mg/l	83.8 mg/l
3	BHL-3	7.15	259 mg/l	80.1 mg/l
4	BHL-4	7.11	263 mg/l	78.7 mg/l
5	BHL-5	7.03	248 mg/l	79.2 mg/l
6	BHL-6	7.21	255 mg/l	75.2 mg/l
7	BHL-7	7.19	250 mg/l	74.1 mg/l
8	BHL-8	7.05	252 mg/l	81.2 mg/l
9	BHL-9	7.13	298 mg/l	72.2 mg/l
10	BHL-10	7.18	312 mg/l	73.9 mg/l
11	BHL-11	7.2	338 mg/l	78.0 mg/l
12	BHL-12	7.13	345 mg/l	62.9 mg/l
13	BHL-13	7.1	320 mg/l	68.1 mg/l
14	BHL-14	7.19	311 mg/l	64.2 mg/l
15	BHL-15	7.21	328 mg/l	65.1 mg/l
16	BHL-16	7.15	307 mg/l	64.3 mg/l
17	BHL-17	7.22	299 mg/l	63.9 mg/l
18	BHL-18	7.19	301 mg/l	69.8 mg/l
19	BHL-19	7.11	288 mg/l	73.2 mg/l
20	BHL-20	7.13	321 mg/l	74.1 mg/l
21	BHL-21	7.08	333 mg/l	69.1 mg/l
22	BHL-22	7.14	319 mg/l	71.5 mg/l
23	BHL-23	7.18	322 mg/l	65.2 mg/l
24	BHL-24	7.1	325 mg/l	68.4 mg/l
25	BHL-25	7.2	311 mg/l	69.3 mg/l
26	BHL-26	7.22	309 mg/l	64.2 mg/l
27	BHL-27	7.19	299 mg/l	68.7 mg/l
28	BHL-28	7.27	292 mg/l	74.1 mg/l
29	BHL-29	7.3	285 mg/l	79.2 mg/l
30	BHL-30	7.15	299 mg/l	71.2 mg/l
31	BHL-31	7.11	303 mg/l	68.8 mg/l
32	BHL-32	7.09	288 mg/l	74.3 mg/l
32	BHL-32	7.09	288 mg/l	74.3 mg/l
33	BHL-33	7.12	283 mg/l	70.0 mg/l
34	BHL-34	7.16	281 mg/l	71.2mg/l

S.No.	Sample Description/Location	Parameters		
		pH	Sulphates (as SO_4)	Chloride (as Cl)
35	BHL-35	7.1	279 mg/l	72.9 mg/l
36	BHL-36	7.19	282 mg/l	78.2 mg/l
37	BHL-37	7.15	250 mg/l	81.1 mg/l
38	BHL-38	7.11	255 mg/l	82.0 mg/l
39	BHL-39	7.2	252 mg/l	79.8 mg/l
40	BHL-40	7.25	251 mg/l	80.1 mg/l
41	BHL-41	7.30	246 mg/l	85.4 mg/l
42	BHL-42	7.22	254 mg/l	77.4 mg/l
43	BHL-43	7.18	288 mg/l	73.9 mg/l
44	BHL-44	7.27	270 mg/l	72.2 mg/l
45	BHL-45	7.21	310 mg/l	68.9 mg/l
46	BHL-46	7.17	305 mg/l	77.1 mg/l

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BORE LOG SHEET (as per IS 1892:1979)

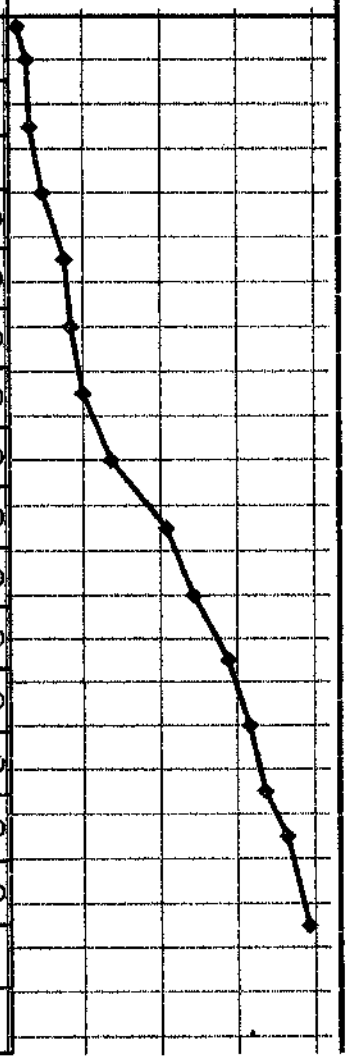
PROJECT :- GEOTECHNICAL INVESTIGATION REPORT FOR REDEVELOPMENT OF BOTANICAL GARDEN OF INDIAN REPUBLIC NOIDA.

CLIENT :- EXECUTIVE ENGINEER (P) NOIDA CENTRAL DIVISION CPWD, NEW DELHI

Location :	AS PER LOCATION MAP	**Start Date**	-
Ground Water Level :	AT 16.50 M DEPTH	**End Date**	-
Type of Boring :	MECHANICAL/AUGER DRILLING	**Starting Depth**	E.G.L.
Diameter of Boring :	150 mm	**Termination Depth**	40.0 mtr.

S.No.	Depth from EGL (m)	Soil Type: Description of Strata	IS Classification	Symbolic Representation	Thickness of Strata	Sample: Type	Sample: Sample No.	Penetration Value: at 15 cm	at 30 cm	at 45 cm	SPT N-VALUE
1	0.75	SOFT CONSISTENCY CLAY UPTO 0.75 M	CL		0.75 M	SPT	S-1/1	2	2	2	4.0
2	1.50	LOOSE SILTY SAND WITH CLAY MIXTURE 0.75 M - 2.80 M	SP		2.05 M	SPT	S-1/2	2	3	4	7.0
3	3.00					SPT	S-1/3	3	3	5	8.0
4	4.50	MEDIUM DENSE-DENSE FINE SAND 2.80 M - 14.8 M			12.0 M	SPT	S-1/4	4	5	7	12.0
5	6.00					SPT	S-1/5	9	9	10	19.0
6	7.50					SPT	S-1/6	9	10	11	21.0
7	9.00					SPT	S-1/7	12	12	13	25.0
8	10.5					SPT	S-1/8	13	15	19	34.0
9	12.0					SPT	S-1/9	15	22	30	52.0
10	13.5					SPT	S-1/10	17	27	34	61.0
11	15.0	VERY STIFF - HARD CONSISTENCY CLAY OF MEDIUM PLASTICITY 14.8 M - 21.7 M	CL		4.70 M	SPT	S-1/11	17	32	40	72.0
12	16.5					SPT	S-1/12	29.2	35	44	79.0
13	18.0					SPT	S-1/13	34	40	44	84.0
14	19.0					SPT	S-1/14	39	42	49	91.0
15	21.0					SPT	S-1/15	44	48	50	98.0
16	22.5	HARD CLAY SILT AND SAND MIXTURE 21.7 M - 24.30 M	ML		2.60 M	SPT	S-1/16	47	50	R	R
17	24.0					SPT	S-1/17	R	R	R	R

SPT 'N' PROFILE



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PROJECT :- GEOTECHNICAL INVESTIGATION REPORT FOR REDEVELOPMENT OF BOTANICAL GARDEN OF INDIAN REPUBLIC NOIDA.

CLIENT :- EXECUTIVE ENGINEER (P) NOIDA CENTRAL DIVISION CPWD, NEW DELHI

Location :	AS PER LOCATION MAP	**Start Date**	-
Ground Water Level :	AT 16.50 M DEPTH	**End Date**	-
Type of Boring :	MECHANICAL/AUGER DRILLING	**Starting Depth**	E.G.L.
Diameter of Boring :	150 mm	**Termination Depth**	40.0 mtr.

S.No.	Depth from EGL (m)	Soil Type: Description of Strata	Soil Type: IS Classification	Soil Type: Symbolic Representation	Soil Type: Thickness of Strata	Sample: Type	Sample: Sample No.	Penetration Value: at 15 cm	Penetration Value: at 30 cm	Penetration Value: at 45 cm	Penetration Value: SPT N-VALUE	SPT 'N' PROFILE: Depth v/s SPT N-value Graph (0.0 / 25.0 / 50.0 / 75.0 / 100.0)
18	25.5	VERY DENSE FINE SAND 24.30 M - 40.0 M	SP		15.7 M	SPT	S-1/18	R	R	R	R	
19	27.0					SPT	S-1/19	R	R	R	R	
20	28.5					SPT	S-1/20	R	R	R	R	
21	30.0					SPT	S-1/21	R	R	R	R	
22	31.5					SPT	S-1/22	R	R	R	R	
23	33.0					SPT	S-1/23	R	R	R	R	
24	34.5					SPT	S-1/24	R	R	R	R	
25	36.0					SPT	S-1/25	R	R	R	R	
26	37.5					SPT	S-1/26	R	R	R	R	
27	39.0					SPT	S-1/27	R	R	R	R	
28	40.0					SPT	S-1/28	R	R	R	R	

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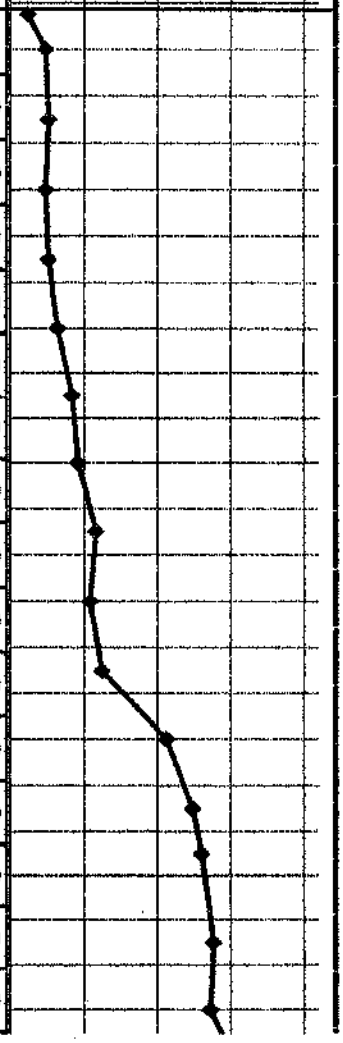
CLIENT :- EXECUTIVE ENGINEER (P) NOIDA CENTRAL DIVISION CPWD, NEW DELHI

Location :	AS PER LOCATION MAP	Start Date	-
Ground Water Level :	AT 15.0 M DEPTH	End Date	-
Type of Boring :	MECHANICAL/AUGER DRILLING	Starting Depth	E.G.L.
Diameter of Boring :	150 mm	Termination Depth	40.0 mtr.

S.No.	Depth from EGL (m)	Soil Type: Description of Strata	IS Classification	Symbolic Representation	Thickness of Strata	Sample: Type	Sample: Sample No.	Penetration Value: at 15 cm	at 30 cm	at 45 cm	SPT N-VALUE
1	0.75	SOFT CONSISTENCY CLAY UPTO 0.65 M	CL		0.65 M	SPT	S-2/1	2	3	3	6.0
2	1.50	LOOSE SILTY SAND WITH CLAY MIXTURE 0.65 M - 2.30 M			1.65 M	SPT	S-2/2	3	5	7	12.0
3	3.00					SPT	S-2/3	4	6	7	13.0
4	4.50	MEDIUM DENSE-DENSE FINE SAND 2.30 M - 14.0 M	SP		11.7 M	SPT	S-2/4	4	6	6	12.0
5	6.00					SPT	S-2/5	5	7	6	13.0
6	7.50					SPT	S-2/6	5	7	9	16.0
7	9.00					SPT	S-2/7	7	9	12	21.0
8	10.5					SPT	S-2/8	6	10	13	23.0
9	12.0					SPT	S-2/9	8	13	16	29.0
10	13.5					SPT	S-2/10	8	12	15	27.0
11	15.0	VERY STIFF-HARD CONSISTENCY CLAY 14.0 M - 23.2 M	CL		9.2 M	SPT	S-2/11	11	14	17	31.0
12	16.5					SPT	S-2/12	14	24	29	53.0
13	18.0					SPT	S-2/13	17	30	32	62.0
14	19.0					SPT	S-2/14	19	31	34	65.0
15	21.0					SPT	S-2/15	20	33	36	69.0
16	22.5					SPT	S-2/16	21	29	39	68.0

SPT 'N' PROFILE



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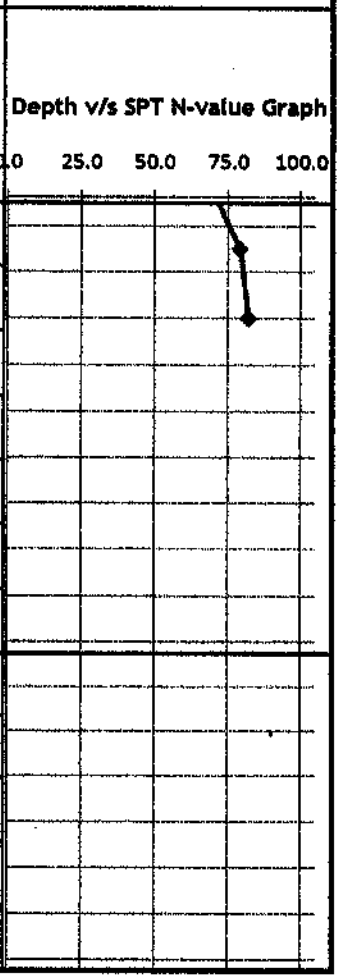
CLIENT :- EXECUTIVE ENGINEER (P) NOIDA CENTRAL DIVISION CPWD, NEW DELHI

Location :	AS PER LOCATION MAP	**Start Date**	-
Ground Water Level :	AT 15.0 M DEPTH	**End Date**	-
Type of Boring :	MECHANICAL/AUGER DRILLING	**Starting Depth**	E.G.L.
Diameter of Boring :	150 mm	**Termination Depth**	40.0 mtr.

S.No.	Depth from EGL (m)	Soil Type: Description of Strata	IS Classification	Symbolic Representation	Thickness of Strata	Sample: Type	Sample: Sample No.	Penetration Value: at 15 cm	at 30 cm	at 45 cm	SPT N-VALUE
17	24.0	HARD CLAY SILT AND SAND MIXTURE	ML		1.80 M	SPT	S-2/17	20	37	42	79.0
18	25.5	VERY DENSE FINE SAND 25.0 M - 40.0 M	SP		15.0 M	SPT	S-2/18	20	38	44	82.0
19	27.0					SPT	S-2/19	21	39	46	R
20	28.5					SPT	S-2/20	22	41	46	R
21	30.0					SPT	S-2/21	22	42	48	R
22	31.5					SPT	S-2/22	29	48	50	R
23	33.0					SPT	S-2/23	35	R	R	R
24	34.5					SPT	S-2/24	42	R	R	R
25	36.0					SPT	S-2/25	45	R	R	R
26	37.5					SPT	S-2/26	45	R	R	R
27	39.0					SPT	S-2/27	R	R	R	R
28	40.0					SPT	S-2/28	R	R	R	R

SPT 'N' PROFILE



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BORE LOG SHEET (as per IS 1892:1979)

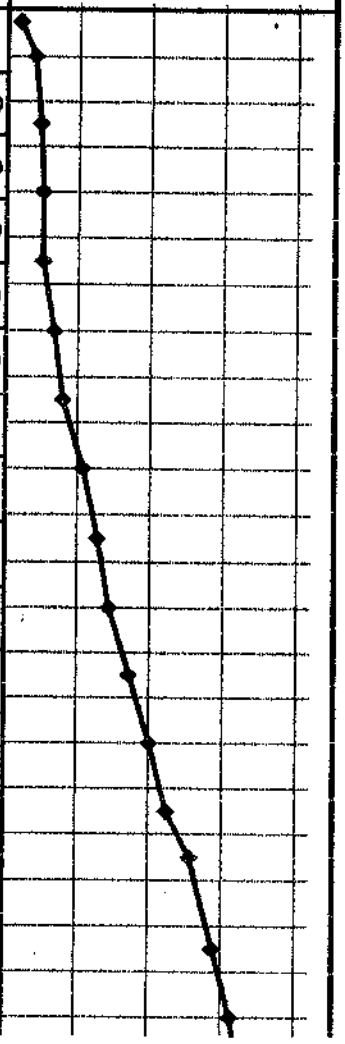
PROJECT :- GEOTECHNICAL INVESTIGATION REPORT FOR REDEVELOPMENT OF BOTANICAL GARDEN OF INDIAN REPUBLIC NOIDA.

CLIENT :- EXECUTIVE ENGINEER (P) NOIDA CENTRAL DIVISION CPWD, NEW DELHI

Location :	AS PER LOCATION MAP	**Start Date**	-
Ground Water Level :	AT 13.7 M DEPTH	**End Date**	-
Type of Boring :	MECHANICAL/AUGER DRILLING	**Starting Depth**	E.G.L.
Diameter of Boring :	150 mm	**Termination Depth**	40.0 mtr.

S.No.	Depth from EGL (m)	Soil Type: Description of Strata	IS Classification	Symbolic Representation	Thickness of Strata	Sample: Type	Sample: Sample No.	Penetration Value: at 15 cm	at 30 cm	at 45 cm	SPT N-VALUE
1	0.75	SOFT CONSISTENCY CLAY UPTO 0.72 M	CL		0.72 M	SPT	S-3/1	2	2	3	5.0
2	1.50	LOOSE SILTY SAND WITH CLAY MIXTURE 0.72 M - 2.80 M	SP		2.08 M	SPT	S-2/2	3	4	6	10.0
3	3.00					SPT	S-2/3	4	5	7	12.0
4	4.50	MEDIUM DENSE-DENSE FINE SAND 2.80 M - 14.5 M	SP		11.7 M	SPT	S-2/4	4	5	8	13.0
5	6.00					SPT	S-2/5	5	6	7	13.0
6	7.50					SPT	S-2/6	6	8	9	17.0
7	9.00					SPT	S-2/7	8	9	11	20.0
8	10.5					SPT	S-2/8	10	12	15	27.0
9	12.0					SPT	S-2/9	10	14	18	32.0
10	13.5					SPT	S-2/10	12	16	20	36.0
11	15.0	VERY STIFF-HARD CONSISTENCY CLAY SOIL WITH MEDIUM PLASTICITY 14.5 M - 24.5 M	CL		10.0 M	SPT	S-2/11	14	18	25	43.0
12	16.5					SPT	S-2/12	15	21	29	50.0
13	18.0					SPT	S-2/13	18	25	31	56.0
14	19.0					SPT	S-2/14	20	30	34	64.0
15	21.0					SPT	S-2/15	21	34	38	72.0
16	22.5					SPT	S-2/16	23	37	41	78.0

SPT 'N' PROFILE



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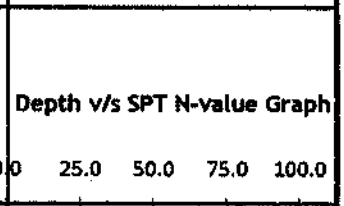
PROJECT :- GEOTECHNICAL INVESTIGATION REPORT FOR REDEVELOPMENT OF BOTANICAL GARDEN OF INDIAN REPUBLIC NOIDA.

CLIENT :- EXECUTIVE ENGINEER (P) NOIDA CENTRAL DIVISION CPWD, NEW DELHI

Location :	AS PER LOCATION MAP	**Start Date**	-
Ground Water Level :	AT 13.7 M DEPTH	**End Date**	-
Type of Boring :	MECHANICAL/AUGER DRILLING	**Starting Depth**	E.G.L.
Diameter of Boring :	150 mm	**Termination Depth**	40.0 mtr.

S.No.	Depth from EGL (m)	Soil Type: Description of Strata	IS Classification	Symbolic Representation	Thickness of Strata	Sample: Type	Sample: Sample No.	Penetration Value: at 15 cm	at 30 cm	at 45 cm	SPT N-VALUE
17	24.0	VERY DENSE FINE SAND 24.5 M - 40.0 M	SP		15.5 M	SPT	S-2/17	26	39	43	82.0
18	25.5					SPT	S-2/18	32	42	47	89.0
19	27.0					SPT	S-2/19	35	46	49	R
20	28.5					SPT	S-2/20	39	49	R	R
21	30.0					SPT	S-2/21	45	R	R	R
22	31.5					SPT	S-2/22	R	R	R	R
23	33.0					SPT	S-2/23	R	R	R	R
24	34.5					SPT	S-2/24	R	R	R	R
25	36.0					SPT	S-2/25	R	R	R	R
26	37.5					SPT	S-2/26	R	R	R	R
27	39.0					SPT	S-2/27	R	R	R	R
28	40.0					SPT	S-2/28	R	R	R	R

SPT 'N' PROFILE



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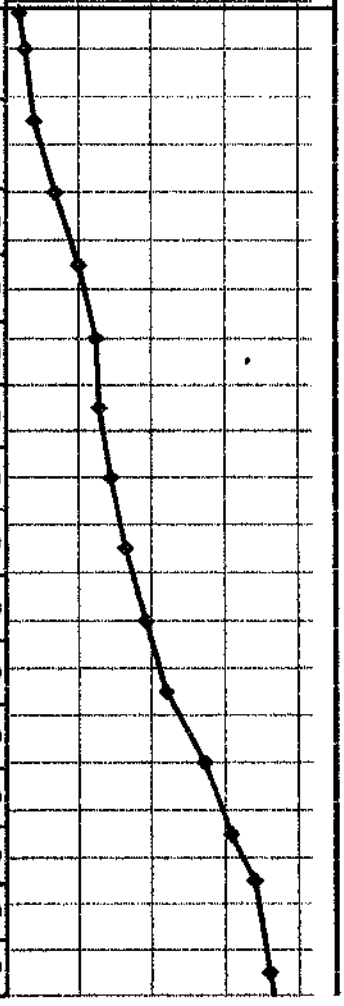
PROJECT :- GEOTECHNICAL INVESTIGATION REPORT FOR REDEVELOPMENT OF BOTANICAL GARDEN OF INDIAN REPUBLIC NOIDA.

CLIENT :- EXECUTIVE ENGINEER (P) NOIDA CENTRAL DIVISION CPWD, NEW DELHI

Location :	AS PER LOCATION MAP	**Start Date**	-
Ground Water Level :	AT 17.5 M DEPTH	**End Date**	-
Type of Boring :	MECHANICAL/AUGER DRILLING	**Starting Depth**	E.G.L.
Diameter of Boring :	150 mm	**Termination Depth**	40.0 mtr.

S. No.	Depth from EGL (m)	Soil Type: Description of Strata	IS Classification	Symbolic Representation	Thickness of Strata	Sample: Type	Sample No.	Penetration Value: at 15 cm	at 30 cm	at 45 cm	SPT N-VALUE
1	0.75	SOFT CONSISTENCY CLAY UPTO 0.77 M	CL		0.77 M	SPT	S-4/1	2	2	3	5.0
2	1.50	LOOSE SILTY SAND WITH CLAY MIXTURE 0.77 M - 2.20 M	SP		1.43 M	SPT	S-4/2	3	3	4	7.0
3	3.00	MEDIUM DENSE-DENSE FINE SAND 2.20 M - 13.60 M	SP		11.4 M	SPT	S-4/3	4	4	6	10.0
4	4.50					SPT	S-4/4	4	7	10	17.0
5	6.00					SPT	S-4/5	5	12	13	25.0
6	7.50					SPT	S-4/6	6	13	18	31.0
7	9.00					SPT	S-4/7	7	12	20	32.0
8	10.5					SPT	S-4/8	7	14	22	36.0
9	12.0					SPT	S-4/9	10	17	24	41.0
10	13.5	HARD CLAY SILT AND SAND MIXTURE 13.60 M -16.0 M	ML		2.50 M	SPT	S-4/10	11	18	30	48.0
11	15.0					SPT	S-4/11	15	21	34	55.0
12	16.5	HARD CLAY OF MEDIUM PLASTICITY 16.0 M - 23.0 M	CL		7.0 M	SPT	S-4/12	19	29	39	68.0
13	18.0					SPT	S-4/13	24	33	44	77.0
14	19.0					SPT	S-4/14	30	39	46	85.0
15	21.0					SPT	S-4/15	35	45	45	90.0

SPT 'N' PROFILE



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PROJECT :- GEOTECHNICAL INVESTIGATION REPORT FOR REDEVELOPMENT OF BOTANICAL GARDEN OF INDIAN REPUBLIC NOIDA.

CLIENT :- EXECUTIVE ENGINEER (P) NOIDA CENTRAL DIVISION CPWD, NEW DELHI

Location :	AS PER LOCATION MAP	**Start Date**	-
Ground Water Level :	AT 17.5 M DEPTH	**End Date**	-
Type of Boring :	MECHANICAL/AUGER DRILLING	**Starting Depth**	E.G.L.
Diameter of Boring :	150 mm	**Termination Depth**	40.0 mtr.

S.No.	Depth from EGL (m)	Soil Type: Description of Strata	IS Classification	Symbolic Representation	Thickness of Strata	Sample: Type	Sample No.	Penetration Value: at 15 cm	at 30 cm	at 45 cm	SPT N-VALUE	SPT 'N' PROFILE: Depth v/s SPT N-value Graph (0 / 25.0 / 50.0 / 75.0 / 100.0)
16	22.5	VERY DENSE FINE SAND 23.0 M - 25.2 M	SM		2.2 M	SPT	S-4/16	40	47	47	94.0	
17	24.0					SPT	S-4/17	43	47	50	97.0	
18	25.5	VERY DENSE FINE SAND 25.2 M - 40.0 M			14.8 M	SPT	S-4/18	47	R	R	R	
19	27.0					SPT	S-4/19	R	R	R	R	
20	28.5					SPT	S-4/20	R	R	R	R	
21	30.0					SPT	S-4/21	R	R	R	R	
22	31.5					SPT	S-4/22	R	R	R	R	
23	33.0					SPT	S-4/23	R	R	R	R	
24	34.5					SPT	S-4/24	R	R	R	R	
25	36.0					SPT	S-4/25	R	R	R	R	
26	37.5					SPT	S-4/26	R	R	R	R	
27	39.0					SPT	S-4/27	R	R	R	R	
28	40.0					SPT	S-4/28	R	R	R	R	

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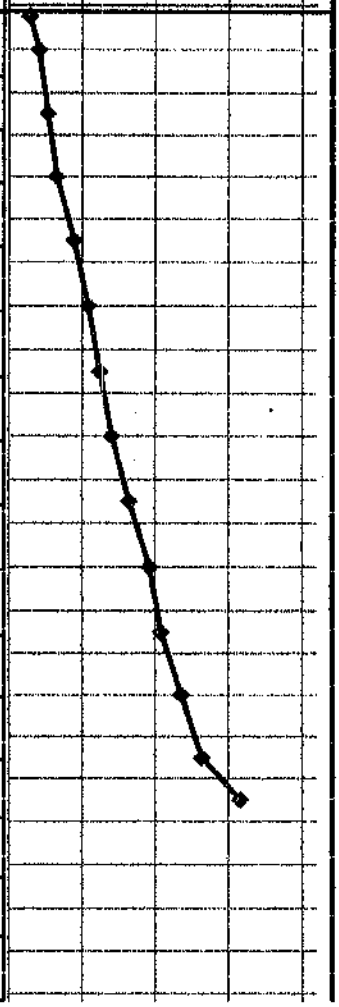
PROJECT :- GEOTECHNICAL INVESTIGATION REPORT FOR REDEVELOPMENT OF BOTANICAL GARDEN OF INDIAN REPUBLIC NOIDA.

CLIENT :- EXECUTIVE ENGINEER (P) NOIDA CENTRAL DIVISION CPWD, NEW DELHI

Location :	AS PER LOCATION MAP	**Start Date**	-
Ground Water Level :	AT 18.0 M DEPTH	**End Date**	-
Type of Boring :	MECHANICAL/AUGER DRILLING	**Starting Depth**	E.G.L.
Diameter of Boring :	150 mm	**Termination Depth**	40.0 mtr.

S.No.	Depth from EGL (m)	Soil Type: Description of Strata	IS Classification	Symbolic Representation	Thickness of Strata	Sample: Type	Sample: Sample No.	Penetration Value: at 15 cm	at 30 cm	at 45 cm	SPT N-VALUE
1	0.75	SOFT CONSISTENCY CLAY UPTO 0.75 M	CL		0.75 M	SPT	S-5/1	3	3	4	7.0
2	1.50	LOOSE SILTY SAND WITH CLAY MIXTURE 0.75 M - 2.00 M	SP		1.25 M	SPT	S-5/2	3	4	6	10.0
3	3.00					SPT	S-5/3	5	6	7	13.0
4	4.50	MEDIUM DENSE-DENSE FINE SAND 2.00 M - 13.8 M			11.8 M	SPT	S-5/4	4	7	9	16.0
5	6.00					SPT	S-5/5	5	10	12	22.0
6	7.50					SPT	S-5/6	7	12	15	27.0
7	9.00					SPT	S-5/7	7	13	18	31.0
8	10.5					SPT	S-5/8	7	15	20	35.0
9	12.0					SPT	S-5/9	9	12	29	41.0
10	13.5					SPT	S-5/10	11	18	30	48.0
11	15.0	HARD CLAY SILT AND SAND MIXTURE 13.8 M - 17.30 M	ML		3.50 M	SPT	S-5/11	14	20	32	52.0
12	16.5					SPT	S-5/12	17	24	35	59.0
13	18.0	HARD CLAY WITH MEDIUM PLASTICITY 17.30 M - 22.8 M	CL		5.50 M	SPT	S-5/13	22	27	39	66.0
14	19.0					SPT	S-5/14	29	35	44	79.0
15	21.0					SPT	S-5/15	32	39	52	R
16	22.5					SPT	S-5/16	39	42	R	R

SPT 'N' PROFILE



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PROJECT :- GEOTECHNICAL INVESTIGATION REPORT FOR REDEVELOPMENT OF BOTANICAL GARDEN OF INDIAN REPUBLIC NOIDA.

CLIENT :- EXECUTIVE ENGINEER (P) NOIDA CENTRAL DIVISION CPWD, NEW DELHI

Location :	AS PER LOCATION MAP	**Start Date**	-
Ground Water Level :	AT 18.0 M DEPTH	**End Date**	-
Type of Boring :	MECHANICAL/AUGER DRILLING	**Starting Depth**	E.G.L.
Diameter of Boring :	150 mm	**Termination Depth**	40.0 mtr.

S.No.	Depth from EGL (m)	Soil Type: Description of Strata	IS Classification	Symbolic Representation	Thickness of Strata	Sample: Type	Sample: Sample No.	Penetration Value: at 15 cm	at 30 cm	at 45 cm	SPT N-VALUE
17	24.0	VERY DENSE FINE SAND 22.8 M -31.2 M	SP		8.4 M	SPT	S-5/17	42	R	R	R
18	25.5					SPT	S-5/18	49	R	R	R
19	27.0					SPT	S-5/19	R	R	R	R
20	28.5					SPT	S-5/20	R	R	R	R
21	30.0					SPT	S-5/21	R	R	R	R
22	31.5	HARD CLAY WITH MEDIUM PLASTICITY 31.2 M - 34.1 M	CL		2.90 M	SPT	S-5/22	R	R	R	R
23	33.0					SPT	S-5/23	R	R	R	R
24	34.5	VERY DENSE FINE SAND 34.1 M - 40.0 M	SP		5.90 M	SPT	S-5/24	R	R	R	R
25	36.0					SPT	S-5/25	R	R	R	R
26	37.5					SPT	S-5/26	R	R	R	R
27	39.0					SPT	S-5/27	R	R	R	R
28	40.0					SPT	S-5/28	R	R	R	R

SPT 'N' PROFILE

Depth v/s SPT N-value Graph

0.0 25.0 50.0 75.0 100.0

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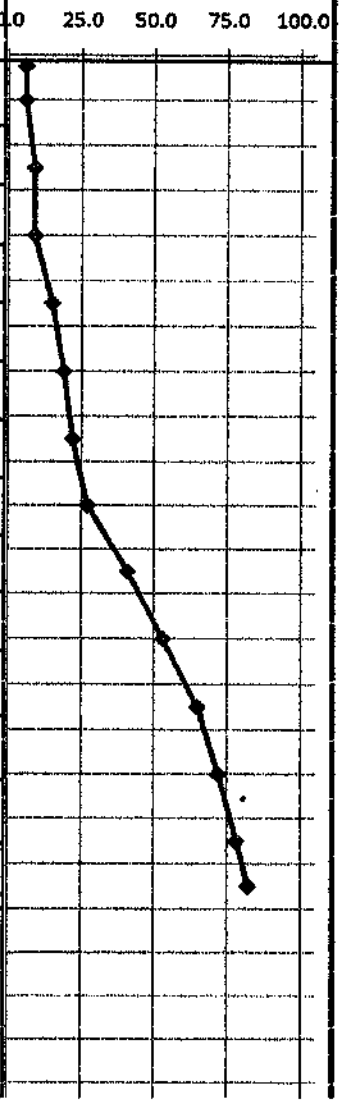
CLIENT :- EXECUTIVE ENGINEER (P) NOIDA CENTRAL DIVISION CPWD, NEW DELHI

Location :	AS PER LOCATION MAP	**Start Date**	-
Ground Water Level :	AT 15.0 M DEPTH	**End Date**	-
Type of Boring :	MECHANICAL/AUGER DRILLING	**Starting Depth**	E.G.L.
Diameter of Boring :	150 mm	**Termination Depth**	40.0 mtr.

S.No.	Depth from EGL (m)	Soil Type: Description of Strata	IS Classification	Symbolic Representation	Thickness of Strata	Sample: Type	Sample: Sample No.	Penetration Value: at 15 cm	at 30 cm	at 45 cm	SPT N-VALUE
1	0.75	SOFT CONSISTENCY CLAY UPTO 0.80 M	CL		0.80 M	SPT	S-6/1	2	3	3	6.0
2	1.50	LOOSE SILTY SAND WITH CLAY MIXTURE 0.80 M - 4.70 M	SP		3.90 M	SPT	S-6/2	2	2	4	6.0
3	3.00					SPT	S-6/3	3	3	6	9.0
4	4.50	MEDIUM DENSE-DENSE FINE SAND 4.70 M - 14.0 M			9.30 M	SPT	S-6/4	4	4	5	9.0
5	6.00					SPT	S-6/5	6	7	8	15.0
6	7.50					SPT	S-6/6	7	9	10	19.0
7	9.00					SPT	S-6/7	8	10	12	22.0
8	10.5					SPT	S-6/8	11	12	15	27.0
9	12.0					SPT	S-6/9	13	17	24	41.0
10	13.5					SPT	S-6/10	15	23	30	53.0
11	15.0	HARD CLAY SILT AND SAND MIXTURE 14.0 M - 17.6 M	ML		3.6 M	SPT	S-6/11	17	29	36	65.0
12	16.5					SPT	S-6/12	24	32	40	72.0
13	18.0	HARD CLAY WITH MEDIUM PLASTICITY 17.6 M - 23.4 M	CL		5.8 M	SPT	S-6/13	26	35	43	78.0
14	19.0					SPT	S-6/14	31	37	45	82.0
15	21.0					SPT	S-6/15	35	40	47	87.0
16	22.5					SPT	S-6/16	39	43	49	92.0
17	24.0				1.80 M	SPT	S-6/17	43	47	50	97.0

SPT 'N' PROFILE



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CLIENT :- EXECUTIVE ENGINEER (P) NOIDA CENTRAL DIVISION CPWD, NEW DELHI

Location :	AS PER LOCATION MAP	**Start Date**	-
Ground Water Level :	AT 15.0 M DEPTH	**End Date**	-
Type of Boring :	MECHANICAL/AUGER DRILLING	**Starting Depth**	E.G.L.
Diameter of Boring :	150 mm	**Termination Depth**	40.0 mtr.

S.No.	Depth from EGL (m)	Soil Type: Description of Strata	IS Classification	Symbolic Representation	Thickness of Strata	Sample: Type	Sample: Sample No.	Penetration Value: at 15 cm	at 30 cm	at 45 cm	SPT N-VALUE	SPT 'N' PROFILE: Depth v/s SPT N-value Graph (0.0 25.0 50.0 75.0 100.0)
18	25.5	VERY DENSE FINE SAND 23.4 M - 40.0 M	SP		16.6 M	SPT	S-6/18	46	49	R	R	
19	27.0					SPT	S-6/19	48	R	R	R	
20	28.5					SPT	S-6/20	R	R	R	R	
21	30.0					SPT	S-6/21	R	R	R	R	
22	31.5					SPT	S-6/22	R	R	R	R	
23	33.0					SPT	S-6/23	R	R	R	R	
24	34.5					SPT	S-6/24	R	R	R	R	
25	36.0					SPT	S-6/25	R	R	R	R	
26	37.5					SPT	S-6/26	R	R	R	R	
27	39.0					SPT	S-6/27	R	R	R	R	
28	40.0					SPT	S-6/28	R	R	R	R	

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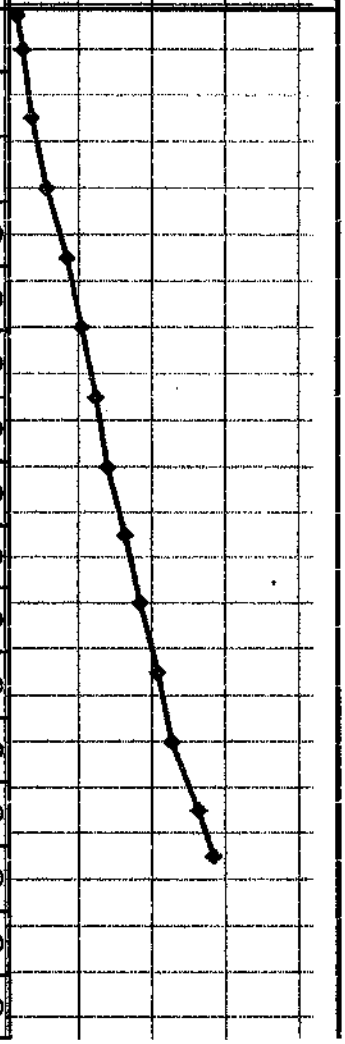
CLIENT :- EXECUTIVE ENGINEER (P) NOIDA CENTRAL DIVISION CPWD, NEW DELHI

Location :	AS PER LOCATION MAP	**Start Date**	-
Ground Water Level :	AT 14.5 M DEPTH	**End Date**	-
Type of Boring :	MECHANICAL/AUGER DRILLING	**Starting Depth**	E.G.L.
Diameter of Boring :	150 mm	**Termination Depth**	40.0 mtr.

S.No.	Depth from EGL (m)	Soil Type: Description of Strata	IS Classification	Symbolic Representation	Thickness of Strata	Sample: Type	Sample: Sample No.	Penetration Value: at 15 cm	at 30 cm	at 45 cm	SPT N-VALUE
1	0.75	SOFT CONSISTENCY CLAY UPTO 0.72 M	CL		0.72 M	SPT	S-7/1	2	2	2	4.0
2	1.50	LOOSE SILTY SAND WITH CLAY MIXTURE 0.72 M - 3.50 M			2.78 M	SPT	S-7/2	2	3	3	6.0
3	3.00					SPT	S-7/3	3	4	5	9.0
4	4.50	MEDIUM DENSE-DENSE FINE SAND 3.50 M - 15.5 M	SP		12.0 M	SPT	S-7/4	4	6	8	14.0
5	6.00					SPT	S-7/5	5	10	11	21.0
6	7.50					SPT	S-7/6	8	12	14	26.0
7	9.00					SPT	S-7/7	10	14	17	31.0
8	10.5					SPT	S-7/8	12	16	19	35.0
9	12.0					SPT	S-7/9	13	19	22	41.0
10	13.5					SPT	S-7/10	14	20	26	46.0
11	15.0	VERY STIFF-HARD CONSISTENCY CLAY WITH MEDIUM PLASTICITY 15.5 M - 23.5 M	CL		8.0 M	SPT	S-7/11	15	22	30	52.0
12	16.5					SPT	S-7/12	15	24	33	57.0
13	18.0					SPT	S-7/13	17	28	38	66.0
14	19.0					SPT	S-7/14	18	31	40	71.0
15	21.0					SPT	S-7/15	18	33	42	75.0
16	22.5					SPT	S-7/16	20	37	45	82.0

SPT 'N' PROFILE



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PROJECT :- GEOTECHNICAL INVESTIGATION REPORT FOR REDEVELOPMENT OF BOTANICAL GARDEN OF INDIAN REPUBLIC NOIDA.

CLIENT :- EXECUTIVE ENGINEER (P) NOIDA CENTRAL DIVISION CPWD, NEW DELHI

Location :	AS PER LOCATION MAP	Start Date	-
Ground Water Level :	AT 14.5 M DEPTH	End Date	-
Type of Boring :	MECHANICAL/AUGER DRILLING	Starting Depth	E.G.L.
Diameter of Boring :	150 mm	Termination Depth	40.0 mtr.

S.No.	Depth from EGL (m)	Soil Type: Description of Strata	IS Classification	Symbolic Representation	Thickness of Strata	Sample: Type	Sample: Sample No.	Penetration Value: at 15 cm	at 30 cm	at 45 cm	SPT N-VALUE	SPT 'N' PROFILE: Depth v/s SPT N-value Graph (0.0 25.0 50.0 75.0 100.0)
17	24.0	VERY DENSE FINE SAND 23.5 M - 30.8 M	SP		7.3 M	SPT	S-7/17	22	40	47	87.0	
18	25.5					SPT	S-7/18	25	43	49	92.0	
19	27.0					SPT	S-7/19	28	45	50	R	
20	28.5					SPT	S-7/20	31	R	R	R	
21	30.0	HARD CLAY WITH MEDIUM PLASTICITY 30.8 M -33.8 M	CL		3.0 M	SPT	S-7/21	R	R	R	R	
22	31.5					SPT	S-7/22	R	R	R	R	
23	33.0					SPT	S-7/23	R	R	R	R	
24	34.5	VERY DENSE FINE SAND 33.8 M - 40.0 M	SP		6.2 M	SPT	S-7/24	R	R	R	R	
25	36.0					SPT	S-7/25	R	R	R	R	
26	37.5					SPT	S-7/26	R	R	R	R	
27	39.0					SPT	S-7/27	R	R	R	R	
28	40.0					SPT	S-7/28	R	R	R	R	

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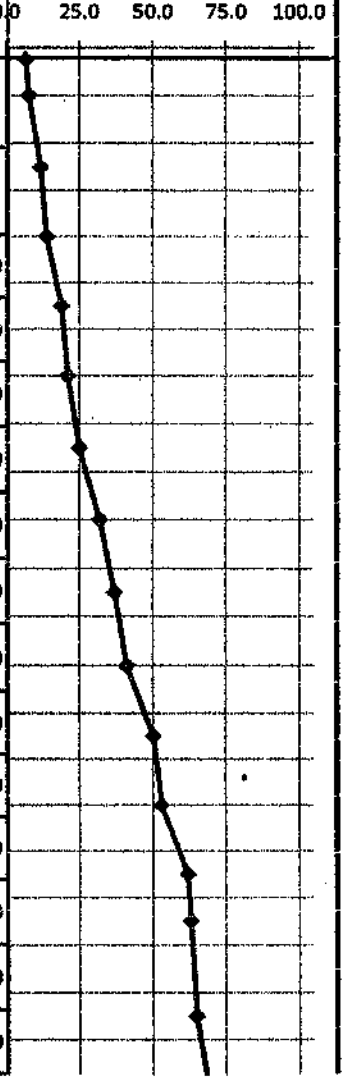
PROJECT :- GEOTECHNICAL INVESTIGATION REPORT FOR REDEVELOPMENT OF BOTANICAL GARDEN OF INDIAN REPUBLIC NOIDA.

CLIENT :- EXECUTIVE ENGINEER (P) NOIDA CENTRAL DIVISION CPWD, NEW DELHI

Location :	AS PER LOCATION MAP	**Start Date**	-
Ground Water Level :	AT 15.0 M DEPTH	**End Date**	-
Type of Boring :	MECHANICAL/AUGER DRILLING	**Starting Depth**	E.G.L.
Diameter of Boring :	150 mm	**Termination Depth**	40.0 mtr.

S.No.	Depth from EGL (m)	Soil Type: Description of Strata	IS Classification	Symbolic Representation	Thickness of Strata	Sample: Type	Sample: Sample No.	Penetration Value: at 15 cm	at 30 cm	at 45 cm	SPT N-VALUE
1	0.75	SOFT CONSISTENCY CLAY UPTO 0.70 M	CL		0.70 M	SPT	S-8/1	2	3	4	7.0
2	1.50	LOOSE SILTY SAND WITH CLAY MIXTURE 0.70 M - 1.80 M	SP		1.10 M	SPT	S-8/2	3	3	5	8.0
3	3.00	MEDIUM DENSE-DENSE FINE SAND 1.80 M - 15.2 M			13.4 M	SPT	S-8/3	3	5	7	12.0
4	4.50					SPT	S-8/4	4	6	8	14.0
5	6.00					SPT	S-8/5	6	8	11	19.0
6	7.50					SPT	S-8/6	8	9	12	21.0
7	9.00					SPT	S-8/7	8	12	13	25.0
8	10.5					SPT	S-8/8	7	14	18	32.0
9	12.0					SPT	S-8/9	10	17	20	37.0
10	13.5					SPT	S-8/10	11	18	23	41.0
11	15.0	VERY STIFF-HARD CONSISTENCY CLAY WITH MEDIUM PLASTICITY	CL		2.50 M	SPT	S-8/11	13	20	30	50.0
12	16.5					SPT	S-8/12	10	21	32	53.0
13	18.0	VERY DENSE FINE SAND 17.70 M - 21.3 M	SP		3.60 M	SPT	S-8/13	15	22	40	62.0
14	19.0					SPT	S-8/14	15	24	39	63.0
15	21.0					SPT	S-8/15	15	27	38	65.0

SPT 'N' PROFILE



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PROJECT :- GEOTECHNICAL INVESTIGATION REPORT FOR REDEVELOPMENT OF BOTANICAL GARDEN OF INDIAN REPUBLIC NOIDA.

CLIENT :- EXECUTIVE ENGINEER (P) NOIDA CENTRAL DIVISION CPWD, NEW DELHI

Location :	AS PER LOCATION MAP	**Start Date**	-
Ground Water Level :	AT 15.0 M DEPTH	**End Date**	-
Type of Boring :	MECHANICAL/AUGER DRILLING	**Starting Depth**	E.G.L.
Diameter of Boring :	150 mm	**Termination Depth**	40.0 mtr.

S.No.	Depth from EGL (m)	Soil Type: Description of Strata	IS Classification	Symbolic Representation	Thickness of Strata	Sample: Type	Sample No.	Penetration Value: at 15 cm	at 30 cm	at 45 cm	SPT N-VALUE	SPT 'N' PROFILE: Depth v/s SPT N-value Graph (0.0 / 25.0 / 50.0 / 75.0 / 100.0)
16	22.5	VERY DENSE FINE SAND AND SILTY CLAY MIXTURE 21.3 M - 30.6 M	SM		9.3 M	SPT	S-8/16	17	29	40	69.0	
17	24.0					SPT	S-8/17	16	28	39	67.0	
18	25.5					SPT	S-8/18	14	29	40	R	
19	27.0					SPT	S-8/19	15	31	41	R	
20	28.5					SPT	S-8/20	17	34	42	R	
21	30.0	VERY DENSE FINE SAND 30.6 M - 40.0 M	SP		9.4 M	SPT	S-8/21	19	38	46	R	
22	31.5					SPT	S-8/22	24	44	R	R	
23	33.0					SPT	S-8/23	27	R	R	R	
24	34.5					SPT	S-8/24	R	R	R	R	
25	36.0					SPT	S-8/25	R	R	R	R	
26	37.5					SPT	S-8/26	R	R	R	R	
27	39.0					SPT	S-8/27	R	R	R	R	
28	40.0					SPT	S-8/28	R	R	R	R	

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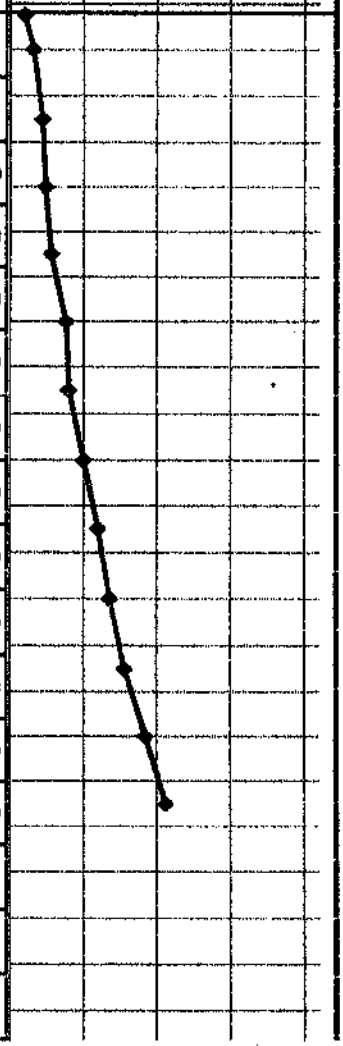
PROJECT :- GEOTECHNICAL INVESTIGATION REPORT FOR REDEVELOPMENT OF BOTANICAL GARDEN OF INDIAN REPUBLIC NOIDA.

CLIENT :- EXECUTIVE ENGINEER (P) NOIDA CENTRAL DIVISION CPWD, NEW DELHI

Location :	AS PER LOCATION MAP	**Start Date**	-
Ground Water Level :	AT 14.70 M DEPTH	**End Date**	-
Type of Boring :	MECHANICAL/AUGER DRILLING	**Starting Depth**	E.G.L.
Diameter of Boring :	150 mm	**Termination Depth**	40.0 mtr.

S.No.	Depth from EGL (m)	Soil Type: Description of Strata	IS Classification	Symbolic Representation	Thickness of Strata	Sample: Type	Sample: Sample No.	Penetration Value: at 15 cm	at 30 cm	at 45 cm	SPT N-VALUE
1	0.75	SOFT CONSISTENCY CLAY UPTO 0.71 M	CL		0.71 M	SPT	S-9/1	2	2	3	5.0
2	1.50	LOOSE SILTY SAND WITH CLAY MIXTURE 0.71 M - 2.0 M			1.30 M	SPT	S-9/2	2	3	5	8.0
3	3.00					SPT	S-9/3	3	4	7	11.0
4	4.50	MEDIUM DENSE-DENSE FINE SAND 2.0 M - 15.4 M	SP		13.4 M	SPT	S-9/4	4	4	8	12.0
5	6.00					SPT	S-9/5	5	5	9	14.0
6	7.50					SPT	S-9/6	6	8	11	19.0
7	9.00					SPT	S-9/7	8	8	12	20.0
8	10.5					SPT	S-9/8	10	11	14	25.0
9	12.0					SPT	S-9/9	11	13	17	30.0
10	13.5					SPT	S-9/10	12	15	19	34.0
11	15.0	VERY STIFF-HARD CONSISTENCY CLAY 15.4 M - 22.8 M	CL		7.8 M	SPT	S-9/11	14	17	22	39.0
12	16.5					SPT	S-9/12	17	21	25	46.0
13	18.0					SPT	S-9/13	18	24	29	53.0
14	19.0					SPT	S-9/14	20	27	32	R
15	21.0					SPT	S-9/15	22	30	36	R
16	22.5					SPT	S-9/16	24	33	39	R

SPT 'N' PROFILE



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CLIENT :- EXECUTIVE ENGINEER (P) NOIDA CENTRAL DIVISION CPWD, NEW DELHI

Location :	AS PER LOCATION MAP	**Start Date**	-
Ground Water Level :	AT 14.70 M DEPTH	**End Date**	-
Type of Boring :	MECHANICAL/AUGER DRILLING	**Starting Depth**	E.G.L.
Diameter of Boring :	150 mm	**Termination Depth**	40.0 mtr.

S.No.	Depth from EGL (m)	Soil Type: Description of Strata	IS Classification	Symbolic Representation	Thickness of Strata	Sample: Type	Sample: Sample No.	Penetration Value: at 15 cm	at 30 cm	at 45 cm	SPT 'N'-VALUE	SPT 'N' PROFILE: Depth v/s SPT N-value Graph (0.0 25.0 50.0 75.0 100.0)
17	24.0	VERY DENSE FINE SAND 22.8 M - 37.60 M	SP		14.8 M	SPT	S-9/17	26	37	43	R	
18	25.5					SPT	S-9/18	29	41	46	R	
19	27.0					SPT	S-9/19	31	R	R	R	
20	28.5					SPT	S-9/20	35	R	R	R	
21	30.0					SPT	S-9/21	R	R	R	R	
22	31.5					SPT	S-9/22	R	R	R	R	
23	33.0					SPT	S-9/23	R	R	R	R	
24	34.5					SPT	S-9/24	R	R	R	R	
25	36.0					SPT	S-9/25	R	R	R	R	
26	37.5	HARD CLAY OF MEDIUM CONSISTENCY 37.60 M - 40.0 M	CL		2.4 M	SPT	S-9/26	R	R	R	R	
27	39.0					SPT	S-9/27	R	R	R	R	
28	40.0					SPT	S-9/28	R	R	R	R	

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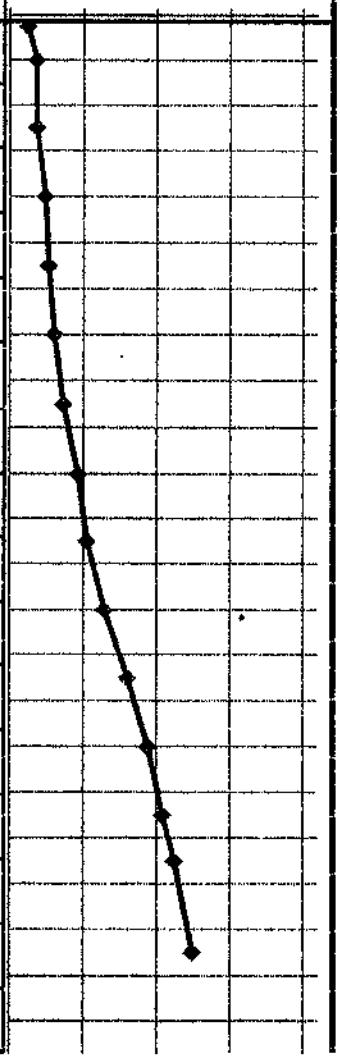
PROJECT :- GEOTECHNICAL INVESTIGATION REPORT FOR REDEVELOPMENT OF BOTANICAL GARDEN OF INDIAN REPUBLIC NOIDA.

CLIENT :- EXECUTIVE ENGINEER (P) NOIDA CENTRAL DIVISION CPWD, NEW DELHI

Location :	AS PER LOCATION MAP	Start Date	-
Ground Water Level :	AT 13.7 M DEPTH	End Date	-
Type of Boring :	MECHANICAL/AUGER DRILLING	Starting Depth	E.G.L.
Diameter of Boring :	150 mm	Termination Depth	40.0 mtr.

S.No.	Depth from EGL (m)	Soil Type: Description of Strata	IS Classification	Symbolic Representation	Thickness of Strata	Sample: Type	Sample: Sample No.	Penetration Value: at 15 cm	at 30 cm	at 45 cm	SPT N-VALUE
1	0.75	SOFT CONSISTENCY CLAY UPTO 0.82 M	CL		0.82 M	SPT	S-10/1	3	3	3	6.0
2	1.50	LOOSE SILTY SAND WITH CLAY MIXTURE 0.82 M - 2.80 M			1.98 M	SPT	S-10/2	3	4	5	9.0
3	3.00					SPT	S-10/3	4	4	5	9.0
4	4.50	MEDIUM DENSE-DENSE FINE SAND 2.80 M - 15.5 M	SP		12.7 M	SPT	S-10/4	4	5	7	12.0
5	6.00					SPT	S-10/5	5	6	7	13.0
6	7.50					SPT	S-10/6	6	7	8	15.0
7	9.00					SPT	S-10/7	8	9	9	18.0
8	10.5					SPT	S-10/8	10	11	12	23.0
9	12.0					SPT	S-10/9	11	12	14	26.0
10	13.5					SPT	S-10/10	12	15	17	32.0
11	15.0	VERY STIFF-HARD CONSISTENCY CLAY 15.5 M - 23.0 M	CL		7.5 M	SPT	S-10/11	14	17	23	40.0
12	16.5					SPT	S-10/12	15	20	27	47.0
13	18.0					SPT	S-10/13	17	22	30	52.0
14	19.0					SPT	S-10/14	19	24	32	56.0
15	21.0					SPT	S-10/15	22	27	35	62.0
16	22.5					SPT	S-10/16	24	32	40	R

SPT 'N' PROFILE



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PROJECT :- GEOTECHNICAL INVESTIGATION REPORT FOR REDEVELOPMENT OF BOTANICAL GARDEN OF INDIAN REPUBLIC NOIDA.

CLIENT :- EXECUTIVE ENGINEER (P) NOIDA CENTRAL DIVISION CPWD, NEW DELHI

Location :	AS PER LOCATION MAP	**Start Date**	-
Ground Water Level :	AT 13.7 M DEPTH	**End Date**	-
Type of Boring :	MECHANICAL/AUGER DRILLING	**Starting Depth**	E.G.L.
Diameter of Boring :	150 mm	**Termination Depth**	40.0 mtr.

S.No.	Depth from EGL (m)	Soil Type: Description of Strata	IS Classification	Symbolic Representation	Thickness of Strata	Sample: Type	Sample No.	Penetration Value: at 15 cm	at 30 cm	at 45 cm	SPT N-VALUE
17	24.0	VERY DENSE FINE SAND 23.0 M - 37.8 M	SP		14.8 M	SPT	S-10/17	27	39	43	R
18	25.5					SPT	S-10/18	30	42	45	R
19	27.0					SPT	S-10/19	34	45	49	R
20	28.5					SPT	S-10/20	39	R	R	R
21	30.0					SPT	S-10/21	R	R	R	R
22	31.5					SPT	S-10/22	R	R	R	R
23	33.0					SPT	S-10/23	R	R	R	R
24	34.5					SPT	S-10/24	R	R	R	R
25	36.0					SPT	S-10/25	R	R	R	R
26	37.5	HARD CLAY WITH MEDIUM CONSISTENCY 37.8 M - 40.0 M	CL		2.2 M	SPT	S-10/26	R	R	R	R
27	39.0					SPT	S-10/27	R	R	R	R
28	40.0					SPT	S-10/28	R	R	R	R

SPT 'N' PROFILE

Depth v/s SPT N-value Graph

0.0 25.0 50.0 75.0 100.0

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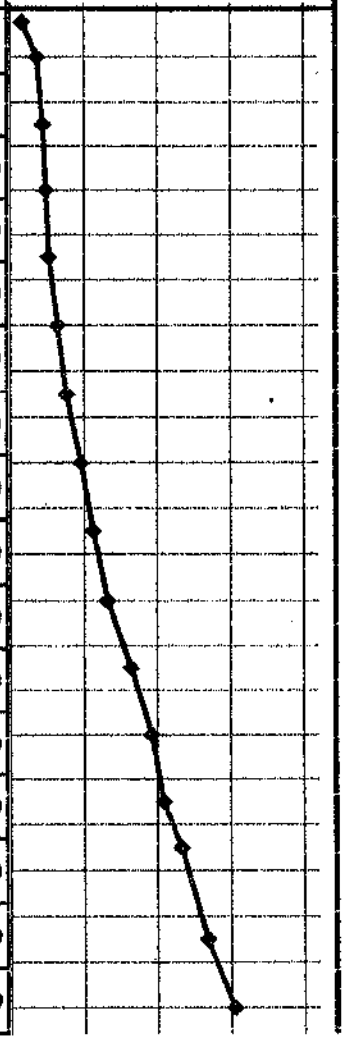
PROJECT :- GEOTECHNICAL INVESTIGATION REPORT FOR REDEVELOPMENT OF BOTANICAL GARDEN OF INDIAN REPUBLIC NOIDA.

CLIENT :- EXECUTIVE ENGINEER (P) NOIDA CENTRAL DIVISION CPWD, NEW DELHI

Location :	AS PER LOCATION MAP	**Start Date**	-
Ground Water Level :	AT 13.5 M DEPTH	**End Date**	-
Type of Boring :	MECHANICAL/AUGER DRILLING	**Starting Depth**	E.G.L.
Diameter of Boring :	150 mm	**Termination Depth**	40.0 mtr.

S.No.	Depth from EGL (m)	Soil Type: Description of Strata	Soil Type: IS Classification	Soil Type: Symbolic Representation	Soil Type: Thickness of Strata	Sample: Type	Sample: Sample No.	Penetration Value: at 15 cm	Penetration Value: at 30 cm	Penetration Value: at 45 cm	Penetration Value: SPT N-VALUE
1	0.75	SOFT CONSISTENCY CLAY UPTO 0.78 M	CL		0.78 M	SPT	S-11/1	2	2	2	4.0
2	1.50	LOOSE SILTY SAND WITH CLAY MIXTURE 0.78 M - 2.50 M			1.72 M	SPT	S-11/2	3	4	5	9.0
3	3.00					SPT	S-11/3	4	5	6	11.0
4	4.50	MEDIUM DENSE-DENSE FINE SAND 2.80 M -31.6 M	SP		28.8 M	SPT	S-11/4	4	5	7	12.0
5	6.00					SPT	S-11/5	5	6	7	13.0
6	7.50					SPT	S-11/6	6	8	8	16.0
7	9.00					SPT	S-11/7	8	9	10	19.0
8	10.5					SPT	S-11/8	10	11	13	24.0
9	12.0					SPT	S-11/9	11	13	15	28.0
10	13.5					SPT	S-11/10	12	15	18	33.0
11	15.0					SPT	S-11/11	14	17	24	41.0
12	16.5					SPT	S-11/12	15	20	28	48.0
13	18.0					SPT	S-11/13	17	22	30	52.0
14	19.0					SPT	S-11/14	19	25	33	58.0
15	21.0					SPT	S-11/15	21	29	38	67.0
16	22.5					SPT	S-11/16	22	36	40	76.0

SPT 'N' PROFILE



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PROJECT :- GEOTECHNICAL INVESTIGATION REPORT FOR REDEVELOPMENT OF BOTANICAL GARDEN OF INDIAN REPUBLIC NOIDA.

CLIENT :- EXECUTIVE ENGINEER (P) NOIDA CENTRAL DIVISION CPWD, NEW DELHI

Location :	AS PER LOCATION MAP	Start Date	-
Ground Water Level :	AT 13.5 M DEPTH	End Date	-
Type of Boring :	MECHANICAL/AUGER DRILLING	Starting Depth	E.G.L.
Diameter of Boring :	150 mm	Termination Depth	40.0 mtr.

S.No.	Depth from EGL (m)	Soil Type: Description of Strata	IS Classification	Symbolic Representation	Thickness of Strata	Sample: Type	Sample: Sample No.	Penetration Value: at 15 cm	at 30 cm	at 45 cm	SPT N-VALUE	SPT 'N' PROFILE: Depth v/s SPT N-value Graph (0.0 25.0 50.0 75.0 100.0)
17	24.0					SPT	S-11/17	26	40	42	R	
18	25.5					SPT	S-11/18	30	42	45	R	
19	27.0					SPT	S-11/19	35	46	49	R	
20	28.5					SPT	S-11/20	40	R	R	R	
21	30.0					SPT	S-11/21	R	R	R	R	
22	31.5					SPT	S-11/22	R	R	R	R	
23	33.0					SPT	S-11/23	R	R	R	R	
24	34.5	HARD CLAY WITH MEDIUM CONSISTENCY 31.6 - 40.0 M	CL		8.4 M	SPT	S-11/24	R	R	R	R	
25	36.0					SPT	S-11/25	R	R	R	R	
26	37.5					SPT	S-11/26	R	R	R	R	
27	39.0					SPT	S-11/27	R	R	R	R	
28	40.0					SPT	S-11/28	R	R	R	R	

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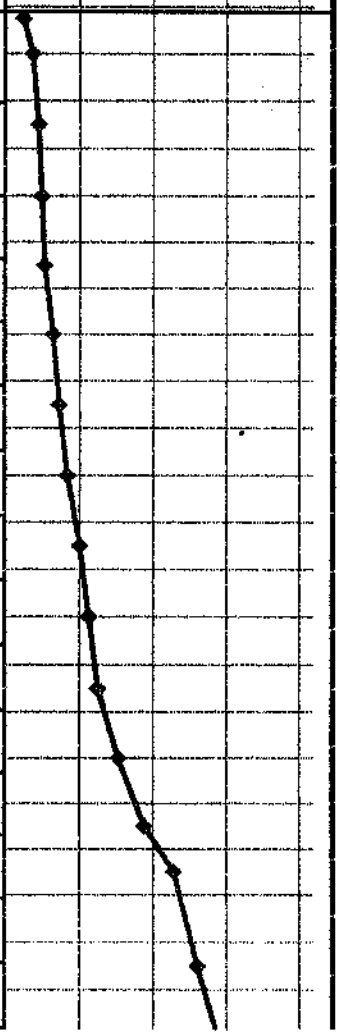
PROJECT :- GEOTECHNICAL INVESTIGATION REPORT FOR REDEVELOPMENT OF BOTANICAL GARDEN OF INDIAN REPUBLIC NOIDA.

CLIENT :- EXECUTIVE ENGINEER (P) NOIDA CENTRAL DIVISION CPWD, NEW DELHI

Location :	AS PER LOCATION MAP	**Start Date**	-
Ground Water Level :	AT 11.7 M DEPTH	**End Date**	-
Type of Boring :	MECHANICAL/AUGER DRILLING	**Starting Depth**	E.G.L.
Diameter of Boring :	150 mm	**Termination Depth**	40.0 mtr.

S.No.	Depth from EGL (m)	Soil Type: Description of Strata	IS Classification	Symbolic Representation	Thickness of Strata	Sample: Type	Sample: Sample No.	Penetration Value: at 15 cm	at 30 cm	at 45 cm	SPT N-VALUE
1	0.75	SOFT CONSISTENCY CLAY UPTO 0.75 M	CL		0.70 M	SPT	S-12/1	2	3	3	6.0
2	1.50	LOOSE SILTY SAND WITH CLAY MIXTURE 0.75 M - 2.40 M			1.65 M	SPT	S-12/2	3	4	5	9.0
3	3.00					SPT	S-12/3	3	5	6	11.0
4	4.50					SPT	S-12/4	4	6	6	12.0
5	6.00					SPT	S-12/5	5	6	7	13.0
6	7.50					SPT	S-12/6	5	7	9	16.0
7	9.00					SPT	S-12/7	7	9	9	18.0
8	10.5					SPT	S-12/8	7	10	11	21.0
9	12.0					SPT	S-12/9	9	12	13	25.0
10	13.5					SPT	S-12/10	9	13	15	28.0
11	15.0					SPT	S-12/11	11	14	17	31.0
12	16.5	MEDIUM DENSE-DENSE FINE SAND 2.40 M - 32.4 M	SP		30.0 M	SPT	S-12/12	12	18	20	38.0
13	18.0					SPT	S-12/13	15	22	25	47.0
14	19.0					SPT	S-12/14	18	27	30	57.0
15	21.0					SPT	S-12/15	22	31	34	65.0



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T :- GEOTECHNICAL INVESTIGATION REPORT FOR REDEVELOPMENT OF BOTANICAL GARDEN OF INDIAN IC NOIDA.

:- EXECUTIVE ENGINEER (P) NOIDA CENTRAL DIVISION CPWD, NEW DELHI

n :	AS PER LOCATION MAP	Start Date	-
Water Level :	AT 11.7 M DEPTH	End Date	-
Boring :	MECHANICAL/AUGER DRILLING	Starting Depth	E.G.L.
r of Boring :	150 mm	Termination Depth	40.0 mtr.

	Soil Type				Sample		Penetration Value				SPT 'N' PROFILE
	Description of Strata	IS Classification	Symbolic Representation	Thickness of Strata	Type	Sample No.	at 15 cm	at 30 cm	at 45 cm	SPT N-VALUE	Depth v/s SPT N-value Graph 0.0 25.0 50.0 75.0 100.0
.5					SPT	S-12/16	25	33	39	72.0	
.0					SPT	S-12/17	27	36	40	R	
.5					SPT	S-12/18	28	40	42	R	
.0					SPT	S-12/19	29	41	44	R	
.5					SPT	S-12/20	31	45	48	R	
.0					SPT	S-12/21	35	R	R	R	
.5					SPT	S-12/22	R	R	R	R	
.0					SPT	S-12/23	R	R	R	R	
.5					SPT	S-12/24	R	R	R	R	
.0	HARD CLAY WITH MEDIUM PLASTICITY 32.4 M - 40.0 M	CL		7.6 M	SPT	S-12/25	R	R	R	R	
.5					SPT	S-12/26	R	R	R	R	
.0					SPT	S-12/27	R	R	R	R	
.0					SPT	S-12/28	R	R	R	R	

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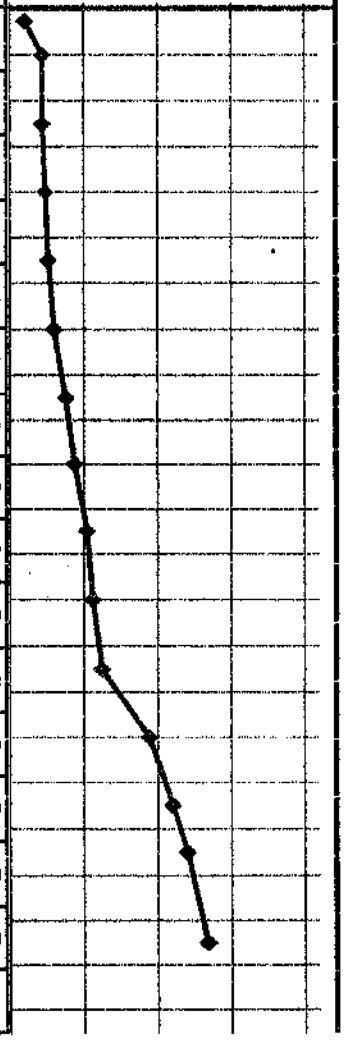
CLIENT :- EXECUTIVE ENGINEER (P) NOIDA CENTRAL DIVISION CPWD, NEW DELHI

Location :	AS PER LOCATION MAP	Start Date	-
Ground Water Level :	AT 11.4 M DEPTH	End Date	-
Type of Boring :	MECHANICAL/AUGER DRILLING	Starting Depth	E.G.L.
Diameter of Boring :	150 mm	Termination Depth	40.0 mtr.

S.No.	Depth from EGL (m)	Soil Type: Description of Strata	IS Classification	Symbolic Representation	Thickness of Strata	Sample: Type	Sample No.	Penetration Value: at 15 cm	at 30 cm	at 45 cm	SPT N-VALUE
1	0.75	SOFT CONSISTENCY CLAY UPTO 0.80 M	CL		0.80 M	SPT	S-13/1	2	2	3	5.0
2	1.50					SPT	S-13/2	3	5	6	11.0
3	3.00					SPT	S-13/3	4	5	6	11.0
4	4.50					SPT	S-13/4	4	6	6	12.0
5	6.00					SPT	S-13/5	5	6	7	13.0
6	7.50					SPT	S-13/6	5	7	8	15.0
7	9.00					SPT	S-13/7	7	8	11	19.0
8	10.5					SPT	S-13/8	7	10	12	22.0
9	12.0					SPT	S-13/9	9	12	14	26.0
10	13.5					SPT	S-13/10	9	13	15	28.0
11	15.0	MEDIUM DENSE-DENSE FINE SAND 0.80 M - 31.9 M	SP		31.1 M.	SPT	S-13/11	10	13	18	31.0
12	16.5					SPT	S-13/12	12	22	25	47.0
13	18.0					SPT	S-13/13	16	25	30	55.0
14	19.0					SPT	S-13/14	19	30	30	60.0
15	21.0					SPT	S-13/15	20	32	35	67.0
16	22.5					SPT	S-13/16	22	33	39	R

SPT 'N' PROFILE



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PROJECT :- GEOTECHNICAL INVESTIGATION REPORT FOR REDEVELOPMENT OF BOTANICAL GARDEN OF INDIAN REPUBLIC NOIDA.

CLIENT :- EXECUTIVE ENGINEER (P) NOIDA CENTRAL DIVISION CPWD, NEW DELHI

Location :	AS PER LOCATION MAP	Start Date	-
Ground Water Level :	AT 11.4 M DEPTH	End Date	-
Type of Boring :	MECHANICAL/AUGER DRILLING	Starting Depth	E.G.L.
Diameter of Boring :	150 mm	Termination Depth	40.0 mtr.

S.No.	Depth from EGL (m)	Soil Type: Description of Strata	IS Classification	Symbolic Representation	Thickness of Strata	Sample: Type	Sample: Sample No.	Penetration Value: at 15 cm	at 30 cm	at 45 cm	SPT N-VALUE	SPT 'N' PROFILE: Depth v/s SPT N-value Graph (0.0 25.0 50.0 75.0 100.0)
17	24.0					SPT	S-13/17	24	37	41	R	
18	25.5					SPT	S-13/18	27	40	42	R	
19	27.0					SPT	S-13/19	27	42	45	R	
20	28.5					SPT	S-13/20	30	45	50	R	
21	30.0					SPT	S-13/21	38	49	R	R	
22	31.5	HARD CLAY WITH MEDIUM PLASTICITY 31.9 M - 40.0 M	CL		8.1 M	SPT	S-13/22	R	R	R	R	
23	33.0					SPT	S-13/23	R	R	R	R	
24	34.5					SPT	S-13/24	R	R	R	R	
25	36.0					SPT	S-13/25	R	R	R	R	
26	37.5					SPT	S-13/26	R	R	R	R	
27	39.0					SPT	S-13/27	R	R	R	R	
28	40.0					SPT	S-13/28	R	R	R	R	

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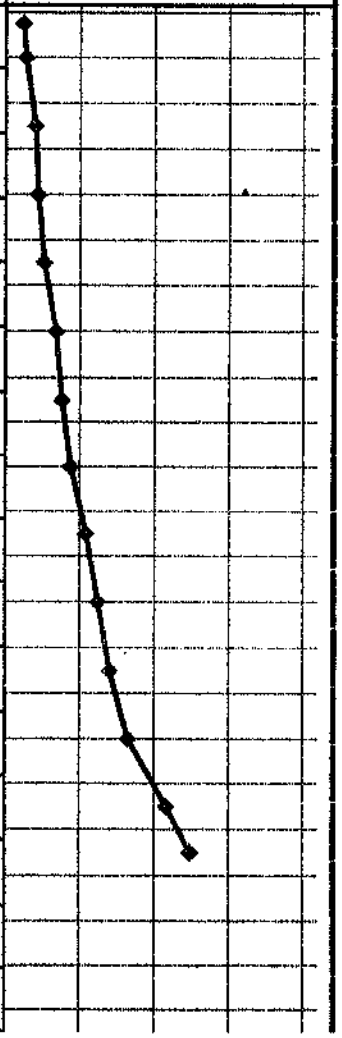
PROJECT :- GEOTECHNICAL INVESTIGATION REPORT FOR REDEVELOPMENT OF BOTANICAL GARDEN OF INDIAN REPUBLIC NOIDA.

CLIENT :- EXECUTIVE ENGINEER (P) NOIDA CENTRAL DIVISION CPWD, NEW DELHI

Location :	AS PER LOCATION MAP	**Start Date**	-
Ground Water Level :	AT 12.5 M DEPTH	**End Date**	-
Type of Boring :	MECHANICAL/AUGER DRILLING	**Starting Depth**	E.G.L.
Diameter of Boring :	150 mm	**Termination Depth**	40.0 mtr.

S.No.	Depth from EGL (m)	Soil Type: Description of Strata	IS Classification	Symbolic Representation	Thickness of Strata	Sample: Type	Sample: Sample No.	Penetration Value: at 15 cm	at 30 cm	at 45 cm	SPT N-VALUE
1	0.75	SOFT CONSISTENCY CLAY UPTO 0.81 M	CL		0.81 M	SPT	S-14/1	2	3	3	6.0
2	1.50	LOOSE SILTY SAND WITH CLAY MIXTURE 0.81 M - 3.20 M			2.39 M	SPT	S-14/2	2	3	4	7.0
3	3.00					SPT	S-14/3	3	5	5	10.0
4	4.50	MEDIUM DENSE-DENSE FINE SAND 3.20 M - 21.6 M	SP		18.4 M	SPT	S-14/4	4	5	6	11.0
5	6.00					SPT	S-14/5	5	6	7	13.0
6	7.50					SPT	S-14/6	6	8	9	17.0
7	9.00					SPT	S-14/7	7	8	11	19.0
8	10.5					SPT	S-14/8	8	10	12	22.0
9	12.0					SPT	S-14/9	9	12	15	27.0
10	13.5					SPT	S-14/10	11	14	17	31.0
11	15.0					SPT	S-14/11	12	16	19	35.0
12	16.5					SPT	S-14/12	14	19	22	41.0
13	18.0					SPT	S-14/13	17	24	30	54.0
14	19.0					SPT	S-14/14	19	29	33	62.0
15	21.0					SPT	S-14/15	25	34	39	R
16	22.5					SPT	S-14/16	27	37	41	R

SPT 'N' PROFILE



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PROJECT :- GEOTECHNICAL INVESTIGATION REPORT FOR REDEVELOPMENT OF BOTANICAL GARDEN OF INDIAN REPUBLIC NOIDA.

CLIENT :- EXECUTIVE ENGINEER (P) NOIDA CENTRAL DIVISION CPWD, NEW DELHI

Location :	AS PER LOCATION MAP	**Start Date**	-
Ground Water Level :	AT 12.5 M DEPTH	**End Date**	-
Type of Boring :	MECHANICAL/AUGER DRILLING	**Starting Depth**	E.G.L.
Diameter of Boring :	150 mm	**Termination Depth**	40.0 mtr.

S.No.	Depth from EGL (m)	Soil Type: Description of Strata	IS Classification	Symbolic Representation	Thickness of Strata	Sample: Type	Sample: Sample No.	Penetration Value: at 15 cm	at 30 cm	at 45 cm	SPT N-VALUE
17	24.0	HARD CLAY WITH MEDIUM PLASTICITY 21.6 M - 33.4 M	CL		11.8 M	SPT	S-14/17	29	39	44	R
18	25.5					SPT	S-14/18	33	41	47	R
19	27.0					SPT	S-14/19	37	45	49	R
20	28.5					SPT	S-14/20	41	R	R	R
21	30.0					SPT	S-14/21	R	R	R	R
22	31.5					SPT	S-14/22	R	R	R	R
23	33.0	VERY DENSE FINE SAND 33.4 M - 40.0 M	SP		6.6 M	SPT	S-14/23	R	R	R	R
24	34.5					SPT	S-14/24	R	R	R	R
25	36.0					SPT	S-14/25	R	R	R	R
26	37.5					SPT	S-14/26	R	R	R	R
27	39.0					SPT	S-14/27	R	R	R	R
28	40.0					SPT	S-14/28	R	R	R	R

SPT 'N' PROFILE

Depth v/s SPT N-value Graph

0.0 25.0 50.0 75.0 100.0

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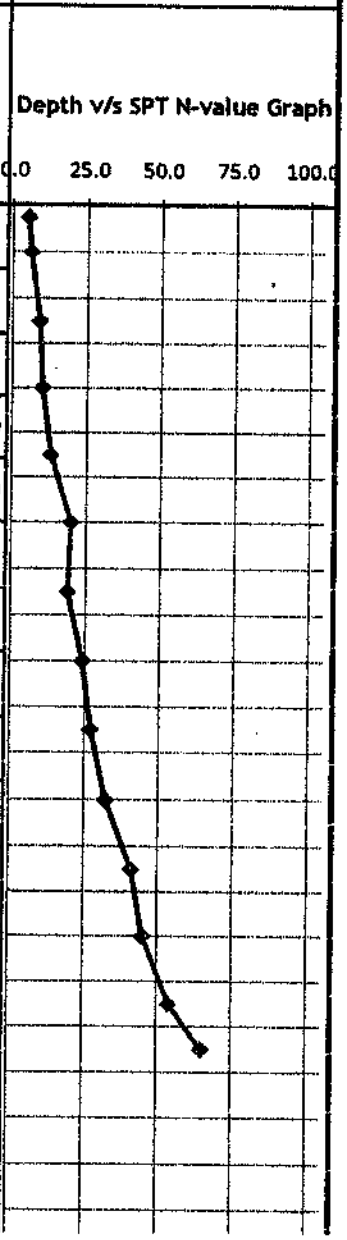
CLIENT :- EXECUTIVE ENGINEER (P) NOIDA CENTRAL DIVISION CPWD, NEW DELHI

Location :	AS PER LOCATION MAP	**Start Date**	-
Ground Water Level :	AT 12.9 M DEPTH	**End Date**	-
Type of Boring :	MECHANICAL/AUGER DRILLING	**Starting Depth**	E.G.L.
Diameter of Boring :	150 mm	**Termination Depth**	40.0 mtr.

S.No.	Depth from EGL (m)	Soil Type: Description of Strata	IS Classification	Symbolic Representation	Thickness of Strata	Sample: Type	Sample: Sample No.	Penetration Value: at 15 cm	at 30 cm	at 45 cm	SPT N-VALUE
1	0.75	SOFT CONSISTENCY CLAY UPTO 0.80 M	CL		0.80 M	SPT	S-15/1	2	2	3	5.0
2	1.50	LOOSE SILTY SAND WITH CLAY MIXTURE 0.80 M - 4.20 M			3.40 M	SPT	S-15/2	2	3	3	6.0
3	3.00					SPT	S-15/3	3	4	5	9.0
4	4.50	MEDIUM DENSE-DENSE FINE SAND 4.20 M -32.45 M	SP		28.25 M	SPT	S-15/4	4	5	5	10.0
5	6.00					SPT	S-15/5	5	6	7	13.0
6	7.50					SPT	S-15/6	7	9	11	20.0
7	9.00					SPT	S-15/7	7	9	10	19.0
8	10.5					SPT	S-15/8	8	11	13	24.0
9	12.0					SPT	S-15/9	10	12	15	27.0
10	13.5					SPT	S-15/10	12	16	16	32.0
11	15.0					SPT	S-15/11	14	19	22	41.0
12	16.5					SPT	S-15/12	16	21	24	45.0
13	18.0					SPT	S-15/13	19	25	29	54.0
14	19.0					SPT	S-15/14	21	30	35	65.0
15	21.0					SPT	S-15/15	25	36	41	R
16	22.5					SPT	S-15/16	30	40	45	R

SPT 'N' PROFILE



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CLIENT :- EXECUTIVE ENGINEER (P) NOIDA CENTRAL DIVISION CPWD, NEW DELHI

Location :	AS PER LOCATION MAP	**Start Date**	-
Ground Water Level :	AT 12.9 M DEPTH	**End Date**	-
Type of Boring :	MECHANICAL/AUGER DRILLING	**Starting Depth**	E.G.L.
Diameter of Boring :	150 mm	**Termination Depth**	40.0 mtr.

S.No.	Depth from EGL (m)	Soil Type: Description of Strata	IS Classification	Symbolic Representation	Thickness of Strata	Sample: Type	Sample: Sample No.	Penetration Value: at 15 cm	at 30 cm	at 45 cm	SPT N-VALUE	SPT 'N' PROFILE: Depth v/s SPT N-value Graph (0.0 25.0 50.0 75.0 100.0)
17	24.0					SPT	S-15/17	35	44	49	R	
18	25.5					SPT	S-15/18	39	48	R	R	
19	27.0					SPT	S-15/19	R	R	R	R	
20	28.5					SPT	S-15/20	R	R	R	R	
21	30.0					SPT	S-15/21	R	R	R	R	
22	31.5					SPT	S-15/22	R	R	R	R	
23	33.0	HARD CLAY WITH MEDIUM PLASTICITY 32.45 M - 40.0 M	CL		7.55 M	SPT	S-15/23	R	R	R	R	
24	34.5					SPT	S-15/24	R	R	R	R	
25	36.0					SPT	S-15/25	R	R	R	R	
26	37.5					SPT	S-15/26	R	R	R	R	
27	39.0					SPT	S-15/27	R	R	R	R	
28	40.0					SPT	S-15/28	R	R	R	R	

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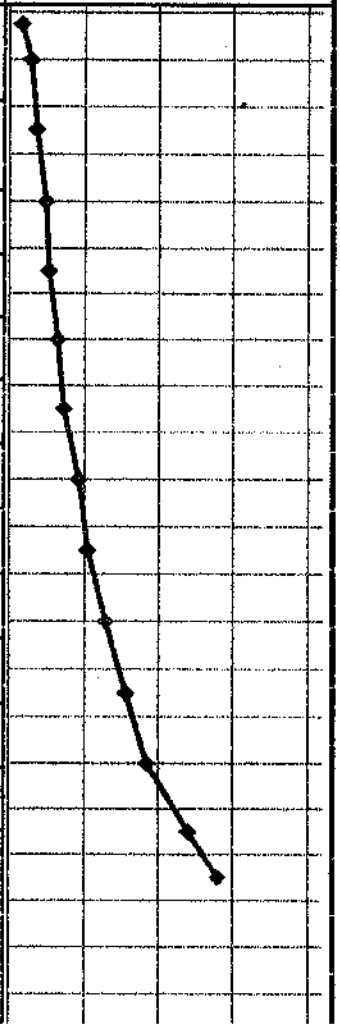
PROJECT :- GEOTECHNICAL INVESTIGATION REPORT FOR REDEVELOPMENT OF BOTANICAL GARDEN OF INDIAN REPUBLIC NOIDA.

CLIENT :- EXECUTIVE ENGINEER (P) NOIDA CENTRAL DIVISION CPWD, NEW DELHI

Location :	AS PER LOCATION MAP	**Start Date**	-
Ground Water Level :	AT 13.2 M DEPTH	**End Date**	-
Type of Boring :	MECHANICAL/AUGER DRILLING	**Starting Depth**	E.G.L.
Diameter of Boring :	150 mm	**Termination Depth**	40.0 mtr.

S.No.	Depth from EGL (m)	Soil Type: Description of Strata	IS Classification	Symbolic Representation	Thickness of Strata	Sample: Type	Sample: Sample No.	Penetration Value: at 15 cm	at 30 cm	at 45 cm	SPT N-VALUE
1	0.75	SOFT CONSISTENCY CLAY UPTO 0.70 M	CL		0.70 M	SPT	S-16/1	2	2	2	4.0
2	1.50	LOOSE SILTY SAND WITH CLAY MIXTURE 0.70 M - 2.0 M			1.30 M	SPT	S-16/2	2	3	4	7.0
3	3.00	MEDIUM DENSE-DENSE FINE SAND 2.0 M - 19.5 M	SP		17.5 M	SPT	S-16/3	3	4	5	9.0
4	4.50					SPT	S-16/4	4	5	7	12.0
5	6.00					SPT	S-16/5	5	6	7	13.0
6	7.50					SPT	S-16/6	6	8	8	16.0
7	9.00					SPT	S-16/7	8	8	10	18.0
8	10.5					SPT	S-16/8	10	11	12	23.0
9	12.0					SPT	S-16/9	11	12	14	26.0
10	13.5					SPT	S-16/10	12	15	17	32.0
11	15.0					SPT	S-16/11	13	17	22	39.0
12	16.5					SPT	S-16/12	14	21	25	46.0
13	18.0					SPT	S-16/13	19	27	33	60.0
14	19.0					SPT	S-16/14	21	32	38	70.0
15	21.0					SPT	S-16/15	25	37	41	R

SPT 'N' PROFILE



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CLIENT :- EXECUTIVE ENGINEER (P) NOIDA CENTRAL DIVISION CPWD, NEW DELHI

Location :	AS PER LOCATION MAP	**Start Date**	-
Ground Water Level :	AT 13.2 M DEPTH	**End Date**	-
Type of Boring :	MECHANICAL/AUGER DRILLING	**Starting Depth**	E.G.L.
Diameter of Boring :	150 mm	**Termination Depth**	40.0 mtr.

S.No.	Depth from EGL (m)	Soil Type: Description of Strata	IS Classification	Symbolic Representation	Thickness of Strata	Sample: Type	Sample: Sample No.	Penetration Value: at 15 cm	at 30 cm	at 45 cm	SPT N-VALUE	SPT 'N' PROFILE: Depth v/s SPT N-value Graph
16	22.5	VERY STIFF-HARD CONSISTENCY CLAY WITH MEDIUM PLASTICITY 19.5 M - 40.0 M	CL		20.5 M	SPT	S-16/16	29	40	48	R	
17	24.0					SPT	S-16/17	38	45	R	R	
18	25.5					SPT	S-16/18	R	R	R	R	
19	27.0					SPT	S-16/19	R	R	R	R	
20	28.5					SPT	S-16/20	R	R	R	R	
21	30.0					SPT	S-16/21	R	R	R	R	
22	31.5					SPT	S-16/22	R	R	R	R	
23	33.0					SPT	S-16/23	R	R	R	R	
24	34.5					SPT	S-16/24	R	R	R	R	
25	36.0					SPT	S-16/25	R	R	R	R	
26	37.5					SPT	S-16/26	R	R	R	R	
27	39.0					SPT	S-16/27	R	R	R	R	
28	40.0					SPT	S-16/28	R	R	R	R	

Depth v/s SPT N-value Graph: 0.0 25.0 50.0 75.0 100.0

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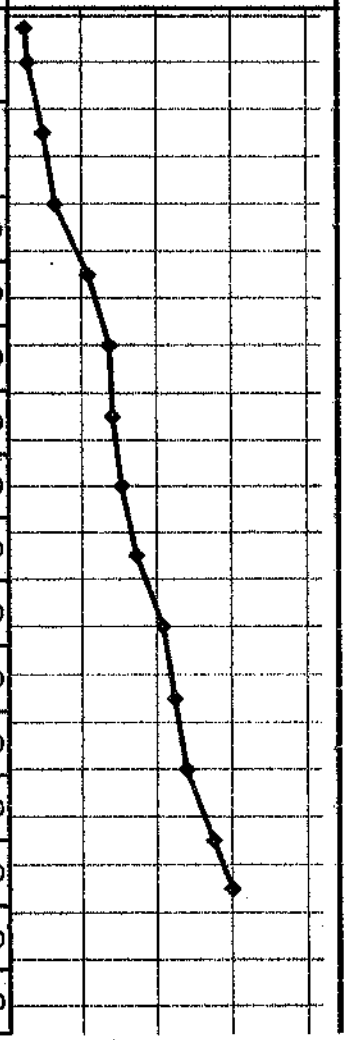
PROJECT :- GEOTECHNICAL INVESTIGATION REPORT FOR REDEVELOPMENT OF BOTANICAL GARDEN OF INDIAN REPUBLIC NOIDA.

CLIENT :- EXECUTIVE ENGINEER (P) NOIDA CENTRAL DIVISION CPWD, NEW DELHI

Location :	AS PER LOCATION MAP	**Start Date**	-
Ground Water Level :	AT 12.50 M DEPTH	**End Date**	-
Type of Boring :	MECHANICAL/AUGER DRILLING	**Starting Depth**	E.G.L.
Diameter of Boring :	150 mm	**Termination Depth**	40.0 mtr.

S.No.	Depth from EGL (m)	Soil Type: Description of Strata	IS Classification	Symbolic Representation	Thickness of Strata	Sample: Type	Sample: Sample No.	Penetration Value: at 15 cm	at 30 cm	at 45 cm	SPT N-VALUE
1	0.75	SOFT CONSISTENCY CLAY UPTO 0.75 M	CL		0.75 M	SPT	S-17/1	2	3	3	6.0
2	1.50	LOOSE SILTY SAND WITH CLAY MIXTURE 0.75 M - 1.80 M	SP		1.05 M	SPT	S-17/2	3	3	4	7.0
3	3.00	MEDIUM DENSE-DENSE FINE SAND 1.80 M - 19.8 M			18.0 M	SPT	S-17/3	5	5	7	12.0
4	4.50					SPT	S-17/4	5	7	9	16.0
5	6.00					SPT	S-17/5	7	12	15	27.0
6	7.50					SPT	S-17/6	10	15	19	34.0
7	9.00					SPT	S-17/7	10	15	20	35.0
8	10.5					SPT	S-17/8	12	17	21	38.0
9	12.0					SPT	S-17/9	13	19	24	43.0
10	13.5					SPT	S-17/10	14	21	31	52.0
11	15.0					SPT	S-17/11	15	23	33	56.0
12	16.5					SPT	S-17/12	15	25	35	60.0
13	18.0					SPT	S-17/13	20	29	40	69.0
14	19.0					SPT	S-17/14	22	32	43	75.0
15	21.0					SPT	S-17/15	24	35	46	81.0

SPT 'N' PROFILE



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PROJECT :- GEOTECHNICAL INVESTIGATION REPORT FOR REDEVELOPMENT OF BOTANICAL GARDEN OF INDIAN REPUBLIC NOIDA.

CLIENT :- EXECUTIVE ENGINEER (P) NOIDA CENTRAL DIVISION CPWD, NEW DELHI

Location :	AS PER LOCATION MAP	**Start Date**	-
Ground Water Level :	AT 12.50 M DEPTH	**End Date**	-
Type of Boring :	MECHANICAL/AUGER DRILLING	**Starting Depth**	E.G.L.
Diameter of Boring :	150 mm	**Termination Depth**	40.0 mtr.

S.No.	Depth from EGL (m)	Soil Type: Description of Strata	IS Classification	Symbolic Representation	Thickness of Strata	Sample: Type	Sample: Sample No.	Penetration Value: at 15 cm	at 30 cm	at 45 cm	SPT N-VALUE	SPT 'N' PROFILE: Depth v/s SPT N-value Graph (0.0 / 25.0 / 50.0 / 75.0 / 100.0)
16	22.5	VERY STIFF-HARD CONSISTENCY CLAY WITH MEDIUM PLASTICITY 19.8 M - 40.0 M	CL		20.2 M	SPT	S-17/16	27	39	48	R	
17	24.0					SPT	S-17/17	35	43	R	R	
18	25.5					SPT	S-17/18	R	R	R	R	
19	27.0					SPT	S-17/19	R	R	R	R	
20	28.5					SPT	S-17/20	R	R	R	R	
21	30.0					SPT	S-17/21	R	R	R	R	
22	31.5					SPT	S-17/22	R	R	R	R	
23	33.0					SPT	S-17/23	R	R	R	R	
24	34.5					SPT	S-17/24	R	R	R	R	
25	36.0					SPT	S-17/25	R	R	R	R	
26	37.5					SPT	S-17/26	R	R	R	R	
27	39.0					SPT	S-17/27	R	R	R	R	
28	40.0					SPT	S-17/28	R	R	R	R	

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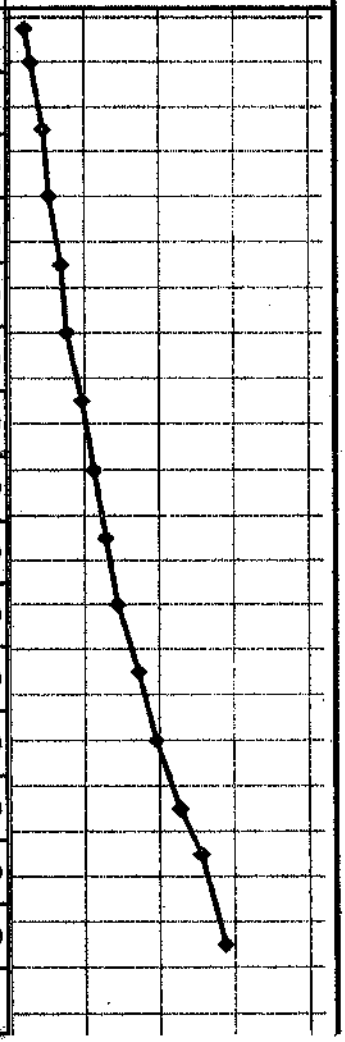
CLIENT :- EXECUTIVE ENGINEER (P) NOIDA CENTRAL DIVISION CPWD, NEW DELHI

Location :	AS PER LOCATION MAP	**Start Date**	-
Ground Water Level :	AT 12.7 M DEPTH	**End Date**	-
Type of Boring :	MECHANICAL/AUGER DRILLING	**Starting Depth**	E.G.L.
Diameter of Boring :	150 mm	**Termination Depth**	40.0 mtr.

S.No.	Depth from EGL (m)	Soil Type: Description of Strata	IS Classification	Symbolic Representation	Thickness of Strata	Sample: Type	Sample: Sample No.	Penetration Value: at 15 cm	at 30 cm	at 45 cm	SPT N-VALUE
1	0.75	SOFT CONSISTENCY CLAY UPTO 0.77 M	CL		0.77 M	SPT	S-18/1	2	2	3	5.0
2	1.50	LOOSE SILTY SAND WITH CLAY MIXTURE 0.77 M - 2.30 M			1.53 M	SPT	S-18/2	3	3	4	7.0
3	3.00					SPT	S-18/3	5	5	6	11.0
4	4.50	MEDIUM DENSE-DENSE FINE SAND 2.30 M - 20.0 M	SP		17.7 M	SPT	S-18/4	6	6	7	13.0
5	6.00					SPT	S-18/5	7	8	9	17.0
6	7.50					SPT	S-18/6	8	9	10	19.0
7	9.00					SPT	S-18/7	11	12	12	24.0
8	10.5					SPT	S-18/8	12	13	15	28.0
9	12.0					SPT	S-18/9	14	15	17	32.0
10	13.5					SPT	S-18/10	16	17	19	36.0
11	15.0					SPT	S-18/11	17	19	24	43.0
12	16.5					SPT	S-18/12	19	22	27	49.0
13	18.0					SPT	S-18/13	23	25	32	57.0
14	19.0					SPT	S-18/14	29	29	35	64.0
15	21.0					SPT	S-18/15	30	33	39	72.0
16	22.5					SPT	S-18/16	31	36	42	R

SPT 'N' PROFILE



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CLIENT :- EXECUTIVE ENGINEER (P) NOIDA CENTRAL DIVISION CPWD, NEW DELHI

Location :	AS PER LOCATION MAP	Start Date	-
Ground Water Level :	AT 12.7 M DEPTH	End Date	-
Type of Boring :	MECHANICAL/AUGER DRILLING	Starting Depth	E.G.L.
Diameter of Boring :	150 mm	Termination Depth	40.0 mtr.

S.No.	Depth from EGL (m)	Soil Type: Description of Strata	IS Classification	Symbolic Representation	Thickness of Strata	Sample: Type	Sample: Sample No.	Penetration Value: at 15 cm	at 30 cm	at 45 cm	SPT N-VALUE	SPT 'N' PROFILE: Depth v/s SPT N-value Graph (0.0 25.0 50.0 75.0 100.0)
17	24.0	VERY STIFF-HARD CONSISTENCY CLAY WITH MEDIUM PLASTICITY 20.0 M - 40.0 M	CL		20.0 M	SPT	S-18/17	32	39	46	R	
18	25.5					SPT	S-18/18	37	43	49	R	
19	27.0					SPT	S-18/19	45	47	R	R	
20	28.5					SPT	S-18/20	R	R	R	R	
21	30.0					SPT	S-18/21	R	R	R	R	
22	31.5					SPT	S-18/22	R	R	R	R	
23	33.0					SPT	S-18/23	R	R	R	R	
24	34.5					SPT	S-18/24	R	R	R	R	
25	36.0					SPT	S-18/25	R	R	R	R	
26	37.5					SPT	S-18/26	R	R	R	R	
27	39.0					SPT	S-18/27	R	R	R	R	
28	40.0					SPT	S-18/28	R	R	R	R	

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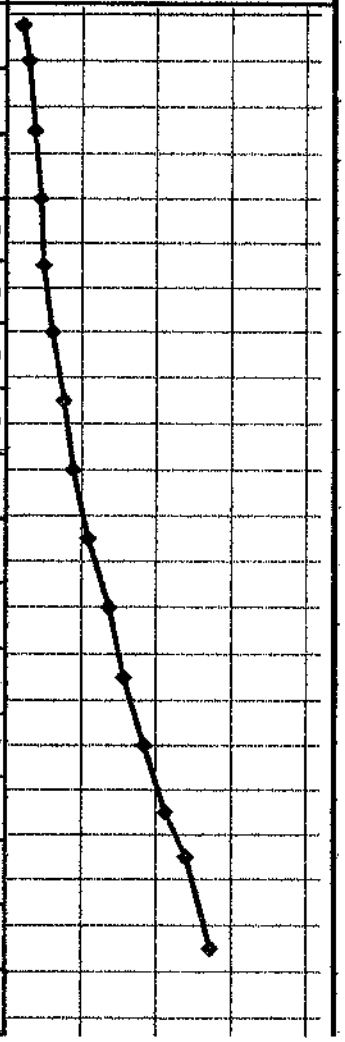
CLIENT :- EXECUTIVE ENGINEER (P) NOIDA CENTRAL DIVISION CPWD, NEW DELHI

Location :	AS PER LOCATION MAP	**Start Date**	-
Ground Water Level :	AT 13.4 M DEPTH	**End Date**	-
Type of Boring :	MECHANICAL/AUGER DRILLING	**Starting Depth**	E.G.L.
Diameter of Boring :	150 mm	**Termination Depth**	40.0 mtr.

S.No.	Depth from EGL (m)	Soil Type: Description of Strata	IS Classification	Symbolic Representation	Thickness of Strata	Sample: Type	Sample: Sample No.	Penetration Value: at 15 cm	at 30 cm	at 45 cm	SPT N-VALUE
1	0.75	SOFT CONSISTENCY CLAY UPTO 0.78 M	CL		0.78 M	SPT	S-19/1	2	2	3	5.0
2	1.50	LOOSE SILTY SAND WITH CLAY MIXTURE 0.78 M -3.20 M			2.42 M	SPT	S-19/2	2	3	4	7.0
3	3.00					SPT	S-19/3	3	4	5	9.0
4	4.50	MEDIUM DENSE-DENSE FINE SAND 3.20 M - 21.0 M	SP		17.8 M	SPT	S-19/4	4	5	6	11.0
5	6.00					SPT	S-19/5	5	6	6	12.0
6	7.50					SPT	S-19/6	6	7	8	15.0
7	9.00					SPT	S-19/7	8	9	10	19.0
8	10.5					SPT	S-19/8	10	10	12	22.0
9	12.0					SPT	S-19/9	12	12	15	27.0
10	13.5					SPT	S-19/10	13	15	19	34.0
11	15.0					SPT	S-19/11	15	17	22	39.0
12	16.5					SPT	S-19/12	17	20	26	46.0
13	18.0					SPT	S-19/13	20	23	30	53.0
14	19.0					SPT	S-19/14	22	27	33	60.0
15	21.0					SPT	S-19/15	24	30	38	68.0
16	22.5					SPT	S-19/16	25	33	40	R

SPT 'N' PROFILE

Depth v/s SPT N-value Graph



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PROJECT :- GEOTECHNICAL INVESTIGATION REPORT FOR REDEVELOPMENT OF BOTANICAL GARDEN OF INDIAN REPUBLIC NOIDA.

CLIENT :- EXECUTIVE ENGINEER (P) NOIDA CENTRAL DIVISION CPWD, NEW DELHI

Location :	AS PER LOCATION MAP	**Start Date**	-
Ground Water Level :	AT 13.4 M DEPTH	**End Date**	-
Type of Boring :	MECHANICAL/AUGER DRILLING	**Starting Depth**	E.G.L.
Diameter of Boring :	150 mm	**Termination Depth**	40.0 mtr.

S.No.	Depth from EGL (m)	Soil Type: Description of Strata	IS Classification	Symbolic Representation	Thickness of Strata	Sample: Type	Sample: Sample No.	Penetration Value: at 15 cm	at 30 cm	at 45 cm	SPT N-VALUE	SPT 'N' PROFILE: Depth v/s SPT N-value Graph (0.0 / 25.0 / 50.0 / 75.0 / 100.0)
17	24.0	VERY STIFF-HARD CONSISTENCY CLAY WITH MEDIUM PLASTICITY 21.0 M - 31.8 M	CL		10.8 M	SPT	S-19/17	26	35	42	R	
18	25.5					SPT	S-19/18	26	37	44	R	
19	27.0					SPT	S-19/19	29	41	48	R	
20	28.5					SPT	S-19/20	32	44	50	R	
21	30.0					SPT	S-19/21	35	47	R	R	
22	31.5	VERY DENSE FINE SAND 31.8 M - 40.0 M	SP		8.2 M	SPT	S-19/22	R	R	R	R	
23	33.0					SPT	S-19/23	R	R	R	R	
24	34.5					SPT	S-19/24	R	R	R	R	
25	36.0					SPT	S-19/25	R	R	R	R	
26	37.5					SPT	S-19/26	R	R	R	R	
27	39.0					SPT	S-19/27	R	R	R	R	
28	40.0					SPT	S-19/28	R	R	R	R	

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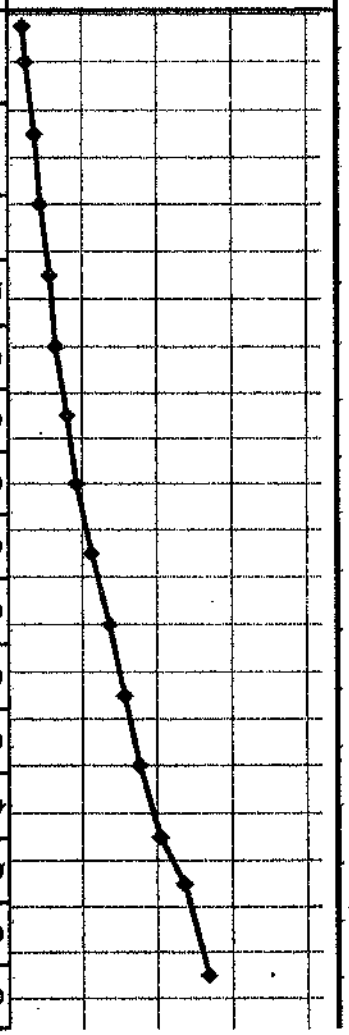
CLIENT :- EXECUTIVE ENGINEER (P) NOIDA CENTRAL DIVISION CPWD, NEW DELHI

Location :	AS PER LOCATION MAP	**Start Date**	-
Ground Water Level :	AT 13.2 M DEPTH	**End Date**	-
Type of Boring :	MECHANICAL/AUGER DRILLING	**Starting Depth**	E.G.L.
Diameter of Boring :	150 mm	**Termination Depth**	40.0 mtr.

S.No.	Depth from EGL (m)	Soil Type: Description of Strata	IS Classification	Symbolic Representation	Thickness of Strata	Sample: Type	Sample No.	Penetration Value: at 15 cm	at 30 cm	at 45 cm	SPT N-VALUE
1	0.75	SOFT CONSISTENCY CLAY UPTO 0.70 M	CL		0.70 M	SPT	S-20/1	2	2	3	5.0
2	1.50	LOOSE SILTY SAND WITH CLAY MIXTURE 0.70 M - 3.20 M	SP		2.50 M	SPT	S-20/2	2	3	3	6.0
3	3.00	MEDIUM DENSE-DENSE FINE SAND 3.20 M - 22.8 M			19.6 M	SPT	S-20/3	3	4	5	9.0
4	4.50					SPT	S-20/4	4	5	6	11.0
5	6.00					SPT	S-20/5	5	6	8	14.0
6	7.50					SPT	S-20/6	5	7	9	16.0
7	9.00					SPT	S-20/7	6	9	11	20.0
8	10.5					SPT	S-20/8	8	11	12	23.0
9	12.0					SPT	S-20/9	10	13	15	28.0
10	13.5					SPT	S-20/10	10	15	19	34.0
11	15.0					SPT	S-20/11	11	17	22	39.0
12	16.5					SPT	S-20/12	12	19	25	44.0
13	18.0					SPT	S-20/13	15	22	29	51.0
14	19.0					SPT	S-20/14	19	26	33	59.0
15	21.0					SPT	S-20/15	23	29	38	67.0

SPT 'N' PROFILE



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CLIENT :- EXECUTIVE ENGINEER (P) NOIDA CENTRAL DIVISION CPWD, NEW DELHI

Location :	AS PER LOCATION MAP	**Start Date**	-
Ground Water Level :	AT 13.2 M DEPTH	**End Date**	-
Type of Boring :	MECHANICAL/AUGER DRILLING	**Starting Depth**	E.G.L.
Diameter of Boring :	150 mm	**Termination Depth**	40.0 mtr.

S.No.	Depth from EGL (m)	Soil Type: Description of Strata	IS Classification	Symbolic Representation	Thickness of Strata	Sample: Type	Sample: Sample No.	Penetration Value: at 15 cm	at 30 cm	at 45 cm	SPT N-VALUE	SPT 'N' PROFILE: Depth v/s SPT N-value Graph (0 / 25.0 / 50.0 / 75.0 / 100.0)
16	22.5	VERY STIFF-HARD CONSISTENCY CLAY WITH MEDIUM PLASTICITY 22.8 M - 31.0 M	CL		8.20 M	SPT	S-20/16	25	33	41	R	
17	24.0					SPT	S-20/17	28	37	44	R	
18	25.5					SPT	S-20/18	31	40	47	R	
19	27.0					SPT	S-20/19	34	44	50	R	
20	28.5					SPT	S-20/20	39	48	R	R	
21	30.0					SPT	S-20/21	R	R	R	R	
22	31.5	VERY DENSE FINE SAND 31.0 M - 40.0 M	SP		9.0 M	SPT	S-20/22	R	R	R	R	
23	33.0					SPT	S-20/23	R	R	R	R	
24	34.5					SPT	S-20/24	R	R	R	R	
25	36.0					SPT	S-20/25	R	R	R	R	
26	37.5					SPT	S-20/26	R	R	R	R	
27	39.0					SPT	S-20/27	R	R	R	R	
28	40.0					SPT	S-20/28	R	R	R	R	

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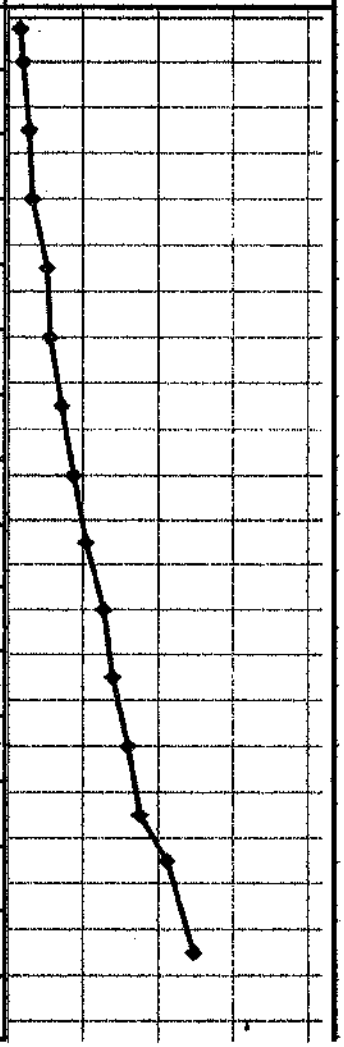
CLIENT :- EXECUTIVE ENGINEER (P) NOIDA CENTRAL DIVISION CPWD, NEW DELHI

Location :	AS PER LOCATION MAP	**Start Date**	-
Ground Water Level :	AT 13.3 M DEPTH	**End Date**	-
Type of Boring :	MECHANICAL/AUGER DRILLING	**Starting Depth**	E.G.L.
Diameter of Boring :	150 mm	**Termination Depth**	40.0 mtr.

S.No.	Depth from EGL (m)	Soil Type: Description of Strata	IS Classification	Symbolic Representation	Thickness of Strata	Sample: Type	Sample: Sample No.	Penetration Value: at 15 cm	at 30 cm	at 45 cm	SPT N-VALUE
1	0.75	SOFT CONSISTENCY CLAY UPTO 0.77 M	CL		0.77 M	SPT	S-21/1	2	2	2	4.0
2	1.50	LOOSE SILTY SAND WITH CLAY MIXTURE 0.77 M - 2.90 M			2.13 M	SPT	S-21/2	2	2	3	5.0
3	3.00					SPT	S-21/3	3	3	4	7.0
4	4.50	MEDIUM DENSE-DENSE FINE SAND 2.90 M - 32.3 M	SP		29.4 M	SPT	S-21/4	3	4	4	8.0
5	6.00					SPT	S-21/5	4	5	8	13.0
6	7.50					SPT	S-21/6	4	6	8	14.0
7	9.00					SPT	S-21/7	6	8	10	18.0
8	10.5					SPT	S-21/8	8	10	12	22.0
9	12.0					SPT	S-21/9	10	12	14	26.0
10	13.5					SPT	S-21/10	10	14	18	32.0
11	15.0					SPT	S-21/11	12	15	20	35.0
12	16.5					SPT	S-21/12	14	17	23	40.0
13	18.0					SPT	S-21/13	17	19	25	44.0
14	19.0					SPT	S-21/14	20	24	29	53.0
15	21.0					SPT	S-21/15	22	28	34	62.0
16	22.5					SPT	S-21/16	25	31	37	R

SPT 'N' PROFILE



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PROJECT :- GEOTECHNICAL INVESTIGATION REPORT FOR REDEVELOPMENT OF BOTANICAL GARDEN OF INDIAN REPUBLIC NOIDA.

CLIENT :- EXECUTIVE ENGINEER (P) NOIDA CENTRAL DIVISION CPWD, NEW DELHI

Location :	AS PER LOCATION MAP	**Start Date**	-
Ground Water Level :	AT 13.3 M DEPTH	**End Date**	-
Type of Boring :	MECHANICAL/AUGER DRILLING	**Starting Depth**	E.G.L.
Diameter of Boring :	150 mm	**Termination Depth**	40.0 mtr.

S.No.	Depth from EGL (m)	Soil Type: Description of Strata	IS Classification	Symbolic Representation	Thickness of Strata	Sample: Type	Sample: Sample No.	Penetration Value: at 15 cm	at 30 cm	at 45 cm	SPT N-VALUE	SPT 'N' PROFILE: Depth v/s SPT N-value Graph (0.0 25.0 50.0 75.0 100.0)
17	24.0					SPT	S-21/17	28	35	41	R	
18	25.5					SPT	S-21/18	31	39	45	R	
19	27.0					SPT	S-21/19	33	43	48	R	
20	28.5					SPT	S-21/20	35	49	R	R	
21	30.0					SPT	S-21/21	R	R	R	R	
22	31.5					SPT	S-21/22	R	R	R	R	
23	33.0	HARD CLAY WITH MEDIUM PLASTICITY 32.3 M - 40.0 M	CL		7.7 M	SPT	S-21/23	R	R	R	R	
24	34.5					SPT	S-21/24	R	R	R	R	
25	36.0					SPT	S-21/25	R	R	R	R	
26	37.5					SPT	S-21/26	R	R	R	R	
27	39.0					SPT	S-21/27	R	R	R	R	
28	40.0					SPT	S-21/28	R	R	R	R	

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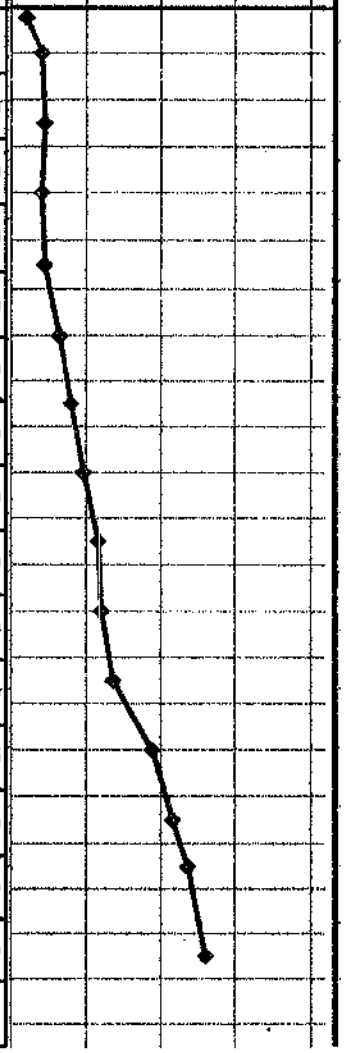
PROJECT :- GEOTECHNICAL INVESTIGATION REPORT FOR REDEVELOPMENT OF BOTANICAL GARDEN OF INDIAN REPUBLIC NOIDA.

CLIENT :- EXECUTIVE ENGINEER (P) NOIDA CENTRAL DIVISION CPWD, NEW DELHI

Location :	AS PER LOCATION MAP	Start Date	-
Ground Water Level :	AT 13.2 M DEPTH	End Date	-
Type of Boring :	MECHANICAL/AUGER DRILLING	Starting Depth	E.G.L.
Diameter of Boring :	150 mm	Termination Depth	40.0 mtr.

S.No.	Depth from EGL (m)	Soil Type: Description of Strata	IS Classification	Symbolic Representation	Thickness of Strata	Sample: Type	Sample No.	Penetration Value: at 15 cm	at 30 cm	at 45 cm	SPT N-VALUE
1	0.75	SOFT CONSISTENCY CLAY UPTO 0.75 M	CL		0.65 M	SPT	S-22/1	2	2	3	5.0
2	1.50	LOOSE SILTY SAND WITH CLAY MIXTURE 0.65 M - 2.45 M			1.80 M	SPT	S-22/2	2	3	7	10.0
3	3.00					SPT	S-22/3	3	4	7	11.0
4	4.50	MEDIUM DENSE-DENSE FINE SAND 2.80 M - 14.8 M	SP		19.15 M	SPT	S-22/4	4	4	6	10.0
5	6.00					SPT	S-22/5	5	5	6	11.0
6	7.50					SPT	S-22/6	5	7	9	16.0
7	9.00					SPT	S-22/7	6	8	12	20.0
8	10.5					SPT	S-22/8	8	11	13	24.0
9	12.0					SPT	S-22/9	10	13	16	29.0
10	13.5					SPT	S-22/10	11	15	15	30.0
11	15.0					SPT	S-22/11	12	17	17	34.0
12	16.5					SPT	S-22/12	14	18	29	47.0
13	18.0					SPT	S-22/13	17	22	32	54.0
14	19.0					SPT	S-22/14	20	25	34	59.0
15	21.0					SPT	S-22/15	22	29	36	65.0
16	22.5					SPT	S-22/16	24	33	39	R

SPT 'N' PROFILE



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CLIENT :- EXECUTIVE ENGINEER (P) NOIDA CENTRAL DIVISION CPWD, NEW DELHI

Location :	AS PER LOCATION MAP	Start Date	-
Ground Water Level :	AT 13.2 M DEPTH	End Date	-
Type of Boring :	MECHANICAL/AUGER DRILLING	Starting Depth	E.G.L.
Diameter of Boring :	150 mm	Termination Depth	40.0 mtr.

S.No.	Depth from EGL (m)	Soil Type: Description of Strata	IS Classification	Symbolic Representation	Thickness of Strata	Sample: Type	Sample: Sample No.	Penetration Value: at 15 cm	at 30 cm	at 45 cm	SPT N-VALUE	SPT 'N' PROFILE: Depth v/s SPT N-value Graph (0.0 25.0 50.0 75.0 100.0)
17	24.0	VERY STIFF-HARD CONSISTENCY CLAY WITH MEDIUM PLASTICITY 21.6 M - 31.0 M	CL		9.40 M	SPT	S-22/17	27	35	42	R	
18	25.5					SPT	S-22/18	29	39	44	83.0	
19	27.0					SPT	S-22/19	32	42	46	R	
20	28.5					SPT	S-22/20	35	48	46	R	
21	30.0					SPT	S-22/21	R	R	48	R	
22	31.5	VERY DENSE FINE SAND 31.0 M - 40.0 M	SP		9.0 M	SPT	S-22/22	R	R	50	R	
23	33.0					SPT	S-22/23	R	R	R	R	
24	34.5					SPT	S-22/24	R	R	R	R	
25	36.0					SPT	S-22/25	R	R	R	R	
26	37.5					SPT	S-22/26	R	R	R	R	
27	39.0					SPT	S-22/27	R	R	R	R	
28	40.0					SPT	S-22/28	R	R	R	R	

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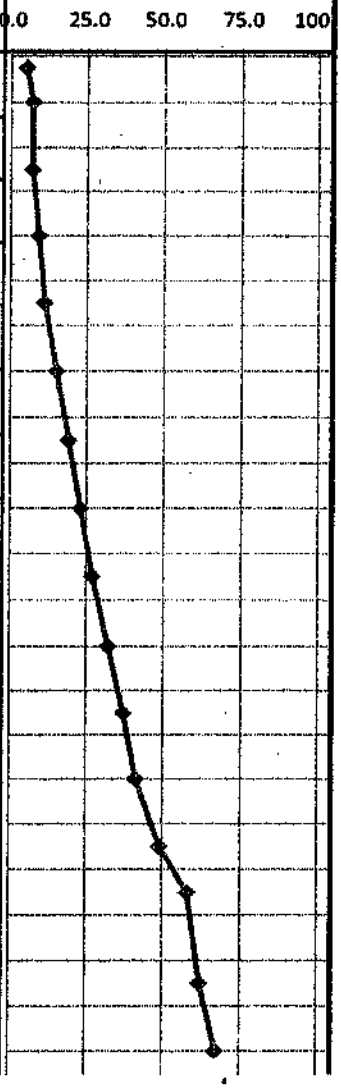
PROJECT :- GEOTECHNICAL INVESTIGATION REPORT FOR REDEVELOPMENT OF BOTANICAL GARDEN OF INDIAN REPUBLIC NOIDA.

CLIENT :- EXECUTIVE ENGINEER (P) NOIDA CENTRAL DIVISION CPWD, NEW DELHI

Location :	AS PER LOCATION MAP	**Start Date**	-
Ground Water Level :	AT 13.7 M DEPTH	**End Date**	-
Type of Boring :	MECHANICAL/AUGER DRILLING	**Starting Depth**	E.G.L.
Diameter of Boring :	150 mm	**Termination Depth**	40.0 mtr.

S.No.	Depth from EGL (m)	Soil Type: Description of Strata	IS Classification	Symbolic Representation	Thickness of Strata	Sample: Type	Sample: Sample No.	Penetration Value: at 15 cm	at 30 cm	at 45 cm	SPT N-VALUE
1	0.75	SOFT CONSISTENCY CLAY UPTO 0.76 M	CL		0.76 M	SPT	S-23/1	2	2	3	5.0
2	1.50	LOOSE SILTY SAND WITH CLAY MIXTURE 0.76 M - 3.40 M			2.64 M	SPT	S-23/2	2	3	4	7.0
3	3.00					SPT	S-23/3	3	3	4	7.0
4	4.50	MEDIUM DENSE-DENSE FINE SAND 3.40 M - 31.7 M	SP		28.3 M	SPT	S-23/4	4	4	5	9.0
5	6.00					SPT	S-23/5	4	5	6	11.0
6	7.50					SPT	S-23/6	5	7	8	15.0
7	9.00					SPT	S-23/7	7	9	10	19.0
8	10.5					SPT	S-23/8	9	11	12	23.0
9	12.0					SPT	S-23/9	11	13	14	27.0
10	13.5					SPT	S-23/10	12	15	17	32.0
11	15.0					SPT	S-23/11	14	17	20	37.0
12	16.5					SPT	S-23/12	15	19	22	41.0
13	18.0					SPT	S-23/13	17	23	26	49.0
14	19.0					SPT	S-23/14	20	27	31	58.0
15	21.0					SPT	S-23/15	22	29	33	62.0
16	22.5					SPT	S-23/16	24	32	35	67.0

SPT 'N' PROFILE



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CLIENT :- EXECUTIVE ENGINEER (P) NOIDA CENTRAL DIVISION CPWD, NEW DELHI

Location :	AS PER LOCATION MAP	Start Date	-
Ground Water Level :	AT 13.7 M DEPTH	End Date	-
Type of Boring :	MECHANICAL/AUGER DRILLING	Starting Depth	E.G.L.
Diameter of Boring :	150 mm	Termination Depth	40.0 mtr.

S.No.	Depth from EGL (m)	Soil Type: Description of Strata	IS Classification	Symbolic Representation	Thickness of Strata	Sample: Type	Sample: Sample No.	Penetration Value: at 15 cm	at 30 cm	at 45 cm	SPT N-VALUE	SPT 'N' PROFILE: Depth v/s SPT N-value Graph
17	24.0					SPT	S-23/17	27	34	39	73.0	
18	25.5					SPT	S-23/18	29	37	42	79.0	
19	27.0					SPT	S-23/19	31	40	45	R	
20	28.5					SPT	S-23/20	33	43	47	R	
21	30.0					SPT	S-23/21	36	45	R	R	
22	31.5	HARD CLAY WITH MEDIUM PLASTICITY 31.7 M - 40.0 M	CL		8.3 M	SPT	S-23/22	R	R	R	R	
23	33.0					SPT	S-23/23	R	R	R	R	
24	34.5					SPT	S-23/24	R	R	R	R	
25	36.0					SPT	S-23/25	R	R	R	R	
26	37.5					SPT	S-23/26	R	R	R	R	
27	39.0					SPT	S-23/27	R	R	R	R	
28	40.0					SPT	S-23/28	R	R	R	R	

SPT 'N' PROFILE: Depth v/s SPT N-value Graph — 0.0 25.0 50.0 75.0 100

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PROJECT :- GEOTECHNICAL INVESTIGATION REPORT FOR REDEVELOPMENT OF BOTANICAL GARDEN OF INDIAN REPUBLIC NOIDA.

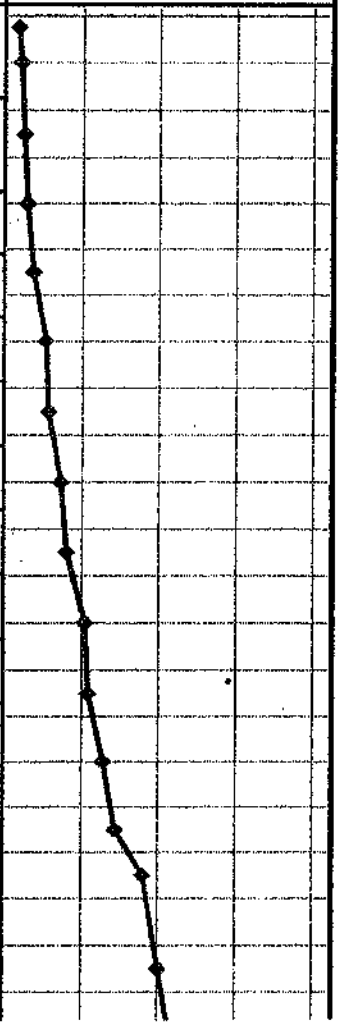
CLIENT :- EXECUTIVE ENGINEER (P) NOIDA CENTRAL DIVISION CPWD, NEW DELHI

Location :	AS PER LOCATION MAP	**Start Date**	-
Ground Water Level :	AT 13.5 M DEPTH	**End Date**	-
Type of Boring :	MECHANICAL/AUGER DRILLING	**Starting Depth**	E.G.L.
Diameter of Boring :	150 mm	**Termination Depth**	40.0 mtr.

S.No.	Depth from EGL (m)	Soil Type: Description of Strata	IS Classification	Symbolic Representation	Thickness of Strata	Sample: Type	Sample: Sample No.	Penetration Value: at 15 cm	at 30 cm	at 45 cm	SPT N-VALUE
1	0.75	SOFT CONSISTENCY CLAY UPTO 0.69 M	CL		0.69 M	SPT	S-24/1	2	2	2	4.0
2	1.50	LOOSE SILTY SAND WITH CLAY MIXTURE 0.69 M - 2.0 M	SP		1.31 M	SPT	S-24/2	2	2	3	5.0
3	3.00	MEDIUM DENSE-DENSE FINE SAND 2.0 M - 15.2 M			13.2 M	SPT	S-24/3	2	3	3	6.0
4	4.50					SPT	S-24/4	3	3	4	7.0
5	6.00					SPT	S-24/5	4	4	5	9.0
6	7.50					SPT	S-24/6	5	6	7	13.0
7	9.00					SPT	S-24/7	5	7	7	14.0
8	10.5					SPT	S-24/8	7	8	10	18.0
9	12.0					SPT	S-24/9	9	9	11	20.0
10	13.5					SPT	S-24/10	10	12	14	26.0
11	15.0	VERY STIFF-HARD CONSISTENCY CLAY 15.2 M - 23.2 M	CL		8.0 M	SPT	S-24/11	11	13	14	27.0
12	16.5					SPT	S-24/12	13	15	17	32.0
13	18.0					SPT	S-24/13	15	17	19	36.0
14	19.0					SPT	S-24/14	17	21	24	45.0
15	21.0					SPT	S-24/15	19	23	27	50.0

SPT 'N' PROFILE

Depth v/s SPT N-value Graph



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CLIENT :- EXECUTIVE ENGINEER (P) NOIDA CENTRAL DIVISION CPWD, NEW DELHI

Location :	AS PER LOCATION MAP	Start Date	-
Ground Water Level :	AT 13.5 M DEPTH	End Date	-
Type of Boring :	MECHANICAL/AUGER DRILLING	Starting Depth	E.G.L.
Diameter of Boring :	150 mm	Termination Depth	40.0 mtr.

S.No.	Depth from EGL (m)	Soil Type: Description of Strata	IS Classification	Symbolic Representation	Thickness of Strata	Sample: Type	Sample: Sample No.	Penetration Value: at 15 cm	at 30 cm	at 45 cm	SPT N-VALUE	SPT 'N' PROFILE: Depth v/s SPT N-value Graph
16	22.5					SPT	S-24/16	22	25	29	54.0	
17	24.0	VERY DENSE FINE SAND 23.2 M - 37.2 M	SP		14.0 M	SPT	S-24/17	24	29	33	62.0	
18	25.5					SPT	S-24/18	27	32	36	R	
19	27.0					SPT	S-24/19	30	35	39	R	
20	28.5					SPT	S-24/20	33	39	44	R	
21	30.0					SPT	S-24/21	39	43	50	R	
22	31.5					SPT	S-24/22	41	46	R	R	
23	33.0					SPT	S-24/23	R	R	R	R	
24	34.5					SPT	S-24/24	R	R	R	R	
25	36.0					SPT	S-24/25	R	R	R	R	
26	37.5	HARD CLAY WITH MEDIUM PLASTICITY 37.2 M - 40.0 M	CL		2.8 M	SPT	S-24/26	R	R	R	R	
27	39.0					SPT	S-24/27	R	R	R	R	
28	40.0					SPT	S-24/28	R	R	R	R	

SPT 'N' PROFILE: Depth v/s SPT N-value Graph — 0.0 25.0 50.0 75.0 100.

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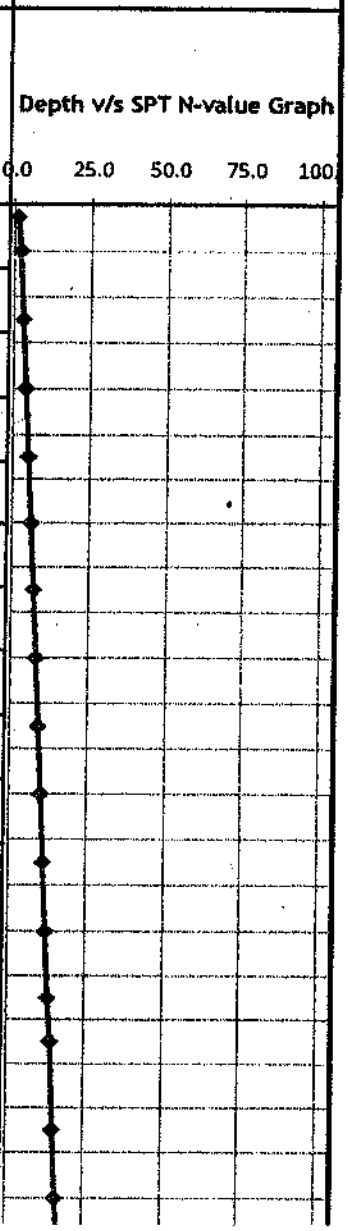
CLIENT :- EXECUTIVE ENGINEER (P) NOIDA CENTRAL DIVISION CPWD, NEW DELHI

Location :	AS PER LOCATION MAP	**Start Date**	-
Ground Water Level :	AT 13.30 M DEPTH	**End Date**	-
Type of Boring :	MECHANICAL/AUGER DRILLING	**Starting Depth**	E.G.L.
Diameter of Boring :	150 mm	**Termination Depth**	40.0 mtr.

S.No.	Depth from EGL (m)	Soil Type: Description of Strata	IS Classification	Symbolic Representation	Thickness of Strata	Sample: Type	Sample: Sample No.	Penetration Value: at 15 cm	at 30 cm	at 45 cm	SPT N-VALUE
1	0.75	SOFT CONSISTENCY CLAY UPTO 0.75 M	CL		0.75 M	SPT	S-25/1	2	2	3	5.0
2	1.50	LOOSE SILTY SAND WITH CLAY MIXTURE 0.75 M - 2.80 M			2.05 M	SPT	S-25/2	2	3	3	6.0
3	3.00					SPT	S-25/3	3	3	4	7.0
4	4.50	MEDIUM DENSE-DENSE FINE SAND 2.80 M - 21.1 M	SP		18.3 M	SPT	S-25/4	3	3	5	8.0
5	6.00					SPT	S-25/5	3	4	5	9.0
6	7.50					SPT	S-25/6	4	5	6	11.0
7	9.00					SPT	S-25/7	5	6	6	12.0
8	10.5					SPT	S-25/8	6	7	9	16.0
9	12.0					SPT	S-25/9	8	9	11	20.0
10	13.5					SPT	S-25/10	10	11	13	24.0
11	15.0					SPT	S-25/11	12	13	15	28.0
12	16.5					SPT	S-25/12	13	15	17	32.0
13	18.0					SPT	S-25/13	15	16	18	34.0
14	19.0					SPT	S-25/14	17	19	22	41.0
15	21.0					SPT	S-25/15	18	22	25	47.0
16	22.5					SPT	S-25/16	21	25	29	R

SPT 'N' PROFILE



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CLIENT :- EXECUTIVE ENGINEER (P) NOIDA CENTRAL DIVISION CPWD, NEW DELHI

Location :	AS PER LOCATION MAP	**Start Date**	-
Ground Water Level :	AT 13.30 M DEPTH	**End Date**	-
Type of Boring :	MECHANICAL/AUGER DRILLING	**Starting Depth**	E.G.L.
Diameter of Boring :	150 mm	**Termination Depth**	40.0 mtr.

S.No.	Depth from EGL (m)	Soil Type: Description of Strata	IS Classification	Symbolic Representation	Thickness of Strata	Sample: Type	Sample: Sample No.	Penetration Value: at 15 cm	at 30 cm	at 45 cm	SPT N-VALUE	SPT 'N' PROFILE: Depth v/s SPT N-value Graph (0.0 25.0 50.0 75.0 100)
17	24.0	VERY STIFF-HARD CONSISTENCY CLAY WITH MEDIUM PLASTICITY 21.1 M - 31.0 M	CL		9.9 M	SPT	S-25/17	23	27	32	R	
18	25.5					SPT	S-25/18	27	31	34	R	
19	27.0					SPT	S-25/19	29	33	38	R	
20	28.5					SPT	S-25/20	33	38	43	R	
21	30.0					SPT	S-25/21	35	40	45	R	
22	31.5	VERY DENSE FINE SAND 31.0 M - 40.0 M	SP		9.0 M	SPT	S-25/22	38	43	49	R	
23	33.0					SPT	S-25/23	41	45	R	R	
24	34.5					SPT	S-25/24	R	R	R	R	
25	36.0					SPT	S-25/25	R	R	R	R	
26	37.5					SPT	S-25/26	R	R	R	R	
27	39.0					SPT	S-25/27	R	R	R	R	
28	40.0					SPT	S-25/28	R	R	R	R	

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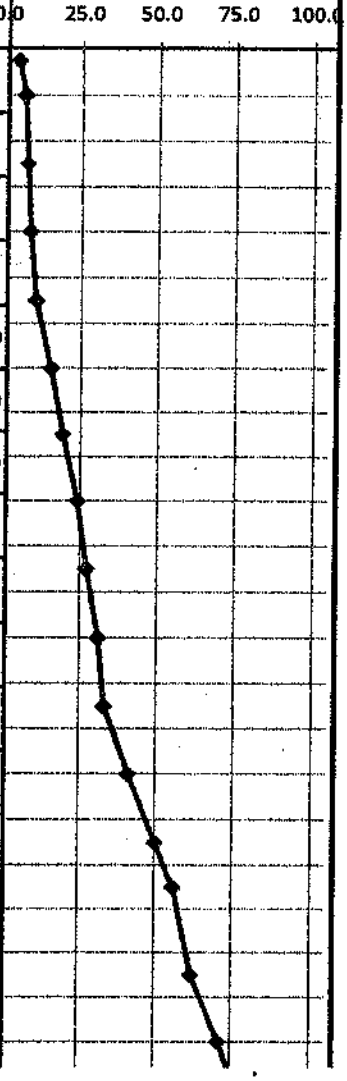
PROJECT :- GEOTECHNICAL INVESTIGATION REPORT FOR REDEVELOPMENT OF BOTANICAL GARDEN OF INDIAN REPUBLIC NOIDA.

CLIENT :- EXECUTIVE ENGINEER (P) NOIDA CENTRAL DIVISION CPWD, NEW DELHI

Location :	AS PER LOCATION MAP	**Start Date**	-
Ground Water Level :	AT 13.8 M DEPTH	**End Date**	-
Type of Boring :	MECHANICAL/AUGER DRILLING	**Starting Depth**	E.G.L.
Diameter of Boring :	150 mm	**Termination Depth**	40.0 mtr.

S.No.	Depth from EGL (m)	Soil Type: Description of Strata	IS Classification	Symbolic Representation	Thickness of Strata	Sample: Type	Sample: Sample No.	Penetration Value: at 15 cm	at 30 cm	at 45 cm	SPT N-VALUE
1	0.75	SOFT CONSISTENCY CLAY UPTO 0.65 M	CL		0.65 M	SPT	S-26/1	2	2	2	4.0
2	1.50	LOOSE SILTY SAND WITH CLAY MIXTURE 0.65 M - 4.30 M	SP		3.65 M	SPT	S-26/2	2	3	3	6.0
3	3.00					SPT	S-26/3	3	3	4	7.0
4	4.50	MEDIUM DENSE-DENSE FINE SAND 4.30 M - 21.7 M			17.4 M	SPT	S-26/4	3	4	4	8.0
5	6.00					SPT	S-26/5	4	5	5	10.0
6	7.50					SPT	S-26/6	4	7	8	15.0
7	9.00					SPT	S-26/7	6	9	10	19.0
8	10.5					SPT	S-26/8	7	11	13	24.0
9	12.0					SPT	S-26/9	10	12	15	27.0
10	13.5					SPT	S-26/10	12	14	17	31.0
11	15.0					SPT	S-26/11	14	15	18	33.0
12	16.5					SPT	S-26/12	15	19	22	41.0
13	18.0					SPT	S-26/13	17	23	27	50.0
14	19.0					SPT	S-26/14	19	26	30	56.0
15	21.0					SPT	S-26/15	22	29	33	62.0
16	22.5					SPT	S-26/16	25	33	38	71.0

SPT 'N' PROFILE



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PROJECT :- GEOTECHNICAL INVESTIGATION REPORT FOR REDEVELOPMENT OF BOTANICAL GARDEN OF INDIAN REPUBLIC NOIDA.

CLIENT :- EXECUTIVE ENGINEER (P) NOIDA CENTRAL DIVISION CPWD, NEW DELHI

Location :	AS PER LOCATION MAP	Start Date	-
Ground Water Level :	AT 13.8 M DEPTH	End Date	-
Type of Boring :	MECHANICAL/AUGER DRILLING	Starting Depth	E.G.L.
Diameter of Boring :	150 mm	Termination Depth	40.0 mtr.

S.No.	Depth from EGL (m)	Soil Type: Description of Strata	IS Classification	Symbolic Representation	Thickness of Strata	Sample: Type	Sample: Sample No.	Penetration Value: at 15 cm	at 30 cm	at 45 cm	SPT N-VALUE	SPT 'N' PROFILE: Depth v/s SPT N-value Graph (0.0 / 25.0 / 50.0 / 75.0 / 100.0)
17	24.0	VERY STIFF-HARD CONSISTENCY CLAY WITH MEDIUM PLASTICITY 21.7 M - 31.8 M	CL		10.1 M	SPT	S-26/17	28	38	41	79.0	
18	25.5					SPT	S-26/18	30	40	44	84.0	
19	27.0					SPT	S-26/19	34	43	48	R	
20	28.5					SPT	S-26/20	37	45	R	R	
21	30.0					SPT	S-26/21	R	R	R	R	
22	31.5	VERY DENSE FINE SAND 31.8 M - 40.0 M	SP		8.2 M	SPT	S-26/22	R	R	R	R	
23	33.0					SPT	S-26/23	R	R	R	R	
24	34.5					SPT	S-26/24	R	R	R	R	
25	36.0					SPT	S-26/25	R	R	R	R	
26	37.5					SPT	S-26/26	R	R	R	R	
27	39.0					SPT	S-26/27	R	R	R	R	
28	40.0					SPT	S-26/28	R	R	R	R	

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BORE LOG SHEET (as per IS 1892:1979)

PROJECT :- GEOTECHNICAL INVESTIGATION REPORT FOR REDEVELOPMENT OF BOTANICAL GARDEN OF INDIAN REPUBLIC NOIDA.

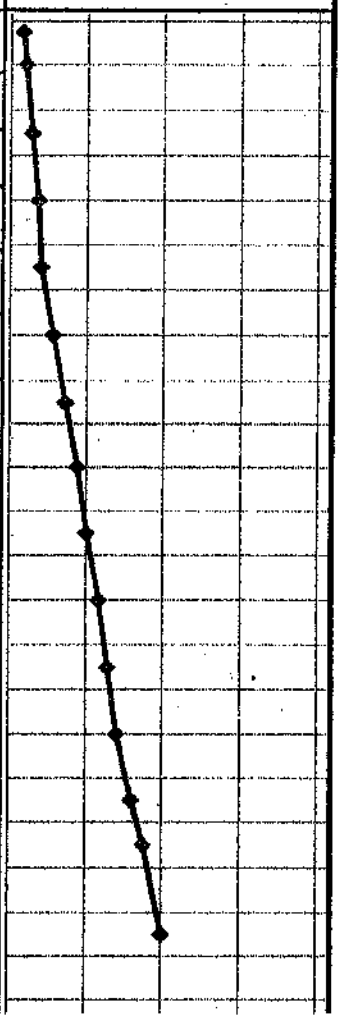
CLIENT :- EXECUTIVE ENGINEER (P) NOIDA CENTRAL DIVISION CPWD, NEW DELHI

Location :	AS PER LOCATION MAP	Start Date	-
Ground Water Level :	AT 13.5 M DEPTH	End Date	-
Type of Boring :	MECHANICAL/AUGER DRILLING	Starting Depth	E.G.L.
Diameter of Boring :	150 mm	Termination Depth	40.0 mtr.

S.No.	Depth from EGL (m)	Soil Type: Description of Strata	IS Classification	Symbolic Representation	Thickness of Strata	Sample: Type	Sample No.	Penetration Value: at 15 cm	at 30 cm	at 45 cm	SPT N-VALUE
1	0.75	SOFT CONSISTENCY CLAY UPTO 0.78 M	CL		0.78 M	SPT	S-27/1	2	2	2	4.0
2	1.50	LOOSE SILTY SAND WITH CLAY MIXTURE 0.78 M - 2.30 M			1.52 M	SPT	S-27/2	2	2	3	5.0
3	3.00					SPT	S-27/3	3	3	4	7.0
4	4.50	MEDIUM DENSE-DENSE FINE SAND 2.30 M - 21.7 M	SP		19.4 M	SPT	S-27/4	3	4	5	9.0
5	6.00					SPT	S-27/5	3	5	5	10.0
6	7.50					SPT	S-27/6	4	6	8	14.0
7	9.00					SPT	S-27/7	5	8	10	18.0
8	10.5					SPT	S-27/8	7	10	12	22.0
9	12.0					SPT	S-27/9	9	11	14	25.0
10	13.5					SPT	S-27/10	10	13	16	29.0
11	15.0					SPT	S-27/11	13	15	17	32.0
12	16.5					SPT	S-27/12	14	16	19	35.0
13	18.0					SPT	S-27/13	16	18	22	40.0
14	19.0					SPT	S-27/14	17	20	24	44.0
15	21.0					SPT	S-27/15	20	23	27	50.0
16	22.5					SPT	S-27/16	22	26	29	55.0

SPT 'N' PROFILE

Depth v/s SPT N-value Graph



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PROJECT :- GEOTECHNICAL INVESTIGATION REPORT FOR REDEVELOPMENT OF BOTANICAL GARDEN OF INDIAN REPUBLIC NOIDA.

CLIENT :- EXECUTIVE ENGINEER (P) NOIDA CENTRAL DIVISION CPWD, NEW DELHI

Location :	AS PER LOCATION MAP	**Start Date**	-
Ground Water Level :	AT 13.5 M DEPTH	**End Date**	-
Type of Boring :	MECHANICAL/AUGER DRILLING	**Starting Depth**	E.G.L.
Diameter of Boring :	150 mm	**Termination Depth**	40.0 mtr.

S.No.	Depth from EGL (m)	Soil Type: Description of Strata	IS Classification	Symbolic Representation	Thickness of Strata	Sample: Type	Sample: Sample No.	Penetration Value: at 15 cm	at 30 cm	at 45 cm	SPT N-VALUE	SPT 'N' PROFILE: Depth v/s SPT N-value Graph (0.0 / 25.0 / 50.0 / 75.0 / 100)
17	24.0	VERY STIFF-HARD CONSISTENCY CLAY WITH MEDIUM PLASTICITY 21.7 M - 31.5 M	CL		9.8 M	SPT	S-27/17	24	29	34	63.0	
18	25.5					SPT	S-27/18	27	32	37	69.0	
19	27.0					SPT	S-27/19	30	34	39	R	
20	28.5					SPT	S-27/20	32	38	42	R	
21	30.0					SPT	S-27/21	35	41	45	R	
22	31.5	VERY DENSE FINE SAND 31.5 M - 40.0 M	SP		8.5 M	SPT	S-27/22	38	43	49	R	
23	33.0					SPT	S-27/23	41	45	R	R	
24	34.5					SPT	S-27/24	R	R	R	R	
25	36.0					SPT	S-27/25	R	R	R	R	
26	37.5					SPT	S-27/26	R	R	R	R	
27	39.0					SPT	S-27/27	R	R	R	R	
28	40.0					SPT	S-27/28	R	R	R	R	

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PROJECT :- GEOTECHNICAL INVESTIGATION REPORT FOR REDEVELOPMENT OF BOTANICAL GARDEN OF INDIAN REPUBLIC NOIDA.

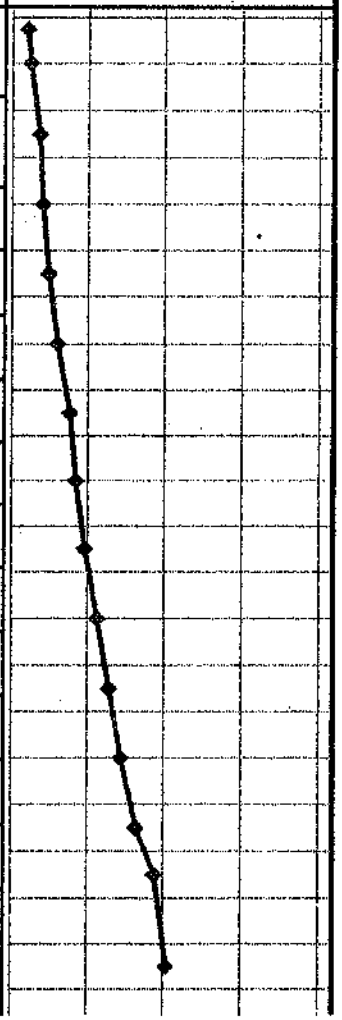
CLIENT :- EXECUTIVE ENGINEER (P) NOIDA CENTRAL DIVISION CPWD, NEW DELHI

Location :	AS PER LOCATION MAP	**Start Date**	-
Ground Water Level :	AT 13.2 M DEPTH	**End Date**	-
Type of Boring :	MECHANICAL/AUGER DRILLING	**Starting Depth**	E.G.L.
Diameter of Boring :	150 mm	**Termination Depth**	40.0 mtr.

S.No.	Depth from EGL (m)	Soil Type: Description of Strata	IS Classification	Symbolic Representation	Thickness of Strata	Sample: Type	Sample No.	Penetration Value: at 15 cm	at 30 cm	at 45 cm	SPT N-VALUE
1	0.75	SOFT CONSISTENCY CLAY UPTO 0.70 M	CL		0.70 M	SPT	S-28/1	2	2	3	5.0
2	1.50	LOOSE SILTY SAND WITH CLAY MIXTURE 0.70 M - 2.40 M			1.70 M	SPT	S-28/2	2	3	3	6.0
3	3.00	MEDIUM DENSE-DENSE FINE SAND 2.40 M - 21.8 M	SP		19.4 M	SPT	S-28/3	3	4	5	9.0
4	4.50					SPT	S-28/4	4	4	6	10.0
5	6.00					SPT	S-28/5	6	6	6	12.0
6	7.50					SPT	S-28/6	7	7	8	15.0
7	9.00					SPT	S-28/7	7	9	10	19.0
8	10.5					SPT	S-28/8	8	10	11	21.0
9	12.0					SPT	S-28/9	9	11	13	24.0
10	13.5					SPT	S-28/10	11	13	15	28.0
11	15.0					SPT	S-28/11	13	15	17	32.0
12	16.5					SPT	S-28/12	15	17	19	36.0
13	18.0					SPT	S-28/13	17	19	22	41.0
14	19.0					SPT	S-28/14	19	22	25	47.0
15	21.0					SPT	S-28/15	21	24	27	51.0

SPT 'N' PROFILE

Depth v/s SPT N-value Graph



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PROJECT :- GEOTECHNICAL INVESTIGATION REPORT FOR REDEVELOPMENT OF BOTANICAL GARDEN OF INDIAN REPUBLIC NOIDA.

CLIENT :- EXECUTIVE ENGINEER (P) NOIDA CENTRAL DIVISION CPWD, NEW DELHI

Location :	AS PER LOCATION MAP	Start Date	-
Ground Water Level :	AT 13.2 M DEPTH	End Date	-
Type of Boring :	MECHANICAL/AUGER DRILLING	Starting Depth	E.G.L.
Diameter of Boring :	150 mm	Termination Depth	40.0 mtr.

S.No.	Depth from EGL (m)	Soil Type: Description of Strata	IS Classification	Symbolic Representation	Thickness of Strata	Sample: Type	Sample: Sample No.	Penetration Value: at 15 cm	at 30 cm	at 45 cm	SPT N-VALUE	SPT 'N' PROFILE: Depth v/s SPT N-value Graph (0.0 25.0 50.0 75.0 100)
16	22.5	VERY STIFF-HARD CONSISTENCY CLAY WITH MEDIUM PLASTICITY 21.8 M - 32.0 M	CL		10.2 M	SPT	S-28/16	23	27	30	57.0	
17	24.0					SPT	S-28/17	25	29	33	62.0	
18	25.5					SPT	S-28/18	27	32	35	R	
19	27.0					SPT	S-28/19	29	35	39	R	
20	28.5					SPT	S-28/20	31	38	42	R	
21	30.0					SPT	S-28/21	32	41	44	R	
22	31.5					SPT	S-28/22	35	43	47	R	
23	33.0	VERY DENSE FINE SAND 32.0 M - 40.0 M	SP		8.0 M	SPT	S-28/23	40	R	R	R	
24	34.5					SPT	S-28/24	R	R	R	R	
25	36.0					SPT	S-28/25	R	R	R	R	
26	37.5					SPT	S-28/26	R	R	R	R	
27	39.0					SPT	S-28/27	R	R	R	R	
28	40.0					SPT	S-28/28	R	R	R	R	

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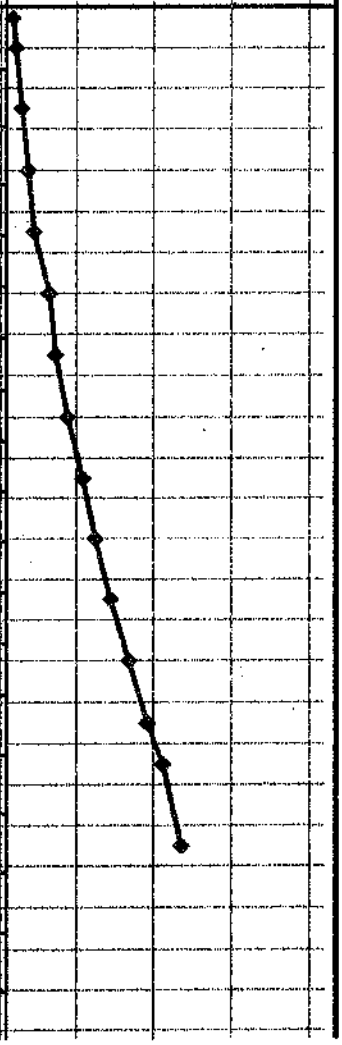
PROJECT :- GEOTECHNICAL INVESTIGATION REPORT FOR REDEVELOPMENT OF BOTANICAL GARDEN OF INDIAN REPUBLIC NOIDA.

CLIENT :- EXECUTIVE ENGINEER (P) NOIDA CENTRAL DIVISION CPWD, NEW DELHI

Location :	AS PER LOCATION MAP	**Start Date**	-
Ground Water Level :	AT 213.8 M DEPTH	**End Date**	-
Type of Boring :	MECHANICAL/AUGER DRILLING	**Starting Depth**	E.G.L.
Diameter of Boring :	150 mm	**Termination Depth**	40.0 mtr.

S.No.	Depth from EGL (m)	Soil Type: Description of Strata	IS Classification	Symbolic Representation	Thickness of Strata	Sample: Type	Sample No.	Penetration Value: at 15 cm	at 30 cm	at 45 cm	SPT N-VALUE
1	0.75	SOFT CONSISTENCY CLAY UPTO 0.80 M	CL		0.80 M	SPT	S-29/1	2	2	2	4.0
2	1.50	LOOSE SILTY SAND WITH CLAY MIXTURE 0.80 M - 3.80 M	SP		3.0 M	SPT	S-29/2	2	2	3	5.0
3	3.00					SPT	S-29/3	3	3	4	7.0
4	4.50	MEDIUM DENSE-DENSE FINE SAND 3.80 M - 20.5 M			16.7 M	SPT	S-29/4	3	4	5	9.0
5	6.00					SPT	S-29/5	5	5	6	11.0
6	7.50					SPT	S-29/6	6	7	9	16.0
7	9.00					SPT	S-29/7	7	8	10	18.0
8	10.5					SPT	S-29/8	8	10	12	22.0
9	12.0					SPT	S-29/9	10	12	15	27.0
10	13.5					SPT	S-29/10	12	14	17	31.0
11	15.0					SPT	S-29/11	15	16	20	36.0
12	16.5					SPT	S-29/12	17	19	23	42.0
13	18.0					SPT	S-29/13	19	22	26	48.0
14	19.0	VERY DENSE SILTY SAND AND CLAY MIXTURE 20.5 M - 29.3 M	SM		8.8 M	SPT	S-29/14	21	24	29	53.0
15	21.0					SPT	S-29/15	22	27	32	59.0
16	22.5					SPT	S-29/16	24	30	34	R
17	24.0					SPT	S-29/17	25	32	37	R
18	25.5					SPT	S-29/18	27	35	40	R
19	27.0					SPT	S-29/19	29	38	43	R

SPT 'N' PROFILE



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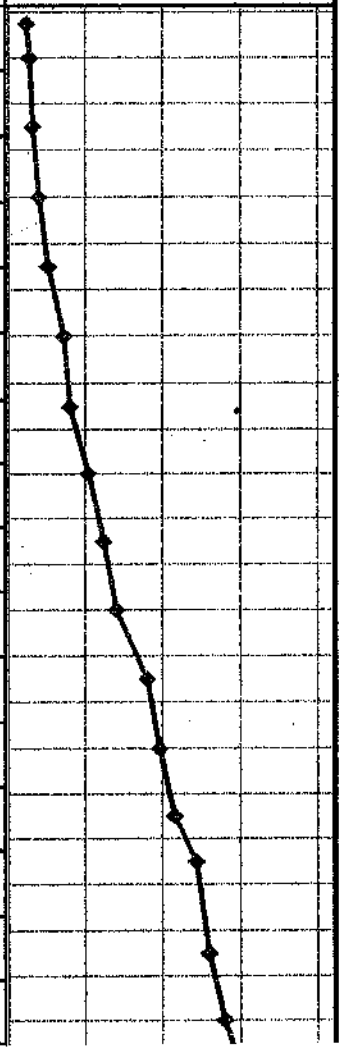
PROJECT :- GEOTECHNICAL INVESTIGATION REPORT FOR REDEVELOPMENT OF BOTANICAL GARDEN OF INDIAN REPUBLIC NOIDA.

CLIENT :- EXECUTIVE ENGINEER (P) NOIDA CENTRAL DIVISION CPWD, NEW DELHI

Location :	AS PER LOCATION MAP	Start Date	-
Ground Water Level :	AT 14.5 M DEPTH	End Date	-
Type of Boring :	MECHANICAL/AUGER DRILLING	Starting Depth	E.G.L.
Diameter of Boring :	150 mm	Termination Depth	40.0 mtr.

S.No.	Depth from EGL (m)	Soil Type: Description of Strata	IS Classification	Symbolic Representation	Thickness of Strata	Sample: Type	Sample: Sample No.	Penetration Value: at 15 cm	at 30 cm	at 45 cm	SPT N-VALUE
1	0.75	SOFT CONSISTENCY CLAY UPTO 0.65 M	CL		0.65 M	SPT	S-30/1	2	3	3	6.0
2	1.50	LOOSE SILTY SAND WITH CLAY MIXTURE 0.65 M - 2.00 M			1.35 M	SPT	S-30/2	2	3	4	7.0
3	3.00					SPT	S-30/3	3	3	5	8.0
4	4.50	MEDIUM DENSE-DENSE FINE SAND 2.80 M - 15.5 M	SP		12.7 M	SPT	S-30/4	3	5	5	10.0
5	6.00					SPT	S-30/5	4	6	7	13.0
6	7.50					SPT	S-30/6	6	8	10	18.0
7	9.00					SPT	S-30/7	8	9	11	20.0
8	10.5					SPT	S-30/8	10	12	14	26.0
9	12.0					SPT	S-30/9	11	14	17	31.0
10	13.5					SPT	S-30/10	12	16	19	35.0
11	15.0	VERY STIFF-HARD CONSISTENCY CLAY 15.5 M - 23.0 M	CL		7.5 M	SPT	S-30/11	15	20	25	45.0
12	16.5					SPT	S-30/12	17	22	27	49.0
13	18.0					SPT	S-30/13	20	25	29	54.0
14	19.0					SPT	S-30/14	23	29	32	61.0
15	21.0					SPT	S-30/15	27	31	34	65.0
16	22.5					SPT	S-30/16	30	33	37	70.0



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PROJECT :- GEOTECHNICAL INVESTIGATION REPORT FOR REDEVELOPMENT OF BOTANICAL GARDEN OF INDIAN REPUBLIC NOIDA.

CLIENT :- EXECUTIVE ENGINEER (P) NOIDA CENTRAL DIVISION CPWD, NEW DELHI

Location :	AS PER LOCATION MAP	**Start Date**	-
Ground Water Level :	AT 14.5 M DEPTH	**End Date**	-
Type of Boring :	MECHANICAL/AUGER DRILLING	**Starting Depth**	E.G.L.
Diameter of Boring :	150 mm	**Termination Depth**	40.0 mtr.

S.No.	Depth from EGL (m)	Soil Type: Description of Strata	IS Classification	Symbolic Representation	Thickness of Strata	Sample: Type	Sample: Sample No.	Penetration Value: at 15 cm	at 30 cm	at 45 cm	SPT N-VALUE	SPT 'N' PROFILE: Depth v/s SPT N-value Graph
17	24.0	VERY DENSE SILTY SAND AND CLAY MIXTURE 23.0 M - 27.85 M	SM		4.85 M	SPT	S-30/17	32	37	40	77.0	
18	25.5					SPT	S-30/18	35	40	43	83.0	
19	27.0	VERY DENSE FINE SAND 27.85 M - 40.0 M	SP		12.15 M	SPT	S-30/19	39	44	50	R	
20	28.5					SPT	S-30/20	42	R	46	R	
21	30.0					SPT	S-30/21	R	R	48	R	
22	31.5					SPT	S-30/22	R	R	50	R	
23	33.0					SPT	S-30/23	R	R	R	R	
24	34.5					SPT	S-30/24	R	R	R	R	
25	36.0					SPT	S-30/25	R	R	R	R	
26	37.5					SPT	S-30/26	R	R	R	R	
27	39.0					SPT	S-30/27	R	R	R	R	
28	40.0					SPT	S-30/28	R	R	R	R	

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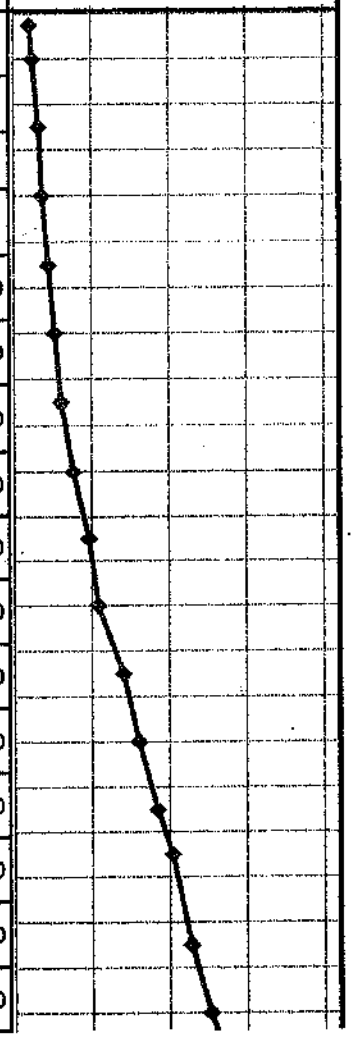
PROJECT :- GEOTECHNICAL INVESTIGATION REPORT FOR REDEVELOPMENT OF BOTANICAL GARDEN OF INDIAN REPUBLIC NOIDA.

CLIENT :- EXECUTIVE ENGINEER (P) NOIDA CENTRAL DIVISION CPWD, NEW DELHI

Location :	AS PER LOCATION MAP	Start Date	-
Ground Water Level :	AT 11.2 M DEPTH	End Date	-
Type of Boring :	MECHANICAL/AUGER DRILLING	Starting Depth	E.G.L.
Diameter of Boring :	150 mm	Termination Depth	40.0 mtr.

S.No.	Depth from EGL (m)	Soil Type: Description of Strata	IS Classification	Symbolic Representation	Thickness of Strata	Sample: Type	Sample: Sample No.	Penetration Value: at 15 cm	at 30 cm	at 45 cm	SPT N-VALUE
1	0.75	SOFT CONSISTENCY CLAY UPTO 0.72 M	CL		0.72 M	SPT	S-31/1	2	2	3	5.0
2	1.50	LOOSE SILTY SAND WITH CLAY MIXTURE 0.72 M - 4.20 M			3.48 M	SPT	S-31/2	2	3	3	6.0
3	3.00					SPT	S-31/3	3	4	4	8.0
4	4.50	MEDIUM DENSE-DENSE FINE SAND 4.20 M - 21.8 M	SP		17.6 M	SPT	S-31/4	3	4	5	9.0
5	6.00					SPT	S-31/5	4	5	6	11.0
6	7.50					SPT	S-31/6	4	6	7	13.0
7	9.00					SPT	S-31/7	5	6	9	15.0
8	10.5					SPT	S-31/8	6	8	11	19.0
9	12.0					SPT	S-31/9	9	11	13	24.0
10	13.5					SPT	S-31/10	11	12	15	27.0
11	15.0					SPT	S-31/11	13	16	19	35.0
12	16.5					SPT	S-31/12	15	18	22	40.0
13	18.0					SPT	S-31/13	18	21	25	46.0
14	19.0					SPT	S-31/14	20	23	28	51.0
15	21.0					SPT	S-31/15	22	26	31	57.0
16	22.5					SPT	S-31/16	25	29	34	63.0

SPT 'N' PROFILE



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PROJECT :- GEOTECHNICAL INVESTIGATION REPORT FOR REDEVELOPMENT OF BOTANICAL GARDEN OF INDIAN REPUBLIC NOIDA.

CLIENT :- EXECUTIVE ENGINEER (P) NOIDA CENTRAL DIVISION CPWD, NEW DELHI

Location :	AS PER LOCATION MAP	**Start Date**	-
Ground Water Level :	AT 11.2 M DEPTH	**End Date**	-
Type of Boring :	MECHANICAL/AUGER DRILLING	**Starting Depth**	E.G.L.
Diameter of Boring :	150 mm	**Termination Depth**	40.0 mtr.

S.No.	Depth from EGL (m)	Soil Type: Description of Strata	IS Classification	Symbolic Representation	Thickness of Strata	Sample: Type	Sample: Sample No.	Penetration Value: at 15 cm	at 30 cm	at 45 cm	SPT N-VALUE	SPT 'N' PROFILE: Depth v/s SPT N-value Graph (0.0 / 25.0 / 50.0 / 75.0 / 100.)
17	24.0	VERY STIFF-HARD CONSISTENCY CLAY WITH MEDIUM PLASTICITY 21.8 M - 32.5 M	CL		10.7 M	SPT	S-31/17	28	32	38	70.0	
18	25.5					SPT	S-31/18	31	35	41	76.0	
19	27.0					SPT	S-31/19	32	37	43	R	
20	28.5					SPT	S-31/20	34	40	45	R	
21	30.0					SPT	S-31/21	38	43	49	R	
22	31.5					SPT	S-31/22	41	47	R	R	
23	33.0	VERY DENSE FINE SAND 32.5 M - 40.0 M	SP		7.5 M	SPT	S-31/23	R	R	R	R	
24	34.5					SPT	S-31/24	R	R	R	R	
25	36.0					SPT	S-31/25	R	R	R	R	
26	37.5					SPT	S-31/26	R	R	R	R	
27	39.0					SPT	S-31/27	R	R	R	R	
28	40.0					SPT	S-31/28	R	R	R	R	

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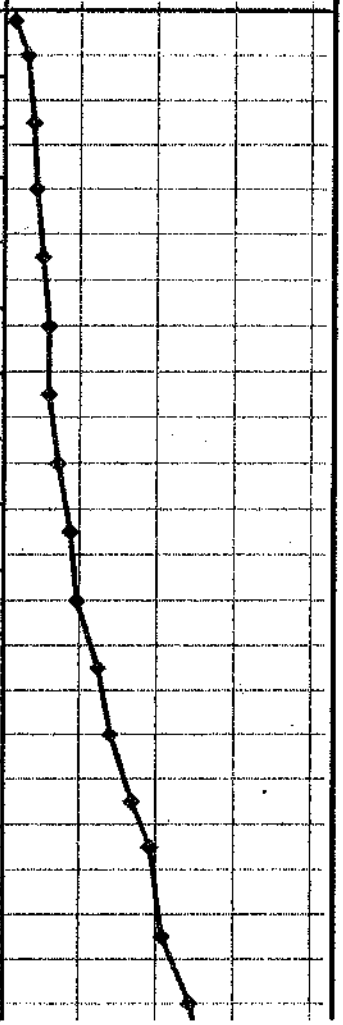
PROJECT :- GEOTECHNICAL INVESTIGATION REPORT FOR REDEVELOPMENT OF BOTANICAL GARDEN OF INDIAN REPUBLIC NOIDA.

CLIENT :- EXECUTIVE ENGINEER (P) NOIDA CENTRAL DIVISION CPWD, NEW DELHI

Location :	AS PER LOCATION MAP	**Start Date**	-
Ground Water Level :	AT 10.9 M DEPTH	**End Date**	-
Type of Boring :	MECHANICAL/AUGER DRILLING	**Starting Depth**	E.G.L.
Diameter of Boring :	150 mm	**Termination Depth**	40.0 mtr.

S.No.	Depth from EGL (m)	Soil Type: Description of Strata	IS Classification	Symbolic Representation	Thickness of Strata	Sample: Type	Sample No.	Penetration Value: at 15 cm	at 30 cm	at 45 cm	SPT N-VALUE
1	0.75	SOFT CONSISTENCY CLAY UPTO 0.78 M	CL		0.78 M	SPT	S-32/1	2	2	2	4.0
2	1.50	LOOSE SILTY SAND WITH CLAY MIXTURE 0.78 M -3.50 M			2.72 M	SPT	S-32/2	3	4	4	8.0
3	3.00					SPT	S-32/3	4	4	6	10.0
4	4.50	MEDIUM DENSE-DENSE FINE SAND 3.50 M - 21.2 M	SP		17.7 M	SPT	S-32/4	4	4	7	11.0
5	6.00					SPT	S-32/5	5	6	7	13.0
6	7.50					SPT	S-32/6	5	7	8	15.0
7	9.00					SPT	S-32/7	7	7	8	15.0
8	10.5					SPT	S-32/8	7	8	10	18.0
9	12.0					SPT	S-32/9	10	10	12	22.0
10	13.5					SPT	S-32/10	11	12	12	24.0
11	15.0					SPT	S-32/11	13	14	17	31.0
12	16.5					SPT	S-32/12	15	16	19	35.0
13	18.0					SPT	S-32/13	16	20	22	42.0
14	19.0					SPT	S-32/14	16	21	25	48.0
15	21.0					SPT	S-32/15	20	25	27	52.0
16	22.5					SPT	S-32/16	23	30	31	61.0

SPT 'N' PROFILE



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PROJECT :- GEOTECHNICAL INVESTIGATION REPORT FOR REDEVELOPMENT OF BOTANICAL GARDEN OF INDIAN REPUBLIC NOIDA.

CLIENT :- EXECUTIVE ENGINEER (P) NOIDA CENTRAL DIVISION CPWD, NEW DELHI

Location :	AS PER LOCATION MAP	**Start Date**	-
Ground Water Level :	AT 10.9 M DEPTH	**End Date**	-
Type of Boring :	MECHANICAL/AUGER DRILLING	**Starting Depth**	E.G.L.
Diameter of Boring :	150 mm	**Termination Depth**	40.0 mtr.

S.No.	Depth from EGL (m)	Soil Type: Description of Strata	IS Classification	Symbolic Representation	Thickness of Strata	Sample: Type	Sample: Sample No.	Penetration Value: at 15 cm	at 30 cm	at 45 cm	SPT N-VALUE	SPT 'N' PROFILE: Depth v/s SPT N-value Graph (0.0 / 25.0 / 50.0 / 75.0 / 100.0)
17	24.0	VERY STIFF-HARD CONSISTENCY CLAY WITH MEDIUM PLASTICITY 21.2 M - 32.0 M	CL		10.8 M	SPT	S-32/17	28	31	35	66.0	
18	25.5					SPT	S-32/18	47	R	R	R	
19	27.0					SPT	S-32/19	R	R	R	R	
20	28.5					SPT	S-32/20	R	R	R	R	
21	30.0					SPT	S-32/21	R	R	R	R	
22	31.5					SPT	S-32/22	R	R	R	R	
23	33.0	VERY DENSE FINE SAND 32.0 M - 40.0 M	SP		8.0 M	SPT	S-32/23	R	R	R	R	
24	34.5					SPT	S-32/24	R	R	R	R	
25	36.0					SPT	S-32/25	R	R	R	R	
26	37.5					SPT	S-32/26	R	R	R	R	
27	39.0					SPT	S-32/27	R	R	R	R	
28	40.0					SPT	S-32/28	R	R	R	R	

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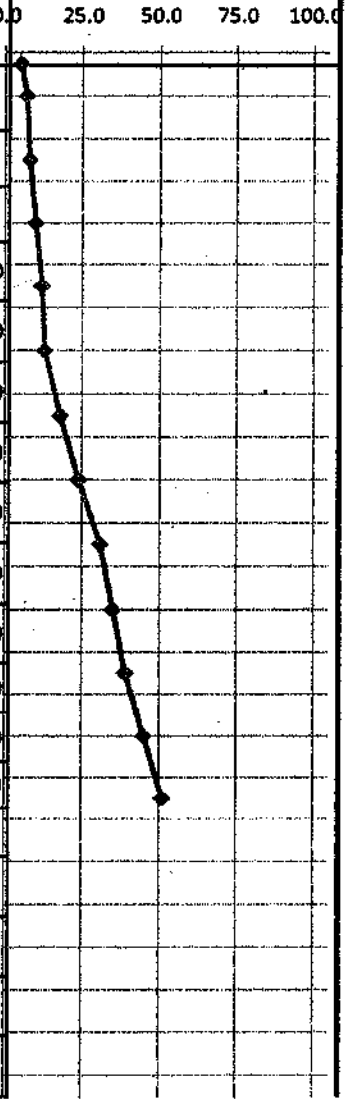
PROJECT :- GEOTECHNICAL INVESTIGATION REPORT FOR REDEVELOPMENT OF BOTANICAL GARDEN OF INDIAN REPUBLIC NOIDA.

CLIENT :- EXECUTIVE ENGINEER (P) NOIDA CENTRAL DIVISION CPWD, NEW DELHI

Location :	AS PER LOCATION MAP	**Start Date**	-
Ground Water Level :	AT 14.2 M DEPTH	**End Date**	-
Type of Boring :	MECHANICAL/AUGER DRILLING	**Starting Depth**	E.G.L.
Diameter of Boring :	150 mm	**Termination Depth**	40.0 mtr.

S.No.	Depth from EGL (m)	Soil Type: Description of Strata	IS Classification	Symbolic Representation	Thickness of Strata	Sample: Type	Sample: Sample No.	Penetration Value: at 15 cm	at 30 cm	at 45 cm	SPT N-VALUE
1	0.75	SOFT CONSISTENCY CLAY UPTO 0.75 M	CL		0.75 M	SPT	S-33/1	2	2	3	5.0
2	1.50	LOOSE SILTY SAND WITH CLAY MIXTURE 0.75 M - 4.60 M	SP		3.85 M	SPT	S-33/2	2	3	4	7.0
3	3.00					SPT	S-33/3	3	4	4	8.0
4	4.50	MEDIUM DENSE-DENSE FINE SAND 4.6 M - 15.0 M			10.4 M	SPT	S-33/4	4	5	5	10.0
5	6.00					SPT	S-33/5	5	6	6	12.0
6	7.50					SPT	S-33/6	5	6	7	13.0
7	9.00					SPT	S-33/7	7	8	10	18.0
8	10.5					SPT	S-33/8	9	11	13	24.0
9	12.0					SPT	S-33/9	11	14	17	31.0
10	13.5					SPT	S-33/10	12	16	19	35.0
11	15.0	VERY STIFF-HARD CONSISTENCY CLAY 15.0 M - 17.7 M	CL		2.70 M	SPT	S-33/11	12	18	21	39.0
12	16.5					SPT	S-33/12	14	20	25	45.0
13	18.0	VERY DENSE FINE SAND 17.7 M - 20.0 M	SP		2.30 M	SPT	S-33/13	16	22	29	51.0
14	19.0					SPT	S-33/14	18	25	33	R
15	21.0	VERY DENSE SILTY SAND WITH CLAY MIXTURE 20.0 M - 29.2 M	SM		9.2 M	SPT	S-33/15	20	28	37	R
16	22.5					SPT	S-33/16	20	31	40	R
17	24.0					SPT	S-33/17	23	33	41	R
18	25.5					SPT	S-33/18	25	35	43	R

SPT 'N' PROFILE



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PROJECT :- GEOTECHNICAL INVESTIGATION REPORT FOR REDEVELOPMENT OF BOTANICAL GARDEN OF INDIAN REPUBLIC NOIDA.

CLIENT :- EXECUTIVE ENGINEER (P) NOIDA CENTRAL DIVISION CPWD, NEW DELHI

Location :	AS PER LOCATION MAP	**Start Date**	-
Ground Water Level :	AT 14.2 M DEPTH	**End Date**	-
Type of Boring :	MECHANICAL/AUGER DRILLING	**Starting Depth**	E.G.L.
Diameter of Boring :	150 mm	**Termination Depth**	40.0 mtr.

S.No.	Depth from EGL (m)	Soil Type: Description of Strata	Soil Type: IS Classification	Soil Type: Symbolic Representation	Soil Type: Thickness of Strata	Sample: Type	Sample: Sample No.	Penetration Value: at 15 cm	Penetration Value: at 30 cm	Penetration Value: at 45 cm	Penetration Value: SPT N-VALUE	SPT 'N' PROFILE: Depth v/s SPT N-value Graph (0.0 25.0 50.0 75.0 100.0)
19	27.0					SPT	S-33/19	29	38	47	R	
20	28.5					SPT	S-33/20	35	42	50	R	
21	30.0					SPT	S-33/21	10	18	R	R	
22	31.5					SPT	S-33/22	R	R	R	R	
23	33.0					SPT	S-33/23	R	R	R	R	
24	34.5	VERY DENSE FINE SAND 29.20 M - 40.0 M	SP		10.8 M	SPT	S-33/24	R	R	R	R	
25	36.0					SPT	S-33/25	R	R	R	R	
26	37.5					SPT	S-33/26	R	R	R	R	
27	39.0					SPT	S-33/27	R	R	R	R	
28	40.0					SPT	S-33/28	R	R	R	R	

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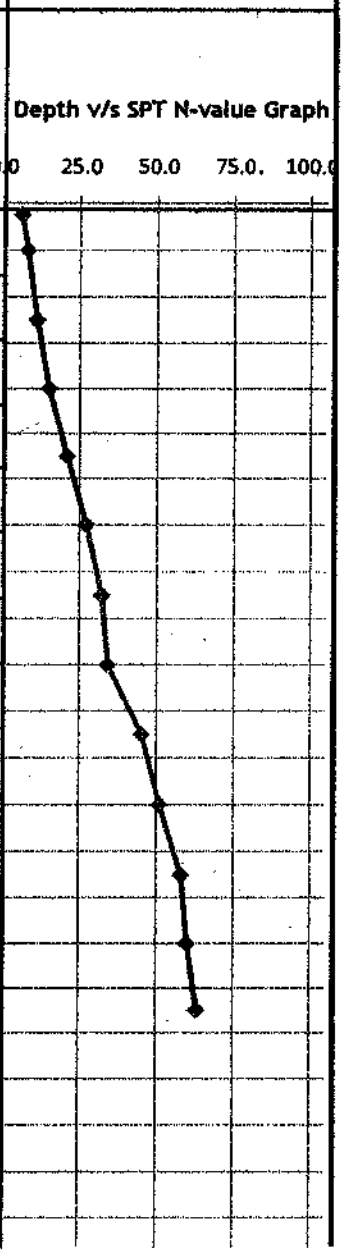
PROJECT :- GEOTECHNICAL INVESTIGATION REPORT FOR REDEVELOPMENT OF BOTANICAL GARDEN OF INDIAN REPUBLIC NOIDA.

CLIENT :- EXECUTIVE ENGINEER (P) NOIDA CENTRAL DIVISION CPWD, NEW DELHI

Location :	AS PER LOCATION MAP	Start Date	-
Ground Water Level :	AT 12.6 M DEPTH	End Date	-
Type of Boring :	MECHANICAL/AUGER DRILLING	Starting Depth	E.G.L.
Diameter of Boring :	150 mm	Termination Depth	40.0 mtr.

S.No.	Depth from EGL (m)	Soil Type: Description of Strata	IS Classification	Symbolic Representation	Thickness of Strata	Sample: Type	Sample No.	Penetration Value: at 15 cm	at 30 cm	at 45 cm	SPT N-VALUE
1	0.75	SOFT CONSISTENCY CLAY UPTO 0.65 M	CL		0.65 M	SPT	S-34/1	2	3	3	6.0
2	1.50	LOOSE SILTY SAND WITH CLAY MIXTURE	SP		1.25 M	SPT	S-34/2	3	3	5	8.0
3	3.00	MEDIUM DENSE-DENSE FINE SAND 1.90 M - 14.0 M			12.1 M	SPT	S-34/3	4	5	6	11.0
4	4.50					SPT	S-34/4	6	7	8	15.0
5	6.00					SPT	S-34/5	8	9	12	21.0
6	7.50					SPT	S-34/6	10	12	15	27.0
7	9.00					SPT	S-34/7	11	15	17	32.0
8	10.5					SPT	S-34/8	11	17	17	34.0
9	12.0					SPT	S-34/9	13	19	26	45.0
10	13.5					SPT	S-34/10	16	22	29	51.0
11	15.0	VERY STIFF-HARD CONSISTENCY CLAY SILT AND SAND MIXTURE	ML		2.8 M	SPT	S-34/11	19	26	32	58.0
12	16.5					SPT	S-34/12	22	27	33	60.0
13	18.0	VERY DENSE FINE SAND 16.8 M - 17.6 M	SP		0.8 M	SPT	S-34/13	27	29	34	63.0
14	19.0	HARD CLAY WITH MEDIUM CONSISTENCY 17.6 -22.0 M	CL		4.4 M	SPT	S-34/14	31	31	40	R
15	21.0					SPT	S-34/15	35	40	45	R
16	22.5	VERY DENSE SAND AND SILTY CLAY	SM		2.2 M	SPT	S-34/16	41	R	R	R

SPT 'N' PROFILE



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PROJECT :- GEOTECHNICAL INVESTIGATION REPORT FOR REDEVELOPMENT OF BOTANICAL GARDEN OF INDIAN REPUBLIC NOIDA.

CLIENT :- EXECUTIVE ENGINEER (P) NOIDA CENTRAL DIVISION CPWD, NEW DELHI

Location :	AS PER LOCATION MAP	**Start Date**	-
Ground Water Level :	AT 12.6 M DEPTH	**End Date**	-
Type of Boring :	MECHANICAL/AUGER DRILLING	**Starting Depth**	E.G.L.
Diameter of Boring :	150 mm	**Termination Depth**	40.0 mtr.

S. No.	Depth from EGL (m)	Soil Type: Description of Strata	IS Classification	Symbolic Representation	Thickness of Strata	Sample: Type	Sample: Sample No.	Penetration Value: at 15 cm	at 30 cm	at 45 cm	SPT N-VALUE	SPT 'N' PROFILE: Depth v/s SPT N-value Graph (0.0 / 25.0 / 50.0 / 75.0 / 100.0)
17	24.0	VERY DENSE FINE SAND 24.2 M - 30.0 M	SP		5.8 M	SPT	S-34/17	20	37	R	R	
18	25.5					SPT	S-34/18	20	38	R	R	
19	27.0					SPT	S-34/19	21	39	R	R	
20	28.5					SPT	S-34/20	22	41	R	R	
21	30.0	HARD CLAY WITH MEDIUM PLASTICITY 30.0 M - 34.0 M	CL		4.0 M	SPT	S-34/21	22	42	48	R	
22	31.5					SPT	S-34/22	29	48	50	R	
23	33.0					SPT	S-34/23	35	R	R	R	
24	34.5	VERY DENSE FINE SAND 34.0 M - 40.0 M	SP		6.0 M	SPT	S-34/24	42	R	R	R	
25	36.0					SPT	S-34/25	45	R	R	R	
26	37.5					SPT	S-34/26	45	R	R	R	
27	39.0					SPT	S-34/27	R	R	R	R	
28	40.0					SPT	S-34/28	R	R	R	R	

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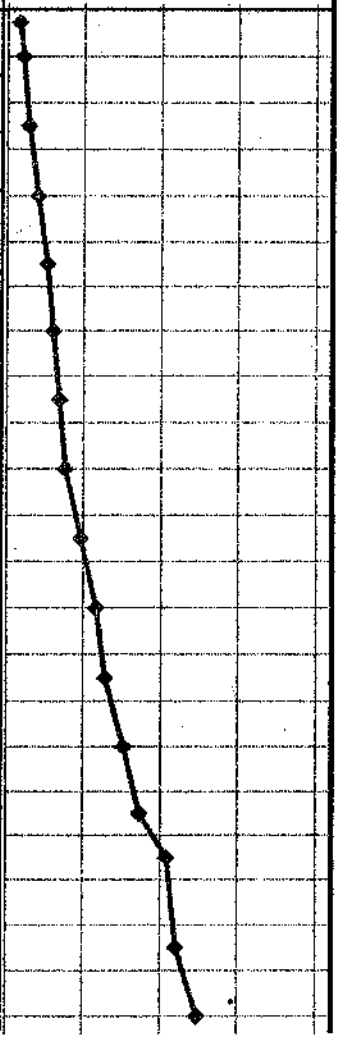
PROJECT :- GEOTECHNICAL INVESTIGATION REPORT FOR REDEVELOPMENT OF BOTANICAL GARDEN OF INDIAN REPUBLIC NOIDA.

CLIENT :- EXECUTIVE ENGINEER (P) NOIDA CENTRAL DIVISION CPWD, NEW DELHI

Location :	AS PER LOCATION MAP	Start Date	-
Ground Water Level :	AT 11.4 M DEPTH	End Date	-
Type of Boring :	MECHANICAL/AUGER DRILLING	Starting Depth	E.G.L.
Diameter of Boring :	150 mm	Termination Depth	40.0 mtr.

S.No.	Depth from EGL (m)	Soil Type: Description of Strata	IS Classification	Symbolic Representation	Thickness of Strata	Sample: Type	Sample No.	Penetration Value: at 15 cm	at 30 cm	at 45 cm	SPT N-VALUE
1	0.75	SOFT CONSISTENCY CLAY UPTO 0.75 M	CL		0.75 M	SPT	S-35/1	2	2	2	4.0
2	1.50	LOOSE SILTY SAND WITH CLAY MIXTURE 0.75 M - 4.50 M			3.75 M	SPT	S-35/2	3	2	3	5.0
3	3.00					SPT	S-35/3	4	3	4	7.0
4	4.50	MEDIUM DENSE-DENSE FINE SAND 4.50 M - 21.9 M	SP		17.4 M	SPT	S-35/4	4	5	5	10.0
5	6.00					SPT	S-35/5	5	6	7	13.0
6	7.50					SPT	S-35/6	7	7	9	15.0
7	9.00					SPT	S-35/7	8	8	9	17.0
8	10.5					SPT	S-35/8	9	9	10	19.0
9	12.0					SPT	S-35/9	10	12	12	24.0
10	13.5					SPT	S-35/10	12	14	15	29.0
11	15.0					SPT	S-35/11	13	14	18	32.0
12	16.5					SPT	S-35/12	15	17	21	38.0
13	18.0					SPT	S-35/13	16	19	24	43.0
14	19.0					SPT	S-35/14	20	22	30	52.0
15	21.0					SPT	S-35/15	23	24	31	55.0
16	22.5					SPT	S-35/16	25	25	37	62.0

SPT 'N' PROFILE



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PROJECT :- GEOTECHNICAL INVESTIGATION REPORT FOR REDEVELOPMENT OF BOTANICAL GARDEN OF INDIAN REPUBLIC NOIDA.

CLIENT :- EXECUTIVE ENGINEER (P) NOIDA CENTRAL DIVISION CPWD, NEW DELHI

Location :	AS PER LOCATION MAP	**Start Date**	-
Ground Water Level :	AT 11.4 M DEPTH	**End Date**	-
Type of Boring :	MECHANICAL/AUGER DRILLING	**Starting Depth**	E.G.L.
Diameter of Boring :	150 mm	**Termination Depth**	40.0 mtr.

S.No.	Depth from EGL (m)	Soil Type: Description of Strata	IS Classification	Symbolic Representation	Thickness of Strata	Sample: Type	Sample: Sample No.	Penetration Value: at 15 cm	at 30 cm	at 45 cm	SPT N-VALUE	SPT 'N' PROFILE: Depth v/s SPT N-value Graph (0.0 25.0 50.0 75.0 100.)
17	24.0	HARD CONSISTENCY CLAY SOIL WITH MEDIUM PLASTICITY 21.9 M - 30.8 M	CL		8.9 M	SPT	S-35/17	25	28	41	69.0	
18	25.5					SPT	S-35/18	32	42	R	R	
19	27.0					SPT	S-35/19	35	46	49	R	
20	28.5					SPT	S-35/20	39	49	R	R	
21	30.0					SPT	S-35/21	45	R	R	R	
22	31.5	VERY DENSE FINE SAND 30.8 M - 40.0 M	SP		9.2 M	SPT	S-35/22	R	R	R	R	
23	33.0					SPT	S-35/23	R	R	R	R	
24	34.5					SPT	S-35/24	R	R	R	R	
25	36.0					SPT	S-35/25	R	R	R	R	
26	37.5					SPT	S-35/26	R	R	R	R	
27	39.0					SPT	S-35/27	R	R	R	R	
28	40.0					SPT	S-35/28	R	R	R	R	

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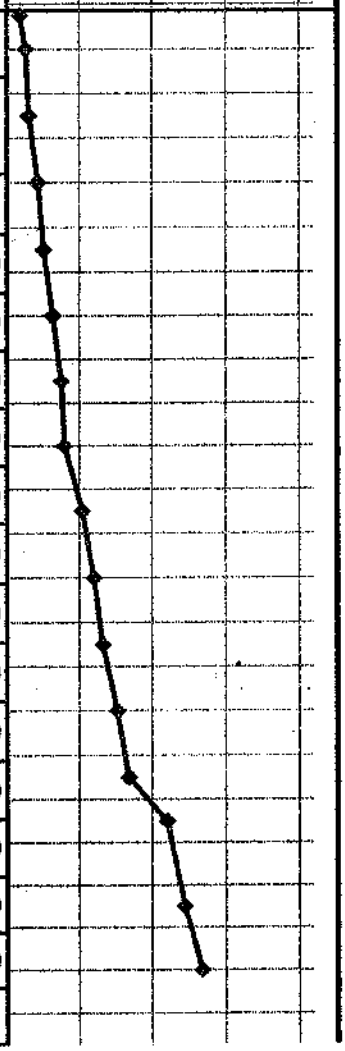
PROJECT :- GEOTECHNICAL INVESTIGATION REPORT FOR REDEVELOPMENT OF BOTANICAL GARDEN OF INDIAN REPUBLIC NOIDA.

CLIENT :- EXECUTIVE ENGINEER (P) NOIDA CENTRAL DIVISION CPWD, NEW DELHI

Location :	AS PER LOCATION MAP	Start Date	-
Ground Water Level :	AT 12.7 M DEPTH	End Date	-
Type of Boring :	MECHANICAL/AUGER DRILLING	Starting Depth	E.G.L.
Diameter of Boring :	150 mm	Termination Depth	40.0 mtr.

S.No.	Depth from EGL (m)	Soil Type: Description of Strata	IS Classification	Symbolic Representation	Thickness of Strata	Sample: Type	Sample: Sample No.	Penetration Value: at 15 cm	at 30 cm	at 45 cm	SPT N-VALUE
1	0.75	SOFT CONSISTENCY CLAY UPTO 0.85 M	CL		0.85 M	SPT	S-36/1	2	2	3	5.0
2	1.50	LOOSE SILTY SAND WITH CLAY MIXTURE 0.85 M -3.80 M			2.95 M	SPT	S-36/2	3	3	4	7.0
3	3.00	MEDIUM DENSE-DENSE FINE SAND 3.80 M - 22.7 M	SP		18.9 M	SPT	S-36/3	4	3	5	8.0
4	4.50					SPT	S-36/4	4	5	6	11.0
5	6.00					SPT	S-36/5	6	6	7	13.0
6	7.50					SPT	S-36/6	7	8	8	16.0
7	9.00					SPT	S-36/7	8	9	10	19.0
8	10.5					SPT	S-36/8	7	10	10	20.0
9	12.0					SPT	S-36/9	10	11	15	26.0
10	13.5					SPT	S-36/10	11	12	18	30.0
11	15.0					SPT	S-36/11	13	15	18	33.0
12	16.5					SPT	S-36/12	16	16	22	38.0
13	18.0					SPT	S-36/13	21	20	22	42.0
14	19.0					SPT	S-36/14	23	26	29	55.0
15	21.0					SPT	S-36/15	26	28	33	61.0
16	22.5					SPT	S-36/16	32	32	35	67.0
17	24.0					SPT	S-36/17	43	47	R	R

SPT 'N' PROFILE



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PROJECT :- GEOTECHNICAL INVESTIGATION REPORT FOR REDEVELOPMENT OF BOTANICAL GARDEN OF INDIAN REPUBLIC NOIDA.

CLIENT :- EXECUTIVE ENGINEER (P) NOIDA CENTRAL DIVISION CPWD, NEW DELHI

Location :	AS PER LOCATION MAP	**Start Date**	-
Ground Water Level :	AT 12.7 M DEPTH	**End Date**	-
Type of Boring :	MECHANICAL/AUGER DRILLING	**Starting Depth**	E.G.L.
Diameter of Boring :	150 mm	**Termination Depth**	40.0 mtr.

S.No.	Depth from EGL (m)	Soil Type: Description of Strata	IS Classification	Symbolic Representation	Thickness of Strata	Sample: Type	Sample: Sample No.	Penetration Value: at 15 cm	at 30 cm	at 45 cm	SPT N-VALUE	SPT 'N' PROFILE: Depth v/s SPT N-value Graph (0.0 25.0 50.0 75.0 100.0)
18	25.5	HARD CLAY WITH MEDIUM PLASTICITY 22.7 M - 32.5 M	CL		9.80 M	SPT	S-36/18	47	R	R	R	
19	27.0					SPT	S-36/19	R	R	R	81.0	
20	28.5					SPT	S-36/20	R	R	R	89.0	
21	30.0					SPT	S-36/21	R	R	R	92.0	
22	31.5					SPT	S-36/22	R	R	R	R	
23	33.0	VERY DENSE FINE SAND 32.5 M - 40.0 M	SP		7.50 M	SPT	S-36/23	R	R	R	R	
24	34.5					SPT	S-36/24	R	R	R	R	
25	36.0					SPT	S-36/25	R	R	R	R	
26	37.5					SPT	S-36/26	R	R	R	R	
27	39.0					SPT	S-36/27	R	R	R	R	
28	40.0					SPT	S-36/28	R	R	R	R	

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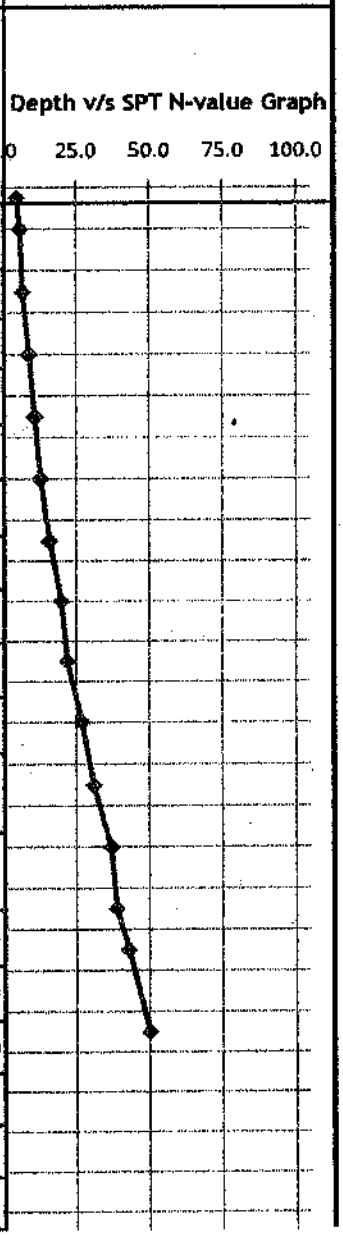
PROJECT :- GEOTECHNICAL INVESTIGATION REPORT FOR REDEVELOPMENT OF BOTANICAL GARDEN OF INDIAN REPUBLIC NOIDA.

CLIENT :- EXECUTIVE ENGINEER (P) NOIDA CENTRAL DIVISION CPWD, NEW DELHI

Location :	AS PER LOCATION MAP	**Start Date**	-
Ground Water Level :	AT 14.70 M DEPTH	**End Date**	-
Type of Boring :	MECHANICAL/AUGER DRILLING	**Starting Depth**	E.G.L.
Diameter of Boring :	150 mm	**Termination Depth**	40.0 mtr.

S.No.	Depth from EGL (m)	Soil Type: Description of Strata	IS Classification	Symbolic Representation	Thickness of Strata	Sample: Type	Sample No.	Penetration Value: at 15 cm	at 30 cm	at 45 cm	SPT N-VALUE
1	0.75	SOFT CONSISTENCY CLAY UPTO 0.78 M	CL		0.78 M	SPT	S-37/1	2	2	3	5.0
2	1.50	LOOSE SILTY SAND WITH CLAY MIXTURE 0.78 M - 3.40 M	SP		2.62 M	SPT	S-37/2	2	3	3	6.0
3	3.00					SPT	S-37/3	3	3	4	7.0
4	4.50	MEDIUM DENSE-DENSE FINE SAND 3.40 M - 15.8 M			12.4 M	SPT	S-37/4	4	4	5	9.0
5	6.00					SPT	S-37/5	4	5	6	11.0
6	7.50					SPT	S-37/6	5	5	8	13.0
7	9.00					SPT	S-37/7	5	7	9	16.0
8	10.5					SPT	S-37/8	7	9	11	20.0
9	12.0					SPT	S-37/9	9	10	12	22.0
10	13.5					SPT	S-37/10	11	12	15	27.0
11	15.0	VERY STIFF-HARD CONSISTENCY CLAY WITH MEDIUM PLASTICITY 15.8 M - 18.20 M	CL		2.40 M	SPT	S-37/11	12	14	17	31.0
12	16.5					SPT	S-37/12	14	17	20	37.0
13	18.0	VERY DENSE FINE SAND 18.20 M - 20.6 M	SP		2.40 M	SPT	S-37/13	14	18	21	39.0
14	19.0					SPT	S-37/14	16	20	23	43.0
15	21.0	VERY DENSE SILTY SAND WITH CLAY MIXTURE 20.6 M - 29.4 M	SM		8.8 M	SPT	S-37/15	19	22	28	50.0
16	22.5					SPT	S-37/16	21	23	31	R
17	24.0					SPT	S-37/17	23	26	34	R
18	25.5					SPT	S-37/18	25	28	37	R

SPT 'N' PROFILE



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PROJECT :- GEOTECHNICAL INVESTIGATION REPORT FOR REDEVELOPMENT OF BOTANICAL GARDEN OF INDIAN REPUBLIC NOIDA.

CLIENT :- EXECUTIVE ENGINEER (P) NOIDA CENTRAL DIVISION CPWD, NEW DELHI

Location :	AS PER LOCATION MAP	**Start Date**	-
Ground Water Level :	AT 14.70 M DEPTH	**End Date**	-
Type of Boring :	MECHANICAL/AUGER DRILLING	**Starting Depth**	E.G.L.
Diameter of Boring :	150 mm	**Termination Depth**	40.0 mtr.

S.No.	Depth from EGL (m)	Soil Type: Description of Strata	IS Classification	Symbolic Representation	Thickness of Strata	Sample: Type	Sample: Sample No.	Penetration Value: at 15 cm	at 30 cm	at 45 cm	SPT N-VALUE	SPT 'N' PROFILE: Depth v/s SPT N-value Graph
19	27.0					SPT	S-37/19	28	33	41	R	
20	28.5					SPT	S-37/20	31	37	45	R	
21	30.0					SPT	S-37/21	32	39	48	R	
22	31.5					SPT	S-37/22	39	45	R	R	
23	33.0					SPT	S-37/23	R	R	R	R	
24	34.5	VERY DENSE FINE SAND 29.4 M - 40.0 M	SP		10.6 M	SPT	S-37/24	R	R	R	R	
25	36.0					SPT	S-37/25	R	R	R	R	
26	37.5					SPT	S-37/26	R	R	R	R	
27	39.0					SPT	S-37/27	R	R	R	R	
28	40.0					SPT	S-37/28	R	R	R	R	

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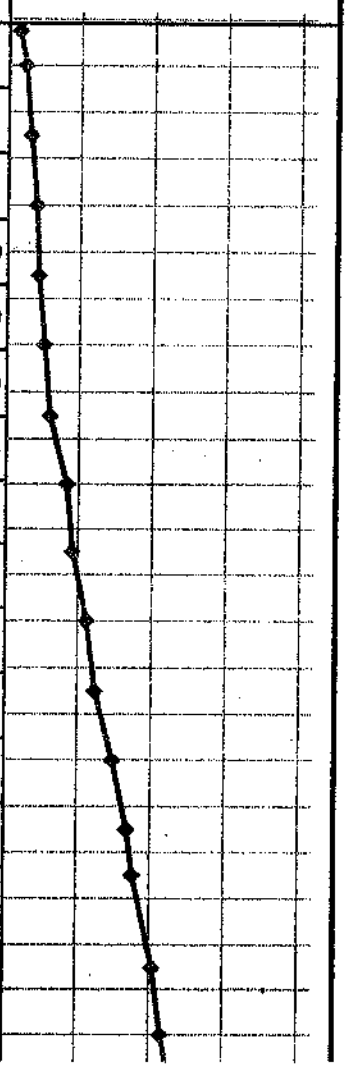
CLIENT :- EXECUTIVE ENGINEER (P) NOIDA CENTRAL DIVISION CPWD, NEW DELHI

Location :	AS PER LOCATION MAP	Start Date	-
Ground Water Level :	AT 11.5 M DEPTH	End Date	-
Type of Boring :	MECHANICAL/AUGER DRILLING	Starting Depth	E.G.L.
Diameter of Boring :	150 mm	Termination Depth	40.0 mtr.

S.No.	Depth from EGL (m)	Soil Type: Description of Strata	IS Classification	Symbolic Representation	Thickness of Strata	Sample: Type	Sample: Sample No.	Penetration Value: at 15 cm	at 30 cm	at 45 cm	SPT N-VALUE
1	0.75	SOFT CONSISTENCY CLAY UPTO 0.65 M	CL		0.65 M	SPT	S-38/1	2	2	2	4.0
2	1.50	LOOSE SILTY SAND WITH CLAY MIXTURE 0.65 M - 5.50 M	SP		4.85 M	SPT	S-38/2	2	3	3	6.0
3	3.00					SPT	S-38/3	3	4	4	8.0
4	4.50					SPT	S-38/4	4	4	6	10.0
5	6.00	MEDIUM DENSE-DENSE FINE SAND 5.50 M - 21.8 M			16.3 M	SPT	S-38/5	5	5	6	11.0
6	7.50					SPT	S-38/6	5	5	8	13.0
7	9.00					SPT	S-38/7	5	6	9	15.0
8	10.5					SPT	S-38/8	7	10	11	21.0
9	12.0					SPT	S-38/9	10	11	12	23.0
10	13.5					SPT	S-38/10	11	12	16	28.0
11	15.0					SPT	S-38/11	13	14	17	31.0
12	16.5					SPT	S-38/12	15	18	19	37.0
13	18.0					SPT	S-38/13	14	20	22	42.0
14	19.0					SPT	S-38/14	17	21	23	44.0
15	21.0					SPT	S-38/15	20	22	29	51.0
16	22.5					SPT	S-38/16	21	23	31	54.0

SPT 'N' PROFILE



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PROJECT :- GEOTECHNICAL INVESTIGATION REPORT FOR REDEVELOPMENT OF BOTANICAL GARDEN OF INDIAN REPUBLIC NOIDA.

CLIENT :- EXECUTIVE ENGINEER (P) NOIDA CENTRAL DIVISION CPWD, NEW DELHI

Location :	AS PER LOCATION MAP	Start Date	-
Ground Water Level :	AT 11.5 M DEPTH	End Date	-
Type of Boring :	MECHANICAL/AUGER DRILLING	Starting Depth	E.G.L.
Diameter of Boring :	150 mm	Termination Depth	40.0 mtr.

S.No.	Depth from EGL (m)	Soil Type: Description of Strata	IS Classification	Symbolic Representation	Thickness of Strata	Sample: Type	Sample: Sample No.	Penetration Value: at 15 cm	at 30 cm	at 45 cm	SPT N-VALUE	SPT 'N' PROFILE: Depth v/s SPT N-value Graph (0 / 25.0 / 50.0 / 75.0 / 100.0)
17	24.0	HARD CONSISTENCY CLAY WITH MEDIUM PLASTICITY 21.8 M - 32.8 M	CL		11.0 M	SPT	S-38/17	24	25	34	59.0	
18	25.5					SPT	S-38/18	27	26	37	63.0	
19	27.0					SPT	S-38/19	28	33	41	R	
20	28.5					SPT	S-38/20	31	37	45	R	
21	30.0					SPT	S-38/21	32	39	48	R	
22	31.5					SPT	S-38/22	39	45	R	R	
23	33.0	VERY DENSE FINE SAND 32.8 M - 40.0 M	SP		7.20 M	SPT	S-38/23	R	R	R	R	
24	34.5					SPT	S-38/24	R	R	R	R	
25	36.0					SPT	S-38/25	R	R	R	R	
26	37.5					SPT	S-38/26	R	R	R	R	
27	39.0					SPT	S-38/27	R	R	R	R	
28	40.0					SPT	S-38/28	R	R	R	R	

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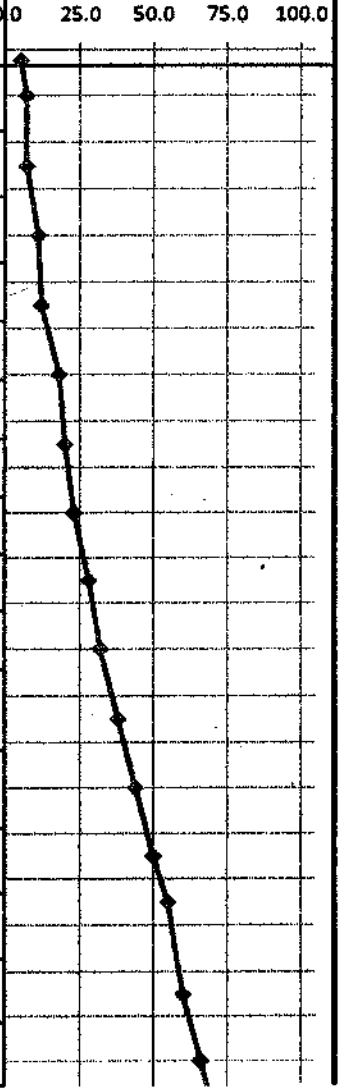
PROJECT :- GEOTECHNICAL INVESTIGATION REPORT FOR REDEVELOPMENT OF BOTANICAL GARDEN OF INDIAN REPUBLIC NOIDA.

CLIENT :- EXECUTIVE ENGINEER (P) NOIDA CENTRAL DIVISION CPWD, NEW DELHI

Location :	AS PER LOCATION MAP	**Start Date**	-
Ground Water Level :	AT 14.6 M DEPTH	**End Date**	-
Type of Boring :	MECHANICAL/AUGER DRILLING	**Starting Depth**	E.G.L.
Diameter of Boring :	150 mm	**Termination Depth**	40.0 mtr.

S.No.	Depth from EGL (m)	Soil Type: Description of Strata	IS Classification	Symbolic Representation	Thickness of Strata	Sample: Type	Sample: Sample No.	Penetration Value: at 15 cm	at 30 cm	at 45 cm	SPT N-VALUE
1	0.75	SOFT CONSISTENCY CLAY UPTO 0.78 M	CL		0.78 M	SPT	S-39/1	2	2	3	5.0
2	1.50	LOOSE SILTY SAND WITH CLAY MIXTURE 0.78 M - 2.65 M	SM		1.87 M	SPT	S-39/2	2	3	4	7.0
3	3.00					SPT	S-39/3	3	3	4	7.0
4	4.50	MEDIUM DENSE-DENSE FINE SAND 2.65 M - 14.3 M	SP		11.65 M	SPT	S-39/4	4	5	6	11.0
5	6.00					SPT	S-39/5	4	6	6	12.0
6	7.50					SPT	S-39/6	6	8	10	18.0
7	9.00					SPT	S-39/7	7	9	11	20.0
8	10.5					SPT	S-39/8	7	11	12	23.0
9	12.0					SPT	S-39/9	11	13	15	28.0
10	13.5					SPT	S-39/10	12	14	18	32.0
11	15.0	VERY STIFF-HARD CONSISTENCY CLAY WITH MEDIUM PLASTICITY 14.3 M - 16.8 M	CL		2.50 M	SPT	S-39/11	12	17	21	38.0
12	16.5					SPT	S-39/12	15	20	24	44.0
13	18.0					SPT	S-39/13	18	23	27	50.0
14	19.0					SPT	S-39/14	21	26	29	55.0
15	21.0					SPT	S-39/15	22	28	32	60.0
16	22.5					SPT	S-39/16	22	31	35	66.0

SPT 'N' PROFILE



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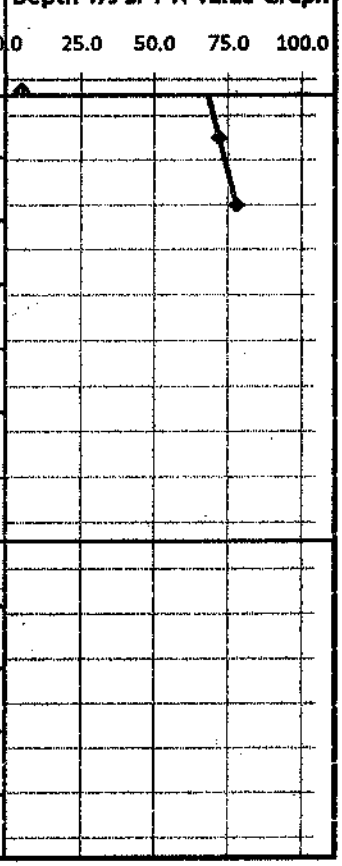
CLIENT :- EXECUTIVE ENGINEER (P) NOIDA CENTRAL DIVISION CPWD, NEW DELHI

Location :	AS PER LOCATION MAP	**Start Date**	-
Ground Water Level :	AT 14.6 M DEPTH	**End Date**	-
Type of Boring :	MECHANICAL/AUGER DRILLING	**Starting Depth**	E.G.L.
Diameter of Boring :	150 mm	**Termination Depth**	40.0 mtr.

S.No.	Depth from EGL (m)	Soil Type: Description of Strata	IS Classification	Symbolic Representation	Thickness of Strata	Sample: Type	Sample: Sample No.	Penetration Value: at 15 cm	at 30 cm	at 45 cm	SPT N-VALUE
17	24.0	VERY DENSE FINE SAND 16.8 M - 40.0 M	SP		23.2 M	SPT	S-39/17	24	33	39	72.0
18	25.5					SPT	S-39/18	25	37	41	78.0
19	27.0					SPT	S-39/19	27	40	43	R
20	28.5					SPT	S-39/20	30	43	46	R
21	30.0					SPT	S-39/21	35	47	50	R
22	31.5					SPT	S-39/22	41	R	R	R
23	33.0					SPT	S-39/23	R	R	R	R
24	34.5					SPT	S-39/24	R	R	R	R
25	36.0					SPT	S-39/25	R	R	R	R
26	37.5					SPT	S-39/26	R	R	R	R
27	39.0					SPT	S-39/27	R	R	R	R
28	40.0					SPT	S-39/28	R	R	R	R

SPT 'N' PROFILE



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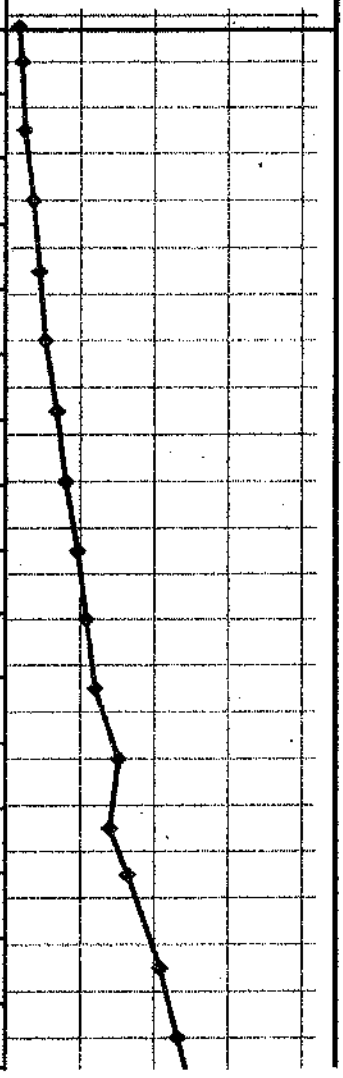
CLIENT :- EXECUTIVE ENGINEER (P) NOIDA CENTRAL DIVISION CPWD, NEW DELHI

Location :	AS PER LOCATION MAP	Start Date	-
Ground Water Level :	AT 14.8 M DEPTH	End Date	-
Type of Boring :	MECHANICAL/AUGER DRILLING	Starting Depth	E.G.L.
Diameter of Boring :	150 mm	Termination Depth	40.0 mtr.

S.No.	Depth from EGL (m)	Soil Type: Description of Strata	IS Classification	Symbolic Representation	Thickness of Strata	Sample: Type	Sample: Sample No.	Penetration Value: at 15 cm	at 30 cm	at 45 cm	SPT N-VALUE
1	0.75	SOFT CONSISTENCY CLAY UPTO 0.70 M	CL		0.70 M	SPT	S-40/1	2	2	2	4.0
2	1.50	LOOSE SILTY SAND WITH CLAY MIXTURE 0.70 M - 2.40 M	SM		1.70 M	SPT	S-40/2	2	2	3	5.0
3	3.00					SPT	S-40/3	3	3	3	6.0
4	4.50	MEDIUM DENSE-DENSE FINE SAND 2.40 M - 14.8 M	SP		12.40 M	SPT	S-40/4	3	4	5	9.0
5	6.00					SPT	S-40/5	3	5	6	11.0
6	7.50					SPT	S-40/6	4	6	7	13.0
7	9.00					SPT	S-40/7	5	7	10	17.0
8	10.5					SPT	S-40/8	7	9	11	20.0
9	12.0					SPT	S-40/9	9	11	13	24.0
10	13.5					SPT	S-40/10	10	12	15	27.0
11	15.0	VERY STIFF-HARD CONSISTENCY CLAY WITH MEDIUM PLASTICITY	CL		2.50 M	SPT	S-40/11	11	14	16	30.0
12	16.5					SPT	S-40/12	12	17	21	38.0
13	18.0					SPT	S-40/13	12	15	20	35.0
14	19.0					SPT	S-40/14	14	18	23	41.0
15	21.0					SPT	S-40/15	18	23	29	52.0
16	22.5					SPT	S-40/16	22	26	32	58.0

SPT 'N' PROFILE



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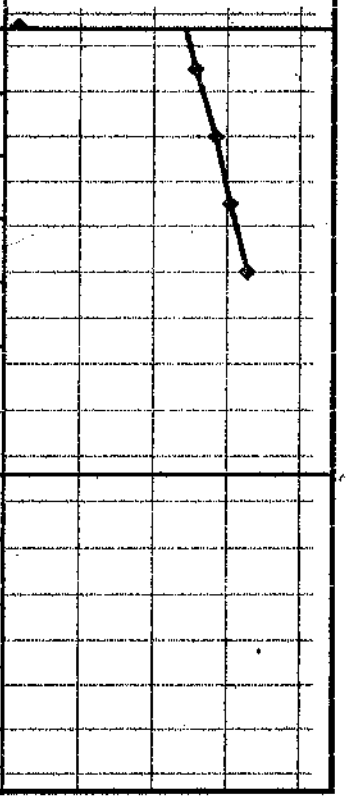
CLIENT :- EXECUTIVE ENGINEER (P) NOIDA CENTRAL DIVISION CPWD, NEW DELHI

Location :	AS PER LOCATION MAP	Start Date	-
Ground Water Level :	AT 14.8 M DEPTH	End Date	-
Type of Boring :	MECHANICAL/AUGER DRILLING	Starting Depth	E.G.L.
Diameter of Boring :	150 mm	Termination Depth	40.0 mtr.

S.No.	Depth from EGL (m)	Soil Type: Description of Strata	IS Classification	Symbolic Representation	Thickness of Strata	Sample: Type	Sample: Sample No.	Penetration Value: at 15 cm	at 30 cm	at 45 cm	SPT N-VALUE
17	24.0	VERY DENSE FINE SAND 17.3 M - 40.0 M	SP		22.70 M	SPT	S-40/17	24	29	35	64.0
18	25.5					SPT	S-40/18	27	32	39	71.0
19	27.0					SPT	S-40/19	30	34	42	76.0
20	28.5					SPT	S-40/20	32	37	45	82.0
21	30.0					SPT	S-40/21	34	40	48	R
22	31.5					SPT	S-40/22	38	45	R	R
23	33.0					SPT	S-40/23	R	R	R	R
24	34.5					SPT	S-40/24	R	R	R	R
25	36.0					SPT	S-40/25	R	R	R	R
26	37.5					SPT	S-40/26	R	R	R	R
27	39.0					SPT	S-40/27	R	R	R	R
28	40.0					SPT	S-40/28	R	R	R	R

SPT 'N' PROFILE



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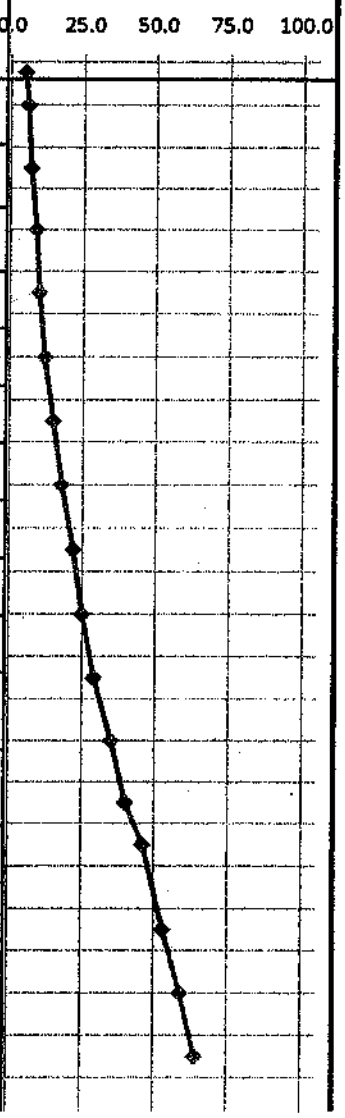
PROJECT :- GEOTECHNICAL INVESTIGATION REPORT FOR REDEVELOPMENT OF BOTANICAL GARDEN OF INDIAN REPUBLIC NOIDA.

CLIENT :- EXECUTIVE ENGINEER (P) NOIDA CENTRAL DIVISION CPWD, NEW DELHI

Location :	AS PER LOCATION MAP	Start Date	-
Ground Water Level :	AT 14.6 M DEPTH	End Date	-
Type of Boring :	MECHANICAL/AUGER DRILLING	Starting Depth	E.G.L.
Diameter of Boring :	150 mm	Termination Depth	40.0 mtr.

S.No.	Depth from EGL (m)	Soil Type: Description of Strata	IS Classification	Symbolic Representation	Thickness of Strata	Sample: Type	Sample: Sample No.	Penetration Value: at 15 cm	at 30 cm	at 45 cm	SPT N-VALUE
1	0.75	SOFT CONSISTENCY CLAY UPTO 0.75 M	CL		0.75 M	SPT	S-41/1	2	2	3	5.0
2	1.50	LOOSE SILTY SAND WITH CLAY MIXTURE 0.75 M - 2.20 M	SM		1.45 M	SPT	S-41/2	3	3	3	6.0
3	3.00					SPT	S-41/3	3	3	4	7.0
4	4.50	MEDIUM DENSE-DENSE FINE SAND 2.20 M - 14.5 M	SP		12.3 M	SPT	S-41/4	4	4	5	9.0
5	6.00					SPT	S-41/5	4	5	5	10.0
6	7.50					SPT	S-41/6	4	6	6	12.0
7	9.00					SPT	S-41/7	5	7	8	15.0
8	10.5					SPT	S-41/8	6	8	10	18.0
9	12.0					SPT	S-41/9	8	10	12	22.0
10	13.5					SPT	S-41/10	9	11	14	25.0
11	15.0	VERY STIFF-HARD CONSISTENCY CLAY WITH MEDIUM PLASTICITY 14.5 M - 17.65 M	CL		3.15 M	SPT	S-41/11	11	13	16	29.0
12	16.5					SPT	S-41/12	13	16	19	35.0
13	18.0					SPT	S-41/13	15	18	22	40.0
14	19.0					SPT	S-41/14	17	21	25	46.0
15	21.0					SPT	S-41/15	18	24	29	53.0
16	22.5					SPT	S-41/16	20	27	32	59.0
17	24.0					SPT	S-41/17	21	29	35	64.0

SPT 'N' PROFILE.



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PROJECT :- GEOTECHNICAL INVESTIGATION REPORT FOR REDEVELOPMENT OF BOTANICAL GARDEN OF INDIAN REPUBLIC NOIDA.

CLIENT :- EXECUTIVE ENGINEER (P) NOIDA CENTRAL DIVISION CPWD, NEW DELHI

Location :	AS PER LOCATION MAP	**Start Date**	-
Ground Water Level :	AT 14.6 M DEPTH	**End Date**	-
Type of Boring :	MECHANICAL/AUGER DRILLING	**Starting Depth**	E.G.L.
Diameter of Boring :	150 mm	**Termination Depth**	40.0 mtr.

S.No.	Depth from EGL (m)	Soil Type: Description of Strata	Soil Type: IS Classification	Soil Type: Symbolic Representation	Soil Type: Thickness of Strata	Sample: Type	Sample: Sample No.	Penetration Value: at 15 cm	Penetration Value: at 30 cm	Penetration Value: at 45 cm	Penetration Value: SPT N-VALUE	SPT 'N' PROFILE: Depth v/s SPT N-value Graph (0.0 25.0 50.0 75.0 100.0)
18	25.5	VERY DENSE FINE SAND 17.65 M - 40.0 M	SP		22.35 M	SPT	S-41/18	23	32	39	R	
19	27.0					SPT	S-41/19	27	35	43	R	
20	28.5					SPT	S-41/20	30	39	R	R	
21	30.0					SPT	S-41/21	R	R	R	R	
22	31.5					SPT	S-41/22	R	R	R	R	
23	33.0					SPT	S-41/23	R	R	R	R	
24	34.5					SPT	S-41/24	R	R	R	R	
25	36.0					SPT	S-41/25	R	R	R	R	
26	37.5					SPT	S-41/26	R	R	R	R	
27	39.0					SPT	S-41/27	R	R	R	R	
28	40.0					SPT	S-41/28	R	R	R	R	

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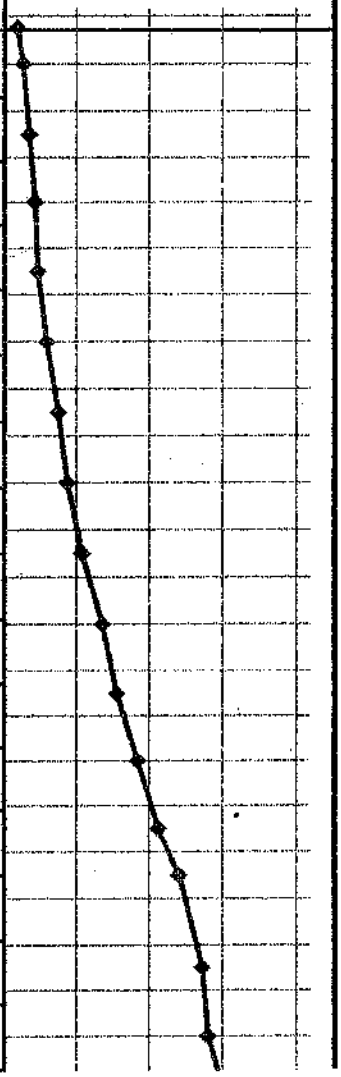
PROJECT :- GEOTECHNICAL INVESTIGATION REPORT FOR REDEVELOPMENT OF BOTANICAL GARDEN OF INDIAN REPUBLIC NOIDA.

CLIENT :- EXECUTIVE ENGINEER (P) NOIDA CENTRAL DIVISION CPWD, NEW DELHI

Location :	AS PER LOCATION MAP	**Start Date**	-
Ground Water Level :	AT 14.7 M DEPTH	**End Date**	-
Type of Boring :	MECHANICAL/AUGER DRILLING	**Starting Depth**	E.G.L.
Diameter of Boring :	150 mm	**Termination Depth**	40.0 mtr.

S.No.	Depth from EGL (m)	Soil Type: Description of Strata	IS Classification	Symbolic Representation	Thickness of Strata	Sample: Type	Sample No.	Penetration Value: at 15 cm	at 30 cm	at 45 cm	SPT N-VALUE
1	0.75	SOFT CONSISTENCY CLAY UPTO 0.85 M	CL		0.85 M	SPT	S-42/1	2	2	3	5.0
2	1.50	LOOSE SILTY SAND WITH CLAY MIXTURE 0.85 M - 4.40 M			3.55 M	SPT	S-42/2	2	3	4	7.0
3	3.00					SPT	S-42/3	3	4	5	9.0
4	4.50	MEDIUM DENSE-DENSE FINE SAND 4.40 M - 14.8 M	SP		10.4 M	SPT	S-42/4	4	5	6	11.0
5	6.00					SPT	S-42/5	5	6	6	12.0
6	7.50					SPT	S-42/6	6	7	8	15.0
7	9.00					SPT	S-42/7	8	9	10	19.0
8	10.5					SPT	S-42/8	10	10	12	22.0
9	12.0					SPT	S-42/9	12	12	15	27.0
10	13.5					SPT	S-42/10	13	15	19	34.0
11	15.0	VERY STIFF-HARD CONSISTENCY CLAY WITH MEDIUM PLASTICITY 14.8 M - 23.7 M	CL		8.90 M	SPT	S-42/11	15	17	22	39.0
12	16.5					SPT	S-42/12	17	20	26	46.0
13	18.0					SPT	S-42/13	20	23	30	53.0
14	19.0					SPT	S-42/14	22	27	33	60.0
15	21.0					SPT	S-42/15	24	30	38	68.0
16	22.5					SPT	S-42/16	25	30	40	70.0

SPT 'N' PROFILE



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CLIENT :- EXECUTIVE ENGINEER (P) NOIDA CENTRAL DIVISION CPWD, NEW DELHI

Location :	AS PER LOCATION MAP	**Start Date**	-
Ground Water Level :	AT 14.7 M DEPTH	**End Date**	-
Type of Boring :	MECHANICAL/AUGER DRILLING	**Starting Depth**	E.G.L.
Diameter of Boring :	150 mm	**Termination Depth**	40.0 mtr.

S. No.	Depth from EGL (m)	Soil Type: Description of Strata	IS Classification	Symbolic Representation	Thickness of Strata	Sample: Type	Sample No.	Penetration Value: at 15 cm	at 30 cm	at 45 cm	SPT N-VALUE	SPT 'N' PROFILE: Depth v/s SPT N-value.Graph
17	24.0	VERY DENSE SILTY SAND AND CLAY MIXTURE	SM		1.3 M	SPT	S-42/17	26	35	42	77.0	
18	25.5	VERY DENSE FINE SAND 25.2 M - 40.0 M	SP		14.8 M	SPT	S-42/18	26	37	44	81.0	
19	27.0					SPT	S-42/19	29	41	48	R	
20	28.5					SPT	S-42/20	34	45	50	R	
21	30.0					SPT	S-42/21	40	R	R	R	
22	31.5					SPT	S-42/22	R	R	R	R	
23	33.0					SPT	S-42/23	R	R	R	R	
24	34.5					SPT	S-42/24	R	R	R	R	
25	36.0					SPT	S-42/25	R	R	R	R	
26	37.5					SPT	S-42/26	R	R	R	R	
27	39.0					SPT	S-42/27	R	R	R	R	
28	40.0					SPT	S-42/28	R	R	R	R	

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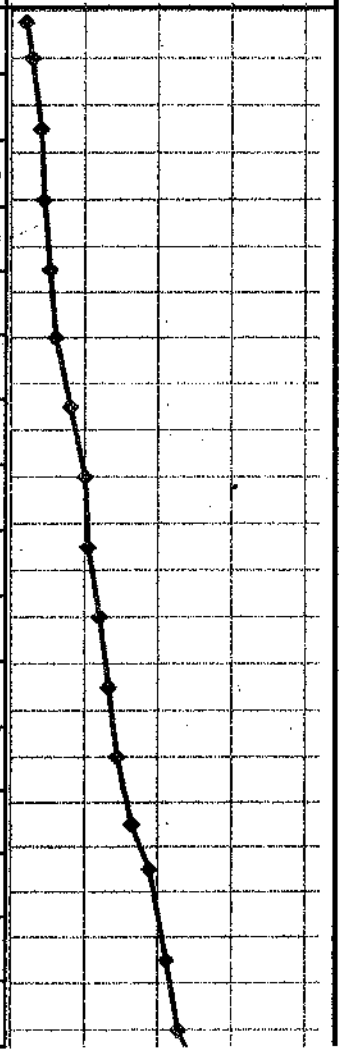
PROJECT :- GEOTECHNICAL INVESTIGATION REPORT FOR REDEVELOPMENT OF BOTANICAL GARDEN OF INDIAN REPUBLIC NOIDA.

CLIENT :- EXECUTIVE ENGINEER (I) NOIDA CENTRAL DIVISION CPWD, NEW DELHI

Location :	AS PER LOCATION MAP	Start Date	-
Ground Water Level :	AT 13.5 M DEPTH	End Date	-
Type of Boring :	MECHANICAL/AUGER DRILLING	Starting Depth	E.G.L.
Diameter of Boring :	150 mm	Termination Depth	40.0 mtr.

S. No.	Depth from EGL (m)	Soil Type: Description of Strata	IS Classification	Symbolic Representation	Thickness of Strata	Sample: Type	Sample: Sample No.	Penetration Value: at 15 cm	at 30 cm	at 45 cm	SPT N-VALUE
1	0.75	SOFT CONSISTENCY CLAY UPTO 0.72 M	CL		0.72 M	SPT	S-43/1	2	2	3	5.0
2	1.50	LOOSE SILTY SAND WITH CLAY MIXTURE 0.72 M - 2.85 M			2.13 M	SPT	S-43/2	3	3	4	7.0
3	3.00					SPT	S-43/3	4	5	5	10.0
4	4.50	MEDIUM DENSE-DENSE FINE SAND 2.85 M - 22.8 M	SP		19.95 M	SPT	S-43/4	5	6	5	11.0
5	6.00					SPT	S-43/5	6	6	7	13.0
6	7.50					SPT	S-43/6	7	8	7	15.0
7	9.00					SPT	S-43/7	8	9	11	20.0
8	10.5					SPT	S-43/8	10	12	13	25.0
9	12.0					SPT	S-43/9	11	12	14	26.0
10	13.5					SPT	S-43/10	13	14	16	30.0
11	15.0					SPT	S-43/11	15	16	17	33.0
12	16.5					SPT	S-43/12	16	17	19	36.0
13	18.0					SPT	S-43/13	18	20	21	41.0
14	19.0					SPT	S-43/14	21	23	24	47.0
15	21.0					SPT	S-43/15	25	27	26	53.0
16	22.5					SPT	S-43/16	27	28	29	57.0

SPT 'N' PROFILE



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CLIENT :- EXECUTIVE ENGINEER (P) NOIDA CENTRAL DIVISION CPWD, NEW DELHI

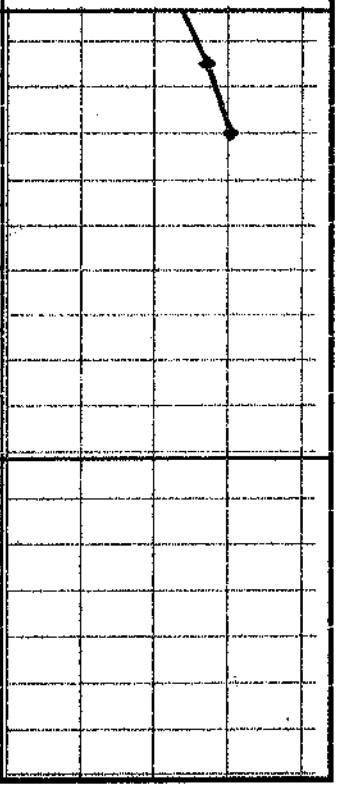
Location :	AS PER LOCATION MAP	**Start Date**	-
Ground Water Level :	AT 13.5 M DEPTH	**End Date**	-
Type of Boring :	MECHANICAL/AUGER DRILLING	**Starting Depth**	E.G.L.
Diameter of Boring :	150 mm	**Termination Depth**	40.0 mtr.

S.No.	Depth from EGL (m)	Soil Type: Description of Strata	IS Classification	Symbolic Representation	Thickness of Strata	Sample: Type	Sample: Sample No.	Penetration Value: at 15 cm	at 30 cm	at 45 cm	SPT N-VALUE
17	24.0	HARD CONSISTENCY CLAY WITH MEDIUM PLASTICITY 22.8 M - 32.0 M			9.2 M	SPT	S-43/17	30	33	35	68.0
18	25.5					SPT	S-43/18	36	37	39	76.0
19	27.0					SPT	S-43/19	37	41	43	R
20	28.5					SPT	S-43/20	43	45	47	R
21	30.0					SPT	S-43/21	46	48	49	R
22	31.5					SPT	S-43/22	49	49	50	R
23	33.0	VERY DENSE FINE SAND 32.0 M - 40.0 M	SP		8.0 M	SPT	S-43/23	50	R	R	R
24	34.5					SPT	S-43/24	R	R	R	R
25	36.0					SPT	S-43/25	R	R	R	R
26	37.5					SPT	S-43/26	R	R	R	R
27	39.0					SPT	S-43/27	R	R	R	R
28	40.0					SPT	S-43/28	R	R	R	R

SPT 'N' PROFILE

Depth v/s SPT N-value Graph

0.0 25.0 50.0 75.0 100.0



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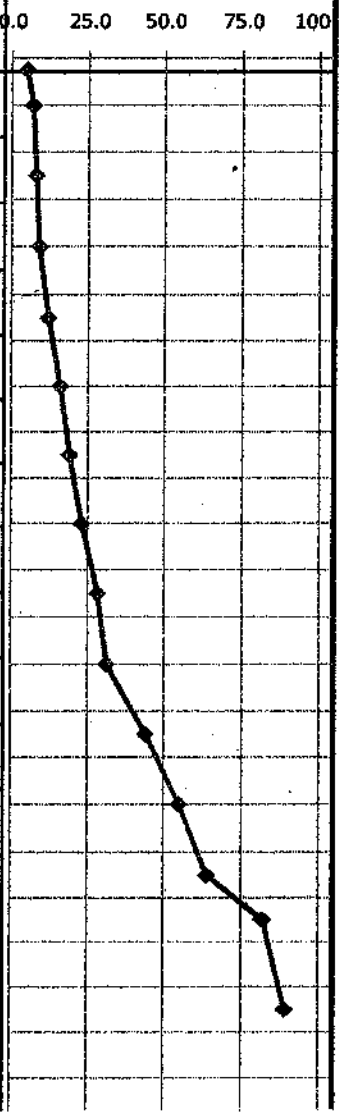
CLIENT :- EXECUTIVE ENGINEER (P) NOIDA CENTRAL DIVISION CPWD, NEW DELHI

Location :	AS PER LOCATION MAP	Start Date	-
Ground Water Level :	AT 12.5 M DEPTH	End Date	-
Type of Boring :	MECHANICAL/AUGER DRILLING	Starting Depth	E.G.L.
Diameter of Boring :	150 mm	Termination Depth	40.0 mtr.

S.No.	Depth from EGL (m)	Soil Type: Description of Strata	IS Classification	Symbolic Representation	Thickness of Strata	Sample: Type	Sample: Sample No.	Penetration Value: at 15 cm	at 30 cm	at 45 cm	SPT N-VALUE
1	0.75	SOFT CONSISTENCY CLAY UPTO 0.70 M	CL		0.70 M	SPT	S-44/1	2	2	3	5.0
2	1.50	LOOSE SILTY SAND WITH CLAY MIXTURE			1.30 M	SPT	S-44/2	2	3	4	7.0
3	3.00					SPT	S-44/3	3	3	5	8.0
4	4.50					SPT	S-44/4	4	4	5	9.0
5	6.00					SPT	S-44/5	5	6	6	12.0
6	7.50					SPT	S-44/6	5	7	9	16.0
7	9.00					SPT	S-44/7	6	9	10	19.0
8	10.5					SPT	S-44/8	9	11	12	23.0
9	12.0	MEDIUM DENSE-DENSE FINE SAND 2.0 M - 23.0 M	SP		21.0 M	SPT	S-44/9	11	13	15	28.0
10	13.5					SPT	S-44/10	12	14	17	31.0
11	15.0					SPT	S-44/11	14	19	25	44.0
12	16.5					SPT	S-44/12	20	24	31	55.0
13	18.0					SPT	S-44/13	24	29	35	64.0
14	19.0					SPT	S-44/14	29	38	44	82.0
15	21.0					SPT	S-44/15	35	41	48	89.0
16	22.5					SPT	S-44/16	40	R	R	R

SPT 'N' PROFILE



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CLIENT :- EXECUTIVE ENGINEER (P) NOIDA CENTRAL DIVISION CPWD, NEW DELHI

Location :	AS PER LOCATION MAP	Start Date	-
Ground Water Level :	AT 12.5 M DEPTH	End Date	-
Type of Boring :	MECHANICAL/AUGER DRILLING	Starting Depth	E.G.L.
Diameter of Boring :	150 mm	Termination Depth	40.0 mtr.

S.No.	Depth from EGL (m)	Soil Type: Description of Strata	IS Classification	Symbolic Representation	Thickness of Strata	Sample: Type	Sample: Sample No.	Penetration Value: at 15 cm	at 30 cm	at 45 cm	SPT N-VALUE	SPT 'N' PROFILE: Depth v/s SPT N-value Graph (0.0 25.0 50.0 75.0 100)
17	24.0	HARD CONSISTENCY CLAY WITH MEDIUM PLASTICITY 23.0 M - 33.5 M	CL		10.5 M	SPT	S-44/17	R	R	R	R	
18	25.5					SPT	S-44/18	R	R	R	R	
19	27.0					SPT	S-44/19	R	R	R	R	
20	28.5					SPT	S-44/20	R	R	R	R	
21	30.0					SPT	S-44/21	R	R	R	R	
22	31.5					SPT	S-44/22	R	R	R	R	
23	33.0	VERY DENSE FINE SAND 33.5 M- 40.0 M	SP		6.50 M	SPT	S-44/23	R	R	R	R	
24	34.5					SPT	S-44/24	R	R	R	R	
25	36.0					SPT	S-44/25	R	R	R	R	
26	37.5					SPT	S-44/26	R	R	R	R	
27	39.0					SPT	S-44/27	R	R	R	R	
28	40.0					SPT	S-44/28	R	R	R	R	

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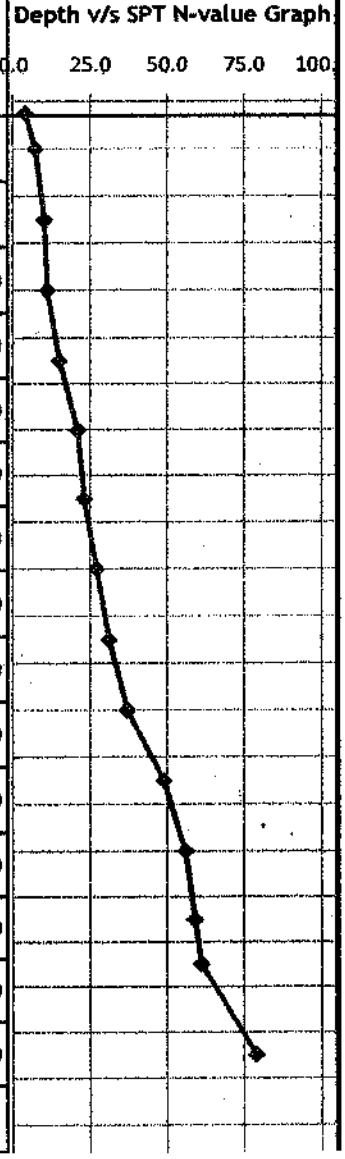
PROJECT :- GEOTECHNICAL INVESTIGATION REPORT FOR REDEVELOPMENT OF BOTANICAL GARDEN OF INDIAN REPUBLIC NOIDA.

CLIENT :- EXECUTIVE ENGINEER (P) NOIDA CENTRAL DIVISION CPWD, NEW DELHI

Location :	AS PER LOCATION MAP	Start Date	-
Ground Water Level :	AT 13.40 M DEPTH	End Date	-
Type of Boring :	MECHANICAL/AUGER DRILLING	Starting Depth	E.G.L.
Diameter of Boring :	150 mm	Termination Depth	40.0 mtr.

S.No.	Depth from EGL (m)	Soil Type: Description of Strata	IS Classification	Symbolic Representation	Thickness of Strata	Sample: Type	Sample: Sample No.	Penetration Value: at 15 cm	at 30 cm	at 45 cm	SPT N-VALUE
1	0.75	SOFT CONSISTENCY CLAY UPTO 0.71 M	CL		0.71 M	SPT	S-45/1	2	2	2	4.0
2	1.50	LOOSE SILTY SAND WITH CLAY MIXTURE 0.71 M - 2.50 M	SP		1.79 M	SPT	S-45/2	3	3	4	7.0
3	3.00					SPT	S-45/3	4	5	5	10.0
4	4.50	MEDIUM DENSE-DENSE FINE SAND 2.50 M - 13.0 M			10.5 M	SPT	S-45/4	4	4	7	11.0
5	6.00					SPT	S-45/5	7	7	8	15.0
6	7.50					SPT	S-45/6	9	10	11	21.0
7	9.00					SPT	S-45/7	11	11	12	23.0
8	10.5					SPT	S-45/8	12	14	13	27.0
9	12.0					SPT	S-45/9	12	16	15	31.0
10	13.5	DENSE-VERY DENSE FINE SAND 13.0 M - 31.5 M			18.5 M	SPT	S-45/10	15	17	20	37.0
11	15.0					SPT	S-45/11	19	20	29	49.0
12	16.5					SPT	S-45/12	19	24	32	56.0
13	18.0					SPT	S-45/13	22	27	32	59.0
14	19.0					SPT	S-45/14	24	28	33	61.0
15	21.0					SPT	S-45/15	31	36	43	79.0
16	22.5					SPT	S-45/16	47	50	R	R

SPT 'N' PROFILE



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BORE LOG SHEET (as per IS 1892:1979)

PROJECT :- GEOTECHNICAL INVESTIGATION REPORT FOR REDEVELOPMENT OF BOTANICAL GARDEN OF INDIAN REPUBLIC NOIDA.

CLIENT :- EXECUTIVE ENGINEER (P) NOIDA CENTRAL DIVISION CPWD, NEW DELHI

Location :	AS PER LOCATION MAP	Start Date	-
Ground Water Level :	AT 13.40 M DEPTH	End Date	-
Type of Boring :	MECHANICAL/AUGER DRILLING	Starting Depth	E.G.L.
Diameter of Boring :	150 mm	Termination Depth	40.0 mtr.

S.No.	Depth from EGL (m)	Soil Type: Description of Strata	Soil Type: IS Classification	Soil Type: Symbolic Representation	Soil Type: Thickness of Strata	Sample: Type	Sample: Sample No.	Penetration Value: at 15 cm	Penetration Value: at 30 cm	Penetration Value: at 45 cm	Penetration Value: SPT N-VALUE	SPT 'N' PROFILE: Depth v/s SPT N-value Graph (0.0 25.0 50.0 75.0 100.)
17	24.0					SPT	S-45/17	R	R	R	R	
18	25.5					SPT	S-45/18	R	R	R	R	
19	27.0					SPT	S-45/19	R	R	R	R	
20	28.5					SPT	S-45/20	R	R	R	R	
21	30.0					SPT	S-45/21	R	R	R	R	
22	31.5					SPT	S-45/22	R	R	R	R	
23	33.0					SPT	S-45/23	R	R	R	R	
24	34.5	HARD CONSISTENCY OF CLAY SOIL 31.5 M - 40.0	CL		8.5 M	SPT	S-45/24	R	R	R	R	
25	36.0					SPT	S-45/25	R	R	R	R	
26	37.5					SPT	S-45/26	R	R	R	R	
27	39.0					SPT	S-45/27	R	R	R	R	
28	40.0					SPT	S-45/28	R	R	R	R	

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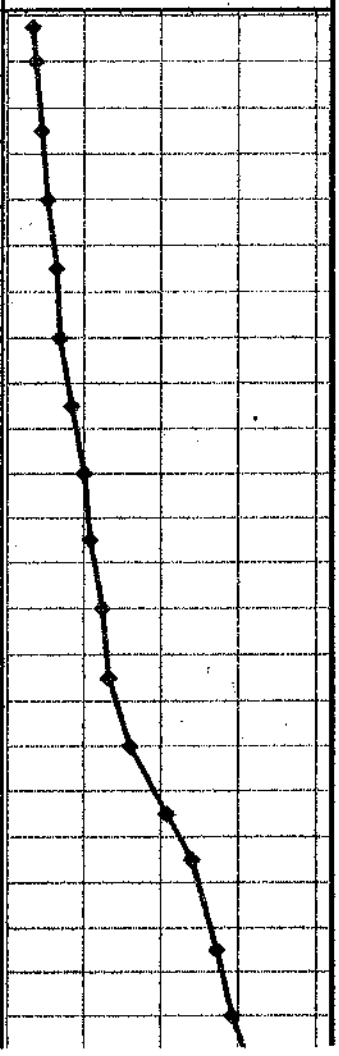
PROJECT :- GEOTECHNICAL INVESTIGATION REPORT FOR REDEVELOPMENT OF BOTANICAL GARDEN OF INDIAN REPUBLIC NOIDA.

CLIENT :- EXECUTIVE ENGINEER (P) NOIDA CENTRAL DIVISION CPWD, NEW DELHI

Location :	AS PER LOCATION MAP	Start Date	-
Ground Water Level :	AT 14.0 M DEPTH	End Date	-
Type of Boring :	MECHANICAL/AUGER DRILLING	Starting Depth	E.G.L.
Diameter of Boring :	150 mm	Termination Depth	40.0 mtr.

S.No.	Depth from EGL (m)	Soil Type				Sample		Penetration Value				SPT 'N' PROFILE
		Description of Strata	IS Classification	Symbolic Representation	Thickness of Strata	Type	Sample No.	at 15 cm	at 30 cm	at 45 cm	SPT N-VALUE	Depth v/s SPT N-value Graph
1	0.75	SOFT CONSISTENCY CLAY UPTO 0.82 M	CL		0.82 M	SPT	S-46/1	3	4	4	8.0	
2	1.50	LOOSE SILTY SAND WITH CLAY MIXTURE 0.82 M - 2.80 M			1.98 M	SPT	S-46/2	4	5	4	9.0	
3	3.00					SPT	S-46/3	4	5	6	11.0	
4	4.50	MEDIUM DENSE-DENSE FINE SAND 2.80 M - 14.8 M	SP		12.0 M	SPT	S-46/4	6	7	6	13.0	
5	6.00					SPT	S-46/5	7	8	8	16.0	
6	7.50					SPT	S-46/6	7	8	9	17.0	
7	9.00					SPT	S-46/7	9	10	11	21.0	
8	10.5					SPT	S-46/8	11	12	13	25.0	
9	12.0					SPT	S-46/9	12	14	13	27.0	
10	13.5					SPT	S-46/10	14	16	15	31.0	
11	15.0	VERY STIFF-HARD CONSISTENCY CLAY WITH MEDIUM PLASTICITY 14.8 M - 21.7 M	CL		6.9 M	SPT	S-46/11	15	17	16	33.0	
12	16.5					SPT	S-46/12	17	19	21	40.0	
13	18.0					SPT	S-46/13	23	25	27	52.0	
14	19.0					SPT	S-46/14	26	29	31	60.0	
15	21.0					SPT	S-46/15	30	33	35	68.0	
16	22.5					SPT	S-46/16	34	36	37	73.0	



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PROJECT :- GEOTECHNICAL INVESTIGATION REPORT FOR REDEVELOPMENT OF BOTANICAL GARDEN OF INDIAN REPUBLIC NOIDA.

CLIENT :- EXECUTIVE ENGINEER (P) NOIDA CENTRAL DIVISION CPWD, NEW DELHI

Location :	AS PER LOCATION MAP	Start Date	-
Ground Water Level :	AT 14.0 M DEPTH	End Date	-
Type of Boring :	MECHANICAL/AUGER DRILLING	Starting Depth	E.G.L.
Diameter of Boring :	150 mm	Termination Depth	40.0 mtr.

S.No.	Depth from EGL (m)	Soil Type: Description of Strata	IS Classification	Symbolic Representation	Thickness of Strata	Sample: Type	Sample: Sample No.	Penetration Value: at 15 cm	at 30 cm	at 45 cm	SPT N-VALUE
17	24.0	VERY DENSE FINE SAND 21.7 M -37.25 M	SP		15.55 M	SPT	S-46/17	37	40	41	81.0
18	25.5					SPT	S-46/18	42	44	43	87.0
19	27.0					SPT	S-46/19	45	46	48	R
20	28.5					SPT	S-46/20	45	47	49	R
21	30.0					SPT	S-46/21	48	49	50	R
22	31.5					SPT	S-46/22	50	R	R	R
23	33.0					SPT	S-46/23	R	R	R	R
24	34.5					SPT	S-46/24	R	R	R	R
25	36.0					SPT	S-46/25	R	R	R	R
26	37.5	VERY STIFF-HARD CONSISTENCY CLAY WITH MEDIUM PLASTICITY 37.25 M - 40.0 M	CI		2.75 M	SPT	S-46/26	R	R	R	R
27	39.0					SPT	S-46/27	R	R	R	R
28	40.0					SPT	S-46/28	R	R	R	R

SPT 'N' PROFILE

Depth v/s SPT N-value Graph

0.0 25.0 50.0 75.0 100.

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PROJECT :- GEOTECHNICAL INVESTIGATION REPORT FOR REDEVELOPMENT OF BOTANICAL GARDEN OF INDIAN REPUBLIC NOIDA.	STARTING DEPTH	0.0 M	WATER TABLE DEPTH
CLIENT :-EXECUTIVE ENGINEER (P) NOIDA CENTRAL DIVISION CPWD, NEW DELHI	TERMINATION DEPTH	40.0 M	16.5 M

BORE LOG SHEET

Sample					Symbolic representation	Grain Size Analysis			Atterberg limit			Density		Moisture Content (%)	Shear Parameters				Specific Gravity
Depth (m)	Sample No	Sample Type	Observed N-Value	Corrected N-value		Gravel (%)	Sand (%)	Silt Clay (%)	Liquid limit (%)	Plastic Limit (%)	Plasticity index	Bulk Density (gm/cc)	Dry Density (gm/cc)		Cohesion, c (t/m2)	Angle of Internal Friction,	Coefficant of consolidation, Cc	Void Ratio, eo	
0.75	S-1/1	SPT	4.0	6.8	CL	0.0	15.0	85.0	-	-	-	-	-	2.8	-	-	-	-	-
1.50	S-1/2	SPT	7.0	10.2	SP	0.0	72.0	28.0	-	-	-	1.69	1.63	3.5	0.8	23.0	-	-	2.42
3.00	S-1/3	SPT	8.0	9.8	SP	0.0	78.0	22.0	NP	NP	NP	-	-	3.9	-	-	-	-	-
4.50	S-1/4	SPT	12.0	13.1	SP	-	-	-	NP	NP	NP	-	-	-	-	25.0	-	-	-
6.00	S-1/5	SPT	19.0	18.9	SP	0.0	93.0	7.0	NP	NP	NP	1.73	1.64	5.8	-	-	-	-	2.48
7.50	S-1/6	SPT	21.0	19.3	SP	-	-	-	NP	NP	NP	-	-	-	-	-	-	-	-
9.00	S-1/7	SPT	25.0	21.4	SP	2.0	91.0	7.0	NP	NP	NP	1.79	1.67	7.2	-	30.0	-	-	-
10.50	S-1/8	SPT	34.0	27.4	SP	-	-	-	NP	NP	NP	-	-	-	-	-	-	-	-
12.00	S-1/9	SPT	52.0	39.6	SP	5.0	89.0	6.0	NP	NP	NP	-	-	8.3	-	-	-	-	-
13.50	S-1/10	SPT	61.0	44.0	SP	-	-	-	NP	NP	NP	-	-	-	-	-	-	-	-

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PROJECT :- GEOTECHNICAL INVESTIGATION REPORT FOR REDEVELOPMENT OF BOTANICAL GARDEN OF INDIAN REPUBLIC NOIDA.	STARTING DEPTH	0.0 M	WATER TABLE DEPTH
CLIENT :-EXECUTIVE ENGINEER (P) NOIDA CENTRAL DIVISION CPWD, NEW DELHI	TERMINATION DEPTH	40.0 M	16.5 M

BORE LOG SHEET

Sample					Symbolic representation	Grain Size Analysis			Atterberg limit			Density		Moisture Content (%)	Shear Parameters				Specific Gravity
Depth (m)	Sample No	Sample Type	Observed N-Value	Corrected N-value		Gravel (%)	Sand (%)	Silt Clay (%)	Liquid limit (%)	Plastic Limit (%)	Plasticity Index	Bulk Density (gm/cc)	Dry Density (gm/cc)		Cohesion, c (t/m2)	Angle of Internal Friction,	Coefficient of consolidation, Cc	Void Ratio, eo	
15.00	S-1/11	SPT	72.0	49.4	CL	0.0	35.0	65.0	28.8	17.8	11.0	1.86	1.68	10.4	12.8	-	0.16	0.81	-
16.50	S-1/12	SPT	79.0	51.7	CL	-	-	-	-	-	-	-	-	13.7	-	-	-	-	-
18.00	S-1/13	SPT	84.0	52.6	CL	0.0	5.0	95.0	30.2	19.9	10.3	1.92	1.63	17.9	-	-	0.18	0.88	2.35
19.50	S-1/14	SPT	91.0	54.5	CL	-	-	-	-	-	-	-	-	-	-	-	-	-	-
21.00	S-1/15	SPT	98.0	56.3	CL	0.0	4.0	96.0	-	-	-	-	-	18.8	-	-	-	-	-
22.50	S-1/16	SPT	REFUSAL		ML	-	-	-	-	-	-	-	-	-	-	-	-	-	2.35
24.00	S-1/17	SPT	REFUSAL		ML	0.0	48.0	52.0	-	-	-	-	-	19.8	-	-	-	-	-
25.50	S-1/18	SPT	REFUSAL		SP	0.0	94.0	6.0	NP	NP	NP	2.20	1.84	19.6	-	-	-	-	-
27.00	S-1/19	SPT	REFUSAL		SP	-	-	-	NP	NP	NP	-	-	-	-	-	-	-	-
28.50	S-1/20	SPT	REFUSAL		SP	4.0	89.0	7.0	NP	NP	NP	-	-	19.4	-	-	-	-	-

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PROJECT :- GEOTECHNICAL INVESTIGATION REPORT FOR REDEVELOPMENT OF BOTANICAL GARDEN OF INDIAN REPUBLIC NOIDA.	STARTING DEPTH	0.0 M	WATER TABLE DEPTH
CLIENT :-EXECUTIVE ENGINEER (P) NOIDA CENTRAL DIVISION CPWD, NEW DELHI	TERMINATION DEPTH	40.0 M	16.5 M

BORE LOG SHEET

Sample					Symbolic representation	Grain Size Analysis			Atterberg limit			Density		Moisture Content (%)	Shear Parameters				Specific Gravity
Depth (m)	Sample No	Sample Type	Observed N-Value	Corrected N-value		Gravel (%)	Sand (%)	Silt Clay (%)	Liquid limit (%)	Plastic Limit (%)	Plasticity index	Bulk Density (gm/cc)	Dry Density (gm/cc)		Cohesion, c (t/m2)	Angle of Internal Friction,	Coefficient of consolidation, Cc	Void Ratio, eo	
30.00	S-1/21	SPT	REFUSAL		SP	-	-	-	NP	NP	NP	-	-	-	-	-	-	-	-
31.50	S-1/15	SPT	REFUSAL		SP	0.0	4.0	96.0	NP	NP	NP	-	-	18.8	-	-	-	-	2.46
33.00	S-1/16	SPT	REFUSAL		SP	-	-	-	NP	NP	NP	-	-	-	-	-	-	-	-
34.50	S-1/17	SPT	REFUSAL		SP	0.0	95.0	5.0	NP	NP	NP	2.28	1.90	19.8	-	-	-	-	-
36.00	S-1/18	SPT	REFUSAL		SP	-	-	-	NP	NP	NP	-	-	-	-	-	-	-	-
37.50	S-1/19	SPT	REFUSAL		SP	0.0	93.0	7.0	NP	NP	NP	2.30	1.93	19.2	-	-	-	-	2.48
39.00	S-1/20	SPT	REFUSAL		SP	-	-	-	NP	NP	NP	-	-	-	-	-	-	-	-
40.00	S-1/21	SPT	REFUSAL		SP	0.0	88.0	12.0	NP	NP	NP	-	-	19.6	-	-	-	-	-

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PROJECT :- GEOTECHNICAL INVESTIGATION REPORT FOR REDEVELOPMENT OF BOTANICAL GARDEN OF INDIAN REPUBLIC NOIDA.	STARTING DEPTH	0.0 M	WATER TABLE DEPTH
CLIENT :-EXECUTIVE ENGINEER (P) NOIDA CENTRAL DIVISION CPWD, NEW DELHI	TERMINATION DEPTH	40.0 M	15.0 M

BORE LOG SHEET

Sample					Symbolic representation	Grain Size Analysis			Atterberg limit			Density		Moisture Content (%)	Shear Parameters				Specific Gravity
Depth (m)	Sample No	Sample Type	Observed N-Value	Corrected N-value		Gravel (%)	Sand (%)	Silt Clay (%)	Liquid limit (%)	Plastic Limit (%)	Plasticity Index	Bulk Density (gm/cc)	Dry Density (gm/cc)		Cohesion, c (t/m2)	Angle of Internal Friction,	Coefficent of consolidation, Cc	Void Ratio, eo	
0.75	S-2/1	SPT	6.0	10.1	CL	0.0	19.0	81.0	-	-	-	-	-	3.8	-	-	-	-	-
1.50	S-2/2	SPT	12.0	17.5	SP	0.0	70.0	30.0	-	-	-	1.67	1.59	4.8	1.9	20.0	-	-	2.41
3.00	S-2/3	SPT	13.0	15.9	SP	0.0	89.0	11.0	NP	NP	NP	-	-	4.9	-	-	-	-	-
4.50	S-2/4	SPT	12.0	13.1	SP	-	-	-	NP	NP	NP	-	-	-	-	-	-	-	-
6.00	S-2/5	SPT	13.0	12.9	SP	0.0	87.0	13.0	NP	NP	NP	-	-	5.1	-	26.0	-	-	-
7.50	S-2/6	SPT	16.0	14.7	SP	-	-	-	NP	NP	NP	-	-	-	-	-	-	-	-
9.00	S-2/7	SPT	21.0	18.0	SP	0.0	92.0	8.0	NP	NP	NP	1.74	1.63	6.8	-	28.0	-	-	2.46
10.50	S-2/8	SPT	23.0	18.5	SP	-	-	-	NP	NP	NP	-	-	-	-	-	-	-	-
12.00	S-2/9	SPT	29.0	22.1	SP	7.0	84.0	9.0	NP	NP	NP	-	-	7.4	-	-	-	-	-
13.50	S-2/10	SPT	27.0	19.5	SP	-	-	-	NP	NP	NP	-	-	-	-	-	-	-	-

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PROJECT :- GEOTECHNICAL INVESTIGATION REPORT FOR REDEVELOPMENT OF BOTANICAL GARDEN OF INDIAN REPUBLIC NOIDA.	STARTING DEPTH	0.0 M	WATER TABLE DEPTH
CLIENT :-EXECUTIVE ENGINEER (P) NOIDA CENTRAL DIVISION CPWD, NEW DELHI	TERMINATION DEPTH	40.0 M	15.0 M

BORE LOG SHEET

Sample					Symbolic representation	Grain Size Analysis			Atterberg limit			Density		Moisture Content (%)	Shear Parameters				Specific Gravity
Depth (m)	Sample No	Sample Type	Observed N-Value	Corrected N-value		Gravel (%)	Sand (%)	Silt Clay (%)	Liquid limit (%)	Plastic Limit (%)	Plasticity Index	Bulk Density (gm/cc)	Dry Density (gm/cc)		Cohesion, c (t/m2)	Angle of Internal Friction,	Coefficent of consolidation, Cc	Void Ratio, eo	
15.00	S-2/11	SPT	31.0	21.3	CL	0.0	36.0	64.0	28.6	17.6	11.0	1.83	1.67	9.8	9.8	-	0.17	0.83	2.33
16.50	S-2/12	SPT	53.0	34.7	CL	-	-	-	-	-	-	-	-	11.2	-	-	-	-	-
18.00	S-2/13	SPT	62.0	38.8	CL	0.0	7.0	93.0	31.6	19.7	11.9	1.88	1.67	12.6	14.4	-	0.19	0.92	2.35
19.50	S-2/14	SPT	65.0	38.9	CL	-	-	-	-	-	-	-	-	-	-	-	-	-	-
21.00	S-2/15	SPT	69.0	39.6	CL	-	-	-	-	-	-	-	-	-	-	-	-	-	-
22.50	S-2/16	SPT	68.0	37.5	CL	0.0	3.0	97.0	-	-	-	-	-	14.6	-	-	-	-	2.31
24.00	S-2/17	SPT	REFUSAL		ML	0.0	49.0	51.0	-	-	-	-	-	14.8	-	-	-	-	-
25.50	S-2/18	SPT	REFUSAL		SP	0.0	94.0	6.0	NP	NP	NP	-		15.2	-	-	-	-	-
27.00	S-2/19	SPT	REFUSAL		SP	0.0	92.0	8.0	NP	NP	NP	2.18	-	17.6	-	-	-	-	-
28.50	S-2/20	SPT	REFUSAL		SP	-	-	-	NP	NP	NP	-	-	-	-	-	-	-	-

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PROJECT :- GEOTECHNICAL INVESTIGATION REPORT FOR REDEVELOPMENT OF BOTANICAL GARDEN OF INDIAN REPUBLIC NOIDA.	STARTING DEPTH	0.0 M	WATER TABLE DEPTH
CLIENT :-EXECUTIVE ENGINEER (P) NOIDA CENTRAL DIVISION CPWD, NEW DELHI	TERMINATION DEPTH	40.0 M	15.0 M

BORE LOG SHEET

Sample					Symbolic representation	Grain Size Analysis			Atterberg limit			Density		Moisture Content (%)	Shear Parameters				Specific Gravity
Depth (m)	Sample No	Sample Type	Observed N-Value	Corrected N-value		Gravel (%)	Sand (%)	Silt Clay (%)	Liquid limit (%)	Plastic Limit (%)	Plasticity index	Bulk Density (gm/cc)	Dry Density (gm/cc)		Cohesion, c (t/m2)	Angle of internal Friction,	Coefficent of consolidation, Cc	Void Ratio, eo	
30.00	S-2/21	SPT	REFUSAL		SP	-	-	-	NP	NP	NP	-	-	-	-	-	-	-	2.44
31.50	S-2/22	SPT	REFUSAL		SP	-	-	-	NP	NP	NP	-	-	18.1	-	-	-	-	-
33.00	S-2/23	SPT	REFUSAL		SP	-	-	-	NP	NP	NP	-	-	-	-	-	-	-	-
34.50	S-2/24	SPT	REFUSAL		SP	0.0	87.0	13.0	NP	NP	NP	2.34	1.98	18.4	-	-	-	-	-
36.00	S-2/25	SPT	REFUSAL		SP	-	-	-	NP	NP	NP	-	-	-	-	-	-	-	-
37.50	S-2/26	SPT	REFUSAL		SP	0.0	91.0	9.0	NP	NP	NP	-	-	18.6	-	-	-	-	-
39.00	S-2/27	SPT	REFUSAL		SP	-	-	-	NP	NP	NP	-	-	-	-	-	-	-	-
40.00	S-2/28	SPT	REFUSAL		SP	0.0	86.0	14.0	NP	NP	NP	-	-	18.9	-	-	-	-	-

SOIGNE ENGINEERING CONSULTANTS SCF 23, MM, Manimajra, Chandigarh email: soigneconsultants@gmail.com	BOREHOLE	LOCATION	JOB NO.	PAGE NO
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PROJECT :- GEOTECHNICAL INVESTIGATION REPORT FOR REDEVELOPMENT OF BOTANICAL GARDEN OF INDIAN REPUBLIC NOIDA.	STARTING DEPTH	0.0 M	WATER TABLE DEPTH
CLIENT :-EXECUTIVE ENGINEER (P) NOIDA CENTRAL DIVISION CPWD, NEW DELHI	TERMINATION DEPTH	40.0 M	13.7 M

BORE LOG SHEET

Sample					Symbolic representation	Grain Size Analysis			Atterberg limit			Density		Moisture Content (%)	Shear Parameters				Specific Gravity
Depth (m)	Sample No	Sample Type	Observed N-Value	Corrected N-value		Gravel (%)	Sand (%)	Silt Clay (%)	Liquid limit (%)	Plastic Limit (%)	Plasticity index	Bulk Density (gm/cc)	Dry Density (gm/cc)		Cohesion, c (t/m2)	Angle of Internal Friction,	Coefficent of consolidation, Cc	Void Ratio, eo	
0.75	S-3/1	SPT	5.0	8.4	CL	0.0	32.0	68.0	-	-	-	-	-	4.6	-	-	-	-	-
1.50	S-3/2	SPT	10.0	14.6	SP	0.0	71.0	29.0	-	-	-	1.69	1.60	5.7	1.5	21.0	-	-	-
3.00	S-3/3	SPT	12.0	14.7	SP	0.0	83.0	17.0	NP	NP	NP	-	-	5.9	-	-	-	-	-
4.50	S-3/4	SPT	13.0	14.2	SP	-	-	-	NP	NP	NP	-	-	-	-	25.0	-	-	2.43
6.00	S-3/5	SPT	13.0	12.9	SP	0.0	86.0	14.0	NP	NP	NP	1.75	1.59	10.1	-	-	-	-	-
7.50	S-3/6	SPT	17.0	15.6	SP	-	-	-	NP	NP	NP	-	-	-	-	-	-	-	-
9.00	S-3/7	SPT	20.0	17.2	SP	-	-	-	NP	NP	NP	-	-	-	-	-	-	-	-
10.50	S-3/8	SPT	27.0	21.8	SP	4.0	89.0	7.0	NP	NP	NP	-	-	-	-	-	-	-	-
12.00	S-3/9	SPT	32.0	24.4	SP	-	-	-	NP	NP	NP	-	-	-	-	-	-	-	2.42
13.50	S-3/10	SPT	36.0	26.0	SP	0.0	87.0	13.0	NP	NP	NP	1.79	1.59	12.8	-	31.0	-	-	-

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PROJECT :- GEOTECHNICAL INVESTIGATION REPORT FOR REDEVELOPMENT OF BOTANICAL GARDEN OF INDIAN REPUBLIC NOIDA.	STARTING DEPTH	0.0 M	WATER TABLE DEPTH
CLIENT :-EXECUTIVE ENGINEER (P) NOIDA CENTRAL DIVISION CPWD, NEW DELHI	TERMINATION DEPTH	40.0 M	13.7 M

BORE LOG SHEET

Sample					Symbolic representation	Grain Size Analysis			Atterberg limit			Density		Moisture Content (%)	Shear Parameters				Specific Gravity
Depth (m)	Sample No	Sample Type	Observed N-Value	Corrected N-value		Gravel (%)	Sand (%)	Silt Clay (%)	Liquid limit (%)	Plastic Limit (%)	Plasticity Index	Bulk Density (gm/cc)	Dry Density (gm/cc)		Cohesion, c (t/m2)	Angle of Internal Friction,	Coefficent of consolidation, Cc	Void Ratio, eo	
15.00	S-3/11	SPT	43.0	29.5	CL	-	-	-	-	-	-	-	-	-	-	-	-	-	2.33
16.50	S-3/12	SPT	50.0	32.7	CL	0.0	10.0	90.0	29.8	16.3	13.5	-	-	-	14.1	-	0.18	0.90	-
18.00	S-3/13	SPT	56.0	35.0	CL	-	-	-	-	-	-	-	-	-	-	-	-	-	2.41
19.50	S-3/14	SPT	64.0	38.3	CL	-	-	-	-	-	-	1.88	1.64	14.6	-	-	-	-	-
21.00	S-3/15	SPT	72.0	41.3	CL	0.0	11.0	89.0	30.9	16.8	14.1	-	-	-	-	-	0.19	0.90	-
22.50	S-3/16	SPT	78.0	42.9	CL	-	-	-	-	-	-	-	-	-	-	-	-	-	2.49
24.00	S-3/17	SPT	82.0	43.4	CL	-	-	-	-	-	-	-	-	-	-	-	-	-	-
25.50	S-3/18	SPT	89.0	45.3	SP	-	-	-	NP	NP	NP	-	-	-	-	-	-	-	-
27.00	S-3/19	SPT	95.0	46.6	SP	0.0	73.0	27.0	NP	NP	NP	1.97	1.70	15.8	-	-	-	-	-
28.50	S-3/20	SPT	REFUSAL		SP	-	-	-	NP	NP	NP	-	-	-	-	-	-	-	2.49

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PROJECT :- GEOTECHNICAL INVESTIGATION REPORT FOR REDEVELOPMENT OF BOTANICAL GARDEN OF INDIAN REPUBLIC NOIDA.	STARTING DEPTH	0.0 M	WATER TABLE DEPTH
CLIENT :-EXECUTIVE ENGINEER (P) NOIDA CENTRAL DIVISION CPWD, NEW DELHI	TERMINATION DEPTH	40.0 M	13.7 M

BORE LOG SHEET

Sample					Symbolic representation	Grain Size Analysis			Atterberg limit			Density		Moisture Content (%)	Shear Parameters				Specific Gravity
Depth (m)	Sample No	Sample Type	Observed N-Value	Corrected N-value		Gravel (%)	Sand (%)	Silt Clay (%)	Liquid limit (%)	Plastic Limit (%)	Plasticity Index	Bulk Density (gm/cc)	Dry Density (gm/cc)		Cohesion, c (t/m2)	Angle of Internal Friction,	Coefficent of consolidation, Cc	Void Ratio, eo	
30.00	S-3/21	SPT	REFUSAL		SP	-	-	-	NP	NP	NP	-	-	-	-	-	-	-	-
31.50	S-3/22	SPT	REFUSAL		SP	-	-	-	NP	NP	NP	-	-	16.1	-	-	-	-	-
33.00	S-3/23	SPT	REFUSAL		SP	0.0	89.0	11.0	NP	NP	NP	2.15	1.84	16.7	-	-	-	-	-
34.50	S-3/24	SPT	REFUSAL		SP	-	-	-	NP	NP	NP	-	-	-	-	-	-	-	-
36.00	S-3/25	SPT	REFUSAL		SP	0.0	85.0	15.0	NP	NP	NP	2.20	1.87	17.9	-	-	-	-	-
37.50	S-3/26	SPT	REFUSAL		SP	-	-	-	NP	NP	NP	-	-	-	-	-	-	-	-
39.00	S-3/27	SPT	REFUSAL		SP	-	-	-	NP	NP	NP	-	-	-	-	-	-	-	-
40.00	S-3/28	SPT	REFUSAL		SP	-	-	-	NP	NP	NP	-	-	-	-	-	-	-	-

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PROJECT :- GEOTECHNICAL INVESTIGATION REPORT FOR REDEVELOPMENT OF BOTANICAL GARDEN OF INDIAN REPUBLIC NOIDA.	STARTING DEPTH	0.0 M	WATER TABLE DEPTH
CLIENT :-EXECUTIVE ENGINEER (P) NOIDA CENTRAL DIVISION CPWD, NEW DELHI	TERMINATION DEPTH	40.0 M	17.5 M

BORE LOG SHEET

Sample					Symbolic representation	Grain Size Analysis			Atterberg limit			Density		Moisture Content (%)	Shear Parameters				Specific Gravity
Depth (m)	Sample No	Sample Type	Observed N-Value	Corrected N-value		Gravel (%)	Sand (%)	Silt Clay (%)	Liquid limit (%)	Plastic Limit (%)	Plasticity Index	Bulk Density (gm/cc)	Dry Density (gm/cc)		Cohesion, c (t/m2)	Angle of Internal Friction,	Coefficient of consolidation, Cc	Void Ratio, eo	
0.75	S-4/1	SPT	5.0	8.4	CL	0.0	19.0	81.0	-	-	-	-	-	2.4	-	-	-	-	-
1.50	S-4/2	SPT	7.0	10.2	SP	0.0	71.0	29.0	-	-	-	1.67	1.62	3.1	1.2	19.0	-	-	2.40
3.00	S-4/3	SPT	10.0	12.3	SP	0.0	83.0	17.0	NP	NP	NP	-	-	3.4	-	-	-	-	-
4.50	S-4/4	SPT	17.0	18.5	SP	-	-	-	NP	NP	NP	-	-	-	-	26.0	-	-	-
6.00	S-4/5	SPT	25.0	24.8	SP	0.0	91.0	9.0	NP	NP	NP	1.76	1.67	5.2	-	-	-	-	2.46
7.50	S-4/6	SPT	31.0	28.5	SP	-	-	-	NP	NP	NP	-	-	-	-	-	-	-	-
9.00	S-4/7	SPT	32.0	27.4	SP	6.0	89.0	5.0	NP	NP	NP	1.79	1.68	6.6	-	35.0	-	-	-
10.50	S-4/8	SPT	36.0	29.0	SP	-	-	-	NP	NP	NP	-	-	-	-		-	-	-
12.00	S-4/9	SPT	41.0	31.2	SP	8.0	81.0	11.0	NP	NP	NP	-	-	7.6	-	-	-	-	-
13.50	S-4/10	SPT	48.0	34.7	SP	-	-	-	NP	NP	NP	-	-	-	-	-	-	-	-

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PROJECT :- GEOTECHNICAL INVESTIGATION REPORT FOR REDEVELOPMENT OF BOTANICAL GARDEN OF INDIAN REPUBLIC NOIDA.	STARTING DEPTH	0.0 M	WATER TABLE DEPTH
CLIENT :-EXECUTIVE ENGINEER (P) NOIDA CENTRAL DIVISION CPWD, NEW DELHI	TERMINATION DEPTH	40.0 M	17.5 M

BORE LOG SHEET

Sample					Symbolic representation	Grain Size Analysis			Atterberg limit			Density		Moisture Content (%)	Shear Parameters				Specific Gravity
Depth (m)	Sample No	Sample Type	Observed N-Value	Corrected N-value		Gravel (%)	Sand (%)	Silt Clay (%)	Liquid limit (%)	Plastic Limit (%)	Plasticity Index	Bulk Density (gm/cc)	Dry Density (gm/cc)		Cohesion, c (t/m2)	Angle of Internal Friction,	Coefficent of consolidation, Cc	Void Ratio, eo	
15.00	S-4/11	SPT	55.0	37.8	ML	0.0	39.0	61.0	29.5	16.5	13.0	1.86	1.69	9.9	10.2	-	0.18	0.80	-
16.50	S-4/12	SPT	68.0	44.5	CL	-	-	-	-	-	-	-	-	12.5	-	-	-	-	-
18.00	S-4/13	SPT	77.0	48.2	CL	0.0	8.0	92.0	31.2	18.5	12.7	1.93	1.68	15.2	-	-	0.19	0.91	2.31
19.50	S-4/14	SPT	85.0	50.9	CL	-	-	-	-	-	-	-	-	-	-	-	-	-	-
21.00	S-4/15	SPT	90.0	51.7	CL	0.0	9.0	91.0	-	-	-	-	-	17.6	-	-	-	-	-
22.50	S-4/16	SPT	94.0	51.8	CL	-	-	-	-	-	-	-	-	-	-	-	-	-	2.31
24.00	S-4/17	SPT	97.0	51.4	SM	0.0	52.0	48.0	-	-	-	-	-	18.6	-	-	-	-	-
25.50	S-4/18	SPT	REFUSAL		SP	0.0	91.0	9.0	NP	NP	NP	1.99	1.67	19.2	-	-	-	-	-
27.00	S-4/19	SPT	REFUSAL		SP	-	-	-	NP	NP	NP	-	-	-	-	-	-	-	-
28.50	S-4/20	SPT	REFUSAL		SP	6.0	94.0	0.0	NP	NP	NP	-	-	19.4	-	-	-	-	-

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PROJECT :- GEOTECHNICAL INVESTIGATION REPORT FOR REDEVELOPMENT OF BOTANICAL GARDEN OF INDIAN REPUBLIC NOIDA.	STARTING DEPTH	0.0 M	WATER TABLE DEPTH
CLIENT :-EXECUTIVE ENGINEER (P) NOIDA CENTRAL DIVISION CPWD, NEW DELHI	TERMINATION DEPTH	40.0 M	17.5 M

BORE LOG SHEET

Sample					Symbolic representation	Grain Size Analysis			Atterberg limit			Density		Moisture Content (%)	Shear Parameters				Specific Gravity
Depth (m)	Sample No	Sample Type	Observed N-Value	Corrected N-value		Gravel (%)	Sand (%)	Silt Clay (%)	Liquid limit (%)	Plastic Limit (%)	Plasticity Index	Bulk Density (gm/cc)	Dry Density (gm/cc)		Cohesion, C (t/m2)	Angle of Internal Friction,	Coefficient of consolidation, Cc	Void Ratio, eo	
30.00	S-4/21	SPT	REFUSAL		SP	-	-	-	NP	NP	NP	-	-	-	-	-	-	-	-
31.50	S-4/22	SPT	REFUSAL		SP	0.0	7.0	93.0	NP	NP	NP	-	-	19.6	-	-	-	-	2.35
33.00	S-4/23	SPT	REFUSAL		SP	-	-	-	NP	NP	NP	-	-	-	-	-	-	-	-
34.50	S-4/24	SPT	REFUSAL		SP	0.0	91.0	9.0	NP	NP	NP	2.32	1.94	19.8	-	-	-	-	-
36.00	S-4/25	SPT	REFUSAL		SP	-	-	-	NP	NP	NP	-	-	-	-	-	-	-	-
37.50	S-4/26	SPT	REFUSAL		SP	0.0	96.0	4.0	NP	NP	NP	2.36	1.97	19.9	-	-	-	-	2.48
39.00	S-4/27	SPT	REFUSAL		SP	-	-	-	NP	NP	NP	-	-	-	-	-	-	-	-
40.00	S-4/28	SPT	REFUSAL		SP	0.0	85.0	15.0	NP	NP	NP	-	-	20.1	-	-	-	-	-

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PROJECT :- GEOTECHNICAL INVESTIGATION REPORT FOR REDEVELOPMENT OF BOTANICAL GARDEN OF INDIAN REPUBLIC NOIDA.	STARTING DEPTH	0.0 M	WATER TABLE DEPTH
CLIENT :-EXECUTIVE ENGINEER (P) NOIDA CENTRAL DIVISION CPWD, NEW DELHI	TERMINATION DEPTH	40.0 M	18.0 M

BORE LOG SHEET

Sample					Symbolic representation	Grain Size Analysis			Atterberg limit			Density		Moisture Content (%)	Shear Parameters				Specific Gravity
Depth (m)	Sample No	Sample Type	Observed N-Value	Corrected N-value		Gravel (%)	Sand (%)	Silt Clay (%)	Liquid limit (%)	Plastic Limit (%)	Plasticity index	Bulk Density (gm/cc)	Dry Density (gm/cc)		Cohesion, c (t/m2)	Angle of Internal Friction,	Coefficent of consolidation, Cc	Void Ratio, eo	
0.75	S-5/1	SPT	7.0	11.8	CL	0.0	13.0	87.0	-	-	-	-	-	2.9	-	-	-	-	-
1.50	S-5/2	SPT	10.0	14.6	SP	0.0	68.0	32.0	-	-	-	1.62	1.56	3.6	1.4	20.0	-	-	2.41
3.00	S-5/3	SPT	13.0	15.9	SP	0.0	86.0	14.0	NP	NP	NP	-	-	3.9	-	-	-	-	-
4.50	S-5/4	SPT	16.0	17.4	SP	-	-	-	NP	NP	NP	-	-	-	-	-	-	-	-
6.00	S-5/5	SPT	22.0	21.9	SP	0.0	93.0	7.0	NP	NP	NP	1.70	1.61	5.9	-	30.0	-	-	2.43
7.50	S-5/6	SPT	27.0	24.8	SP	-	-	-	NP	NP	NP	-	-	-	-	-	-	-	-
9.00	S-5/7	SPT	31.0	26.6	SP	3.0	84.0	13.0	NP	NP	NP	1.72	1.62	6.5	-	-	-	-	-
10.50	S-5/8	SPT	35.0	28.2	SP	-	-	-	NP	NP	NP	-	-	-	-	-	-	-	-
12.00	S-5/9	SPT	41.0	31.2	SP	7.0	86.0	7.0	NP	NP	NP	-	-	7.2	-	33.0	-	-	-
13.50	S-5/10	SPT	48.0	34.7	SP	-	-	-	NP	NP	NP	-	-	-	-	-	-	-	-

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PROJECT :- GEOTECHNICAL INVESTIGATION REPORT FOR REDEVELOPMENT OF BOTANICAL GARDEN OF INDIAN REPUBLIC NOIDA.	STARTING DEPTH	0.0 M	WATER TABLE DEPTH
CLIENT :-EXECUTIVE ENGINEER (P) NOIDA CENTRAL DIVISION CPWD, NEW DELHI	TERMINATION DEPTH	40.0 M	18.0 M

BORE LOG SHEET

Sample					Symbolic representation	Grain Size Analysis			Atterberg limit			Density		Moisture Content (%)	Shear Parameters				Specific Gravity
Depth (m)	Sample No	Sample Type	Observed N-Value	Corrected N-value		Gravel (%)	Sand (%)	Silt Clay (%)	Liquid limit (%)	Plastic Limit (%)	Plasticity Index	Bulk Density (gm/cc)	Dry Density (gm/cc)		Cohesion, c (t/m2)	Angle of Internal Friction,	Coeffient of consolidation, Cc	Void Ratio, eo	
15.00	S-5/11	SPT	52.0	35.7	ML	0.0	32.0	68.0	28.8	16.6	12.2	1.85	1.68	10.2	-	-	-	-	-
16.50	S-5/12	SPT	59.0	38.6	ML	-	-	-	-	-	-	-	-	12.9	-	-	-	-	-
18.00	S-5/13	SPT	66.0	41.3	CL	0.0	6.0	94.0	30.2	18.9	11.3	1.99	1.72	15.6	13.5	-	0.18	0.88	2.29
19.50	S-5/14	SPT	79.0	47.3	CL	-	-	-	-	-	-	-	-	-	-	-	-	-	-
21.00	S-5/15	SPT	91.0	52.3	CL	0.0	11.0	89.0	-	-	-	-	-	16.5	-	-	-	-	-
22.50	S-5/16	SPT	REFUSAL		CL	-	-	-	-	-	-	-	-	-	-	-	-	-	2.33
24.00	S-5/17	SPT	REFUSAL		SP	0.0	66.0	34.0	-	-	-	-	-	17.6	-	-	-	-	-
25.50	S-5/18	SPT	REFUSAL		SP	0.0	88.0	12.0	NP	NP	NP	2.20	1.86	18.2	-	-	-	-	-
27.00	S-5/19	SPT	REFUSAL		SP	-	-	-	NP	NP	NP	-	-	-	-	-	-	-	-
28.50	S-5/20	SPT	REFUSAL		SP	4.0	92.0	4.0	NP	NP	NP	-	-	18.9	-	-	-	-	-

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PROJECT :- GEOTECHNICAL INVESTIGATION REPORT FOR REDEVELOPMENT OF BOTANICAL GARDEN OF INDIAN REPUBLIC NOIDA.	STARTING DEPTH	0.0 M	WATER TABLE DEPTH
CLIENT :-EXECUTIVE ENGINEER (P) NOIDA CENTRAL DIVISION CPWD, NEW DELHI	TERMINATION DEPTH	40.0 M	18.0 M

BORE LOG SHEET

Sample					Symbolic representation	Grain Size Analysis			Atterberg limit			Density		Moisture Content (%)	Shear Parameters				Specific Gravity
Depth (m)	Sample No	Sample Type	Observed N-Value	Corrected N-value		Gravel (%)	Sand (%)	Silt Clay (%)	Liquid limit (%)	Plastic Limit (%)	Plasticity Index	Bulk Density (gm/cc)	Dry Density (gm/cc)		Cohesion, c (t/m2)	Angle of Internal Friction,	Coeffficent of consolidation, Cc	Void Ratio, eo	
30.00	S-5/21	SPT	REFUSAL		SP	-	-	-	NP	NP	NP	-	-	-	-	-	-	-	-
31.50	S-5/22	SPT	REFUSAL		CL	0.0	11.0	89.0	-	-	-	-	-	19.1	-	-	-	-	2.34
33.00	S-5/23	SPT	REFUSAL		CL	-	-	-	NP	NP	NP	-	-	-	-	-	-	-	-
34.50	S-5/24	SPT	REFUSAL		SP	0.0	95.0	5.0	NP	NP	NP	2.28	1.91	19.3	-	-	-	-	-
36.00	S-5/25	SPT	REFUSAL		SP	-	-	-	NP	NP	NP	-	-	-	-	-	-	-	-
37.50	S-5/26	SPT	REFUSAL		SP	0.0	97.0	3.0	NP	NP	NP	2.31	1.93	19.6	-	-	-	-	2.46
39.00	S-5/27	SPT	REFUSAL		SP	-	-	-	NP	NP	NP	-	-	-	-	-	-	-	-
40.00	S-5/28	SPT	REFUSAL		SP	0.0	86.0	14.0	NP	NP	NP	-	-	19.9	-	-	-	-	-

SOIGNE ENGINEERING CONSULTANTS SCF 23, MM, Manimajra, Chandigarh email: soigneconsultants@gmail.com	BOREHOLE	LOCATION	JOB NO.	PAGE NO
	6	N-3161469 E-728206	GT-1997	

PROJECT :- GEOTECHNICAL INVESTIGATION REPORT FOR REDEVELOPMENT OF BOTANICAL GARDEN OF INDIAN REPUBLIC NOIDA.	STARTING DEPTH	0.0 M	WATER TABLE DEPTH
CLIENT :-EXECUTIVE ENGINEER (P) NOIDA CENTRAL DIVISION CPWD, NEW DELHI	TERMINATION DEPTH	40.0 M	15.0 M

BORE LOG SHEET

Sample					Symbolic representation	Grain Size Analysis			Atterberg limit			Density		Moisture Content (%)	Shear Parameters				Specific Gravity
Depth (m)	Sample No	Sample Type	Observed N-Value	Corrected N-value		Gravel (%)	Sand (%)	Silt Clay (%)	Liquid limit (%)	Plastic Limit (%)	Plasticity index	Bulk Density (gm/cc)	Dry Density (gm/cc)		Cohesion, c (t/m2)	Angle of Internal Friction,	Coefficent of consolidation, Cc	Void Ratio, eo	
0.75	S-6/1	SPT	6.0	10.1	CL	0.0	17.0	83.0	-	-	-	-	-	2.2	-	-	-	-	-
1.50	S-6/2	SPT	6.0	8.7	SP	0.0	69.0	31.0	-	-	-	1.69	1.64	3.2	0.9	22.0	-	-	2.42
3.00	S-6/3	SPT	9.0	11.0	SP	0.0	83.0	17.0	NP	NP	NP	-	-	3.9	-	-	-	-	-
4.50	S-6/4	SPT	9.0	9.8	SP	-	-	-	NP	NP	NP	-	-	-	-	24.0	-	-	-
6.00	S-6/5	SPT	15.0	14.9	SP	0.0	91.0	9.0	NP	NP	NP	1.73	1.63	6.3	-	-	-	-	2.45
7.50	S-6/6	SPT	19.0	17.5	SP	-	-	-	NP	NP	NP	-	-	-	-	-	-	-	-
9.00	S-6/7	SPT	22.0	18.9	SP	6.0	86.0	8.0	NP	NP	NP	1.75	1.64	6.9	-	32.0	-	-	-
10.50	S-6/8	SPT	27.0	21.8	SP	-	-	-	NP	NP	NP	-	-	-	-	-	-	-	-
12.00	S-6/9	SPT	41.0	31.2	SP	9.0	82.0	9.0	NP	NP	NP	-	-	7.6	-	-	-	-	-
13.50	S-6/10	SPT	53.0	38.3	SP	-	-	-	NP	NP	NP	-	-	-	-	-	-	-	-

SOIGNE ENGINEERING CONSULTANTS SCF 23, MM, Manimajra, Chandigarh email: soigneconsultants@gmail.com	BOREHOLE	LOCATION	JOB NO.	PAGE NO
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PROJECT :- GEOTECHNICAL INVESTIGATION REPORT FOR REDEVELOPMENT OF BOTANICAL GARDEN OF INDIAN REPUBLIC NOIDA.	STARTING DEPTH	0.0 M	WATER TABLE DEPTH
CLIENT :-EXECUTIVE ENGINEER (P) NOIDA CENTRAL DIVISION CPWD, NEW DELHI	TERMINATION DEPTH	40.0 M	15.0 M

BORE LOG SHEET

Sample					Symbolic representation	Grain Size Analysis			Atterberg limit			Density		Moisture Content (%)	Shear Parameters				Specific Gravity
Depth (m)	Sample No	Sample Type	Observed N-Value	Corrected N-value		Gravel (%)	Sand (%)	Silt Clay (%)	Liquid limit (%)	Plastic Limit (%)	Plasticity Index	Bulk Density (gm/cc)	Dry Density (gm/cc)		Cohesion, c (t/m2)	Angle of Internal Friction,	Coefficent of consolidation, Cc	Void Ratio, eo	
15.00	S-6/11	SPT	65.0	44.6	ML	0.0	37.0	63.0	28.9	17.5	11.4	1.82	1.65	10.6	13.8	-	-	-	-
16.50	S-6/12	SPT	72.0	47.2	ML	-	-	-	-	-	-	-	-	13.2	-	-	-	-	-
18.00	S-6/13	SPT	78.0	48.8	CL	0.0	9.0	91.0	32.2	18.5	13.7	1.94	1.68	15.3	-	-	0.20	0.94	2.31
19.50	S-6/14	SPT	82.0	49.1	CL	-	-	-	-	-	-	-	-	-	-	-	-	-	-
21.00	S-6/15	SPT	87.0	50.0	CL	0.0	13.0	87.0	-	-	-	-	-	16.2	-	-	-	-	-
22.50	S-6/16	SPT	92.0	50.7	CL	-	-	-	-	-	-	-	-	-	-	-	-	-	2.33
24.00	S-6/17	SPT	97.0	51.4	SP	0.0	59.0	41.0	-	-	-	-	-	17.2	-	-	-	-	-
25.50	S-6/18	SPT	REFUSAL		SP	0.0	83.0	17.0	NP	NP	NP	2.18	1.85	18.1	-	-	-	-	-
27.00	S-6/19	SPT	REFUSAL		SP	-	-	-	NP	NP	NP	-	-	-	-	-	-	-	-
28.50	S-6/20	SPT	REFUSAL		SP	10.0	82.0	8.0	NP	NP	NP	-	-	18.5	-	-	-	-	-

SOIGNE ENGINEERING CONSULTANTS SCF 23, MM, Manimajra, Chandigarh email: soigneconsultants@gmail.com	BOREHOLE	LOCATION	JOB NO.	PAGE NO
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PROJECT :- GEOTECHNICAL INVESTIGATION REPORT FOR REDEVELOPMENT OF BOTANICAL GARDEN OF INDIAN REPUBLIC NOIDA.	STARTING DEPTH	0.0 M	WATER TABLE DEPTH
CLIENT :-EXECUTIVE ENGINEER (P) NOIDA CENTRAL DIVISION CPWD, NEW DELHI	TERMINATION DEPTH	40.0 M	15.0 M

BORE LOG SHEET

Sample					Symbolic representation	Grain Size Analysis			Atterberg limit			Density		Moisture Content (%)	Shear Parameters				Specific Gravity
Depth (m)	Sample No	Sample Type	Observed N-Value	Corrected N-value		Gravel (%)	Sand (%)	Silt Clay (%)	Liquid limit (%)	Plastic Limit (%)	Plasticity index	Bulk Density (gm/cc)	Dry Density (gm/cc)		Cohesion, c (t/m2)	Angle of Internal Friction,	Coefficent of consolidation, Cc	Void Ratio, eo	
30.00	S-6/21	SPT	REFUSAL		SP	-	-	-	NP	NP	NP	-	-	-	-	-	-	-	-
31.50	S-6/22	SPT	REFUSAL		SP	0.0	19.0	81.0	NP	NP	NP	-	-	19.1	-	-	-	-	2.36
33.00	S-6/23	SPT	REFUSAL		SP	-	-	-	NP	NP	NP	-	-	-	-	-	-	-	-
34.50	S-6/24	SPT	REFUSAL		SP	0.0	96.0	4.0	NP	NP	NP	2.21	1.85	19.6	-	-	-	-	-
36.00	S-6/25	SPT	REFUSAL		SP	-	-	-	NP	NP	NP	-	-	-	-	-	-	-	-
37.50	S-6/26	SPT	REFUSAL		SP	0.0	95.0	5.0	NP	NP	NP	2.33	1.95	19.7	-	-	-	-	2.46
39.00	S-6/27	SPT	REFUSAL		SP	-	-	-	NP	NP	NP	-	-	-	-	-	-	-	2.47
40.00	S-6/28	SPT	REFUSAL		SP	0.0	86.0	14.0	NP	NP	NP	-	-	19.8	-	-	-	-	-

SOIGNE ENGINEERING CONSULTANTS SCF 23, MM, Manimajra, Chandigarh email: soigneconsultants@gmail.com	BOREHOLE	LOCATION	JOB NO.	PAGE NO
	7	N-3161463 E-728130	GT-1997	

PROJECT :- GEOTECHNICAL INVESTIGATION REPORT FOR REDEVELOPMENT OF BOTANICAL GARDEN OF INDIAN REPUBLIC NOIDA.	STARTING DEPTH	0.0 M	WATER TABLE DEPTH
CLIENT :-EXECUTIVE ENGINEER (P) NOIDA CENTRAL DIVISION CPWD, NEW DELHI	TERMINATION DEPTH	40.0 M	14.5 M

BORE LOG SHEET

Sample					Symbolic representation	Grain Size Analysis			Atterberg limit			Density		Moisture Content (%)	Shear Parameters				Specific Gravity
Depth (m)	Sample No	Sample Type	Observed N-Value	Corrected N-value		Gravel (%)	Sand (%)	Silt Clay (%)	Liquid limit (%)	Plastic Limit (%)	Plasticity Index	Bulk Density (gm/cc)	Dry Density (gm/cc)		Cohesion, c (t/m2)	Angle of Internal Friction,	Coefficent of consolidation, Cc	Void Ratio, eo	
0.75	S-7/1	SPT	4.0	6.8	CL	0.0	20.0	80.0	-	-	-	-	-	2.5	-	-	-	-	-
1.50	S-7/2	SPT	6.0	8.7	SP	0.0	70.0	30.0	-	-	-	1.64	1.59	3.4	0.7	20.0	-	-	2.40
3.00	S-7/3	SPT	9.0	11.0	SP	0.0	82.0	18.0	NP	NP	NP	-	-	4.6	-	-	-	-	-
4.50	S-7/4	SPT	14.0	15.3	SP	-	-	-	NP	NP	NP	-	-	-	-	25.0	-	-	-
6.00	S-7/5	SPT	21.0	20.9	SP	0.0	88.0	12.0	NP	NP	NP	1.75	1.63	7.3	-	-	-	-	2.43
7.50	S-7/6	SPT	26.0	23.9	SP	-	-	-	NP	NP	NP	-	-	-	-	-	-	-	-
9.00	S-7/7	SPT	31.0	26.6	SP	12.0	82.0	6.0	NP	NP	NP	1.76	1.63	8.2	-	32.0	-	-	-
10.50	S-7/8	SPT	35.0	28.2	SP	14.0	77.0	9.0	NP	NP	NP	-	-	-	-	-	-	-	-
12.00	S-7/9	SPT	41.0	31.2	SP	-	-	-	NP	NP	NP	-	-	8.8	-	-	-	-	-
13.50	S-7/10	SPT	46.0	33.2	SP	11.0	83.0	6.0	NP	NP	NP	-	-	-	-	-	-	-	-

SOIGNE ENGINEERING CONSULTANTS SCF 23, MM, Manimajra, Chandigarh email: soigneconsultants@gmail.com	BOREHOLE	LOCATION	JOB NO.	PAGE NO
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PROJECT :- GEOTECHNICAL INVESTIGATION REPORT FOR REDEVELOPMENT OF BOTANICAL GARDEN OF INDIAN REPUBLIC NOIDA.	STARTING DEPTH	0.0 M	WATER TABLE DEPTH
CLIENT :-EXECUTIVE ENGINEER (P) NOIDA CENTRAL DIVISION CPWD, NEW DELHI	TERMINATION DEPTH	40.0 M	14.5 M

BORE LOG SHEET

Sample					Symbolic representation	Grain Size Analysis			Atterberg limit			Density		Moisture Content (%)	Shear Parameters				Specific Gravity
Depth (m)	Sample No	Sample Type	Observed N-Value	Corrected N-value		Gravel (%)	Sand (%)	Silt Clay (%)	Liquid limit (%)	Plastic Limit (%)	Plasticity Index	Bulk Density (gm/cc)	Dry Density (gm/cc)		Cohesion, c (t/m2)	Angle of Internal Friction,	Coefficent of consolidation, Cc	Void Ratio, eo	
15.00	S-7/11	SPT	52.0	35.7	SP	-	-	-	NP	NP	NP	1.85	1.66	11.2	-	-	-	-	-
16.50	S-7/12	SPT	57.0	37.3	CL	0.0	17.0	83.0	29.5	17.9	11.6	-	-	12.3	11.5	-	0.18	0.86	-
18.00	S-7/13	SPT	66.0	41.3	CL	-	-	-	-	-	-	1.96	1.71	14.5	-	-	-	-	2.32
19.50	S-7/14	SPT	71.0	42.5	CL	-	-	-	-	-	-	-	-	-	-	-	-	-	-
21.00	S-7/15	SPT	75.0	43.1	CL	0.0	16.0	84.0	30.5	17.8	12.7	-	-	15.6	-	-	0.19	0.89	-
22.50	S-7/16	SPT	82.0	45.2	CL	-	-	-	-	-	-	-	-	-	-	-	-	-	2.34
24.00	S-7/17	SPT	87.0	46.1	SP	0.0	62.0	38.0	-	-	-	-	-	16.9	-	-	-	-	-
25.50	S-7/18	SPT	92.0	46.9	SP	0.0	89.0	11.0	NP	NP	NP	2.11	1.80	17.5	-	-	-	-	-
27.00	S-7/19	SPT	95.0	46.6	SP	-	-	-	NP	NP	NP	-	-	-	-	-	-	-	-
28.50	S-7/20	SPT	REFUSAL		SP	8.0	86.0	6.0	NP	NP	NP	-	-	18.5	-	-	-	-	-

SOIGNE ENGINEERING CONSULTANTS SCF 23, MM, Manimajra, Chandigarh email: soigneconsultants@gmail.com	BOREHOLE	LOCATION	JOB NO.	PAGE NO
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PROJECT :- GEOTECHNICAL INVESTIGATION REPORT FOR REDEVELOPMENT OF BOTANICAL GARDEN OF INDIAN REPUBLIC NOIDA.	STARTING DEPTH	0.0 M	WATER TABLE DEPTH
CLIENT :-EXECUTIVE ENGINEER (P) NOIDA CENTRAL DIVISION CPWD, NEW DELHI	TERMINATION DEPTH	40.0 M	14.5 M

BORE LOG SHEET

Sample					Symbolic representation	Grain Size Analysis			Atterberg limit			Density		Moisture Content (%)	Shear Parameters				Specific Gravity
Depth (m)	Sample No	Sample Type	Observed N-Value	Corrected N-value		Gravel (%)	Sand (%)	Silt Clay (%)	Liquid limit (%)	Plastic Limit (%)	Plasticity index	Bulk Density (gm/cc)	Dry Density (gm/cc)		Cohesion, c (t/m2)	Angle of Internal Friction,	Coefficent of consolidation, Cc	Void Ratio, eo	
30.00	S-7/21	SPT	REFUSAL		SP	-	-	-	NP	NP	NP	-	-	-	-	-	-	-	-
31.50	S-7/22	SPT	REFUSAL		CL	0.0	13.0	87.0	-	-	-	-	-	18.9	-	-	-	-	2.34
33.00	S-7/23	SPT	REFUSAL		CL	-	-	-	-	-	-	-	-	-	-	-	-	-	-
34.50	S-7/24	SPT	REFUSAL		SP	0.0	92.0	8.0	NP	NP	NP	2.19	1.84	19.1	-	-	-	-	-
36.00	S-7/25	SPT	REFUSAL		SP	-	-	-	NP	NP	NP	-	-	-	-	-	-	-	-
37.50	S-7/26	SPT	REFUSAL		SP	0.0	98.0	2.0	NP	NP	NP	2.30	1.92	19.6	-	-	-	-	2.45
39.00	S-7/27	SPT	REFUSAL		SP	-	-	-	NP	NP	NP	-	-	-	-	-	-	-	2.48
40.00	S-7/28	SPT	REFUSAL		SP	0.0	88.0	12.0	NP	NP	NP	-	-	19.7	-	-	-	-	-

SOIGNE ENGINEERING CONSULTANTS SCF 23, MM, Manimajra, Chandigarh email: soigneconsultants@gmail.com	BOREHOLE	LOCATION	JOB NO.	PAGE NO
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PROJECT :- GEOTECHNICAL INVESTIGATION REPORT FOR REDEVELOPMENT OF BOTANICAL GARDEN OF INDIAN REPUBLIC NOIDA.	STARTING DEPTH	0.0 M	WATER TABLE DEPTH
CLIENT :-EXECUTIVE ENGINEER (P) NOIDA CENTRAL DIVISION CPWD, NEW DELHI	TERMINATION DEPTH	40.0 M	15.0 M

BORE LOG SHEET

Sample					Symbolic representation	Grain Size Analysis			Atterberg limit			Density		Moisture Content (%)	Shear Parameters				Specific Gravity
Depth (m)	Sample No	Sample Type	Observed N-Value	Corrected N-value		Gravel (%)	Sand (%)	Silt Clay (%)	Liquid limit (%)	Plastic Limit (%)	Plasticity Index	Bulk Density (gm/cc)	Dry Density (gm/cc)		Cohesion, c (t/m2)	Angle of Internal Friction,	Coefficent of consolidation, Cc	Void Ratio, eo	
0.75	S-8/1	SPT	7.0	11.8	CL	0.0	11.0	89.0	-	-	-	-	-	2.5	-	-	-	-	-
1.50	S-8/2	SPT	8.0	11.7	SP	0.0	75.0	25.0	-	-	-	1.65	1.60	3.1	0.7	23.0	-	-	2.43
3.00	S-8/3	SPT	12.0	14.7	SP	0.0	91.0	9.0	NP	NP	NP	-	-	3.5	-	-	-	-	-
4.50	S-8/4	SPT	14.0	15.3	SP	-	-	-	NP	NP	NP	-	-	-	-	29.0	-	-	-
6.00	S-8/5	SPT	19.0	18.9	SP	0.0	93.0	7.0	NP	NP	NP	1.70	1.62	5.2	-	-	-	-	2.47
7.50	S-8/6	SPT	21.0	19.3	SP	-	-	-	NP	NP	NP	-	-	-	-	-	-	-	-
9.00	S-8/7	SPT	25.0	21.4	SP	0.0	95.0	5.0	NP	NP	NP	1.75	1.64	6.8	-	32.0	-	-	-
10.50	S-8/8	SPT	32.0	25.8	SP	-	-	-	NP	NP	NP	-	-	-	-	-	-	-	-
12.00	S-8/9	SPT	37.0	28.2	SP	0.0	92.0	8.0	NP	NP	NP	-	-	8.7	-	-	-	-	-
13.50	S-8/10	SPT	41.0	29.6	SP	-	-	-	NP	NP	NP	-	-	-	-	-	-	-	-

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PROJECT :- GEOTECHNICAL INVESTIGATION REPORT FOR REDEVELOPMENT OF BOTANICAL GARDEN OF INDIAN REPUBLIC NOIDA.	STARTING DEPTH	0.0 M	WATER TABLE DEPTH
CLIENT :-EXECUTIVE ENGINEER (P) NOIDA CENTRAL DIVISION CPWD, NEW DELHI	TERMINATION DEPTH	40.0 M	15.0 M

BORE LOG SHEET

Sample					Symbolic representation	Grain Size Analysis			Atterberg limit			Density		Moisture Content (%)	Shear Parameters				Specific Gravity
Depth (m)	Sample No	Sample Type	Observed N-Value	Corrected N-value		Gravel (%)	Sand (%)	Silt Clay (%)	Liquid limit (%)	Plastic Limit (%)	Plasticity index	Bulk Density (gm/cc)	Dry Density (gm/cc)		Cohesion, c (t/m2)	Angle of Internal Friction,	Coefficent of consolidation, Cc	Void Ratio, eo	
15.00	S-8/11	SPT	50.0	34.3	SP	0.0	90.0	10.0	28.8	17.8	11.0	1.81	1.59	13.5	-	-	-	-	-
16.00	S-8/12	SPT	53.0	34.7	CL	5.0	10.0	85.0	-	-	-	-	-	14.9	-	-	-	-	-
18.00	S-8/13	SPT	62.0	38.8	SP	0.0	70.0	30.0	30.2	19.9	10.3	1.89	1.63	16.2	-	-	-	-	2.33
19.50	S-8/14	SPT	63.0	37.7	SP	-	-	-	-	-	-	-	-	-	-	-	-	-	-
21.00	S-8/15	SPT	65.0	37.3	SP	0.0	60.0	40.0	-	-	-	-	-	18.2	-	-	-	-	-
22.50	S-8/16	SPT	69.0	38.0	SM	-	-	-	-	-	-	-	-	-	-	-	-	-	-
24.00	S-8/17	SPT	67.0	35.5	SM	0.0	52.0	48.0	-	-	-	-	-	18.8	-	-	-	-	2.40
25.50	S-8/18	SPT	69.0	35.1	SM	-	-	-	-	-	-	2.15	1.81	19.0	-	-	-	-	-
27.00	S-8/19	SPT	72.0	35.3	SM	-	-	-	-	-	-	-	-	-	-	-	-	-	-
28.50	S-8/20	SPT	76.0	35.9	SM	0.0	58.0	42.0	-	-	-	-	-	19.3	-	-	-	-	-

SOIGNE ENGINEERING CONSULTANTS SCF 23, MM, Manimajra, Chandigarh email: soigneconsultants@gmail.com	BOREHOLE	LOCATION	JOB NO.	PAGE NO
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PROJECT :- GEOTECHNICAL INVESTIGATION REPORT FOR REDEVELOPMENT OF BOTANICAL GARDEN OF INDIAN REPUBLIC NOIDA.	STARTING DEPTH	0.0 M	WATER TABLE DEPTH
CLIENT :-EXECUTIVE ENGINEER (P) NOIDA CENTRAL DIVISION CPWD, NEW DELHI	TERMINATION DEPTH	40.0 M	15.0 M

BORE LOG SHEET

Sample					Symbolic representation	Grain Size Analysis			Atterberg limit			Density		Moisture Content (%)	Shear Parameters				Specific Gravity
Depth (m)	Sample No	Sample Type	Observed N-Value	Corrected N-value		Gravel (%)	Sand (%)	Silt Clay (%)	Liquid limit (%)	Plastic Limit (%)	Plasticity Index	Bulk Density (gm/cc)	Dry Density (gm/cc)		Cohesion, c (t/m2)	Angle of Internal Friction,	Coefficent of consolidation, Cc	Void Ratio, eo	
30.00	S-8/21	SPT	84.0	38.2	SM	-	-	-	-	-	-	-	-	-	-	-	-	-	-
31.00	S-8/22	SPT	REFUSAL		SP	0.0	78.0	22.0	NP	NP	NP	2.22	-	18.8	-	-	-	-	2.45
33.00	S-8/23	SPT	REFUSAL		SP	-	-	-	NP	NP	NP	-	-	-	-	-	-	-	-
34.50	S-8/24	SPT	REFUSAL		SP	0.0	97.0	3.0	NP	NP	NP	2.27	1.89	19.8	-	-	-	-	-
36.00	S-8/25	SPT	REFUSAL		SP	-	-	-	NP	NP	NP	-	-	-	-	-	-	-	-
37.50	S-8/26	SPT	REFUSAL		SP	0.0	94.0	6.0	NP	NP	NP	2.31	1.94	19.2	-	-	-	-	2.47
39.00	S-8/27	SPT	REFUSAL		SP	-	-	-	NP	NP	NP	-	-	-	-	-	-	-	-
40.00	S-8/28	SPT	REFUSAL		SP	0.0	90.0	10.0	NP	NP	NP	-	-	19.6	-	-	-	-	-

SOIGNE ENGINEERING CONSULTANTS SCF 23, MM, Manimajra, Chandigarh email: soigneconsultants@gmail.com	BOREHOLE	LOCATION	JOB NO.	PAGE NO
	9	N-3161416 E-727973	GT-1997	

PROJECT :- GEOTECHNICAL INVESTIGATION REPORT FOR REDEVELOPMENT OF BOTANICAL GARDEN OF INDIAN REPUBLIC NOIDA.	STARTING DEPTH	0.0 M	WATER TABLE DEPTH
CLIENT :-EXECUTIVE ENGINEER (P) NOIDA CENTRAL DIVISION CPWD, NEW DELHI	TERMINATION DEPTH	40.0 M	14.7 M

BORE LOG SHEET

Sample					Symbolic representation	Grain Size Analysis			Atterberg limit			Density		Moisture Content (%)	Shear Parameters				Specific Gravity
Depth (m)	Sample No	Sample Type	Observed N-Value	Corrected N-value		Gravel (%)	Sand (%)	Silt Clay (%)	Liquid limit (%)	Plastic Limit (%)	Plasticity Index	Bulk Density (gm/cc)	Dry Density (gm/cc)		Cohesion, c (t/m2)	Angle of Internal Friction,	Coefficent of consolidation, Cc	Void Ratio, eo	
0.75	S-9/1	SPT	5.0	8.4	CL	0.0	10.0	90.0	-	-	-	0.00	-	1.9	-	-	-	-	-
1.50	S-9/2	SPT	8.0	11.7	SP	0.0	79.0	21.0	-	-	-	1.69	1.64	2.9	0.6	24.0	-	-	2.40
3.00	S-9/3	SPT	11.0	13.5	SP	0.0	82.0	18.0	NP	NP	NP	-	-	3.6	-	-	-	-	-
4.50	S-9/4	SPT	12.0	13.1	SP	-	-	-	NP	NP	NP	-	-	-	-	25.0	-	-	-
6.00	S-9/5	SPT	14.0	13.9	SP	0.0	86.0	14.0	NP	NP	NP	1.76	1.69	4.2	-	-	-	-	2.43
7.50	S-9/6	SPT	19.0	17.5	SP	-	-	-	NP	NP	NP	-	-	-	-	-	-	-	-
9.00	S-9/7	SPT	20.0	17.2	SP	0.0	90.0	10.0	NP	NP	NP	1.82	1.73	5.2	-	-	-	-	-
10.50	S-9/8	SPT	25.0	20.2	SP	-	-	-	NP	NP	NP	-	-	-	-	-	-	-	-
12.00	S-9/9	SPT	30.0	22.8	SP	0.0	96.0	4.0	NP	NP	NP	-	-	7.3	-	35.0	-	-	-
13.50	S-9/10	SPT	34.0	24.5	SP	-	-	-	NP	NP	NP	-	-	-	-	-	-	-	-

SOIGNE ENGINEERING CONSULTANTS SCF 23, MM, Manimajra, Chandigarh email: soigneconsultants@gmail.com	BOREHOLE	LOCATION	JOB NO.	PAGE NO
	9	N-3161416 E-727973	GT-1997	

PROJECT :- GEOTECHNICAL INVESTIGATION REPORT FOR REDEVELOPMENT OF BOTANICAL GARDEN OF INDIAN REPUBLIC NOIDA.	STARTING DEPTH	0.0 M	WATER TABLE DEPTH
CLIENT :-EXECUTIVE ENGINEER (P) NOIDA CENTRAL DIVISION CPWD, NEW DELHI	TERMINATION DEPTH	40.0 M	14.7 M

BORE LOG SHEET

Sample					Symbolic representation	Grain Size Analysis			Atterberg limit			Density		Moisture Content (%)	Shear Parameters				Specific Gravity
Depth (m)	Sample No	Sample Type	Observed N-Value	Corrected N-value		Gravel (%)	Sand (%)	Silt Clay (%)	Liquid limit (%)	Plastic Limit (%)	Plasticity Index	Bulk Density (gm/cc)	Dry Density (gm/cc)		Cohesion, c (t/m2)	Angle of Internal Friction,	Coefficent of consolidation, Cc	Void Ratio, eo	
15.00	S-9/11	SPT	39.0	26.8	SP	0.0	98.0	2.0	-	-	-	1.88	1.69	11.3	-	-	-	-	-
16.00	S-9/12	SPT	46.0	30.1	CL	0.0	6.0	94.0	-	-	-	-	-	13.5	-	-	-	-	-
18.00	S-9/13	SPT	53.0	33.2	CL	-	-	-	31.3	19.7	11.6	1.95	1.68	15.9	-	-	0.19	0.91	2.29
19.50	S-9/14	SPT	59.0	35.3	CL	0.0	5.0	95.0	-	-	-	-	-	-	-	-	-	-	-
21.00	S-9/15	SPT	66.0	37.9	CL	-	-	-	-	-	-	-	-	16.6	-	-	-	-	-
22.50	S-9/16	SPT	72.0	39.7	CL	0.0	29.0	71.0	-	-	-	-	-	-	-	-	-	-	-
24.00	S-9/17	SPT	80.0	42.4	SP	0.0	71.0	29.0	NP	NP	NP	-	-	17.2	-	-	-	-	2.31
25.50	S-9/18	SPT	87.0	44.3	SP	-	-	-	NP	NP	NP	2.02	1.71	17.8	-	-	-	-	-
27.00	S-9/19	SPT	94.0	46.1	SP	-	-	-	NP	NP	NP	-	-	-	-	-	-	-	-
28.50	S-9/20	SPT	REFUSAL		SP	0.0	82.0	18.0	NP	NP	NP	-	-	18.3	-	-	-	-	-

SOIGNE ENGINEERING CONSULTANTS SCF 23, MM, Manimajra, Chandigarh email: soigneconsultants@gmail.com	BOREHOLE	LOCATION	JOB NO.	PAGE NO
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PROJECT :- GEOTECHNICAL INVESTIGATION REPORT FOR REDEVELOPMENT OF BOTANICAL GARDEN OF INDIAN REPUBLIC NOIDA.	STARTING DEPTH	0.0 M	WATER TABLE DEPTH
CLIENT :-EXECUTIVE ENGINEER (P) NOIDA CENTRAL DIVISION CPWD, NEW DELHI	TERMINATION DEPTH	40.0 M	14.7 M

BORE LOG SHEET

Sample					Symbolic representation	Grain Size Analysis			Atterberg limit			Density		Moisture Content (%)	Shear Parameters				Specific Gravity
Depth (m)	Sample No	Sample Type	Observed N-Value	Corrected N-value		Gravel (%)	Sand (%)	Silt Clay (%)	Liquid limit (%)	Plastic Limit (%)	Plasticity index	Bulk Density (gm/cc)	Dry Density (gm/cc)		Cohesion, c (t/m2)	Angle of Internal Friction,	Coefficent of consolidation, Cc	Void Ratio, eo	
30.00	S-9/21	SPT	REFUSAL		SP	-	-	-	NP	NP	NP	-	-	-	-	-	-	-	-
31.00	S-9/22	SPT	REFUSAL		SP	0.0	89.0	11.0	NP	NP	NP	2.15	-	18.8	-	-	-	-	2.45
33.00	S-9/23	SPT	REFUSAL		SP	-	-	-	NP	NP	NP	-	-	-	-	-	-	-	-
34.50	S-9/24	SPT	REFUSAL		SP	0.0	91.0	9.0	NP	NP	NP	2.24	1.88	19.2	-	-	-	-	-
36.00	S-9/25	SPT	REFUSAL		SP	-	-	-	NP	NP	NP	-	-	-	-	-	-	-	-
37.50	S-9/26	SPT	REFUSAL		SP	0.0	93.0	7.0	NP	NP	NP	2.33	1.95	19.5	-	-	-	-	2.46
39.00	S-9/27	SPT	REFUSAL		CL	0.0	21.0	79.0	27.6	18.5	9.1	-	-	-	-	-	-	-	-
40.00	S-9/28	SPT	REFUSAL		CL	0.0	11.0	89.0	-	-	-	-	-	19.9	-	-	-	-	-

SOIGNE ENGINEERING CONSULTANTS SCF 23, MM, Manimajra, Chandigarh email: soigneconsultants@gmail.com	BOREHOLE	LOCATION	JOB NO.	PAGE NO
	10	N-3161324 E-727908	GT-1997	

PROJECT :- GEOTECHNICAL INVESTIGATION REPORT FOR REDEVELOPMENT OF BOTANICAL GARDEN OF INDIAN REPUBLIC NOIDA.	STARTING DEPTH	0.0 M	WATER TABLE DEPTH
CLIENT :-EXECUTIVE ENGINEER (P) NOIDA CENTRAL DIVISION CPWD, NEW DELHI	TERMINATION DEPTH	40.0 M	13.7 M

BORE LOG SHEET

Sample					Symbolic representation	Grain Size Analysis			Atterberg limit			Density		Moisture Content (%)	Shear Parameters				Specific Gravity
Depth (m)	Sample No	Sample Type	Observed N-Value	Corrected N-value		Gravel (%)	Sand (%)	Silt Clay (%)	Liquid limit (%)	Plastic Limit (%)	Plasticity index	Bulk Density (gm/cc)	Dry Density (gm/cc)		Cohesion, c (t/m2)	Angle of internal Friction,	Coefficent of consolidation, Cc	Void Ratio, eo	
0.75	S-10/1	SPT	6.0	10.1	CL	0.0	17.0	83.0	-	-	-		-	2.6	-	-	-	-	-
1.50	S-10/2	SPT	9.0	13.1	SP	0.0	79.0	21.0	-	-	-	1.68	1.63	3.2	0.8	23.0	-	-	2.39
3.00	S-10/3	SPT	9.0	11.0	SP	0.0	82.0	18.0	NP	NP	NP	-	-	3.9	-	-	-	-	-
4.50	S-10/4	SPT	12.0	13.1	SP	-	-	-	NP	NP	NP	-	-	-	-	26.0	-	-	-
6.00	S-10/5	SPT	13.0	12.9	SP	0.0	93.0	7.0	NP	NP	NP	1.72	1.64	4.8	-	-	-	-	2.42
7.50	S-10/6	SPT	15.0	13.8	SP	-	-	-	NP	NP	NP	-	-	-	-	-	-	-	-
9.00	S-10/7	SPT	18.0	15.4	SP	0.0	96.0	4.0	NP	NP	NP	1.80	1.70	5.9	-	-	-	-	-
10.50	S-10/8	SPT	23.0	18.5	SP	-	-	-	NP	NP	NP	-	-	-	-	-	-	-	-
12.00	S-10/9	SPT	26.0	19.8	SP	0.0	91.0	9.0	NP	NP	NP	-	-	7.9	-	32.0	-	-	-
13.50	S-10/10	SPT	32.0	23.1	SP	-	-	-	NP	NP	NP	-	-	-	-	-	-	-	-

SOIGNE ENGINEERING CONSULTANTS SCF 23, MM, Manimajra, Chandigarh email: soigneconsultants@gmail.com	BOREHOLE	LOCATION	JOB NO.	PAGE NO
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PROJECT :- GEOTECHNICAL INVESTIGATION REPORT FOR REDEVELOPMENT OF BOTANICAL GARDEN OF INDIAN REPUBLIC NOIDA.	STARTING DEPTH	0.0 M	WATER TABLE DEPTH
CLIENT :-EXECUTIVE ENGINEER (P) NOIDA CENTRAL DIVISION CPWD, NEW DELHI	TERMINATION DEPTH	40.0 M	13.7 M

BORE LOG SHEET

Sample					Symbolic representation	Grain Size Analysis			Atterberg limit			Density		Moisture Content (%)	Shear Parameters				Specific Gravity
Depth (m)	Sample No	Sample Type	Observed N-Value	Corrected N-value		Gravel (%)	Sand (%)	Silt Clay (%)	Liquid limit (%)	Plastic Limit (%)	Plasticity index	Bulk Density (gm/cc)	Dry Density (gm/cc)		Cohesion, c (t/m2)	Angle of Internal Friction,	Coefficent of consolidation, Cc	Void Ratio, eo	
15.00	S-10/11	SPT	40.0	27.5	SP	0.0	98.0	2.0	-	-	-	1.86	1.68	10.5	-	-	-	-	-
16.00	S-10/12	SPT	47.0	30.8	CL	0.0	3.0	97.0	-	-	-	-	-	12.2	-	-	-	-	-
18.00	S-10/13	SPT	52.0	32.5	CL	-	-	-	31.5	18.9	12.6	1.96	1.71	14.6	-	-	0.19	0.92	2.28
19.50	S-10/14	SPT	56.0	33.5	CL	0.0	9.0	91.0	-	-	-	-	-	-	-	-	-	-	-
21.00	S-10/15	SPT	62.0	35.6	CL	-	-	-	-	-	-	-	-	15.9	-	-	-	-	-
22.50	S-10/16	SPT	72.0	39.7	CL	0.0	21.0	79.0	-	-	-	-	-	-	-	-	-	-	-
24.00	S-10/17	SPT	82.0	43.4	SP	0.0	78.0	22.0	NP	NP	NP	-	-	16.9	-	-	-	-	2.32
25.50	S-10/18	SPT	87.0	44.3	SP	-	-	-	NP	NP	NP	2.05	1.74	17.8	-	-	-	-	-
27.00	S-10/19	SPT	94.0	46.1	SP	-	-	-	NP	NP	NP	-	-	-	-	-	-	-	-
28.50	S-10/20	SPT	REFUSAL		SP	0.0	92.0	8.0	NP	NP	NP	-	-	18.0	-	-	-	-	-

SOIGNE ENGINEERING CONSULTANTS SCF 23, MM, Manimajra, Chandigarh email: soigneconsultants@gmail.com	BOREHOLE	LOCATION	JOB NO.	PAGE NO
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PROJECT :- GEOTECHNICAL INVESTIGATION REPORT FOR REDEVELOPMENT OF BOTANICAL GARDEN OF INDIAN REPUBLIC NOIDA.	STARTING DEPTH	0.0 M	WATER TABLE DEPTH
CLIENT :-EXECUTIVE ENGINEER (P) NOIDA CENTRAL DIVISION CPWD, NEW DELHI	TERMINATION DEPTH	40.0 M	13.7 M

BORE LOG SHEET

Sample					Symbolic representation	Grain Size Analysis			Atterberg limit			Density		Moisture Content (%)	Shear Parameters				Specific Gravity
Depth (m)	Sample No	Sample Type	Observed N-Value	Corrected N-value		Gravel (%)	Sand (%)	Silt Clay (%)	Liquid limit (%)	Plastic Limit (%)	Plasticity index	Bulk Density (gm/cc)	Dry Density (gm/cc)		Cohesion, c (t/m2)	Angle of internal Friction,	Coefficent of consolidation, Cc	Void Ratio, eo	
30.00	S-10/21	SPT	REFUSAL		SP	-	-	-	NP	NP	NP	-	-	-	-	-	-	-	-
31.00	S-10/22	SPT	REFUSAL		SP	0.0	94.0	6.0	NP	NP	NP	2.16	-	18.3	-	-	-	-	2.46
33.00	S-10/23	SPT	REFUSAL		SP	-	-	-	NP	NP	NP	-	-	-	-	-	-	-	-
34.50	S-10/24	SPT	REFUSAL		SP	0.0	97.0	3.0	NP	NP	NP	2.22	1.86	19.3	-	-	-	-	-
36.00	S-10/25	SPT	REFUSAL		SP	-	-	-	NP	NP	NP	-	-	-	-	-	-	-	-
37.50	S-10/26	SPT	REFUSAL		SP	0.0	90.0	10.0	NP	NP	NP	2.31	1.93	19.5	-	-	-	-	2.48
39.00	S-10/27	SPT	REFUSAL		CL	0.0	29.0	71.0	27.9	18.3	9.6	-	-	-	-	-	-	-	-
40.00	S-10/28	SPT	REFUSAL		CL	0.0	6.0	94.0	-	-	-	-	-	19.6	-	-	-	-	-

SOIGNE ENGINEERING CONSULTANTS SCF 23, MM, Manimajra, Chandigarh email: soigneconsultants@gmail.com	BOREHOLE	LOCATION	JOB NO.	PAGE NO
	11	N-3161327 E-727790	GT-1997	

PROJECT :- GEOTECHNICAL INVESTIGATION REPORT FOR REDEVELOPMENT OF BOTANICAL GARDEN OF INDIAN REPUBLIC NOIDA.	STARTING DEPTH	0.0 M	WATER TABLE DEPTH
CLIENT :-EXECUTIVE ENGINEER (P) NOIDA CENTRAL DIVISION CPWD, NEW DELHI	TERMINATION DEPTH	40.0 M	13.5 M

BORE LOG SHEET

Sample					Symbolic representation	Grain Size Analysis			Atterberg limit			Density		Moisture Content (%)	Shear Parameters				Specific Gravity
Depth (m)	Sample No	Sample Type	Observed N-Value	Corrected N-value		Gravel (%)	Sand (%)	Silt Clay (%)	Liquid limit (%)	Plastic Limit (%)	Plasticity index	Bulk Density (gm/cc)	Dry Density (gm/cc)		Cohesion, c (t/m2)	Angle of Internal Friction,	Coefficent of consolidation, Cc	Void Ratio, eo	
0.75	S-11/1	SPT	4.0	6.8	CL	0.0	15.0	85.0	-	-	-	-	-	2.6	-	-	-	-	-
1.50	S-11/2	SPT	9.0	13.1	SP	0.0	97.0	3.0	NP	NP	NP	1.64	1.59	3.3	-	27.0	-	-	2.41
3.00	S-11/3	SPT	11.0	13.5	SP	-	-	-	NP	NP	NP	-	-	3.9	-	-	-	-	-
4.50	S-11/4	SPT	12.0	13.1	SP	-	-	-	NP	NP	NP	-	-	-	-	-	-	-	-
6.00	S-11/5	SPT	13.0	12.9	SP	0.0	96.0	4.0	NP	NP	NP	1.69	1.60	5.5	-	28.0	-	-	2.43
7.50	S-11/6	SPT	16.0	14.7	SP	-	-	-	NP	NP	NP	-	-	-	-	-	-	-	-
9.00	S-11/7	SPT	19.0	16.3	SP	0.0	94.0	6.0	NP	NP	NP	1.72	1.62	6.2	-	-	-	-	-
10.50	S-11/8	SPT	24.0	19.3	SP	-	-	-	NP	NP	NP	-	-	-	-	-	-	-	-
12.00	S-11/9	SPT	28.0	21.3	SP	0.0	93.0	7.0	NP	NP	NP	-	-	7.6	-	32.0	-	-	-
13.50	S-11/10	SPT	33.0	23.8	SP	-	-	-	NP	NP	NP	-	-	-	-	-	-	-	-

SOIGNE ENGINEERING CONSULTANTS SCF 23, MM, Manimajra, Chandigarh email: soigneconsultants@gmail.com	BOREHOLE	LOCATION	JOB NO.	PAGE NO
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PROJECT :- GEOTECHNICAL INVESTIGATION REPORT FOR REDEVELOPMENT OF BOTANICAL GARDEN OF INDIAN REPUBLIC NOIDA.	STARTING DEPTH	0.0 M	WATER TABLE DEPTH
CLIENT :-EXECUTIVE ENGINEER (P) NOIDA CENTRAL DIVISION CPWD, NEW DELHI	TERMINATION DEPTH	40.0 M	13.5 M

BORE LOG SHEET

Sample					Symbolic representation	Grain Size Analysis			Atterberg limit			Density		Moisture Content (%)	Shear Parameters				Specific Gravity
Depth (m)	Sample No	Sample Type	Observed N-Value	Corrected N-value		Gravel (%)	Sand (%)	Silt Clay (%)	Liquid limit (%)	Plastic Limit (%)	Plasticity index	Bulk Density (gm/cc)	Dry Density (gm/cc)		Cohesion, c (t/m2)	Angle of Internal Friction,	Coefficent of consolidation, Cc	Void Ratio, eo	
15.00	S-11/11	SPT	41.0	28.2	SP	0.0	92.0	8.0	NP	NP	NP	1.88	1.67	12.5	-	-	-	-	-
16.00	S-11/12	SPT	48.0	31.4	SP	-	-	-	NP	NP	NP	-	-	14.2	-	-	-	-	-
18.00	S-11/13	SPT	52.0	32.5	SP	-	-	-	NP	NP	NP	1.95	1.69	15.3	-	-	-	-	2.45
19.50	S-11/14	SPT	58.0	34.7	SP	0.0	95.0	5.0	NP	NP	NP	-	-	-	-	37.0	-	-	-
21.00	S-11/15	SPT	67.0	38.5	SP	-	-	-	NP	NP	NP	-	-	17.5	-	-	-	-	-
22.50	S-11/16	SPT	76.0	41.9	SP	9.0	83.0	8.0	NP	NP	NP	-	-	-	-	-	-	-	-
24.00	S-11/17	SPT	82.0	43.4	SP	16.0	80.0	4.0	NP	NP	NP	-	-	18.2	-	-	-	-	2.32
25.50	S-11/18	SPT	88.0	44.8	SP	-	-	-	NP	NP	NP	2.07	1.75	18.6	-	-	-	-	-
27.00	S-11/19	SPT	95.0	46.6	SP	-	-	-	NP	NP	NP	-	-	-	-	-	-	-	-
28.50	S-11/20	SPT	REFUSAL		SP	0.0	93.0	7.0	NP	NP	NP	-	-	19.0	-	-	-	-	-

SOIGNE ENGINEERING CONSULTANTS SCF 23, MM, Manimajra, Chandigarh email: soigneconsultants@gmail.com	BOREHOLE	LOCATION	JOB NO.	PAGE NO
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PROJECT :- GEOTECHNICAL INVESTIGATION REPORT FOR REDEVELOPMENT OF BOTANICAL GARDEN OF INDIAN REPUBLIC NOIDA.	STARTING DEPTH	0.0 M	WATER TABLE DEPTH
CLIENT :-EXECUTIVE ENGINEER (P) NOIDA CENTRAL DIVISION CPWD, NEW DELHI	TERMINATION DEPTH	40.0 M	13.5 M

BORE LOG SHEET

Sample					Symbolic representation	Grain Size Analysis			Atterberg limit			Density		Moisture Content (%)	Shear Parameters				Specific Gravity
Depth (m)	Sample No	Sample Type	Observed N-Value	Corrected N-value		Gravel (%)	Sand (%)	Silt Clay (%)	Liquid limit (%)	Plastic Limit (%)	Plasticity index	Bulk Density (gm/cc)	Dry Density (gm/cc)		Cohesion, c (t/m2)	Angle of Internal Friction,	Coefficent of consolidation, Cc	Void Ratio, eo	
30.00	S-11/21	SPT	REFUSAL		SP	-	-	-	NP	NP	NP	-	-	-	-	-	-	-	-
31.00	S-11/22	SPT	REFUSAL		SP	0.0	84.0	16.0	NP	NP	NP	2.14	1.80	19.2	-	-	-	-	2.35
33.00	S-11/23	SPT	REFUSAL		CL	0.0	15.0	85.0	29.9	18.6	11.3	-	-	-	-	-	0.18	0.87	-
34.50	S-11/24	SPT	REFUSAL		CL	-	-	-	-	-	-	2.25	1.88	19.6	-	-	-	-	-
36.00	S-11/25	SPT	REFUSAL		CL	-	-	-	-	-	-	-	-	-	-	-	-	-	-
37.50	S-11/26	SPT	REFUSAL		CL	0.0	20.0	80.0	-	-	-	2.32	1.93	19.9	-	-	-	-	2.33
39.00	S-11/27	SPT	REFUSAL		CL	-	-	-	-	-	-	-	-	-	-	-	-	-	-
40.00	S-11/28	SPT	REFUSAL		CL	0.0	18.0	82.0	-	-	-	-	-	19.9	-	-	-	-	-

SOIGNE ENGINEERING CONSULTANTS SCF 23, MM, Manimajra, Chandigarh email: soigneconsultants@gmail.com	BOREHOLE	LOCATION	JOB NO.	PAGE NO
	12	N-3161238.90 E-727620.68	GT-1997	

PROJECT :- GEOTECHNICAL INVESTIGATION REPORT FOR REDEVELOPMENT OF BOTANICAL GARDEN OF INDIAN REPUBLIC NOIDA.	STARTING DEPTH	0.0 M	WATER TABLE DEPTH
CLIENT :-EXECUTIVE ENGINEER (P) NOIDA CENTRAL DIVISION CPWD, NEW DELHI	TERMINATION DEPTH	40.0 M	11.7 M

BORE LOG SHEET

Sample					Symbolic representation	Grain Size Analysis			Atterberg limit			Density		Moisture Content (%)	Shear Parameters				Specific Gravity
Depth (m)	Sample No	Sample Type	Observed N-Value	Corrected N-value		Gravel (%)	Sand (%)	Silt Clay (%)	Liquid limit (%)	Plastic Limit (%)	Plasticity Index	Bulk Density (gm/cc)	Dry Density (gm/cc)		Cohesion, c (t/m2)	Angle of Internal Friction,	Coefficient of consolidation, Cc	Void Ratio, eo	
0.75	S-13/1	SPT	6.0	10.1	CL	0.0	13.0	87.0	-	-	-	-	-	1.7	-	-	-	-	-
1.50	S-13/2	SPT	9.0	16.0	SP	0.0	96.0	4.0	NP	NP	NP	1.64	1.57	4.3	-	28.0	-	-	2.41
3.00	S-13/3	SPT	11.0	13.5	SP	-	-	-	NP	NP	NP	-	-	5.2	-	-	-	-	-
4.50	S-13/4	SPT	12.0	13.1	SP	-	-	-	NP	NP	NP	-	-	-	-	-	-	-	-
6.00	S-13/5	SPT	13.0	12.9	SP	0.0	92.0	8.0	NP	NP	NP	1.66	1.56	6.3	-	30.0	-	-	2.44
7.50	S-13/6	SPT	16.0	13.8	SP	-	-	-	NP	NP	NP	-	-	-	-	-	-	-	-
9.00	S-13/7	SPT	18.0	16.3	SP	0.0	98.0	2.0	NP	NP	NP	1.72	1.61	6.9	-	-	-	-	-
10.50	S-13/8	SPT	21.0	17.7	SP	-	-	-	NP	NP	NP	-	-	-	-	-	-	-	-
12.00	S-13/9	SPT	25.0	19.8	SP	0.0	90.0	10.0	NP	NP	NP	-	-	7.9	-	-	-	-	-
13.50	S-13/10	SPT	28.0	20.2	SP	-	-	-	NP	NP	NP	-	-	-	-	-	-	-	-

SOIGNE ENGINEERING CONSULTANTS SCF 23, MM, Manimajra, Chandigarh email: soigneconsultants@gmail.com	BOREHOLE	LOCATION	JOB NO.	PAGE NO
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PROJECT :- GEOTECHNICAL INVESTIGATION REPORT FOR REDEVELOPMENT OF BOTANICAL GARDEN OF INDIAN REPUBLIC NOIDA.	STARTING DEPTH	0.0 M	WATER TABLE DEPTH
CLIENT :-EXECUTIVE ENGINEER (P) NOIDA CENTRAL DIVISION CPWD, NEW DELHI	TERMINATION DEPTH	40.0 M	11.7 M

BORE LOG SHEET

Sample					Symbolic representation	Grain Size Analysis			Atterberg limit			Density		Moisture Content (%)	Shear Parameters				Specific Gravity
Depth (m)	Sample No.	Sample Type	Observed N-Value	Corrected N-value		Gravel (%)	Sand (%)	Silt Clay (%)	Liquid limit (%)	Plastic Limit (%)	Plasticity Index	Bulk Density (gm/cc)	Dry Density (gm/cc)		Cohesion, c (t/m2)	Angle of Internal Friction,	Coefficent of consolidation, Cc	Void Ratio, eo	
15.00	S-13/11	SPT	31.0	21.3	SP	0.0	87.0	13.0	NP	NP	NP	1.83	1.64	11.9	-	32.0	-	-	-
16.00	S-13/12	SPT	38.0	30.8	SP	-	-	-	NP	NP	NP	-	-	12.9	-	-	-	-	-
18.00	S-13/13	SPT	47.0	34.4	SP	-	-	-	NP	NP	NP	1.64	1.44	13.9	-	-	-	-	2.43
19.50	S-13/14	SPT	57.0	35.9	SP	0.0	81.0	19.0	NP	NP	NP	-	-	-	-	-	-	-	-
21.00	S-13/15	SPT	65.0	38.5	SP	-	-	-	NP	NP	NP	-	-	15.2	-	-	-	-	-
22.50	S-13/16	SPT	72.0	39.7	SP	9.0	79.0	12.0	NP	NP	NP	-	-	-	-	-	-	-	-
24.00	S-13/17	SPT	76.0	41.3	SP	13.0	83.0	4.0	NP	NP	NP	-	-	15.9	-	-	-	-	2.49
25.50	S-13/18	SPT	82.0	41.8	SP	-	-	-	NP	NP	NP	2.06	1.76	16.8	-	-	-	-	-
27.00	S-13/19	SPT	85.0	42.7	SP	-	-	-	NP	NP	NP	-	-	-	-	-	-	-	-
28.50	S-13/20	SPT	93.0	44.9	SP	0.0	86.0	14.0	NP	NP	NP	-	-	17.9	-	-	-	-	-

SOIGNE ENGINEERING CONSULTANTS SCF 23, MM, Manimajra, Chandigarh email: soigneconsultants@gmail.com	BOREHOLE	LOCATION	JOB NO.	PAGE NO
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PROJECT :- GEOTECHNICAL INVESTIGATION REPORT FOR REDEVELOPMENT OF BOTANICAL GARDEN OF INDIAN REPUBLIC NOIDA.	STARTING DEPTH	0.0 M	WATER TABLE DEPTH
CLIENT :-EXECUTIVE ENGINEER (P) NOIDA CENTRAL DIVISION CPWD, NEW DELHI	TERMINATION DEPTH	40.0 M	11.7 M

BORE LOG SHEET

Sample					Symbolic representation	Grain Size Analysis			Atterberg limit			Density		Moisture Content (%)	Shear Parameters				Specific Gravity
Depth (m)	Sample No	Sample Type	Observed N-Value	Corrected N-value		Gravel (%)	Sand (%)	Silt Clay (%)	Liquid limit (%)	Plastic Limit (%)	Plasticity Index	Bulk Density (gm/cc)	Dry Density (gm/cc)		Cohesion, c (t/m2)	Angle of Internal Friction,	Coefficent of consolidation, Cc	Void Ratio, eo	
30.00	S-15/21	SPT	REFUSAL		SP	-	-	-	NP	NP	NP	-	-	-	-	-	-	-	-
31.00	S-15/22	SPT	REFUSAL		SP	0.0	90.0	10.0	NP	NP	NP	2.12	1.80	18.0	-	-	-	-	2.32
33.00	S-15/23	SPT	REFUSAL		CL	0.0	6.0	94.0	31.6	19.2	12.4	-	-	-	-	-	0.19	0.92	-
34.50	S-15/24	SPT	REFUSAL		CL	-	-	-	-	-	-	2.22	1.88	18.3	-	-	-	-	-
36.00	S-15/25	SPT	REFUSAL		CL	-	-	-	-	-	-	-	-	-	-	-	-	-	-
37.50	S-15/26	SPT	REFUSAL		CL	0.0	16.0	84.0	-	-	-	2.31	1.94	18.9	-	-	-	-	2.33
39.00	S-15/27	SPT	REFUSAL		CL	-	-	-	-	-	-	-	-	-	-	-	-	-	-
40.00	S-15/28	SPT	REFUSAL		CL	0.0	19.0	81.0	-	-	-	-	-	19.1	-	-	-	-	-

SOIGNE ENGINEERING CONSULTANTS SCF 23, MM, Manimajra, Chandigarh email: soigneconsultants@gmail.com	BOREHOLE	LOCATION	JOB NO.	PAGE NO
	13	N-3161359 E-727613	GT-1997	

PROJECT :- GEOTECHNICAL INVESTIGATION REPORT FOR REDEVELOPMENT OF BOTANICAL GARDEN OF INDIAN REPUBLIC NOIDA.	STARTING DEPTH	0.0 M	WATER TABLE DEPTH
CLIENT :-EXECUTIVE ENGINEER (P) NOIDA CENTRAL DIVISION CPWD, NEW DELHI	TERMINATION DEPTH	40.0 M	11.4 M

BORE LOG SHEET

Sample					Symbolic representation	Grain Size Analysis			Atterberg limit			Density		Moisture Content (%)	Shear Parameters				Specific Gravity
Depth (m)	Sample No	Sample Type	Observed N-Value	Corrected N-value		Gravel (%)	Sand (%)	Silt Clay (%)	Liquid limit (%)	Plastic Limit (%)	Plasticity Index	Bulk Density (gm/cc)	Dry Density (gm/cc)		Cohesion, c (t/m2)	Angle of Internal Friction,	Coefficent of consolidation, Cc	Void Ratio, eo	
0.75	S-13/1	SPT	5.0	8.5	CL	0.0	11.0	89.0	-	-	-	-	-	1.9	-	-	-	-	-
1.50	S-13/2	SPT	11.0	15.5	SP	0.0	91.0	9.0	NP	NP	NP	1.63	1.57	3.9	-	27.0	-	-	2.40
3.00	S-13/3	SPT	11.0	13.5	SP	-	-	-	NP	NP	NP	-	-	4.9	-	-	-	-	-
4.50	S-13/4	SPT	12.0	13.1	SP	-	-	-	NP	NP	NP	-	-	-	-	-	-	-	-
6.00	S-13/5	SPT	13.0	12.9	SP	0.0	93.0	7.0	NP	NP	NP	1.67	1.58	5.6	-	28.0	-	-	2.42
7.50	S-13/6	SPT	15.0	13.8	SP	-	-	-	NP	NP	NP	-	-	-	-	-	-	-	-
9.00	S-13/7	SPT	19.0	15.4	SP	0.0	96.0	4.0	NP	NP	NP	1.77	1.66	6.6	-	-	-	-	-
10.50	S-13/8	SPT	22.0	16.9	SP	-	-	-	NP	NP	NP	-	-	-	-	-	-	-	-
12.00	S-13/9	SPT	26.0	19.0	SP	0.0	92.0	8.0	NP	NP	NP	-	-	7.4	-	32.0	-	-	-
13.50	S-13/10	SPT	28.0	20.2	SP	-	-	-	NP	NP	NP	-	-	-	-	-	-	-	-

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PROJECT :- GEOTECHNICAL INVESTIGATION REPORT FOR REDEVELOPMENT OF BOTANICAL GARDEN OF INDIAN REPUBLIC NOIDA.	STARTING DEPTH	0.0 M	WATER TABLE DEPTH
CLIENT :-EXECUTIVE ENGINEER (P) NOIDA CENTRAL DIVISION CPWD, NEW DELHI	TERMINATION DEPTH	40.0 M	11.4 M

BORE LOG SHEET

Sample					Symbolic representation	Grain Size Analysis			Atterberg limit			Density		Moisture Content (%)	Shear Parameters				Specific Gravity
Depth (m)	Sample No	Sample Type	Observed N-Value	Corrected N-value		Gravel (%)	Sand (%)	Silt Clay (%)	Liquid limit (%)	Plastic Limit (%)	Plasticity index	Bulk Density (gm/cc)	Dry Density (gm/cc)		Cohesion, c (t/m2)	Angle of internal Friction,	Coefficent of consolidation, Cc	Void Ratio, eo	
15.00	S-13/11	SPT	31.0	21.3	SP	0.0	90.0	10.0	-	-	-	1.86	1.67	11.6	-	-	-	-	-
16.00	S-13/12	SPT	47.0	24.9	SP	-	-	-	-	-	-	-	-	13.9	-	-	-	-	-
18.00	S-13/13	SPT	55.0	29.4	SP	-	-	-	-	-	-	1.99	1.73	14.9	-	-	-	-	2.46
19.50	S-13/14	SPT	60.0	34.1	SP	0.0	88.0	12.0	-	-	-	-	-	-	-	-	-	-	-
21.00	S-13/15	SPT	67.0	37.3	SP	-	-	-	-	-	-	-	-	16.3	-	-	-	-	-
22.50	S-13/16	SPT	72.0	39.7	SP	5.0	89.0	6.0	-	-	-	-	-	-	-	-	-	-	-
24.00	S-13/17	SPT	78.0	40.3	SP	12.0	82.0	6.0	-	-	-	-	-	16.9	-	-	-	-	2.33
25.50	S-13/18	SPT	82.0	41.8	SP	-	-	-	NP	NP	NP	2.10	1.78	17.9	-	-	-	-	-
27.00	S-13/19	SPT	87.0	41.7	SP	-	-	-	NP	NP	NP	-	-	-	-	-	-	-	-
28.50	S-13/20	SPT	95.0	43.9	SP	0.0	89.0	11.0	NP	NP	NP	-	-	18.1	-	-	-	-	-

SOIGNE ENGINEERING CONSULTANTS SCF 23, MM, Manimajra, Chandigarh email: soigneconsultants@gmail.com	BOREHOLE	LOCATION	JOB NO.	PAGE NO
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PROJECT :- GEOTECHNICAL INVESTIGATION REPORT FOR REDEVELOPMENT OF BOTANICAL GARDEN OF INDIAN REPUBLIC NOIDA.	STARTING DEPTH	0.0 M	WATER TABLE DEPTH
CLIENT :-EXECUTIVE ENGINEER (P) NOIDA CENTRAL DIVISION CPWD, NEW DELHI	TERMINATION DEPTH	40.0 M	11.4 M

BORE LOG SHEET

Sample					Symbolic representation	Grain Size Analysis			Atterberg limit			Density		Moisture Content (%)	Shear Parameters				Specific Gravity
Depth (m)	Sample No	Sample Type	Observed N-Value	Corrected N-value		Gravel (%)	Sand (%)	Silt Clay (%)	Liquid limit (%)	Plastic Limit (%)	Plasticity Index	Bulk Density (gm/cc)	Dry Density (gm/cc)		Cohesion, c (t/m2)	Angle of Internal Friction,	Coefficent of consolidation, Cc	Void Ratio, eo	
30.00	S-13/21	SPT	REFUSAL		SP	-	-	-	NP	NP	NP	-	-	-	-	-	-	-	-
31.00	S-13/22	SPT	REFUSAL		SP	0.0	86.0	14.0	NP	NP	NP	2.16	1.83	18.3	-	-	-	-	2.34
33.00	S-13/23	SPT	REFUSAL		CL	0.0	11.0	89.0	30.2	18.2	12.0	-	-	-	-	-	0.18	0.88	-
34.50	S-13/24	SPT	REFUSAL		CL	-	-	-	-	-	-	2.24	1.89	18.6	-	-	-	-	-
36.00	S-13/25	SPT	REFUSAL		CL	-	-	-	-	-	-	-	-	-	-	-	-	-	-
37.50	S-13/26	SPT	REFUSAL		CL	0.0	17.0	83.0	-	-	-	2.35	1.97	19.2	-	-	-	-	2.31
39.00	S-13/27	SPT	REFUSAL		CL	-	-	-	-	-	-	-	-	-	-	-	-	-	-
40.00	S-13/28	SPT	REFUSAL		CL	0.0	16.0	84.0	-	-	-	-	-	19.5	-	-	-	-	-

SOIGNE ENGINEERING CONSULTANTS SCF 23, MM, Manimajra, Chandigarh email: soigneconsultants@gmail.com	BOREHOLE	LOCATION	JOB NO.	PAGE NO
	14	N-3161567 E-727547	GT-1997	

PROJECT :- GEOTECHNICAL INVESTIGATION REPORT FOR REDEVELOPMENT OF BOTANICAL GARDEN OF INDIAN REPUBLIC NOIDA.	STARTING DEPTH	0.0 M	WATER TABLE DEPTH
CLIENT :-EXECUTIVE ENGINEER (P) NOIDA CENTRAL DIVISION CPWD, NEW DELHI	TERMINATION DEPTH	40.0 M	12.5 M

BORE LOG SHEET

Sample					Symbolic representation	Grain Size Analysis			Atterberg limit			Density		Moisture Content (%)	Shear Parameters				Specific Gravity
Depth (m)	Sample No	Sample Type	Observed N-Value	Corrected N-value		Gravel (%)	Sand (%)	Silt Clay (%)	Liquid limit (%)	Plastic Limit (%)	Plasticity Index	Bulk Density (gm/cc)	Dry Density (gm/cc)		Cohesion, c (t/m2)	Angle of Internal Friction,	Coefficent of consolidation, Cc	Void Ratio, eo	
0.75	S-14/1	SPT	6.0	10.1	CL	0.0	4.0	96.0	-	-	-	-	-	2.3	-	-	-	-	-
1.50	S-14/2	SPT	7.0	10.2	SP	0.0	73.0	27.0	NP	NP	NP	1.66	1.61	2.9	0.9	22.0	-	-	2.42
3.00	S-14/3	SPT	10.0	12.3	SP	0.0	94.0	6.0	NP	NP	NP	-	-	3.3	-	-	-	-	-
4.50	S-14/4	SPT	11.0	12.0	SP	-	-	-	NP	NP	NP	-	-	-	-	-	-	-	-
6.00	S-14/5	SPT	13.0	12.9	SP	0.0	95.0	5.0	NP	NP	NP	1.72	1.64	4.8	-	27.0	-	-	2.48
7.50	S-14/6	SPT	17.0	15.6	SP	-	-	-	NP	NP	NP	-	-	-	-	-	-	-	-
9.00	S-14/7	SPT	19.0	16.3	SP	5.0	92.0	3.0	NP	NP	NP	1.77	1.67	5.7	-	-	-	-	-
10.50	S-14/8	SPT	22.0	17.7	SP	-	-	-	NP	NP	NP	-	-	-	-	-	-	-	-
12.00	S-14/9	SPT	27.0	20.6	SP	0.0	95.0	5.0	NP	NP	NP	-	-	7.5	-	33.0	-	-	-
13.50	S-14/10	SPT	31.0	22.4	SP	-	-	-	NP	NP	NP	-	-	-	-	-	-	-	-

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PROJECT :- GEOTECHNICAL INVESTIGATION REPORT FOR REDEVELOPMENT OF BOTANICAL GARDEN OF INDIAN REPUBLIC NOIDA.	STARTING DEPTH	0.0 M	WATER TABLE DEPTH
CLIENT :-EXECUTIVE ENGINEER (P) NOIDA CENTRAL DIVISION CPWD, NEW DELHI	TERMINATION DEPTH	40.0 M	12.5 M

BORE LOG SHEET

Sample					Symbolic representation	Grain Size Analysis			Atterberg limit			Density		Moisture Content (%)	Shear Parameters				Specific Gravity
Depth (m)	Sample No	Sample Type	Observed N-Value	Corrected N-value		Gravel (%)	Sand (%)	Silt Clay (%)	Liquid limit (%)	Plastic Limit (%)	Plasticity Index	Bulk Density (gm/cc)	Dry Density (gm/cc)		Cohesion, c (t/m2)	Angle of Internal Friction,	Coefficent of consolidation, Cc	Void Ratio, eo	
15.00	S-14/11	SPT	35.0	24.0	SP	0.0	93.0	7.0	-	-	-	1.82	1.61	13.2	-	-	-	-	-
16.00	S-14/12	SPT	41.0	26.9	SP	0.0	88.0	12.0	-	-	-	-	-	14.9	-	-	-	-	-
18.00	S-14/13	SPT	54.0	33.8	SP	-	-	-	-	-	-	1.90	1.64	15.8	-	37.0	-	-	2.32
19.50	S-14/14	SPT	62.0	37.1	SP	-	-	-	-	-	-	-	-	-	-	-	-	-	-
21.00	S-14/15	SPT	73.0	41.9	SP	0.0	85.0	15.0	-	-	-	-	-	16.9	-	-	-	-	-
22.00	S-14/16	SPT	78.0	43.0	CL	0.0	14.0	86.0	-	-	-	-	-	-	-	-	-	-	-
24.00	S-14/17	SPT	83.0	44.0	CL	0.0	9.0	91.0	-	-	-	-	-	18.0	-	-	-	-	2.41
25.50	S-14/18	SPT	88.0	44.8	CL	-	-	-	31.5	16.8	14.7	2.11	1.77	19.2	-	-	0.19	0.92	-
27.00	S-14/19	SPT	94.0	46.1	CL	-	-	-	-	-	-	-	-	-	-	-	-	-	-
28.50	S-14/20	SPT	REFUSAL		CL	0.0	11.0	89.0	-	-	-	-	-	19.3	-	-	-	-	-

SOIGNE ENGINEERING CONSULTANTS SCF 23, MM, Manimajra, Chandigarh email: soigneconsultants@gmail.com	BOREHOLE	LOCATION	JOB NO.	PAGE NO
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PROJECT :- GEOTECHNICAL INVESTIGATION REPORT FOR REDEVELOPMENT OF BOTANICAL GARDEN OF INDIAN REPUBLIC NOIDA.	STARTING DEPTH	0.0 M	WATER TABLE DEPTH
CLIENT :-EXECUTIVE ENGINEER (P) NOIDA CENTRAL DIVISION CPWD, NEW DELHI	TERMINATION DEPTH	40.0 M	12.5 M

BORE LOG SHEET

Sample					Symbolic representation	Grain Size Analysis			Atterberg limit			Density		Moisture Content (%)	Shear Parameters				Specific Gravity
Depth (m)	Sample No	Sample Type	Observed N-Value	Corrected N-value		Gravel (%)	Sand (%)	Silt Clay (%)	Liquid limit (%)	Plastic Limit (%)	Plasticity index	Bulk Density (gm/cc)	Dry Density (gm/cc)		Cohesion, c (t/m2)	Angle of Internal Friction,	Coefficent of consolidation, Cc	Void Ratio, eo	
30.00	S-14/21	SPT	REFUSAL		CL	-	-	-	-	-	-	-	-	-	-	-	-	-	-
31.50	S-14/22	SPT	REFUSAL		CL	0.0	18.0	82.0	-	-	-	2.19	-	19.4	-	-	0.20	0.94	2.47
32.50	S-14/23	SPT	REFUSAL		CL	-	-	-	-	-	-	-	-	-	-	-	-	-	-
34.50	S-14/24	SPT	REFUSAL		SP	10.0	80.0	10.0	NP	NP	NP	2.25	1.88	19.9	-	-	-	-	-
36.00	S-14/25	SPT	REFUSAL		SP	-	-	-	NP	NP	NP	-	-	-	-	-	-	-	-
37.50	S-14/26	SPT	REFUSAL		SP	11.0	82.0	7.0	NP	NP	NP	2.31	1.93	20.0	-	-	-	-	2.47
39.00	S-14/27	SPT	REFUSAL		SP	-	-	-	NP	NP	NP	-	-	-	-	-	-	-	-
40.00	S-14/28	SPT	REFUSAL		SP	9.0	80.0	11.0	NP	NP	NP	-	-	20.4	-	-	-	-	-

SOIGNE ENGINEERING CONSULTANTS SCF 23, MM, Manimajra, Chandigarh email: soigneconsultants@gmail.com	BOREHOLE	LOCATION	JOB NO.	PAGE NO
	15	N-3161291 E-727514	GT-1997	

PROJECT :- GEOTECHNICAL INVESTIGATION REPORT FOR REDEVELOPMENT OF BOTANICAL GARDEN OF INDIAN REPUBLIC NOIDA.	STARTING DEPTH	0.0 M	WATER TABLE DEPTH
CLIENT :-EXECUTIVE ENGINEER (P) NOIDA CENTRAL DIVISION CPWD, NEW DELHI	TERMINATION DEPTH	40.0 M	12.9 M

BORE LOG SHEET

Sample						Grain Size Analysis			Atterberg limit			Density			Shear Parameters				
Depth (m)	Sample No	Sample Type	Observed N-Value	Corrected N-value	Symbolic representation	Gravel (%)	Sand (%)	Silt Clay (%)	Liquid limit (%)	Plastic Limit (%)	Plasticity Index	Bulk Density (gm/cc)	Dry Density (gm/cc)	Moisture Content (%)	Cohesion, c (t/m2)	Angle of Internal Friction,	Coefficient of consolidation, Cc	Void Ratio, eo	Specific Gravity
0.75	S-15/1	SPT	5.0	8.5	CL	0.0	25.0	75.0	-	-	-	-	-	2.4	-	-	-	-	-
1.50	S-15/2	SPT	6.0	8.8	SP	0.0	84.0	16.0	NP	NP	NP	1.65	1.58	4.6	-	24.0	-	-	2.41
3.00	S-15/3	SPT	9.0	11.0	SP	-	-	-	NP	NP	NP	-	-	5.8	-	-	-	-	-
4.50	S-15/4	SPT	10.0	10.9	SP	-	-	-	NP	NP	NP	-	-	-	-	-	-	-	-
6.00	S-15/5	SPT	13.0	12.9	SP	0.0	95.0	5.0	NP	NP	NP	1.69	1.59	6.5	-	27.0	-	-	2.45
7.50	S-15/6	SPT	20.0	18.4	SP	-	-	-	NP	NP	NP	-	-	-	-	-	-	-	-
9.00	S-15/7	SPT	19.0	16.3	SP	0.0	92.0	8.0	NP	NP	NP	1.76	1.64	7.3	-	31.0	-	-	-
10.50	S-15/8	SPT	24.0	19.4	SP	-	-	-	NP	NP	NP	-	-	-	-	-	-	-	-
12.00	S-15/9	SPT	27.0	20.6	SP	0.0	90.0	10.0	NP	NP	NP	-	-	8.6	-	-	-	-	-
13.50	S-15/10	SPT	32.0	23.2	SP	-	-	-	NP	NP	NP	-	-	-	-	-	-	-	-

SOIGNE ENGINEERING CONSULTANTS SCF 23, MM, Manimajra, Chandigarh email: soigneconsultants@gmail.com	BOREHOLE	LOCATION	JOB NO.	PAGE NO
	15	N-3161291 E-727514	GT-1997	

PROJECT :- GEOTECHNICAL INVESTIGATION REPORT FOR REDEVELOPMENT OF BOTANICAL GARDEN OF INDIAN REPUBLIC NOIDA.	STARTING DEPTH	0.0 M	WATER TABLE DEPTH
CLIENT :-EXECUTIVE ENGINEER (P) NOIDA CENTRAL DIVISION CPWD, NEW DELHI	TERMINATION DEPTH	40.0 M	12.9 M

BORE LOG SHEET

Sample					Symbolic representation	Grain Size Analysis			Atterberg limit			Density		Moisture Content (%)	Shear Parameters				Specific Gravity
Depth (m)	Sample No	Sample Type	Observed N-Value	Corrected N-value		Gravel (%)	Sand (%)	Silt Clay (%)	Liquid limit (%)	Plastic Limit (%)	Plasticity Index	Bulk Density (gm/cc)	Dry Density (gm/cc)		Cohesion, c (t/m2)	Angle of Internal Friction,	Coefficient of consolidation, Cc	Void Ratio, eo	
15.00	S-15/11	SPT	41.0	28.2	SP	0.0	96.0	4.0	NP	NP	NP	1.85	1.68	10.2	-	35.0	-	-	-
16.00	S-15/12	SPT	43.0	28.2	SP	-	-	-	NP	NP	NP	-	-	11.3	-	-	-	-	2.47
18.00	S-15/13	SPT	54.0	33.9	SP	-	-	-	NP	NP	NP	1.92	1.70	13.2	-	-	-	-	2.43
19.50	S-15/14	SPT	65.0	39.1	SP	0.0	88.0	12.0	NP	NP	NP	-	-	-	-	-	-	-	-
21.00	S-15/15	SPT	77.0	44.4	SP	-	-	-	NP	NP	NP	-	-	15.6	-	-	-	-	-
22.50	S-15/16	SPT	85.0	47.0	SP	9.0	83.0	8.0	NP	NP	NP	-	-	-	-	-	-	-	-
24.00	S-15/17	SPT	93.0	49.4	SP	6.0	89.0	5.0	NP	NP	NP	-	-	16.6	-	-	-	-	2.50
25.50	S-15/18	SPT	REFUSAL		SP	-	-	-	NP	NP	NP	2.11	1.80	17.5	-	-	-	-	-
27.00	S-15/19	SPT	REFUSAL		SP	-	-	-	NP	NP	NP	-	-	-	-	-	-	-	-
28.50	S-15/20	SPT	REFUSAL		SP	0.0	92.0	8.0	NP	NP	NP	-	-	18.5	-	-	-	-	-

SOIGNE ENGINEERING CONSULTANTS SCF 23, MM, Manimajra, Chandigarh email: soigneconsultants@gmail.com	BOREHOLE	LOCATION	JOB NO.	PAGE NO
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PROJECT :- GEOTECHNICAL INVESTIGATION REPORT FOR REDEVELOPMENT OF BOTANICAL GARDEN OF INDIAN REPUBLIC NOIDA.	STARTING DEPTH	0.0 M	WATER TABLE DEPTH
CLIENT :-EXECUTIVE ENGINEER (P) NOIDA CENTRAL DIVISION CPWD, NEW DELHI	TERMINATION DEPTH	40.0 M	12.9 M

BORE LOG SHEET

Sample					Symbolic representation	Grain Size Analysis			Atterberg limit			Density		Moisture Content (%)	Shear Parameters				Specific Gravity
Depth (m)	Sample No	Sample Type	Observed N-Value	Corrected N-value		Gravel (%)	Sand (%)	Silt Clay (%)	Liquid limit (%)	Plastic Limit (%)	Plasticity Index	Bulk Density (gm/cc)	Dry Density (gm/cc)		Cohesion, c (t/m2)	Angle of Internal Friction,	Coefficent of consolidation, Cc	Void Ratio, eo	
30.00	S-15/21	SPT	REFUSAL		SP	-	-	-	NP	NP	NP	-	-	-	-	-	-	-	-
31.00	S-15/22	SPT	REFUSAL		SP	0.0	89.0	11.0	NP	NP	NP	2.13	1.79	18.9	-	-	-	-	2.31
33.00	S-15/23	SPT	REFUSAL		CL	0.0	10.0	90.0	31.2	19.2	12.0	-	-	-	-	-	0.19	0.91	-
34.50	S-15/24	SPT	REFUSAL		CL	-	-	-	-	-	-	2.18	1.82	19.6	-	-	-	-	-
36.00	S-15/25	SPT	REFUSAL		CL	-	-	-	-	-	-	-	-	-	-	-	-	-	-
37.50	S-15/26	SPT	REFUSAL		CL	0.0	19.0	81.0	-	-	-	2.32	1.95	19.2	-	-	-	-	2.33
39.00	S-15/27	SPT	REFUSAL		CL	-	-	-	-	-	-	-	-	19.9	-	-	-	-	-
40.00	S-15/28	SPT	REFUSAL		CL	0.0	13.0	87.0	-	-	-	-	-	19.6	-	-	-	-	-

SOIGNE ENGINEERING CONSULTANTS SCF 23, MM, Manimajra, Chandigarh email: soigneconsultants@gmail.com	BOREHOLE	LOCATION	JOB NO.	PAGE NO
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PROJECT :- GEOTECHNICAL INVESTIGATION REPORT FOR REDEVELOPMENT OF BOTANICAL GARDEN OF INDIAN REPUBLIC NOIDA.	STARTING DEPTH	0.0 M	WATER TABLE DEPTH
CLIENT :-EXECUTIVE ENGINEER (P) NOIDA CENTRAL DIVISION CPWD, NEW DELHI	TERMINATION DEPTH	40.0 M	13.2 M

BORE LOG SHEET

Sample					Symbolic representation	Grain Size Analysis			Atterberg limit			Density		Moisture Content (%)	Shear Parameters				Specific Gravity
Depth (m)	Sample No	Sample Type	Observed N-Value	Corrected N-value		Gravel (%)	Sand (%)	Silt Clay (%)	Liquid limit (%)	Plastic Limit (%)	Plasticity Index	Bulk Density (gm/cc)	Dry Density (gm/cc)		Cohesion, c (t/m2)	Angle of Internal Friction,	Coefficent of consolidation, Cc	Void Ratio, eo	
0.75	S-16/1	SPT	4.0	6.8	CL	0.0	10.0	90.0	-	-	-	-	-	2.9	-	-	-	-	-
1.50	S-16/2	SPT	7.0	10.2	SP	0.0	71.0	29.0	NP	NP	NP	1.61	1.56	3.3	0.7	21.0	-	-	2.42
3.00	S-16/3	SPT	9.0	11.0	SP	0.0	95.0	5.0	NP	NP	NP	-	-	3.6	-	-	-	-	-
4.50	S-16/4	SPT	12.0	13.1	SP	-	-	-	NP	NP	NP	-	-	-	-	-	-	-	-
6.00	S-16/5	SPT	13.0	12.9	SP	9.0	85.0	6.0	NP	NP	NP	1.64	1.57	4.5	-	27.0	-	-	2.45
7.50	S-16/6	SPT	16.0	14.7	SP	-	-	-	NP	NP	NP	-	-	-	-	-	-	-	-
9.00	S-16/7	SPT	18.0	15.5	SP	11.0	83.0	6.0	NP	NP	NP	1.72	1.64	4.9	-	-	-	-	-
10.50	S-16/8	SPT	23.0	18.6	SP	-	-	-	NP	NP	NP	-	-	-	-	-	-	-	-
12.00	S-16/9	SPT	26.0	19.8	SP	7.0	83.0	10.0	NP	NP	NP	-	-	7.6	-	33.0	-	-	-
13.50	S-16/10	SPT	32.0	23.2	SP	-	-	-	NP	NP	NP	-	-	-	-	-	-	-	-

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PROJECT :- GEOTECHNICAL INVESTIGATION REPORT FOR REDEVELOPMENT OF BOTANICAL GARDEN OF INDIAN REPUBLIC NOIDA.	STARTING DEPTH	0.0 M	WATER TABLE DEPTH
CLIENT :-EXECUTIVE ENGINEER (P) NOIDA CENTRAL DIVISION CPWD, NEW DELHI	TERMINATION DEPTH	40.0 M	13.2 M

BORE LOG SHEET

Sample					Symbolic representation	Grain Size Analysis			Atterberg limit			Density		Moisture Content (%)	Shear Parameters				Specific Gravity
Depth (m)	Sample No	Sample Type	Observed N-Value	Corrected N-value		Gravel (%)	Sand (%)	Silt Clay (%)	Liquid limit (%)	Plastic Limit (%)	Plasticity Index	Bulk Density (gm/cc)	Dry Density (gm/cc)		Cohesion, c (t/m2)	Angle of Internal Friction,	Coefficient of consolidation, Cc	Void Ratio, eo	
15.00	S-16/11	SPT	39.0	26.9	SP	13.0	82.0	5.0	NP	NP	NP	1.76	1.56	12.5	-	-	-	-	-
16.00	S-16/12	SPT	46.0	30.2	SP	-	-	-	NP	NP	NP	-	-	-	-	-	-	-	-
18.00	S-16/13	SPT	60.0	37.7	SP	-	-	-	NP	NP	NP	-	-	-	-	-	-	-	-
19.50	S-16/14	SPT	70.0	42.1	SP	0.0	95.0	5.0	NP	NP	NP	1.92	1.66	15.6	-	-	-	-	2.40
21.00	S-16/15	SPT	88.0	50.7	CL	0.0	15.0	85.0	30.2	19.9	10.3	-	-	16.5	-	-	0.18	0.88	-
22.50	S-16/16	SPT	REFUSAL		CL	-	-	-	-	-	-	-	-	-	-	-	-	-	-
24.00	S-16/17	SPT	REFUSAL		CL	0.0	13.0	87.0	30.9	19.5	11.4	-	-	-	-	-	0.19	0.90	2.35
25.50	S-16/18	SPT	REFUSAL		CL	-	-	-	-	-	-	2.01	1.70	18.3	-	-	-	-	-
27.00	S-16/19	SPT	REFUSAL		CL	-	-	-	-	-	-	-	-	-	-	-	-	-	-
28.50	S-16/20	SPT	REFUSAL		CL	0.0	9.0	91.0	31.6	19.6	12.0	-	-	18.8	-	-	0.19	0.92	-

SOIGNE ENGINEERING CONSULTANTS SCF 23, MM, Manimajra, Chandigarh email: soigneconsultants@gmail.com	BOREHOLE	LOCATION	JOB NO.	PAGE NO
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PROJECT :- GEOTECHNICAL INVESTIGATION REPORT FOR REDEVELOPMENT OF BOTANICAL GARDEN OF INDIAN REPUBLIC NOIDA.	STARTING DEPTH	0.0 M	WATER TABLE DEPTH
CLIENT :-EXECUTIVE ENGINEER (P) NOIDA CENTRAL DIVISION CPWD, NEW DELHI	TERMINATION DEPTH	40.0 M	13.2 M

BORE LOG SHEET

Sample					Symbolic representation	Grain Size Analysis			Atterberg limit			Density		Moisture Content (%)	Shear Parameters				Specific Gravity
Depth (m)	Sample No	Sample Type	Observed N-Value	Corrected N-value		Gravel (%)	Sand (%)	Silt Clay (%)	Liquid limit (%)	Plastic Limit (%)	Plasticity Index	Bulk Density (gm/cc)	Dry Density (gm/cc)		Cohesion, c (t/m2)	Angle of Internal Friction,	Coefficent of consolidation, Cc	Void Ratio, eo	
30.00	S-16/21	SPT	REFUSAL		CL	-	-	-	-	-	-	-	-	-	-	-	-	-	-
31.00	S-16/22	SPT	REFUSAL		CL	0.0	3.0	97.0	32.5	19.1	13.4	2.06	1.73	19.4	-	-	-	-	2.30
33.00	S-16/23	SPT	REFUSAL		CL	-	-	-	-	-	-	-	-	-	-	-	-	-	-
34.50	S-16/24	SPT	REFUSAL		CL	0.0	9.0	91.0	32.9	19.8	13.1	2.17	1.81	19.6	-	-	0.21	0.96	-
36.00	S-16/25	SPT	REFUSAL		CL	-	-	-	-	-	-	-	-	-	-	-	-	-	-
37.50	S-16/26	SPT	REFUSAL		CL	0.0	19.0	81.0	-	-	-	2.29	1.91	19.9	-	-	-	-	2.29
39.00	S-16/27	SPT	REFUSAL		CL	-	-	-	-	-	-	-	-	-	-	-	-	-	-
40.00	S-16/28	SPT	REFUSAL		CL	0.0	15.0	85.0	-	-	-	-	-	20.2	-	-	-	-	-

SOIGNE ENGINEERING CONSULTANTS SCF 23, MM, Manimajra, Chandigarh email: soigneconsultants@gmail.com	BOREHOLE	LOCATION	JOB NO.	PAGE NO
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PROJECT :- GEOTECHNICAL INVESTIGATION REPORT FOR REDEVELOPMENT OF BOTANICAL GARDEN OF INDIAN REPUBLIC NOIDA.	STARTING DEPTH	0.0 M	WATER TABLE DEPTH
CLIENT :-EXECUTIVE ENGINEER (P) NOIDA CENTRAL DIVISION CPWD, NEW DELHI	TERMINATION DEPTH	40.0 M	12.5 M

BORE LOG SHEET

Sample					Symbolic representation	Grain Size Analysis			Atterberg limit			Density		Moisture Content (%)	Shear Parameters				Specific Gravity
Depth (m)	Sample No	Sample Type	Observed N-Value	Corrected N-value		Gravel (%)	Sand (%)	Silt Clay (%)	Liquid limit (%)	Plastic Limit (%)	Plasticity index	Bulk Density (gm/cc)	Dry Density (gm/cc)		Cohesion, c (t/m2)	Angle of Internal Friction,	Coefficent of consolidation, Cc	Void Ratio, eo	
0.75	S-17/1	SPT	6.0	10.1	CL	0.0	11.0	89.0	-	-	-	-	-		-	-	-	-	-
1.50	S-17/2	SPT	7.0	10.2	SP	0.0	79.0	21.0	NP	NP	NP	1.62	1.58	2.5	0.7	24.0	-	-	2.40
3.00	S-17/3	SPT	12.0	14.7	SP	0.0	96.0	4.0	NP	NP	NP	-	-	3.7	-	-	-	-	-
4.50	S-17/4	SPT	16.0	17.5	SP	-	-	-	NP	NP	NP	-	-	-	-	-	-	-	-
6.00	S-17/5	SPT	27.0	26.9	SP	9.0	86.0	5.0	NP	NP	NP	1.62	1.55	4.6	-	33.0	-	-	2.42
7.50	S-17/6	SPT	34.0	31.3	SP	-	-	-	NP	NP	NP	-	-	-	-	-	-	-	-
9.00	S-17/7	SPT	35.0	30.1	SP	10.0	82.0	8.0	NP	NP	NP	1.73	1.65	4.9	-	-	-	-	-
10.50	S-17/8	SPT	38.0	30.7	SP	-	-	-	NP	NP	NP	-	-	-	-	-	-	-	-
12.00	S-17/9	SPT	43.0	32.8	SP	8.0	88.0	4.0	NP	NP	NP	-	-	7.2	-	35.8	-	-	-
13.50	S-17/10	SPT	52.0	37.6	SP	-	-	-	NP	NP	NP	-	-	-	-	-	-	-	-

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PROJECT :- GEOTECHNICAL INVESTIGATION REPORT FOR REDEVELOPMENT OF BOTANICAL GARDEN OF INDIAN REPUBLIC NOIDA.	STARTING DEPTH	0.0 M	WATER TABLE DEPTH
CLIENT :-EXECUTIVE ENGINEER (P) NOIDA CENTRAL DIVISION CPWD, NEW DELHI	TERMINATION DEPTH	40.0 M	12.5 M

BORE LOG SHEET

Sample					Symbolic representation	Grain Size Analysis			Atterberg limit			Density		Moisture Content (%)	Shear Parameters				Specific Gravity
Depth (m)	Sample No	Sample Type	Observed N-Value	Corrected N-value		Gravel (%)	Sand (%)	Silt Clay (%)	Liquid limit (%)	Plastic Limit (%)	Plasticity Index	Bulk Density (gm/cc)	Dry Density (gm/cc)		Cohesion, c (t/m2)	Angle of Internal Friction,	Coefficent of consolidation, Cc	Void Ratio, eo	
15.00	S-17/11	SPT	56.0	38.6	SP	11.0	83.0	6.0	NP	NP	NP	1.83	1.62	12.8	-	-	-	-	-
16.00	S-17/12	SPT	60.0	39.4	SP	-	-	-	NP	NP	NP	-	-	-	-	-	-	-	-
18.00	S-17/13	SPT	69.0	43.3	SP	-	-	-	NP	NP	NP	-	-	-	-	-	-	-	-
19.50	S-17/14	SPT	75.0	45.1	SP	0.0	84.0	16.0	NP	NP	NP	1.91	1.67	14.6	-	36.00	-	-	2.44
21.00	S-17/15	SPT	81.0	46.7	CL	0.0	15.0	85.0	31.3	19.7	11.6	-	-	15.6	-	-	-	-	-
22.50	S-17/16	SPT	87.0	48.1	CL	-	-	-	-	-	-	-	-	-	-	-	-	-	-
24.00	S-17/17	SPT	REFUSAL		CL	0.0	9.0	91.0	31.6	17.9	13.7	-	-	-	-	-	0.19	0.95	2.33
25.50	S-17/18	SPT	REFUSAL		CL	-	-	-	-	-	-	2.00	1.71	17.0	-	-	-	-	-
27.00	S-17/19	SPT	REFUSAL		CL	-	-	-	-	-	-	-	-	-	-	-	-	-	-
28.50	S-17/20	SPT	REFUSAL		CL	0.0	5.0	95.0	32.1	18.9	13.2	-	-	18.3	-	-	-	-	-

SOIGNE ENGINEERING CONSULTANTS SCF 23, MM, Manimajra, Chandigarh email: soigneconsultants@gmail.com	BOREHOLE	LOCATION	JOB NO.	PAGE NO
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PROJECT :- GEOTECHNICAL INVESTIGATION REPORT FOR REDEVELOPMENT OF BOTANICAL GARDEN OF INDIAN REPUBLIC NOIDA.	STARTING DEPTH	0.0 M	WATER TABLE DEPTH
CLIENT :-EXECUTIVE ENGINEER (P) NOIDA CENTRAL DIVISION CPWD, NEW DELHI	TERMINATION DEPTH	40.0 M	12.5 M

BORE LOG SHEET

Sample					Symbolic representation	Grain Size Analysis			Atterberg limit			Density		Moisture Content (%)	Shear Parameters				Specific Gravity
Depth (m)	Sample No	Sample Type	Observed N-Value	Corrected N-value		Gravel (%)	Sand (%)	Silt Clay (%)	Liquid limit (%)	Plastic Limit (%)	Plasticity Index	Bulk Density (gm/cc)	Dry Density (gm/cc)		Cohesion, c (t/m2)	Angle of Internal Friction,	Coefficent of consolidation, Cc	Void Ratio, eo	
30.00	S-17/21	SPT	REFUSAL		CL	-	-	-	-	-	-	-	-		-	-	-	-	-
31.00	S-17/22	SPT	REFUSAL		CL	0.0	10.0	90.0	31.6	18.7	12.9	2.11	1.77	19.1	-	-	0.19	0.92	2.31
33.00	S-17/23	SPT	REFUSAL		CL	-	-	-	-	-	-	-	-	-	-	-	-	-	-
34.50	S-17/24	SPT	REFUSAL		CL	0.0	6.0	94.0	31.2	19.5	11.7	2.21	1.85	19.3	-	-	-	-	-
36.00	S-17/25	SPT	REFUSAL		CL	-	-	-	-	-	-	-	-	-	-	-	0.20	0.94	-
37.50	S-17/26	SPT	REFUSAL		CL	0.0	19.0	81.0	-	-	-	2.31	1.93	19.6	-	-	-	-	2.33
39.00	S-17/27	SPT	REFUSAL		CL	-	-	-	-	-	-	-	-	-	-	-	-	-	-
40.00	S-17/28	SPT	REFUSAL		CL	0.0	16.0	84.0	-	-	-	-	-	19.7	-	-	-	-	-

SOIGNE ENGINEERING CONSULTANTS SCF 23, MM, Manimajra, Chandigarh email: soigneconsultants@gmail.com	BOREHOLE	LOCATION	JOB NO.	PAGE NO
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PROJECT :- GEOTECHNICAL INVESTIGATION REPORT FOR REDEVELOPMENT OF BOTANICAL GARDEN OF INDIAN REPUBLIC NOIDA.	STARTING DEPTH	0.0 M	WATER TABLE DEPTH
CLIENT :-EXECUTIVE ENGINEER (P) NOIDA CENTRAL DIVISION CPWD, NEW DELHI	TERMINATION DEPTH	40.0 M	12.7 M

BORE LOG SHEET

Sample					Symbolic representation	Grain Size Analysis			Atterberg limit			Density		Moisture Content (%)	Shear Parameters				Specific Gravity
Depth (m)	Sample No	Sample Type	Observed N-Value	Corrected N-value		Gravel (%)	Sand (%)	Silt Clay (%)	Liquid limit (%)	Plastic Limit (%)	Plasticity Index	Bulk Density (gm/cc)	Dry Density (gm/cc)		Cohesion, c (t/m2)	Angle of Internal Friction,	Coefficent of consolidation, Cc	Void Ratio, eo	
0.75	S-18/1	SPT	5.0	8.5	CL	0.0	13.0	87.0	-	-	-	-	-	1.9	-	-	-	-	-
1.50	S-18/2	SPT	7.0	10.2	SP	0.0	82.0	18.0	NP	NP	NP	1.66	1.61	2.9	0.5	24.0	-	-	2.41
3.00	S-18/3	SPT	11.0	13.5	SP	0.0	89.0	11.0	NP	NP	NP	-	-	3.3	-	-	-	-	-
4.50	S-18/4	SPT	13.0	14.2	SP	-	-	-	NP	NP	NP	-	-	-	-	-	-	-	-
6.00	S-18/5	SPT	17.0	16.9	SP	9.0	82.0	9.0	NP	NP	NP	1.69	1.61	5.2	-	29.0	-	-	2.46
7.50	S-18/6	SPT	19.0	17.5	SP	-	-	-	NP	NP	NP	-	-	-	-	-	-	-	-
9.00	S-18/7	SPT	24.0	20.6	SP	11.0	83.0	6.0	NP	NP	NP	1.76	1.66	5.9	-	-	-	-	-
10.50	S-18/8	SPT	28.0	22.6	SP	-	-	-	NP	NP	NP	-	-	-	-	-	-	-	-
12.00	S-18/9	SPT	32.0	24.4	SP	13.0	80.0	7.0	NP	NP	NP	-	-	7.6	-	34.0	-	-	-
13.50	S-18/10	SPT	36.0	26.1	SP	-	-	-	NP	NP	NP	-	-	-	-	-	-	-	-

SOIGNE ENGINEERING CONSULTANTS SCF 23, MM, Manimajra, Chandigarh email: soigneconsultants@gmail.com	BOREHOLE	LOCATION	JOB NO.	PAGE NO
	17	N-3161321 E-727209	GT-1997	

PROJECT :- GEOTECHNICAL INVESTIGATION REPORT FOR REDEVELOPMENT OF BOTANICAL GARDEN OF INDIAN REPUBLIC NOIDA.	STARTING DEPTH	0.0 M	WATER TABLE DEPTH
CLIENT :-EXECUTIVE ENGINEER (P) NOIDA CENTRAL DIVISION CPWD, NEW DELHI	TERMINATION DEPTH	40.0 M	12.7 M

BORE LOG SHEET

Sample					Symbolic representation	Grain Size Analysis			Atterberg limit			Density		Moisture Content (%)	Shear Parameters				Specific Gravity
Depth (m)	Sample No	Sample Type	Observed N-Value	Corrected N-value		Gravel (%)	Sand (%)	Silt Clay (%)	Liquid limit (%)	Plastic Limit (%)	Plasticity Index	Bulk Density (gm/cc)	Dry Density (gm/cc)		Cohesion, c (t/m2)	Angle of Internal Friction,	Coefficent of consolidation, Cc	Void Ratio, eo	
15.00	S-18/11	SPT	43.0	29.6	SP	11.0	86.0	3.0	NP	NP	NP	1.86	1.66	11.9	-	-	-	-	-
16.00	S-18/12	SPT	49.0	32.2	SP	-	-	-	NP	NP	NP	-	-	-	-	-	-	-	-
18.00	S-18/13	SPT	57.0	35.8	SP	-	-	-	NP	NP	NP	-	-	-	-	-	-	-	-
19.50	S-18/14	SPT	64.0	38.5	SP	0.0	87.0	13.0	NP	NP	NP	1.89	1.67	13.5	-	-	-	-	2.41
21.00	S-18/15	SPT	72.0	41.5	CL	0.0	19.0	81.0	31.6	19.5	12.1	-	-	14.6	-	-	0.19	0.92	-
22.50	S-18/16	SPT	78.0	43.1	CL	-	-	-	-	-	-	-	-	-	-	-	-	-	-
24.00	S-18/17	SPT	85.0	45.2	CL	0.0	16.0	84.0	32.0	17.9	14.1	-	-	-	-	-	0.20	0.93	2.31
25.50	S-18/18	SPT	92.0	47.0	CL	-	-	-	-	-	-	1.94	1.67	16.5	-	-	-	-	-
27.00	S-18/19	SPT	REFUSAL		CL	-	-	-	-	-	-	-	-	-	-	-	-	-	-
28.50	S-18/20	SPT	REFUSAL		CL	0.0	9.0	91.0	32.6	18.5	14.1	-	-	17.6	-	-	-	-	-

SOIGNE ENGINEERING CONSULTANTS SCF 23, MM, Manimajra, Chandigarh email: soigneconsultants@gmail.com	BOREHOLE	LOCATION	JOB NO.	PAGE NO
	17	N-3161321 E-727209	GT-1997	

PROJECT :- GEOTECHNICAL INVESTIGATION REPORT FOR REDEVELOPMENT OF BOTANICAL GARDEN OF INDIAN REPUBLIC NOIDA.	STARTING DEPTH.	0.0 M	WATER TABLE DEPTH
CLIENT :-EXECUTIVE ENGINEER (P) NOIDA CENTRAL DIVISION CPWD, NEW DELHI	TERMINATION DEPTH	40.0 M	12.7 M

BORE LOG SHEET

Sample					Symbolic representation	Grain Size Analysis			Atterberg limit			Density		Moisture Content (%)	Shear Parameters				Specific Gravity
Depth (m)	Sample No	Sample Type	Observed N-Value	Corrected N-value		Gravel (%)	Sand (%)	Silt Clay (%)	Liquid limit (%)	Plastic Limit (%)	Plasticity index	Bulk Density (gm/cc)	Dry Density (gm/cc)		Cohesion, c (t/m2)	Angle of Internal Friction,	Coefficent of consolidation, Cc	Void Ratio, ec	
30.00	S-18/21	SPT	REFUSAL		CL	-	-	-	-	-	-	-	-		-	-	-	-	-
31.00	S-18/22	SPT	REFUSAL		CL	0.0	11.0	89.0	32.2	18.2	14.0	2.06	1.75	17.9	-	-	-	-	2.29
33.00	S-18/23	SPT	REFUSAL		CL	-	-	-	-	-	-	-	-	-	-	-	-	-	-
34.50	S-18/24	SPT	REFUSAL		CL	0.0	4.0	96.0	32.6	19.5	13.1	2.28	1.93	18.3	-	-	0.20	0.95	-
36.00	S-18/25	SPT	REFUSAL		CL	-	-	-	-	-	-	-	-	-	-	-	-	-	-
37.50	S-18/26	SPT	REFUSAL		CL	0.0	15.0	85.0	-	-	-	2.34	1.97	18.9	-	-	-	-	2.35
39.00	S-18/27	SPT	REFUSAL		CL	-	-	-	-	-	-	-	-	-	-	-	-	-	-
40.00	S-18/28	SPT	REFUSAL		CL	0.0	13.0	87.0	-	-	-	-	-	19.6	-	-	-	-	-

SOIGNE ENGINEERING CONSULTANTS SCF 23, MM, Manimajra, Chandigarh email: soigneconsultants@gmail.com	BOREHOLE	LOCATION	JOB NO.	PAGE NO
	19	N-3161706 E-727650	GT-1997	

PROJECT :- GEOTECHNICAL INVESTIGATION REPORT FOR REDEVELOPMENT OF BOTANICAL GARDEN OF INDIAN REPUBLIC NOIDA.	STARTING DEPTH	0.0 M	WATER TABLE DEPTH
CLIENT :-EXECUTIVE ENGINEER (P) NOIDA CENTRAL DIVISION CPWD, NEW DELHI	TERMINATION DEPTH	40.0 M	13.4 M

BORE LOG SHEET

Sample					Symbolic representation	Grain Size Analysis			Atterberg limit			Density		Moisture Content (%)	Shear Parameters				Specific Gravity
Depth (m)	Sample No	Sample Type	Observed N-Value	Corrected N-value		Gravel (%)	Sand (%)	Silt Clay (%)	Liquid limit (%)	Plastic Limit (%)	Plasticity Index	Bulk Density (gm/cc)	Dry Density (gm/cc)		Cohesion, c (t/m2)	Angle of Internal Friction,	Coefficent of consolidation, Cc	Void Ratio, eo	
0.75	S-19/1	SPT	5.0	8.5	CL	0.0	6.0	94.0	-	-	-	-	-	2.6	-	-	-	-	-
1.50	S-19/2	SPT	7.0	10.2	SP	0.0	70.0	30.0	NP	NP	NP	1.68	1.63	3.3	0.6	23.0	-	-	2.41
3.00	S-19/3	SPT	9.0	11.0	SP	0.0	90.0	10.0	NP	NP	NP	-	-	4.6	-	-	-	-	-
4.50	S-19/4	SPT	11.0	12.0	SP	-	-	-	NP	NP	NP	-	-	-	-	-	-	-	-
6.00	S-19/5	SPT	12.0	11.9	SP	0.0	93.0	7.0	NP	NP	NP	1.70	1.61	5.9	-	27.0	-	-	2.44
7.50	S-19/6	SPT	15.0	13.8	SP	-	-	-	NP	NP	NP	-	-	-	-	-	-	-	-
9.00	S-19/7	SPT	19.0	16.3	SP	3.0	91.0	6.0	NP	NP	NP	1.75	1.64	6.6	-	-	-	-	-
10.50	S-19/8	SPT	22.0	17.8	SP	-	-	-	NP	NP	NP	-	-	-	-	-	-	-	-
12.00	S-19/9	SPT	27.0	20.6	SP	0.0	93.0	7.0	NP	NP	NP	-	-	7.2	-	33.0	-	-	-
13.50	S-19/10	SPT	34.0	24.6	SP	-	-	-	NP	NP	NP	-	-	-	-	-	-	-	-

SOIGNE ENGINEERING CONSULTANTS SCF 23, MM, Manimajra, Chandigarh email: soigneconsultants@gmail.com	BOREHOLE	LOCATION	JOB NO.	PAGE NO
	19	N-3161706 E-727650	GT-1997	

PROJECT :- GEOTECHNICAL INVESTIGATION REPORT FOR REDEVELOPMENT OF BOTANICAL GARDEN OF INDIAN REPUBLIC NOIDA.	STARTING DEPTH	0.0 M	WATER TABLE DEPTH
CLIENT :-EXECUTIVE ENGINEER (P) NOIDA CENTRAL DIVISION CPWD, NEW DELHI	TERMINATION DEPTH	40.0 M	13.4 M

BORE LOG SHEET

Sample					Symbolic representation	Grain Size Analysis			Atterberg limit			Density		Moisture Content (%)	Shear Parameters				Specific Gravity
Depth (m)	Sample No	Sample Type	Observed N-Value	Corrected N-value		Gravel (%)	Sand (%)	Silt Clay (%)	Liquid limit (%)	Plastic Limit (%)	Plasticity Index	Bulk Density (gm/cc)	Dry Density (gm/cc)		Cohesion, c (t/m2)	Angle of Internal Friction,	Coefficient of consolidation, Cc	Void Ratio, ec	
15.00	S-19/11	SPT	39.0	26.9	SP	0.0	86.0	14.0	NP	NP	NP	1.84	1.65	11.8	-	-	-	-	-
16.00	S-19/12	SPT	46.0	30.2	SP	0.0	83.0	17.0	NP	NP	NP	-	-	13.5	-	-	-	-	-
18.00	S-19/13	SPT	53.0	33.3	SP	-	-	-	NP	NP	NP	1.89	1.65	14.5	-	-	-	-	2.31
19.50	S-19/14	SPT	60.0	36.1	SP	-	-	-	NP	NP	NP	-	-	-	-	-	-	-	-
21.00	S-19/15	SPT	68.0	39.2	SP	0.0	81.0	19.0	NP	NP	NP	-	-	15.6	-	-	-	-	-
22.00	S-19/16	SPT	73.0	40.4	CL	0.0	17.0	83.0	28.6	16.2	12.4	-	-	-	-	-	0.17	0.83	-
24.00	S-19/17	SPT	77.0	40.9	CL	0.0	11.0	89.0	-	-	-	-	-	17.8	-	-	-	-	2.33
25.50	S-19/18	SPT	81.0	41.4	CL	-	-	-	-	-	-	2.06	1.74	18.3	-	-	-	-	-
27.00	S-19/19	SPT	89.0	43.8	CL	-	-	-	-	-	-	-	-	-	-	-	-	-	-
28.50	S-19/20	SPT	94.0	46.5	CL	0.0	13.0	87.0	-	-	-	-	-	18.6	-	-	-	-	-

SOIGNE ENGINEERING CONSULTANTS SCF 23, MM, Manimajra, Chandigarh email: soigneconsultants@gmail.com	BOREHOLE	LOCATION	JOB NO.	PAGE NO
	19	N-3161706 E-727650	GT-1997	

PROJECT :- GEOTECHNICAL INVESTIGATION REPORT FOR REDEVELOPMENT OF BOTANICAL GARDEN OF INDIAN REPUBLIC NOIDA.	STARTING DEPTH	0.0 M	WATER TABLE DEPTH
CLIENT :-EXECUTIVE ENGINEER (P) NOIDA CENTRAL DIVISION CPWD, NEW DELHI	TERMINATION DEPTH	40.0 M	13.4 M

BORE LOG SHEET

Sample					Symbolic representation	Grain Size Analysis			Atterberg limit			Density		Moisture Content (%)	Shear Parameters				Specific Gravity
Depth (m)	Sample No	Sample Type	Observed N-Value	Corrected N-value		Gravel (%)	Sand (%)	Silt Clay (%)	Liquid limit (%)	Plastic Limit (%)	Plasticity Index	Bulk Density (gm/cc)	Dry Density (gm/cc)		Cohesion, c (t/m2)	Angle of Internal Friction,	Coefficent of consolidation, Cc	Void Ratio, eo	
30.00	S-19/21	SPT	REFUSAL		CL	-	-	-	-	-	-	-	-	-	-	-	-	-	-
31.50	S-19/22	SPT	REFUSAL		CL	0.0	20.0	80.0	30.5	17.3	13.2	2.15	1.80	19.6	-	-	0.19	0.89	2.46
32.50	S-19/23	SPT	REFUSAL		SP	-	-	-	NP	NP	NP	-	-	-	-	-	-	-	-
34.50	S-19/24	SPT	REFUSAL		SP	6.0	86.0	8.0	NP	NP	NP	2.22	1.86	19.6	-	-	-	-	-
36.00	S-19/25	SPT	REFUSAL		SP	-	-	-	NP	NP	NP	-	-	-	-	-	-	-	-
37.50	S-19/26	SPT	REFUSAL		SP	10.0	84.0	6.0	NP	NP	NP	2.28	1.90	19.7	-	-	-	-	2.48
39.00	S-19/27	SPT	REFUSAL		SP	-	-	-	NP	NP	NP	-	-	-	-	-	-	-	-
40.00	S-19/28	SPT	REFUSAL		SP	13.0	78.0	9.0	NP	NP	NP	-	-	19.8	-	-	-	-	-

SOIGNE ENGINEERING CONSULTANTS SCF 23, MM, Manimajra, Chandigarh email: soigneconsultants@gmail.com	BOREHOLE	LOCATION	JOB NO.	PAGE NO
	20	N-3161606 E-727696	GT-1997	

PROJECT :- GEOTECHNICAL INVESTIGATION REPORT FOR REDEVELOPMENT OF BOTANICAL GARDEN OF INDIAN REPUBLIC NOIDA.	STARTING DEPTH	0.0 M	WATER TABLE DEPTH
CLIENT :-EXECUTIVE ENGINEER (P) NOIDA CENTRAL DIVISION CPWD, NEW DELHI	TERMINATION DEPTH	40.0 M	13.2 M

BORE LOG SHEET

Sample					Symbolic representation	Grain Size Analysis			Atterberg limit			Density		Moisture Content (%)	Shear Parameters				Specific Gravity
Depth (m)	Sample No	Sample Type	Observed N-Value	Corrected N-value		Gravel (%)	Sand (%)	Silt Clay (%)	Liquid limit (%)	Plastic Limit (%)	Plasticity Index	Bulk Density (gm/cc)	Dry Density (gm/cc)		Cohesion, c (t/m2)	Angle of Internal Friction,	Coefficent of consolidation, Cc	Void Ratio, eo	
0.75	S-20/1	SPT	5.0	8.5	CL	0.0	7.0	93.0	-	-	-	-	-	2.7	-	-	-	-	-
1.50	S-20/2	SPT	6.0	8.8	SP	0.0	71.0	29.0	NP	NP	NP	1.67	1.61	3.9	0.8	20.0	-	-	2.40
3.00	S-20/3	SPT	9.0	11.0	SP	0.0	89.0	11.0	NP	NP	NP	-	-	3.9	-	-	-	-	-
4.50	S-20/4	SPT	11.0	12.0	SP	-	-	-	NP	NP	NP	-	-	-	-	-	-	-	-
6.00	S-20/5	SPT	14.0	13.9	SP	0.0	92.0	8.0	NP	NP	NP	1.72	1.62	6.3	-	29.0	-	-	2.43
7.50	S-20/6	SPT	16.0	14.7	SP	-	-	-	NP	NP	NP	-	-	-	-	-	-	-	-
9.00	S-20/7	SPT	20.0	17.2	SP	4.0	93.0	3.0	NP	NP	NP	1.79	1.66	7.6	-	-	-	-	-
10.50	S-20/8	SPT	23.0	18.6	SP	-	-	-	NP	NP	NP	-	-	-	-	-	-	-	-
12.00	S-20/9	SPT	28.0	21.4	SP	0.0	91.0	9.0	NP	NP	NP	-	-	7.9	-	-	-	-	-
13.50	S-20/10	SPT	34.0	24.6	SP	-	-	-	NP	NP	NP	-	-	-	-	-	-	-	-

SOIGNE ENGINEERING CONSULTANTS SCF 23, MM, Manimajra, Chandigarh email: soigneconsultants@gmail.com	BOREHOLE	LOCATION	JOB NO.	PAGE NO
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PROJECT :- GEOTECHNICAL INVESTIGATION REPORT FOR REDEVELOPMENT OF BOTANICAL GARDEN OF INDIAN REPUBLIC NOIDA.	STARTING DEPTH	0.0 M	WATER TABLE DEPTH
CLIENT :-EXECUTIVE ENGINEER (P) NOIDA CENTRAL DIVISION CPWD, NEW DELHI	TERMINATION DEPTH	40.0 M	13.2 M

BORE LOG SHEET

Sample					Symbolic representation	Grain Size Analysis			Atterberg limit			Density		Moisture Content (%)	Shear Parameters				Specific Gravity
Depth (m)	Sample No	Sample Type	Observed N-Value	Corrected N-value		Gravel (%)	Sand (%)	Silt Clay (%)	Liquid limit (%)	Plastic Limit (%)	Plasticity Index	Bulk Density (gm/cc)	Dry Density (gm/cc)		Cohesion, c (t/m2)	Angle of Internal Friction,	Coefficent of consolidation, Cc	Void Ratio, eo	
15.00	S-20/11	SPT	39.0	26.9	SP	0.0	86.0	14.0	NP	NP	NP	1.88	1.67	12.5	-	32.0	-	-	-
16.00	S-20/12	SPT	44.0	28.9	SP	0.0	82.0	18.0	NP	NP	NP	-	-	14.6	-	-	-	-	-
18.00	S-20/13	SPT	51.0	32.0	SP	-	-	-	NP	NP	NP	1.98	1.70	16.6	-	-	-	-	2.29
19.50	S-20/14	SPT	59.0	35.5	SP	-	-	-	NP	NP	NP	-	-	-	-	-	-	-	-
21.00	S-20/15	SPT	67.0	38.6	SP	0.0	83.0	17.0	NP	NP	NP	-	-	17.3	-	-	-	-	-
22.00	S-20/16	SPT	74.0	40.9	SP	0.0	89.0	11.0	NP	NP	NP	-	-	-	-	-	-	-	-
24.00	S-20/17	SPT	81.0	43.1	CL	0.0	13.0	87.0	29.6	18.5	11.1	-	-	18.2	-	-	0.18	0.86	2.34
25.50	S-20/18	SPT	87.0	44.5	CL	-	-	-	-	-	-	2.09	1.76	18.6	-	-	-	-	-
27.00	S-20/19	SPT	94.0	46.3	CL	-	-	-	-	-	-	-	-	-	-	-	-	-	-
28.50	S-20/20	SPT	REFUSAL		CL	0.0	21.0	79.0	-	-	-	-	-	19.1	-	-	-	-	-

SOIGNE ENGINEERING CONSULTANTS SCF 23, MM, Manimajra, Chandigarh email: soigneconsultants@gmail.com	BOREHOLE	LOCATION	JOB NO.	PAGE NO
	20	N-3161606 E-727696	GT-1997	

PROJECT :- GEOTECHNICAL INVESTIGATION REPORT FOR REDEVELOPMENT OF BOTANICAL GARDEN OF INDIAN REPUBLIC NOIDA.	STARTING DEPTH	0.0 M	WATER TABLE DEPTH
CLIENT :-EXECUTIVE ENGINEER (P) NOIDA CENTRAL DIVISION CPWD, NEW DELHI	TERMINATION DEPTH	40.0 M	13.2 M

BORE LOG SHEET

Sample					Symbolic representation	Grain Size Analysis			Atterberg limit			Density		Moisture Content (%)	Shear Parameters				
Depth (m)	Sample No	Sample Type	Observed N-Value	Corrected N-value		Gravel (%)	Sand (%)	Silt Clay (%)	Liquid limit (%)	Plastic Limit (%)	Plasticity index	Bulk Density (gm/cc)	Dry Density (gm/cc)		Cohesion, c (t/m2)	Angle of Internal Friction,	Coefficent of consolidation, Cc	Void Ratio, eo	Specific Gravity
30.00	S-20/21	SPT	REFUSAL		CL	-	-	-	-	-	-	-	-	-	-	-	-	-	-
31.50	S-20/22	SPT	REFUSAL		CL	0.0	19.0	81.0	31.2	18.3	12.9	2.19	1.84	19.3	-	-	0.19	0.91	2.44
32.50	S-20/23	SPT	REFUSAL		SP	-	-	-	NP	NP	NP	-	-	-	-	-	-	-	-
34.50	S-20/24	SPT	REFUSAL		SP	6.0	83.0	11.0	NP	NP	NP	2.27	1.90	19.5	-	-	-	-	-
36.00	S-20/25	SPT	REFUSAL		SP	-	-	-	NP	NP	NP	-	-	-	-	-	-	-	-
37.50	S-20/26	SPT	REFUSAL		SP	5.0	81.0	14.0	NP	NP	NP	2.31	1.93	19.9	-	-	-	-	2.46
39.00	S-20/27	SPT	REFUSAL		SP	-	-	-	-	-	-	-	-	-	-	-	-	-	-
40.00	S-20/28	SPT	REFUSAL		SP	8.0	81.0	11.0	-	-	-	-	-	20.1	-	-	-	-	-

SOIGNE ENGINEERING CONSULTANTS SCF 23, MM, Manimajra, Chandigarh email: soigneconsultants@gmail.com	BOREHOLE	LOCATION	JOB NO.	PAGE NO
	21	N-3161431 E-727774	GT-1997	

PROJECT :- GEOTECHNICAL INVESTIGATION REPORT FOR REDEVELOPMENT OF BOTANICAL GARDEN OF INDIAN REPUBLIC NOIDA.	STARTING DEPTH	0.0 M	WATER TABLE DEPTH
CLIENT :-EXECUTIVE ENGINEER (P) NOIDA CENTRAL DIVISION CPWD, NEW DELHI	TERMINATION DEPTH	40.0 M	13.3 M

BORE LOG SHEET

Sample					Symbolic representation	Grain Size Analysis			Atterberg limit			Density		Moisture Content (%)	Shear Parameters				Specific Gravity
Depth (m)	Sample No	Sample Type	Observed N-Value	Corrected N-value		Gravel (%)	Sand (%)	Silt Clay (%)	Liquid limit (%)	Plastic Limit (%)	Plasticity Index	Bulk Density (gm/cc)	Dry Density (gm/cc)		Cohesion, c (t/m2)	Angle of Internal Friction,	Coefficent of consolidation, Cc	Void Ratio, eo	
0.75	S-21/1	SPT	4.0	6.8	CL	0.0	21.0	79.0	-	-	-	-	-	2.1	-	-	-	-	-
1.50	S-21/2	SPT	5.0	7.3	SP	0.0	83.0	17.0	NP	NP	NP	1.66	1.60	3.6	-	24.0	-	-	2.44
3.00	S-21/3	SPT	7.0	8.6	SP	-	-	-	NP	NP	NP	-	-	6.5	-	-	-	-	-
4.50	S-21/4	SPT	8.0	8.7	SP	-	-	-	NP	NP	NP	-	-	-	-	-	-	-	-
6.00	S-21/5	SPT	13.0	12.9	SP	0.0	97.0	3.0	NP	NP	NP	1.69	1.58	6.9	-	28.0	-	-	2.47
7.50	S-21/6	SPT	14.0	12.9	SP	-	-	-	NP	NP	NP	-	-	-	-	-	-	-	-
9.00	S-21/7	SPT	18.0	15.5	SP	0.0	93.0	7.0	NP	NP	NP	1.76	1.63	7.9	-	-	-	-	-
10.50	S-21/8	SPT	22.0	17.8	SP	-	-	-	NP	NP	NP	-	-	-	-	-	-	-	-
12.00	S-21/9	SPT	26.0	19.8	SP	0.0	88.0	12.0	NP	NP	NP	-	-	8.2	-	-	-	-	-
13.50	S-21/10	SPT	32.0	23.2	SP	-	-	-	NP	NP	NP	-	-	-	-	-	-	-	-

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PROJECT :- GEOTECHNICAL INVESTIGATION REPORT FOR REDEVELOPMENT OF BOTANICAL GARDEN OF INDIAN REPUBLIC NOIDA.	STARTING DEPTH	0.0 M	WATER TABLE DEPTH
CLIENT :-EXECUTIVE ENGINEER (P) NOIDA CENTRAL DIVISION CPWD, NEW DELHI	TERMINATION DEPTH	40.0 M	13.3 M

BORE LOG SHEET

Sample					Symbolic representation	Grain Size Analysis			Atterberg limit			Density		Moisture Content (%)	Shear Parameters				Specific Gravity
Depth (m)	Sample No	Sample Type	Observed N-Value	Corrected N-value		Gravel (%)	Sand (%)	Silt Clay (%)	Liquid limit (%)	Plastic Limit (%)	Plasticity Index	Bulk Density (gm/cc)	Dry Density (gm/cc)		Cohesion, c (t/m2)	Angle of Internal Friction,	Coefficent of consolidation, Cc	Void Ratio, ea	
15.00	S-21/11	SPT	35.0	24.1	SP	0.0	93.0	7.0	-	-	-	1.98	1.80	9.8	-	34.0	-	-	-
16.00	S-21/12	SPT	40.0	26.3	SP	-	-	-	-	-	-	-	-	12.3	-	-	-	-	2.45
18.00	S-21/13	SPT	44.0	27.6	SP	-	-	-	-	-	-	1.94	1.71	13.6	-	-	-	-	2.47
19.50	S-21/14	SPT	53.0	31.9	SP	0.0	83.0	17.0	-	-	-	-	-	-	-	-	-	-	-
21.00	S-21/15	SPT	62.0	35.7	SP	-	-	-	-	-	-	-	-	16.6	-	-	-	-	-
22.50	S-21/16	SPT	68.0	37.6	SP	13.0	79.0	8.0	-	-	-	-	-	-	-	-	-	-	-
24.00	S-21/17	SPT	76.0	40.4	SP	19.0	78.0	3.0	-	-	-	-	-	16.9	-	-	-	-	2.52
25.50	S-21/18	SPT	84.0	43.0	SP	-	-	-	NP	NP	NP	2.06	1.76	17.2	-	-	-	-	-
27.00	S-21/19	SPT	91.0	44.8	SP	-	-	-	NP	NP	NP	-	-	-	-	-	-	-	-
28.50	S-21/20	SPT	REFUSAL		SP	0.0	93.0	7.0	NP	NP	NP	-	-	17.6	-	-	-	-	-

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· GEOTECHNICAL INVESTIGATION REPORT FOR REDEVELOPMENT OF BOTANICAL GARDEN OF 'UBLIC NOIDA.	STARTING DEPTH	0.0 M	WATER TABLE DEPTH
XECUTIVE ENGINEER (P) NOIDA CENTRAL DIVISION CPWD, NEW DELHI	TERMINATION DEPTH	40.0 M	13.3 M

BORE LOG SHEET

Sample				Symbolic representation	Grain Size Analysis			Atterberg limit			Density		Moisture Content (%)	Shear Parameters				Specific Gravity
Sample No	Sample Type	Observed N-Value	Corrected N-value		Gravel (%)	Sand (%)	Silt Clay (%)	Liquid limit (%)	Plastic Limit (%)	Plasticity index	Bulk Density (gm/cc)	Dry Density (gm/cc)		Cohesion, c (t/m2)	Angle of Internal Friction,	Coefficent of consolidation, Cc	Void Ratio, eo	
21/21	SPT	REFUSAL		SP	-	-	-	NP	NP	NP	-	-	-	-	-	-	-	-
21/22	SPT	REFUSAL		SP	0.0	85.0	15.0	NP	NP	NP	2.15	1.82	17.9	-	-	-	-	2.32
21/23	SPT	REFUSAL		CL	0.0	15.0	85.0	30.6	18.8	11.8	-	-	-	-	-	0.19	0.89	-
21/24	SPT	REFUSAL		CL	-	-	-	-	-	-	2.19	1.85	18.2	-	-	-	-	-
21/25	SPT	REFUSAL		CL	-	-	-	-	-	-	-	-	-	-	-	-	-	-
21/26	SPT	REFUSAL		CL	0.0	21.0	79.0	-	-	-	2.28	1.91	19.1	-	-	-	-	2.34
21/27	SPT	REFUSAL		CL	-	-	-	-	-	-	-	-	19.3	-	-	-	-	-
21/28	SPT	REFUSAL		CL	0.0	6.0	94.0	-	-	-	-	-	19.7	-	-	-	-	-

SOIGNE ENGINEERING CONSULTANTS SCF 23, MM, Manimajra, Chandigarh email: soigneconsultants@gmail.com	BOREHOLE	LOCATION	JOB NO.	PAGE NO
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PROJECT :- GEOTECHNICAL INVESTIGATION REPORT FOR REDEVELOPMENT OF BOTANICAL GARDEN OF INDIAN REPUBLIC NOIDA.	STARTING DEPTH	0.0 M	WATER TABLE DEPTH
CLIENT :-EXECUTIVE ENGINEER (P) NOIDA CENTRAL DIVISION CPWD, NEW DELHI	TERMINATION DEPTH	40.0 M	13.2 M

BORE LOG SHEET

Sample					Symbolic representation	Grain Size Analysis			Atterberg limit			Density		Moisture Content (%)	Shear Parameters				Specific Gravity
Depth (m)	Sample No	Sample Type	Observed N-Value	Corrected N-value		Gravel (%)	Sand (%)	Silt Clay (%)	Liquid limit (%)	Plastic Limit (%)	Plasticity index	Bulk Density (gm/cc)	Dry Density (gm/cc)		Cohesion, c (t/m2)	Angle of Internal Friction,	Coefficent of consolidation, Cc	Void Ratio, eo	
0.75	S-22/1	SPT	5.0	8.5	CL	0.0	11.0	89.0	-	-	-	-	-	2.2	-	-	-	-	-
1.50	S-22/2	SPT	7.0	10.2	SP	0.0	76.0	24.0	NP	NP	NP	1.65	1.59	3.9	0.4	23.0	-	-	2.40
3.00	S-22/3	SPT	9.0	11.0	SP	0.0	92.0	8.0	NP	NP	NP	-	-	4.1	-	-	-	-	-
4.50	S-22/4	SPT	10.0	10.9	SP	-	-	-	NP	NP	NP	-	-	-	-	-	-	-	-
6.00	S-22/5	SPT	12.0	11.9	SP	0.0	96.0	4.0	NP	NP	NP	1.69	1.60	5.9	-	28.0	-	-	2.42
7.50	S-22/6	SPT	15.0	13.8	SP	-	-	-	NP	NP	NP	-	-	-	-	-	-	-	-
9.00	S-22/7	SPT	18.0	15.5	SP	3.0	89.0	8.0	NP	NP	NP	1.73	1.62	6.9	-	-	-	-	-
10.50	S-22/8	SPT	25.0	20.2	SP	-	-	-	NP	NP	NP	-	-	-	-	-	-	-	-
12.00	S-22/9	SPT	28.0	21.4	SP	0.0	91.0	9.0	NP	NP	NP	-	-	7.6	-	32.0	-	-	-
13.50	S-22/10	SPT	32.0	23.2	SP	-	-	-	NP	NP	NP	-	-	-	-	-	-	-	-

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PROJECT :- GEOTECHNICAL INVESTIGATION REPORT FOR REDEVELOPMENT OF BOTANICAL GARDEN OF INDIAN REPUBLIC NOIDA.	STARTING DEPTH	0.0 M	WATER TABLE DEPTH
CLIENT :-EXECUTIVE ENGINEER (P) NOIDA CENTRAL DIVISION CPWD, NEW DELHI	TERMINATION DEPTH	40.0 M	13.2 M

BORE LOG SHEET

Sample					Symbolic representation	Grain Size Analysis			Atterberg limit			Density		Moisture Content (%)	Shear Parameters				Specific Gravity
Depth (m)	Sample No	Sample Type	Observed N-Value	Corrected N-value		Gravel (%)	Sand (%)	Silt Clay (%)	Liquid limit (%)	Plastic Limit (%)	Plasticity Index	Bulk Density (gm/cc)	Dry Density (gm/cc)		Cohesion, c (t/m2)	Angle of Internal Friction,	Coefficent of consolidation, Cc	Void Ratio, eo	
15.00	S-22/11	SPT	37.0	25.5	SP	0.0	87.0	13.0	NP	NP	NP	1.81	1.64	10.6	-	-	-	-	-
16.00	S-22/12	SPT	40.0	26.3	SP	0.0	86.0	14.0	NP	NP	NP	-	-	12.6	-	33.0	-	-	-
18.00	S-22/13	SPT	51.0	32.0	SP	-	-	-	NP	NP	NP	1.88	1.65	13.6	-	-	-	-	2.29
19.50	S-22/14	SPT	58.0	34.9	SP	-	-	-	NP	NP	NP	-	-	-	-	-	-	-	-
21.00	S-22/15	SPT	67.0	38.6	SP	0.0	79.0	21.0	NP	NP	NP	-	-	14.6	-	-	-	-	-
22.00	S-22/16	SPT	74.0	40.9	CL	0.0	19.0	81.0	30.6	17.9	12.7	-	-	-	-	-	0.19	0.89	-
24.00	S-22/17	SPT	79.0	42.0	CL	0.0	9.0	91.0	-	-	-	-	-	16.5	-	-	-	-	2.31
25.50	S-22/18	SPT	86.0	44.0	CL	-	-	-	-	-	-	2.09	1.77	18.3	-	-	-	-	-
27.00	S-22/19	SPT	92.0	45.3	CL	-	-	-	-	-	-	-	-	-	-	-	-	-	-
28.50	S-22/20	SPT	REFUSAL		CL	0.0	10.0	90.0	-	-	-	-	-	18.0	-	-	-	-	-

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PROJECT :- GEOTECHNICAL INVESTIGATION REPORT FOR REDEVELOPMENT OF BOTANICAL GARDEN OF INDIAN REPUBLIC NOIDA.	STARTING DEPTH	0.0 M	WATER TABLE DEPTH
CLIENT :-EXECUTIVE ENGINEER (P) NOIDA CENTRAL DIVISION CPWD, NEW DELHI	TERMINATION DEPTH	40.0 M	13.2 M

BORE LOG SHEET

Sample					Symbolic representation	Grain Size Analysis			Atterberg limit			Density		Moisture Content (%)	Shear Parameters				Specific Gravity
Depth (m)	Sample No	Sample Type	Observed N-Value	Corrected N-value		Gravel (%)	Sand (%)	Silt Clay (%)	Liquid limit (%)	Plastic Limit (%)	Plasticity index	Bulk Density (gm/cc)	Dry Density (gm/cc)		Cohesion, c (t/m2)	Angle of Internal Friction,	Coefficent of consolidation, Cc	Void Ratio, eo	
30.00	S-22/21	SPT	REFUSAL		CL	-	-	-	-	-	-	-	-	-	-	-	-	-	-
31.50	S-22/22	SPT	REFUSAL		CL	0.0	15.0	85.0	29.5	18.6	10.9	2.14	-	19.6	-	-	0.18	0.86	2.45
32.50	S-22/23	SPT	REFUSAL		SP	-	-	-	NP	NP	NP	-	-	-	-	-	-	-	-
34.50	S-22/24	SPT	REFUSAL		SP	10.0	82.0	8.0	NP	NP	NP	2.23	1.86	19.6	-	-	-	-	-
36.00	S-22/25	SPT	REFUSAL		SP	-	-	-	NP	NP	NP	-	-	-	-	-	-	-	-
37.50	S-22/26	SPT	REFUSAL		SP	15.0	78.0	7.0	NP	NP	NP	2.29	1.91	19.7	-	-	-	-	2.47
39.00	S-22/27	SPT	REFUSAL		SP	-	-	-	NP	NP	NP	-	-	-	-	-	-	-	-
40.00	S-22/28	SPT	REFUSAL		SP	11.0	82.0	7.0	NP	NP	NP	-	-	19.8	-	-	-	-	-

SOIGNE ENGINEERING CONSULTANTS SCF 23, MM, Manimajra, Chandigarh email: soigneconsultants@gmail.com	BOREHOLE	LOCATION	JOB NO.	PAGE NO
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PROJECT :- GEOTECHNICAL INVESTIGATION REPORT FOR REDEVELOPMENT OF BOTANICAL GARDEN OF INDIAN REPUBLIC NOIDA.	STARTING DEPTH	0.0 M	WATER TABLE DEPTH
CLIENT :-EXECUTIVE ENGINEER (P) NOIDA CENTRAL DIVISION CPWD, NEW DELHI	TERMINATION DEPTH	40.0 M	13.7 M

BORE LOG SHEET

Sample					Symbolic representation	Grain Size Analysis			Atterberg limit			Density		Moisture Content (%)	Shear Parameters				Specific Gravity
Depth (m)	Sample No	Sample Type	Observed N-Value	Corrected N-value		Gravel (%)	Sand (%)	Silt Clay (%)	Liquid limit (%)	Plastic Limit (%)	Plasticity index	Bulk Density (gm/cc)	Dry Density (gm/cc)		Cohesion, c (t/m2)	Angle of Internal Friction,	Coefficent of consolidation, Cc	Void Ratio, eo	
0.75	S-23/1	SPT	5.0	8.4	CL	0.0	16.0	84.0	-	-	-	-	-	1.7	-	-	-	-	-
1.50	S-23/2	SPT	7.0	10.2	SP	0.0	89.0	11.0	NP	NP	NP	1.64	1.59	3.1	-	26.0	-	-	2.41
3.00	S-23/3	SPT	7.0	8.6	SP	-	-	-	NP	NP	NP	-	-	5.3	-	-	-	-	-
4.50	S-23/4	SPT	9.0	9.8	SP	-	-	-	NP	NP	NP	-	-	-	-	-	-	-	-
6.00	S-23/5	SPT	11.0	10.9	SP	0.0	97.0	3.0	NP	NP	NP	1.68	1.58	6.1	-	28.0	-	-	2.45
7.50	S-23/6	SPT	15.0	13.8	SP	-	-	-	NP	NP	NP	-	-	-	-	-	-	-	-
9.00	S-23/7	SPT	19.0	16.3	SP	0.0	96.0	4.0	NP	NP	NP	1.79	1.67	7.1	-	-	-	-	-
10.50	S-23/8	SPT	23.0	18.5	SP	-	-	-	NP	NP	NP	-	-	-	-	-	-	-	-
12.00	S-23/9	SPT	27.0	20.6	SP	0.0	87.0	13.0	NP	NP	NP	-	-	8.8	-	-	-	-	-
13.50	S-23/10	SPT	32.0	23.1	SP	-	-	-	NP	NP	NP	-	-	-	-	-	-	-	-

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PROJECT :- GEOTECHNICAL INVESTIGATION REPORT FOR REDEVELOPMENT OF BOTANICAL GARDEN OF INDIAN REPUBLIC NOIDA.	STARTING DEPTH	0.0 M	WATER TABLE DEPTH
CLIENT :-EXECUTIVE ENGINEER (P) NOIDA CENTRAL DIVISION CPWD, NEW DELHI	TERMINATION DEPTH	40.0 M	13.7 M

BORE LOG SHEET

Sample					Symbolic representation	Grain Size Analysis			Atterberg limit			Density		Moisture Content (%)	Shear Parameters				Specific Gravity
Depth (m)	Sample No	Sample Type	Observed N-Value	Corrected N-value		Gravel (%)	Sand (%)	Silt Clay (%)	Liquid limit (%)	Plastic Limit (%)	Plasticity index	Bulk Density (gm/cc)	Dry Density (gm/cc)		Cohesion, c (t/m2)	Angle of Internal Friction,	Coefficent of consolidation, Cc	Void Ratio, eo	
15.00	S-23/11	SPT	37.0	25.4	SP	0.0	94.0	6.0	-	-	-	1.88	1.72	9.4	-	-	-	-	-
16.00	S-23/12	SPT	41.0	26.9	SP	-	-	-	-	-	-	-	-	11.6	-	-	-	-	2.47
18.00	S-23/13	SPT	49.0	30.7	SP	-	-	-	-	-	-	1.96	1.74	12.6	-	-	-	-	2.48
19.50	S-23/14	SPT	58.0	34.7	SP	0.0	86.0	14.0	-	-	-	-	-	-	-	-	-	-	-
21.00	S-23/15	SPT	62.0	35.6	SP	-	-	-	-	-	-	-	-	14.5	-	-	-	-	-
22.50	S-23/16	SPT	67.0	36.9	SP	11.0	81.0	8.0	-	-	-	-	-	-	-	-	-	-	-
24.00	S-23/17	SPT	73.0	38.7	SP	16.0	78.0	6.0	-	-	-	-	-	15.6	-	-	-	-	2.54
25.50	S-23/18	SPT	79.0	40.2	SP	-	-	-	NP	NP	NP	2.00	1.72	16.6	-	-	-	-	-
27.00	S-23/19	SPT	85.0	41.7	SP	-	-	-	NP	NP	NP	-	-	-	-	-	-	-	-
28.50	S-23/20	SPT	90.0	42.5	SP	0.0	96.0	4.0	NP	NP	NP	-	-	17.2	-	-	-	-	-

SOIGNE ENGINEERING CONSULTANTS SCF 23, MM, Manimajra, Chandigarh email: soigneconsultants@gmail.com	BOREHOLE	LOCATION	JOB NO.	PAGE NO
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PROJECT :- GEOTECHNICAL INVESTIGATION REPORT FOR REDEVELOPMENT OF BOTANICAL GARDEN OF INDIAN REPUBLIC NOIDA.	STARTING DEPTH	0.0 M	WATER TABLE DEPTH
CLIENT :-EXECUTIVE ENGINEER (P) NOIDA CENTRAL DIVISION CPWD, NEW DELHI	TERMINATION DEPTH	40.0 M	13.7 M

BORE LOG SHEET

Sample					Symbolic representation	Grain Size Analysis			Atterberg limit			Density		Moisture Content (%)	Shear Parameters				Specific Gravity
Depth (m)	Sample No	Sample Type	Observed N-Value	Corrected N-value		Gravel (%)	Sand (%)	Silt Clay (%)	Liquid limit (%)	Plastic Limit (%)	Plasticity index	Bulk Density (gm/cc)	Dry Density (gm/cc)		Cohesion, c (t/m2)	Angle of Internal Friction,	Coefficent of consolidation, Cc	Void Ratio, eo	
30.00	S-23/21	SPT	95.0	43.2	SP	-	-	-	NP	NP	NP	-	-	-	-	-	-	-	-
31.00	S-23/22	SPT	REFUSAL		SP	0.0	89.0	11.0	NP	NP	NP	2.01	1.71	17.5	-	-	-	-	2.29
33.00	S-23/23	SPT	REFUSAL		CL	0.0	11.0	89.0	30.6	18.8	11.8	-	-	-	-	-	0.19	0.89	-
34.50	S-23/24	SPT	REFUSAL		CL	-	-	-	-	-	-	2.11	1.79	17.9	-	-	-	-	-
36.00	S-23/25	SPT	REFUSAL		CL	-	-	-	-	-	-	-	-	-	-	-	-	-	-
37.50	S-23/26	SPT	REFUSAL		CL	0.0	26.0	74.0	-	-	-	2.24	1.90	18.2	-	-	-	-	2.31
39.00	S-23/27	SPT	REFUSAL		CL	-	-	-	-	-	-	-	-	18.5	-	-	-	-	-
40.00	S-23/28	SPT	REFUSAL		CL	0.0	9.0	91.0	-	-	-	-	-	18.9	-	-	-	-	-

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PROJECT :- GEOTECHNICAL INVESTIGATION REPORT FOR REDEVELOPMENT OF BOTANICAL GARDEN OF INDIAN REPUBLIC NOIDA.	STARTING DEPTH	0.0 M	WATER TABLE DEPTH
CLIENT :-EXECUTIVE ENGINEER (P) NOIDA CENTRAL DIVISION CPWD, NEW DELHI	TERMINATION DEPTH	40.0 M	13.5 M

BORE LOG SHEET

Sample					Symbolic representation	Grain Size Analysis			Atterberg limit			Density		Moisture Content (%)	Shear Parameters				Specific Gravity
Depth (m)	Sample No	Sample Type	Observed N-Value	Corrected N-value		Gravel (%)	Sand (%)	Silt Clay (%)	Liquid limit (%)	Plastic Limit (%)	Plasticity Index	Bulk Density (gm/cc)	Dry Density (gm/cc)		Cohesion, c (t/m2)	Angle of Internal Friction,	Coefficent of consolidation, Cc	Void Ratio, eo	
0.75	S-23/1	SPT	4.0	6.8	CL	0.0	20.0	80.0	-	-	-		-	2.6	-	-	-	-	-
1.50	S-23/2	SPT	5.0	7.3	SP	0.0	81.0	19.0	-	-	-	1.68	1.62	3.6	-	23.0	-	-	2.39
3.00	S-23/3	SPT	6.0	7.4	SP	0.0	90.0	10.0	NP	NP	NP	-	-	4.6	-	-	-	-	-
4.50	S-23/4	SPT	7.0	7.6	SP	-	-	-	NP	NP	NP	-	-	-	-	-	-	-	-
6.00	S-23/5	SPT	9.0	8.9	SP	0.0	96.0	4.0	NP	NP	NP	1.76	1.67	5.2	-	29.0	-	-	2.44
7.50	S-23/6	SPT	13.0	11.9	SP	-	-	-	NP	NP	NP	-	-	-	-	-	-	-	-
9.00	S-23/7	SPT	14.0	12.0	SP	0.0	93.0	7.0	NP	NP	NP	1.80	1.69	6.3	-	-	-	-	-
10.50	S-23/8	SPT	18.0	14.5	SP	-	-	-	NP	NP	NP	-	-	-	-	-	-	-	-
12.00	S-23/9	SPT	20.0	15.2	SP	2.0	89.0	9.0	NP	NP	NP	-	-	8.3	-	-	-	-	-
13.50	S-23/10	SPT	26.0	18.8	SP	-	-	-	NP	NP	NP	-	-	-	-	-	-	-	-

SOIGNE ENGINEERING CONSULTANTS SCF 23, MM, Manimajra, Chandigarh email: soigneconsultants@gmail.com	BOREHOLE	LOCATION	JOB NO.	PAGE NO
	24	N-3161562 E-727830	GT-1997	

PROJECT :- GEOTECHNICAL INVESTIGATION REPORT FOR REDEVELOPMENT OF BOTANICAL GARDEN OF INDIAN REPUBLIC NOIDA.	STARTING DEPTH	0.0 M	WATER TABLE DEPTH
CLIENT :-EXECUTIVE ENGINEER (P) NOIDA CENTRAL DIVISION CPWD, NEW DELHI	TERMINATION DEPTH	40.0 M	13.5 M

BORE LOG SHEET

Sample					Symbolic representation	Grain Size Analysis			Atterberg limit			Density		Moisture Content (%)	Shear Parameters				Specific Gravity
Depth (m)	Sample No	Sample Type	Observed N-Value	Corrected N-value		Gravel (%)	Sand (%)	Silt Clay (%)	Liquid limit (%)	Plastic Limit (%)	Plasticity Index	Bulk Density (gm/cc)	Dry Density (gm/cc)		Cohesion, c (t/m2)	Angle of Internal Friction,	Coefficent of consolidation, Cc	Void Ratio, eo	
15.00	S-23/11	SPT	27.0	18.5	SP	0.0	81.0	19.0	-	-	-	1.88	1.68	11.9	-	-	-	-	-
16.00	S-23/12	SPT	32.0	21.0	CL	0.0	9.0	91.0	-	-	-	-	-	13.6	-	-	-	-	-
18.00	S-23/13	SPT	36.0	22.5	CL	-	-	-	31.2	17.2	14.0	1.97	1.70	16.2	-	-	0.19	0.91	2.31
19.50	S-23/14	SPT	45.0	27.0	CL	0.0	16.0	84.0	-	-	-	-	-	-	-	-	-	-	-
21.00	S-23/15	SPT	50.0	28.7	CL	-	-	-	-	-	-	-	-	16.8	-	-	-	-	-
22.50	S-23/16	SPT	54.0	29.8	CL	0.0	23.0	77.0	-	-	-	-	-	-	-	-	0.21	0.92	2.34
24.00	S-23/17	SPT	62.0	32.8	SP	0.0	88.0	12.0	NP	NP	NP	-	-	16.9	-	-	-	-	2.43
25.50	S-23/18	SPT	68.0	34.6	SP	-	-	-	NP	NP	NP	2.05	1.75	17.3	-	-	-	-	-
27.00	S-23/19	SPT	74.0	36.3	SP	-	-	-	NP	NP	NP	-	-	-	-	-	-	-	-
28.50	S-23/20	SPT	83.0	39.2	SP	0.0	92.0	8.0	NP	NP	NP	-	-	17.5	-	-	-	-	-

SOIGNE ENGINEERING CONSULTANTS SCF 23, MM, Manimajra, Chandigarh email: soigneconsultants@gmail.com	BOREHOLE	LOCATION	JOB NO.	PAGE NO
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PROJECT :- GEOTECHNICAL INVESTIGATION REPORT FOR REDEVELOPMENT OF BOTANICAL GARDEN OF INDIAN REPUBLIC NOIDA.	STARTING DEPTH	0.0 M	WATER TABLE DEPTH
CLIENT :-EXECUTIVE ENGINEER (P) NOIDA CENTRAL DIVISION CPWD, NEW DELHI	TERMINATION DEPTH	40.0 M	13.5 M

BORE LOG SHEET

Sample					Symbolic representation	Grain Size Analysis			Atterberg limit			Density		Moisture Content (%)	Shear Parameters				Specific Gravity
Depth (m)	Sample No	Sample Type	Observed N-Value	Corrected N-value		Gravel (%)	Sand (%)	Silt Clay (%)	Liquid limit (%)	Plastic Limit (%)	Plasticity Index	Bulk Density (gm/cc)	Dry Density (gm/cc)		Cohesion, c (t/m2)	Angle of Internal Friction,	Coefficent of consolidation, Cc	Void Ratio, eo	
30.00	S-23/21	SPT	93.0	42.3	SP	-	-	-	NP	NP	NP	-	-	-	-	-	-	-	-
31.00	S-23/22	SPT	REFUSAL		SP	0.0	94.0	6.0	NP	NP	NP	2.09	1.77	17.8	-	-	-	-	2.46
33.00	S-23/23	SPT	REFUSAL		SP	-	-	-	NP	NP	NP	-	-	-	-	-	-	-	-
34.50	S-23/24	SPT	REFUSAL		SP	0.0	97.0	3.0	NP	NP	NP	2.16	1.82	18.6	-	-	-	-	-
36.00	S-23/25	SPT	REFUSAL		SP	-	-	-	NP	NP	NP	-	-	-	-	-	-	-	-
37.50	S-23/26	SPT	REFUSAL		SP	0.0	93.0	7.0	NP	NP	NP	2.24	1.88	19.2	-	-	-	-	2.47
39.00	S-23/27	SPT	REFUSAL		CL	0.0	28.0	72.0	28.3	16.5	11.8	-	-	-	-	-	-	-	-
40.00	S-23/28	SPT	REFUSAL		CL	0.0	13.0	87.0	-	-	-	-	-	19.6	-	-	-	-	-

SOIGNE ENGINEERING CONSULTANTS SCF 23, MM, Manimajra, Chandigarh email: soigneconsultants@gmail.com	BOREHOLE	LOCATION	JOB NO.	PAGE NO
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PROJECT :- GEOTECHNICAL INVESTIGATION REPORT FOR REDEVELOPMENT OF BOTANICAL GARDEN OF INDIAN REPUBLIC NOIDA.	STARTING DEPTH	0.0 M	WATER TABLE DEPTH
CLIENT :-EXECUTIVE ENGINEER (P) NOIDA CENTRAL DIVISION CPWD, NEW DELHI	TERMINATION DEPTH	40.0 M	13.3 M

BORE LOG SHEET

Sample					Symbolic representation	Grain Size Analysis			Atterberg limit			Density		Moisture Content (%)	Shear Parameters				Specific Gravity
Depth (m)	Sample No	Sample Type	Observed N-Value	Corrected N-value		Gravel (%)	Sand (%)	Silt Clay (%)	Liquid limit (%)	Plastic Limit (%)	Plasticity index	Bulk Density (gm/cc)	Dry Density (gm/cc)		Cohesion, c (t/m2)	Angle of Internal Friction,	Coefficent of consolidation, Cc	Void Ratio, ea	
0.75	S-25/1	SPT	5.0	8.5	CL	0.0	9.0	91.0	-	-	-	-	-	2.7	-	-	-	-	-
1.50	S-25/2	SPT	6.0	8.8	SP	0.0	77.0	23.0	NP	NP	NP	1.63	1.57	3.9	0.6	22.0	-	-	2.42
3.00	S-25/3	SPT	7.0	8.6	SP	0.0	93.0	7.0	NP	NP	NP	-	-	4.9	-	-	-	-	-
4.50	S-25/4	SPT	8.0	8.7	SP	-	-	-	NP	NP	NP	-	-	-	-	-	-	-	-
6.00	S-25/5	SPT	9.0	9.0	SP	0.0	91.0	9.0	NP	NP	NP	1.69	1.59	6.1	-	27.0	-	-	2.43
7.50	S-25/6	SPT	11.0	10.1	SP	-	-	-	NP	NP	NP	-	-	-	-	-	-	-	-
9.00	S-25/7	SPT	12.0	10.3	SP	7.0	88.0	5.0	NP	NP	NP	1.72	1.62	6.5	-	-	-	-	-
10.50	S-25/8	SPT	16.0	12.9	SP	-	-	-	NP	NP	NP	-	-	-	-	-	-	-	-
12.00	S-25/9	SPT	20.0	15.3	SP	0.0	87.0	13.0	NP	NP	NP	-	-	7.8	-	29.0	-	-	-
13.50	S-25/10	SPT	24.0	17.4	SP	-	-	-	NP	NP	NP	-	-	-	-	-	-	-	-

SOIGNE ENGINEERING CONSULTANTS SCF 23, MM, Manimajra, Chandigarh email: soigneconsultants@gmail.com	BOREHOLE	LOCATION	JOB NO.	PAGE NO
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PROJECT :- GEOTECHNICAL INVESTIGATION REPORT FOR REDEVELOPMENT OF BOTANICAL GARDEN OF INDIAN REPUBLIC NOIDA.	STARTING DEPTH	0.0 M	WATER TABLE DEPTH
CLIENT :-EXECUTIVE ENGINEER (P) NOIDA CENTRAL DIVISION CPWD, NEW DELHI	TERMINATION DEPTH	40.0 M	13.3 M

BORE LOG SHEET

Sample					Symbolic representation	Grain Size Analysis			Atterberg limit			Density		Moisture Content (%)	Shear Parameters				Specific Gravity
Depth (m)	Sample No	Sample Type	Observed N-Value	Corrected N-value		Gravel (%)	Sand (%)	Silt Clay (%)	Liquid limit (%)	Plastic Limit (%)	Plasticity Index	Bulk Density (gm/cc)	Dry Density (gm/cc)		Cohesion, c (t/m2)	Angle of Internal Friction,	Coefficient of consolidation, Cc	Void Ratio, eo	
15.00	S-25/11	SPT	28.0	19.3	SP	0.0	84.0	16.0	NP	NP	NP	1.81	1.61	12.6	-	-	-	-	-
16.00	S-25/12	SPT	32.0	21.0	SP	0.0	81.0	19.0	NP	NP	NP	-	-	13.9	-	-	-	-	-
18.00	S-25/13	SPT	34.0	21.3	SP	-	-	-	NP	NP	NP	1.82	1.57	16.1	-	-	-	-	2.33
19.50	S-25/14	SPT	41.0	24.6	SP	-	-	-	NP	NP	NP	-	-	-	-	-	-	-	-
21.00	S-25/15	SPT	47.0	27.1	SP	0.0	86.0	14.0	NP	NP	NP	-	-	17.2	-	-	-	-	-
22.00	S-25/16	SPT	54.0	29.9	CL	0.0	11.0	89.0	29.6	17.9	11.7	-	-	-	-	-	0.18	0.86	-
24.00	S-25/17	SPT	59.0	31.4	CL	0.0	9.0	91.0	-	-	-	-	-	17.8	-	-	-	-	2.35
25.50	S-25/18	SPT	65.0	33.2	CL	-	-	-	-	-	-	2.01	1.70	18.0	-	-	-	-	-
27.00	S-25/19	SPT	71.0	34.9	CL	-	-	-	-	-	-	-	-	-	-	-	-	-	-
28.50	S-25/20	SPT	81.0	46.5	CL	0.0	10.0	90.0	-	-	-	-	-	18.2	-	-	-	-	-

SOIGNE ENGINEERING CONSULTANTS SCF 23, MM, Manimajra, Chandigarh email: soigneconsultants@gmail.com	BOREHOLE	LOCATION	JOB NO.	PAGE NO
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PROJECT :- GEOTECHNICAL INVESTIGATION REPORT FOR REDEVELOPMENT OF BOTANICAL GARDEN OF INDIAN REPUBLIC NOIDA.	STARTING DEPTH	0.0 M	WATER TABLE DEPTH
CLIENT :-EXECUTIVE ENGINEER (P) NOIDA CENTRAL DIVISION CPWD, NEW DELHI	TERMINATION DEPTH	40.0 M	13.3 M

BORE LOG SHEET

Sample					Symbolic representation	Grain Size Analysis			Atterberg limit			Density		Moisture Content (%)	Shear Parameters				Specific Gravity
Depth (m)	Sample No	Sample Type	Observed N-Value	Corrected N-value		Gravel (%)	Sand (%)	Silt Clay (%)	Liquid limit (%)	Plastic Limit (%)	Plasticity Index	Bulk Density (gm/cc)	Dry Density (gm/cc)		Cohesion, c (t/m2)	Angle of Internal Friction,	Coefficent of consolidation, Cc	Void Ratio, eo	
30.00	S-25/21	SPT	85.0	44.3	CL	-	-	-	-	-	-	-	-	-	-	-	-	-	-
31.50	S-25/22	SPT	92.0	40.5	CL	0.0	16.0	84.0	29.6	18.9	10.7	2.11	1.78	18.8	-	-	0.18	0.87	2.47
32.50	S-25/23	SPT	REFUSAL		SP	-	-	-	NP	NP	NP	-	-	-	-	-	-	-	-
34.50	S-25/24	SPT	REFUSAL		SP	6.0	80.0	14.0	NP	NP	NP	2.25	1.89	19.0	-	-	-	-	-
36.00	S-25/25	SPT	REFUSAL		SP	-	-	-	NP	NP	NP	-	-	-	-	-	-	-	-
37.50	S-25/26	SPT	REFUSAL		SP	5.0	78.0	17.0	NP	NP	NP	2.31	1.94	19.2	-	-	-	-	2.49
39.00	S-25/27	SPT	REFUSAL		SP	-	-	-	NP	NP	NP	-	-	-	-	-	-	-	-
40.00	S-25/28	SPT	REFUSAL		SP	8.0	76.0	16.0	NP	NP	NP	-	-	19.5	-	-	-	-	-

SOIGNE ENGINEERING CONSULTANTS SCF 23, MM, Manimajra, Chandigarh email: soigneconsultants@gmail.com	BOREHOLE	LOCATION	JOB NO.	PAGE NO
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PROJECT :- GEOTECHNICAL INVESTIGATION REPORT FOR REDEVELOPMENT OF BOTANICAL GARDEN OF INDIAN REPUBLIC NOIDA.	STARTING DEPTH	0.0 M	WATER TABLE DEPTH
CLIENT :-EXECUTIVE ENGINEER (P) NOIDA CENTRAL DIVISION CPWD, NEW DELHI	TERMINATION DEPTH	40.0 M	13.8 M

BORE LOG SHEET

Sample					Symbolic representation	Grain Size Analysis			Atterberg limit			Density		Moisture Content (%)	Shear Parameters				Specific Gravity
Depth (m)	Sample No	Sample Type	Observed N-Value	Corrected N-value		Gravel (%)	Sand (%)	Silt Clay (%)	Liquid limit (%)	Plastic Limit (%)	Plasticity Index	Bulk Density (gm/cc)	Dry Density (gm/cc)		Cohesion, c (t/m2)	Angle of Internal Friction,	Coefficient of consolidation, Cc	Void Ratio, eo	
0.75	S-26/1	SPT	4.0	6.8	CL	0.0	14.0	86.0	-	-	-	-	-	2.1	-	-	-	-	-
1.50	S-26/2	SPT	6.0	8.8	SP	0.0	79.0	21.0	NP	NP	NP	1.65	1.60	3.2	0.8	21.0	-	-	2.41
3.00	S-26/3	SPT	7.0	8.6	SP	0.0	96.0	4.0	NP	NP	NP	-	-	4.3	-	-	-	-	-
4.50	S-26/4	SPT	8.0	8.7	SP	-	-	-	NP	NP	NP	-	-	-	-	-	-	-	-
6.00	S-26/5	SPT	10.0	10.0	SP	0.0	94.0	6.0	NP	NP	NP	1.70	1.61	5.6	-	26.0	-	-	2.44
7.50	S-26/6	SPT	15.0	13.8	SP	-	-	-	NP	NP	NP	-	-	-	-	-	-	-	-
9.00	S-26/7	SPT	19.0	16.3	SP	4.0	86.0	10.0	NP	NP	NP	1.71	1.61	6.2	-	-	-	-	-
10.50	S-26/8	SPT	24.0	19.4	SP	-	-	-	NP	NP	NP	-	-	-	-	-	-	-	-
12.00	S-26/9	SPT	27.0	20.6	SP	0.0	92.0	8.0	NP	NP	NP	-	-	7.3	-	28.0	-	-	-
13.50	S-26/10	SPT	31.0	22.4	SP	-	-	-	NP	NP	NP	-	-	-	-	-	-	-	-

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PROJECT :- GEOTECHNICAL INVESTIGATION REPORT FOR REDEVELOPMENT OF BOTANICAL GARDEN OF INDIAN REPUBLIC NOIDA.	STARTING DEPTH	0.0 M	WATER TABLE DEPTH
CLIENT :-EXECUTIVE ENGINEER (P) NOIDA CENTRAL DIVISION CPWD, NEW DELHI	TERMINATION DEPTH	40.0 M	13.8 M

BORE LOG SHEET

Sample					Symbolic representation	Grain Size Analysis			Atterberg limit			Density		Moisture Content (%)	Shear Parameters				Specific Gravity
Depth (m)	Sample No	Sample Type	Observed N-Value	Corrected N-value		Gravel (%)	Sand (%)	Silt Clay (%)	Liquid limit (%)	Plastic Limit (%)	Plasticity index	Bulk Density (gm/cc)	Dry Density (gm/cc)		Cohesion, c (t/m2)	Angle of Internal Friction,	Coefficent of consolidation, Cc	Void Ratio, eo	
15.00	S-26/11	SPT	33.0	22.7	SP	0.0	89.0	11.0	NP	NP	NP	1.81	1.62	11.5	-	-	-	-	-
16.00	S-26/12	SPT	41.0	26.9	SP	0.0	85.0	15.0	NP	NP	NP	-	-	12.9	-	30.0	-	-	-
18.00	S-26/13	SPT	50.0	31.4	SP	-	-	-	NP	NP	NP	1.84	1.60	15.3	-	-	-	-	2.42
19.50	S-26/14	SPT	56.0	33.7	SP	-	-	-	NP	NP	NP	-	-	-	-	-	-	-	-
21.00	S-26/15	SPT	62.0	35.7	SP	0.0	82.0	18.0	NP	NP	NP	-	-	16.5	-	-	-	-	-
22.00	S-26/16	SPT	71.0	39.3	CL	0.0	8.0	92.0	31.2	18.2	13.0	-	-	-	-	-	0.19	0.91	-
24.00	S-26/17	SPT	79.0	42.0	CL	0.0	11.0	89.0	-	-	-	-	-	17.5	-	-	-	-	2.36
25.50	S-26/18	SPT	84.0	43.0	CL	-	-	-	-	-	-	2.02	1.71	18.3	-	-	-	-	-
27.00	S-26/19	SPT	91.0	44.8	CL	-	-	-	-	-	-	-	-	-	-	-	-	-	-
28.50	S-26/20	SPT	REFUSAL		CL	0.0	6.0	94.0	-	-	-	-	-	18.6	-	-	-	-	-

SOIGNE ENGINEERING CONSULTANTS SCF 23, MM, Manimajra, Chandigarh email: soigneconsultants@gmail.com	BOREHOLE	LOCATION	JOB NO.	PAGE NO
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PROJECT :- GEOTECHNICAL INVESTIGATION REPORT FOR REDEVELOPMENT OF BOTANICAL GARDEN OF INDIAN REPUBLIC NOIDA.	STARTING DEPTH	0.0 M	WATER TABLE DEPTH
CLIENT :-EXECUTIVE ENGINEER (P) NOIDA CENTRAL DIVISION CPWD, NEW DELHI	TERMINATION DEPTH	40.0 M	13.8 M

BORE LOG SHEET

Sample					Symbolic representation	Grain Size Analysis			Atterberg limit			Density		Moisture Content (%)	Shear Parameters				Specific Gravity
Depth (m)	Sample No	Sample Type	Observed N-Value	Corrected N-value		Gravel (%)	Sand (%)	Silt Clay (%)	Liquid limit (%)	Plastic Limit (%)	Plasticity index	Bulk Density (gm/cc)	Dry Density (gm/cc)		Cohesion, c (t/m2)	Angle of Internal Friction,	Coefficent of consolidation, Cc	Void Ratio, ee	
30.00	S-26/21	SPT	REFUSAL		CL	-	-	-	-	-	-	-	-	-	-	-	-	-	-
31.50	S-26/22	SPT	REFUSAL		CL	0.0	19.0	81.0	28.9	17.5	11.4	2.09	1.76	18.8	-	-	0.17	0.84	2.45
32.50	S-26/23	SPT	REFUSAL		SP	-	-	-	NP	NP	NP	-	-	-	-	-	-	-	-
34.50	S-26/24	SPT	REFUSAL		SP	4.0	86.0	10.0	NP	NP	NP	2.14	1.80	19.2	-	-	-	-	-
36.00	S-26/25	SPT	REFUSAL		SP	-	-	-	NP	NP	NP	-	-	-	-	-	-	-	-
37.50	S-26/26	SPT	REFUSAL		SP	10.0	81.0	9.0	NP	NP	NP	2.24	1.87	19.6	-	-	-	-	2.50
39.00	S-26/27	SPT	REFUSAL		SP	-	-	-	NP	NP	NP	-	-	-	-	-	-	-	-
40.00	S-26/28	SPT	REFUSAL		SP	5.0	83.0	12.0	NP	NP	NP	-	-	19.9	-	-	-	-	-

SOIGNE ENGINEERING CONSULTANTS SCF 23, MM, Manimajra, Chandigarh email: soigneconsultants@gmail.com	BOREHOLE	LOCATION	JOB NO.	PAGE NO
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PROJECT :- GEOTECHNICAL INVESTIGATION REPORT FOR REDEVELOPMENT OF BOTANICAL GARDEN OF INDIAN REPUBLIC NOIDA.	STARTING DEPTH	0.0 M	WATER TABLE DEPTH
CLIENT :-EXECUTIVE ENGINEER (P) NOIDA CENTRAL DIVISION CPWD, NEW DELHI	TERMINATION DEPTH	40.0 M	13.5 M

BORE LOG SHEET

Sample					Symbolic representation	Grain Size Analysis			Atterberg limit			Density		Moisture Content (%)	Shear Parameters				Specific Gravity
Depth (m)	Sample No	Sample Type	Observed N-Value	Corrected N-value		Gravel (%)	Sand (%)	Silt Clay (%)	Liquid limit (%)	Plastic Limit (%)	Plasticity index	Bulk Density (gm/cc)	Dry Density (gm/cc)		Cohesion, c (t/m2)	Angle of Internal Friction,	Coefficent of consolidation, Cc	Void Ratio, eo	
0.75	S-27/1	SPT	4.0	6.8	CL	0.0	11.0	89.0	-	-	-	-	-	2.1	-	-	-	-	-
1.50	S-27/2	SPT	5.0	7.3	SP	0.0	80.0	20.0	NP	NP	NP	1.66	1.61	3.3	0.6	21.0	-	-	2.41
3.00	S-27/3	SPT	7.0	8.6	SP	0.0	89.0	11.0	NP	NP	NP	-	-	4.1	-	-	-	-	-
4.50	S-27/4	SPT	9.0	9.8	SP	-	-	-	NP	NP	NP	-	-	-	-	-	-	-	-
6.00	S-27/5	SPT	10.0	10.0	SP	0.0	96.0	4.0	NP	NP	NP	1.68	1.57	6.8	-	27.0	-	-	2.45
7.50	S-27/6	SPT	14.0	12.9	SP	-	-	-	NP	NP	NP	-	-	-	-	-	-	-	-
9.00	S-27/7	SPT	18.0	15.5	SP	7.0	94.0	-1.0	NP	NP	NP	1.73	1.62	7.1	-	-	-	-	-
10.50	S-27/8	SPT	22.0	17.8	SP	-	-	-	NP	NP	NP	-	-	-	-	-	-	-	-
12.00	S-27/9	SPT	25.0	19.1	SP	0.0	89.0	11.0	NP	NP	NP	-	-	7.6	-	32.0	-	-	-
13.50	S-27/10	SPT	29.0	21.0	SP	-	-	-	NP	NP	NP	-	-	-	-	-	-	-	-

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PROJECT :- GEOTECHNICAL INVESTIGATION REPORT FOR REDEVELOPMENT OF BOTANICAL GARDEN OF INDIAN REPUBLIC NOIDA.	STARTING DEPTH	0.0 M	WATER TABLE DEPTH
CLIENT :-EXECUTIVE ENGINEER (P) NOIDA CENTRAL DIVISION CPWD, NEW DELHI	TERMINATION DEPTH	40.0 M	13.5 M

BORE LOG SHEET

Sample					Symbolic representation	Grain Size Analysis			Atterberg limit			Density		Moisture Content (%)	Shear Parameters				Specific Gravity
Depth (m)	Sample No	Sample Type	Observed N-Value	Corrected N-value		Gravel (%)	Sand (%)	Silt Clay (%)	Liquid limit (%)	Plastic Limit (%)	Plasticity index	Bulk Density (gm/cc)	Dry Density (gm/cc)		Cohesion, c (t/m2)	Angle of Internal Friction,	Coefficent of consolidation, Cc	Void Ratio, ee	
15.00	S-27/11	SPT	32.0	22.0	SP	0.0	86.0	14.0	NP	NP	NP	1.79	1.62	10.3	-	-	-	-	-
16.00	S-27/12	SPT	35.0	23.0	SP	0.0	83.0	17.0	NP	NP	NP	-	-	12.2	-	-	-	-	-
18.00	S-27/13	SPT	40.0	25.1	SP	-	-	-	NP	NP	NP	1.81	1.57	15.2	-	-	-	-	2.45
19.50	S-27/14	SPT	44.0	26.4	SP	-	-	-	NP	NP	NP	-	-	-	-	-	-	-	-
21.00	S-27/15	SPT	50.0	28.8	SP	0.0	89.0	11.0	NP	NP	NP	-	-	16.1	-	-	-	-	-
22.00	S-27/16	SPT	55.0	30.4	CL	0.0	6.0	94.0	32.2	18.6	13.6	-	-	-	-	-	0.20	0.94	-
24.00	S-27/17	SPT	63.0	33.5	CL	0.0	11.0	89.0	-	-	-	-	-	16.6	-	-	-	-	2.33
25.50	S-27/18	SPT	69.0	35.3	CL	-	-	-	-	-	-	2.03	1.73	17.5	-	-	-	-	-
27.00	S-27/19	SPT	73.0	35.9	CL	-	-	-	-	-	-	-	-	-	-	-	-	-	-
28.50	S-27/20	SPT	80.0	46.5	CL	0.0	13.0	87.0	-	-	-	-	-	17.9	-	-	0.16	0.80	-

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PROJECT :- GEOTECHNICAL INVESTIGATION REPORT FOR REDEVELOPMENT OF BOTANICAL GARDEN OF INDIAN REPUBLIC NOIDA.	STARTING DEPTH	0.0 M	WATER TABLE DEPTH
CLIENT :-EXECUTIVE ENGINEER (P) NOIDA CENTRAL DIVISION CPWD, NEW DELHI	TERMINATION DEPTH	40.0 M	13.5 M

BORE LOG SHEET

Sample					Symbolic representation	Grain Size Analysis			Atterberg limit			Density		Moisture Content (%)	Shear Parameters				Specific Gravity
Depth (m)	Sample No	Sample Type	Observed N-Value	Corrected N-value		Gravel (%)	Sand (%)	Silt Clay (%)	Liquid limit (%)	Plastic Limit (%)	Plasticity index	Bulk Density (gm/cc)	Dry Density (gm/cc)		Cohesion, c (t/m2)	Angle of Internal Friction,	Coefficent of consolidation, Cc	Void Ratio, eo	
30.00	S-27/21	SPT	86.0	44.3	CL	-	-	-	-	-	-	-	-	-	-	-	-	-	-
31.50	S-27/22	SPT	92.0	40.5	CL	0.0	19.0	81.0	28.6	17.9	10.7	2.06	1.74	18.5	-	-	-	-	2.35
32.50	S-27/23	SPT	REFUSAL		SP	-	-	-	NP	NP	NP	-	-	-	-	-	-	-	-
34.50	S-27/24	SPT	REFUSAL		SP	9.0	78.0	13.0	NP	NP	NP	2.15	1.81	18.9	-	-	-	-	-
36.00	S-27/25	SPT	REFUSAL		SP	-	-	-	NP	NP	NP	-	-	-	-	-	-	-	-
37.50	S-27/26	SPT	REFUSAL		SP	11.0	86.0	3.0	NP	NP	NP	2.24	1.88	19.0	-	-	-	-	2.44
39.00	S-27/27	SPT	REFUSAL		SP	-	-	-	NP	NP	NP	-	-	-	-	-	-	-	-
40.00	S-27/28	SPT	REFUSAL		SP	13.0	78.0	9.0	NP	NP	NP	-	-	19.3	-	-	-	-	-

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PROJECT :- GEOTECHNICAL INVESTIGATION REPORT FOR REDEVELOPMENT OF BOTANICAL GARDEN OF INDIAN REPUBLIC NOIDA.	STARTING DEPTH	0.0 M	WATER TABLE DEPTH
CLIENT :-EXECUTIVE ENGINEER (P) NOIDA CENTRAL DIVISION CPWD, NEW DELHI	TERMINATION DEPTH	40.0 M	13.2 M

BORE LOG SHEET

Sample					Symbolic representation	Grain Size Analysis			Atterberg limit			Density		Moisture Content (%)	Shear Parameters				Specific Gravity
Depth (m)	Sample No	Sample Type	Observed N-Value	Corrected N-value		Gravel (%)	Sand (%)	Silt Clay (%)	Liquid limit (%)	Plastic Limit (%)	Plasticity index	Bulk Density (gm/cc)	Dry Density (gm/cc)		Cohesion, c (t/m2)	Angle of Internal Friction,	Coefficent of consolidation, Cc	Void Ratio, eo	
0.75	S-28/1	SPT	5.0	8.5	CL	0.0	19.0	81.0	-	-	-	-	-	2.3	-	-	-	-	-
1.50	S-28/2	SPT	6.0	8.8	SP	0.0	71.0	29.0	NP	NP	NP	1.69	1.63	4.0	0.8	20.0	-	-	2.40
3.00	S-28/3	SPT	9.0	11.0	SP	0.0	94.0	6.0	NP	NP	NP	-	-	5.0	-	-	-	-	-
4.50	S-28/4	SPT	10.0	10.9	SP	-	-	-	NP	NP	NP	-	-	-	-	-	-	-	-
6.00	S-28/5	SPT	12.0	11.9	SP	0.0	96.0	4.0	NP	NP	NP	1.78	1.68	5.8	-	27.0	-	-	2.42
7.50	S-28/6	SPT	15.0	13.8	SP	-	-	-	NP	NP	NP	-	-	-	-	-	-	-	-
9.00	S-28/7	SPT	19.0	16.3	SP	7.0	90.0	3.0	NP	NP	NP	1.83	1.70	7.5	-	-	-	-	-
10.50	S-28/8	SPT	21.0	17.0	SP	-	-	-	NP	NP	NP	-	-	-	-	-	-	-	-
12.00	S-28/9	SPT	24.0	18.3	SP	0.0	81.0	19.0	NP	NP	NP	-	-	8.1	-	29.0	-	-	-
13.50	S-28/10	SPT	28.0	20.3	SP	-	-	-	NP	NP	NP	-	-	-	-	-	-	-	-

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PROJECT :- GEOTECHNICAL INVESTIGATION REPORT FOR REDEVELOPMENT OF BOTANICAL GARDEN OF INDIAN REPUBLIC NOIDA.	STARTING DEPTH	0.0 M	WATER TABLE DEPTH
CLIENT :-EXECUTIVE ENGINEER (P) NOIDA CENTRAL DIVISION CPWD, NEW DELHI	TERMINATION DEPTH	40.0 M	13.2 M

BORE LOG SHEET

Sample					Symbolic representation	Grain Size Analysis			Atterberg limit			Density		Moisture Content (%)	Shear Parameters				Specific Gravity
Depth (m)	Sample No	Sample Type	Observed N-Value	Corrected N-value		Gravel (%)	Sand (%)	Silt Clay (%)	Liquid limit (%)	Plastic Limit (%)	Plasticity Index	Bulk Density (gm/cc)	Dry Density (gm/cc)		Cohesion, c (t/m2)	Angle of internal Friction,	Coefficent of consolidation, Cc	Void Ratio, eo	
15.00	S-28/11	SPT	32.0	22.0	SP	0.0	86.0	14.0	NP	NP	NP	1.88	1.69	11.2	-	-	-	-	-
16.00	S-28/12	SPT	36.0	23.6	SP	0.0	89.0	11.0	NP	NP	NP	-	-	12.6	-	32.0	-	-	-
18.00	S-28/13	SPT	41.0	25.7	SP	-	-	-	NP	NP	NP	1.96	1.71	14.5	-	-	-	-	2.46
19.50	S-28/14	SPT	47.0	28.2	SP	-	-	-	NP	NP	NP	-	-	-	-	-	-	-	-
21.00	S-28/15	SPT	51.0	29.4	SP	0.0	93.0	7.0	NP	NP	NP	-	-	16.9	-	-	-	-	-
22.00	S-28/16	SPT	57.0	31.5	CL	0.0	6.0	94.0	31.2	18.2	13.0	-	-	-	-	-	0.19	0.91	-
24.00	S-28/17	SPT	62.0	33.0	CL	0.0	19.0	81.0	-	-	-	-	-	17.2	-	-	-	-	2.31
25.50	S-28/18	SPT	67.0	34.3	CL	-	-	-	-	-	-	2.07	1.76	17.9	-	-	-	-	-
27.00	S-28/19	SPT	74.0	36.4	CL	-	-	-	-	-	-	-	-	-	-	-	-	-	-
28.50	S-28/20	SPT	80.0	46.5	CL	0.0	15.0	85.0	-	-	-	-	-	18.3	-	-	-	-	-

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PROJECT :- GEOTECHNICAL INVESTIGATION REPORT FOR REDEVELOPMENT OF BOTANICAL GARDEN OF INDIAN REPUBLIC NOIDA.	STARTING DEPTH	0.0 M	WATER TABLE DEPTH
CLIENT :-EXECUTIVE ENGINEER (P) NOIDA CENTRAL DIVISION CPWD, NEW DELHI	TERMINATION DEPTH	40.0 M	13.2 M

BORE LOG SHEET

Sample					Symbolic representation	Grain Size Analysis			Atterberg limit			Density		Moisture Content (%)	Shear Parameters				Specific Gravity
Depth (m)	Sample No	Sample Type	Observed N-Value	Corrected N-value		Gravel (%)	Sand (%)	Silt Clay (%)	Liquid limit (%)	Plastic Limit (%)	Plasticity index	Bulk Density (gm/cc)	Dry Density (gm/cc)		Cohesion, c (t/m2)	Angle of Internal Friction,	Coefficent of consolidation, Cc	Void Ratio, eo	
30.00	S-28/21	SPT	85.0	44.3	CL	-	-	-	-	-	-	-	-	-	-	-	-	-	-
31.50	S-28/22	SPT	90.0	39.7	CL	0.0	18.0	82.0	28.5	17.6	10.9	2.16	1.82	18.6	-	-	0.17	0.83	2.43
32.50	S-28/23	SPT	REFUSAL		SP	-	-	-	NP	NP	NP	-	-	-	-	-	-	-	-
34.50	S-28/24	SPT	REFUSAL		SP	9.0	81.0	10.0	NP	NP	NP	2.21	1.85	19.2	-	-	-	-	-
36.00	S-28/25	SPT	REFUSAL		SP	-	-	-	NP	NP	NP	-	-	-	-	-	-	-	-
37.50	S-28/26	SPT	REFUSAL		SP	7.0	82.0	11.0	NP	NP	NP	2.29	1.92	19.5	-	-	-	-	2.48
39.00	S-28/27	SPT	REFUSAL		SP	-	-	-	NP	NP	NP	-	-	-	-	-	-	-	-
40.00	S-28/28	SPT	REFUSAL		SP	10.0	79.0	11.0	NP	NP	NP	-	-	19.6	-	-	-	-	-

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PROJECT :- GEOTECHNICAL INVESTIGATION REPORT FOR REDEVELOPMENT OF BOTANICAL GARDEN OF INDIAN REPUBLIC NOIDA.	STARTING DEPTH	0.0 M	WATER TABLE DEPTH
CLIENT :-EXECUTIVE ENGINEER (P) NOIDA CENTRAL DIVISION CPWD, NEW DELHI	TERMINATION DEPTH	40.0 M	13.8 M

BORE LOG SHEET

Sample					Symbolic representation	Grain Size Analysis			Atterberg limit			Density		Moisture Content (%)	Shear Parameters				Specific Gravity
Depth (m)	Sample No	Sample Type	Observed N-Value	Corrected N-value		Gravel (%)	Sand (%)	Silt Clay (%)	Liquid limit (%)	Plastic Limit (%)	Plasticity index	Bulk Density (gm/cc)	Dry Density (gm/cc)		Cohesion, c (t/m2)	Angle of Internal Friction,	Coefficent of consolidation, Cc	Void Ratio, eo	
0.75	S-29/1	SPT	4.0	6.8	CL	0.0	13.0	87.0	-	-	-	-	-	2.2	-	-	-	-	-
1.50	S-29/2	SPT	5.0	7.3	SP	0.0	72.0	28.0	NP	NP	NP	1.67	1.62	3.3	0.6	21.0	-	-	2.41
3.00	S-29/3	SPT	7.0	8.6	SP	0.0	90.0	10.0	NP	NP	NP	-	-	3.9	-	-	-	-	-
4.50	S-29/4	SPT	9.0	9.8	SP	-	-	-	NP	NP	NP	-	-	-	-	-	-	-	-
6.00	S-29/5	SPT	11.0	10.9	SP	0.0	94.0	6.0	NP	NP	NP	1.71	1.62	5.5	-	28.0	-	-	2.45
7.50	S-29/6	SPT	16.0	14.7	SP	-	-	-	NP	NP	NP	-	-	-	-	-	-	-	-
9.00	S-29/7	SPT	18.0	15.5	SP	0.0	96.0	4.0	NP	NP	NP	1.73	1.63	6.3	-	-	-	-	-
10.50	S-29/8	SPT	22.0	17.8	SP	-	-	-	NP	NP	NP	-	-	-	-	-	-	-	-
12.00	S-29/9	SPT	27.0	20.6	SP	0.0	91.0	9.0	NP	NP	NP	-	-	8.6	-	31.0	-	-	-
13.50	S-29/10	SPT	31.0	22.4	SP	-	-	-	NP	NP	NP	-	-	-	-	-	-	-	-

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PROJECT :- GEOTECHNICAL INVESTIGATION REPORT FOR REDEVELOPMENT OF BOTANICAL GARDEN OF INDIAN REPUBLIC NOIDA.	STARTING DEPTH	0.0 M	WATER TABLE DEPTH
CLIENT :-EXECUTIVE ENGINEER (P) NOIDA CENTRAL DIVISION CPWD, NEW DELHI	TERMINATION DEPTH	40.0 M	13.8 M

BORE LOG SHEET

Sample					Symbolic representation	Grain Size Analysis			Atterberg limit			Density		Moisture Content (%)	Shear Parameters				Specific Gravity
Depth (m)	Sample No	Sample Type	Observed N-Value	Corrected N-value		Gravel (%)	Sand (%)	Silt Clay (%)	Liquid limit (%)	Plastic Limit (%)	Plasticity Index	Bulk Density (gm/cc)	Dry Density (gm/cc)		Cohesion, c (t/m2)	Angle of Internal Friction,	Coefficent of consolidation, Cc	Void Ratio, eo	
15.00	S-29/11	SPT	36.0	24.8	SP	0.0	89.0	11.0	NP	NP	NP	1.79	1.59	12.6	-	-	-	-	-
16.00	S-29/12	SPT	42.0	27.6	SP	8.0	12.0	80.0	NP	NP	NP	-	-	13.6	-	-	-	-	-
18.00	S-29/13	SPT	48.0	30.1	SP	0.0	82.0	18.0	NP	NP	NP	1.82	1.56	16.3	-	-	-	-	2.32
19.50	S-29/14	SPT	53.0	31.9	SP	-	-	-	NP	NP	NP	-	-	-	-	-	-	-	-
21.00	S-29/15	SPT	59.0	34.0	SM	0.0	42.0	58.0	-	-	-	-	-	17.6	-	-	-	-	-
22.50	S-29/16	SPT	64.0	35.4	SM	-	-	-	-	-	-	-	-	-	-	-	-	-	-
24.00	S-29/17	SPT	69.0	36.7	SM	0.0	54.0	46.0	-	-	-	-	-	17.8	-	-	-	-	2.43
25.50	S-29/18	SPT	75.0	38.3	SM	-	-	-	-	-	-	2.11	1.78	18.6	-	-	-	-	-
27.00	S-29/19	SPT	81.0	39.9	SM	-	-	-	-	-	-	-	-	-	-	-	-	-	-
28.50	S-29/20	SPT	85.0	46.5	SM	0.0	52.0	48.0	-	-	-	-	-	19.4	-	-	-	-	-

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PROJECT :- GEOTECHNICAL INVESTIGATION REPORT FOR REDEVELOPMENT OF BOTANICAL GARDEN OF INDIAN REPUBLIC NOIDA.	STARTING DEPTH	0.0 M	WATER TABLE DEPTH
CLIENT :-EXECUTIVE ENGINEER (P) NOIDA CENTRAL DIVISION CPWD, NEW DELHI	TERMINATION DEPTH	40.0 M	13.8 M

BORE LOG SHEET

Sample					Symbolic representation	Grain Size Analysis			Atterberg limit			Density		Moisture Content (%)	Shear Parameters				Specific Gravity
Depth (m)	Sample No	Sample Type	Observed N-Value	Corrected N-value		Gravel (%)	Sand (%)	Silt Clay (%)	Liquid limit (%)	Plastic Limit (%)	Plasticity index	Bulk Density (gm/cc)	Dry Density (gm/cc)		Cohesion, c (t/m2)	Angle of Internal Friction,	Coefficent of consolidation, Cc	Void Ratio, eo	
30.00	S-29/21	SPT	93.0	44.3	SP	-	-	-	-	-	-	-	-	-	-	-	-	-	-
31.00	S-29/22	SPT	REFUSAL		SP	0.0	92.0	8.0	NP	NP	NP	2.18	1.82	19.5	-	-	-	-	2.46
33.00	S-29/23	SPT	REFUSAL		SP	-	-	-	NP	NP	NP	-	-	-	-	-	-	-	-
34.50	S-29/24	SPT	REFUSAL		SP	0.0	98.0	2.0	NP	NP	NP	2.25	1.88	19.8	-	-	-	-	-
36.00	S-29/25	SPT	REFUSAL		SP	-	-	-	NP	NP	NP	-	-	-	-	-	-	-	-
37.50	S-29/26	SPT	REFUSAL		SP	0.0	96.0	4.0	NP	NP	NP	2.33	1.94	19.9	-	-	-	-	2.47
39.00	S-29/27	SPT	REFUSAL		SP	-	-	-	NP	NP	NP	-	-	-	-	-	-	-	-
40.00	S-29/28	SPT	REFUSAL		SP	0.0	92.0	8.0	NP	NP	NP	-	-	20.0	-	-	-	-	-

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PROJECT :- GEOTECHNICAL INVESTIGATION REPORT FOR REDEVELOPMENT OF BOTANICAL GARDEN OF INDIAN REPUBLIC NOIDA.	STARTING DEPTH	0.0 M	WATER TABLE DEPTH
CLIENT :-EXECUTIVE ENGINEER (P) NOIDA CENTRAL DIVISION CPWD, NEW DELHI	TERMINATION DEPTH	40.0 M	14.5 M

BORE LOG SHEET

Sample					Symbolic representation	Grain Size Analysis			Atterberg limit			Density		Moisture Content (%)	Shear Parameters				Specific Gravity
Depth (m)	Sample No	Sample Type	Observed N-Value	Corrected N-value		Gravel (%)	Sand (%)	Silt Clay (%)	Liquid limit (%)	Plastic Limit (%)	Plasticity Index	Bulk Density (gm/cc)	Dry Density (gm/cc)		Cohesion, c (t/m2)	Angle of Internal Friction,	Coefficent of consolidation, Cc	Void Ratio, eo	
0.75	S-30/1	SPT	6.0	10.1	CL	0.0	19.0	81.0	-	-	-	-	-	2.6	-	-	-	-	-
1.50	S-30/2	SPT	7.0	10.2	SP	0.0	62.0	38.0	-	-	-	1.66	1.60	3.6	0.9	22.0	-	-	2.40
3.00	S-30/3	SPT	8.0	9.8	SP	0.0	97.0	3.0	NP	NP	NP	-	-	4.3	-	-	-	-	-
4.50	S-30/4	SPT	10.0	10.9	SP	-	-	-	NP	NP	NP	-	-	-	-	-	-	-	-
6.00	S-30/5	SPT	13.0	12.9	SP	0.0	95.0	5.0	NP	NP	NP	1.68	1.60	5.0	-	28.0	-	-	2.44
7.50	S-30/6	SPT	18.0	16.6	SP	-	-	-	NP	NP	NP	-	-	-	-	-	-	-	-
9.00	S-30/7	SPT	20.0	17.2	SP	0.0	93.0	7.0	NP	NP	NP	1.73	1.63	6.2	-	-	-	-	-
10.50	S-30/8	SPT	26.0	21.0	SP	-	-	-	NP	NP	NP	-	-	-	-	-	-	-	-
12.00	S-30/9	SPT	31.0	23.7	SP	0.0	95.0	5.0	NP	NP	NP	-	-	8.1	-	31.0	-	-	-
13.50	S-30/10	SPT	35.0	25.3	SP	-	-	-	NP	NP	NP	-	-	-	-	-	-	-	-

SOIGNE ENGINEERING CONSULTANTS SCF 23, MM, Manimajra, Chandigarh email: soigneconsultants@gmail.com	BOREHOLE	LOCATION	JOB NO.	PAGE NO
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PROJECT :- GEOTECHNICAL INVESTIGATION REPORT FOR REDEVELOPMENT OF BOTANICAL GARDEN OF INDIAN REPUBLIC NOIDA.	STARTING DEPTH	0.0 M	WATER TABLE DEPTH
CLIENT :-EXECUTIVE ENGINEER (P) NOIDA CENTRAL DIVISION CPWD, NEW DELHI	TERMINATION DEPTH	40.0 M	14.5 M

BORE LOG SHEET

Sample					Symbolic representation	Grain Size Analysis			Atterberg limit			Density		Moisture Content (%)	Shear Parameters				Specific Gravity
Depth (m)	Sample No	Sample Type	Observed N-Value	Corrected N-value		Gravel (%)	Sand (%)	Silt Clay (%)	Liquid limit (%)	Plastic Limit (%)	Plasticity Index	Bulk Density (gm/cc)	Dry Density (gm/cc)		Cohesion, c (t/m2)	Angle of Internal Friction,	Coefficent of consolidation, Cc	Void Ratio, eo	
15.00	S-30/11	SPT	45.0	31.0	SP	0.0	90.0	10.0	NP	NP	NP	1.76	1.58	11.6	-	-	-	-	-
16.00	S-30/12	SPT	49.0	32.2	CL	0.0	12.0	88.0	29.9	18.2	11.7	-	-	14.2	-	-	0.18	0.87	-
18.00	S-30/13	SPT	54.0	33.9	CL	0.0	18.0	82.0	-	-	-	1.84	1.59	15.6	-	-	-	-	2.30
19.50	S-30/14	SPT	61.0	36.7	CL	-	-	-	-	-	-	-	-	-	-	-	-	-	-
21.00	S-30/15	SPT	65.0	37.5	CL	0.0	22.0	78.0	28.9	17.2	11.7	-	-	16.6	-	-	0.17	0.84	-
22.50	S-30/16	SPT	70.0	38.7	CL	-	-	-	-	-	-	-	-	-	-	-	-	-	-
24.00	S-30/17	SPT	77.0	40.9	SM	0.0	64.0	36.0	-	-	-	-	-	17.9	-	-	-	-	2.36
25.50	S-30/18	SPT	83.0	42.4	SM	-	-	-	-	-	-	2.01	1.70	18.2	-	-	-	-	-
27.00	S-30/19	SPT	94.0	46.3	SM	-	-	-	-	-	-	-	-	-	-	-	-	-	-
28.50	S-30/20	SPT	REFUSAL		SP	0.0	92.0	8.0	-	-	-	-	-	18.9	-	-	-	-	-

SOIGNE ENGINEERING CONSULTANTS SCF 23, MM, Manimajra, Chandigarh email: soigneconsultants@gmail.com	BOREHOLE	LOCATION	JOB NO.	PAGE NO
	30	N-3161551.09 E-728015.0	GT-1997	

PROJECT :- GEOTECHNICAL INVESTIGATION REPORT FOR REDEVELOPMENT OF BOTANICAL GARDEN OF INDIAN REPUBLIC NOIDA.	STARTING DEPTH	0.0 M	WATER TABLE DEPTH
CLIENT :-EXECUTIVE ENGINEER (P) NOIDA CENTRAL DIVISION CPWD, NEW DELHI	TERMINATION DEPTH	40.0 M	14.5 M

BORE LOG SHEET

Sample					Symbolic representation	Grain Size Analysis			Atterberg limit			Density		Moisture Content (%)	Shear Parameters				Specific Gravity
Depth (m)	Sample No	Sample Type	Observed N-Value	Corrected N-value		Gravel (%)	Sand (%)	Silt Clay (%)	Liquid limit (%)	Plastic Limit (%)	Plasticity Index	Bulk Density (gm/cc)	Dry Density (gm/cc)		Cohesion, c (t/m2)	Angle of Internal Friction,	Coefficent of consolidation, Cc	Void Ratio, eo	
30.00	S-30/21	SPT	REFUSAL		SP	-	-	-	-	-	-	-	-	-	-	-	-	-	-
31.00	S-30/22	SPT	REFUSAL		SP	0.0	96.0	4.0	NP	NP	NP	2.14	1.80	19.0	-	-	-	-	2.45
33.00	S-30/23	SPT	REFUSAL		SP	-	-	-	NP	NP	NP	-	-	-	-	-	-	-	-
34.50	S-30/24	SPT	REFUSAL		SP	0.0	97.0	3.0	NP	NP	NP	2.22	1.86	19.6	-	-	-	-	-
36.00	S-30/25	SPT	REFUSAL		SP	-	-	-	NP	NP	NP	-	-	-	-	-	-	-	-
37.50	S-30/26	SPT	REFUSAL		SP	0.0	91.0	9.0	NP	NP	NP	2.31	1.93	19.9	-	-	-	-	2.46
39.00	S-30/27	SPT	REFUSAL		SP	-	-	-	NP	NP	NP	-	-	-	-	-	-	-	-
40.00	S-30/28	SPT	REFUSAL		SP	0.0	96.0	4.0	NP	NP	NP	-	-	19.9	-	-	-	-	-

SOIGNE ENGINEERING CONSULTANTS SCF 23, MM, Manimajra, Chandigarh email: soigneconsultants@gmail.com	BOREHOLE	LOCATION	JOB NO.	PAGE NO
	31	N-3161625.17 E-727934.64	GT-1997	

PROJECT :- GEOTECHNICAL INVESTIGATION REPORT FOR REDEVELOPMENT OF BOTANICAL GARDEN OF INDIAN REPUBLIC NOIDA.	STARTING DEPTH	0.0 M	WATER TABLE DEPTH
CLIENT :-EXECUTIVE ENGINEER (P) NOIDA CENTRAL DIVISION CPWD, NEW DELHI	TERMINATION DEPTH	40.0 M	11.2 M

BORE LOG SHEET

Sample					Symbolic representation	Grain Size Analysis			Atterberg limit			Density		Moisture Content (%)	Shear Parameters				Specific Gravity
Depth (m)	Sample No	Sample Type	Observed N-Value	Corrected N-value		Gravel (%)	Sand (%)	Silt Clay (%)	Liquid limit (%)	Plastic Limit (%)	Plasticity index	Bulk Density (gm/cc)	Dry Density (gm/cc)		Cohesion, c (t/m2)	Angle of Internal Friction,	Coefficient of consolidation, Cc	Void Ratio, eo	
0.75	S-31/1	SPT	5.0	8.5	CL	0.0	15.0	85.0	-	-	-	-	-	2.5	-	-	-	-	-
1.50	S-31/2	SPT	6.0	8.8	SP	0.0	78.0	22.0	NP	NP	NP	1.67	1.60	4.2	0.7	22.0	-	-	2.40
3.00	S-31/3	SPT	8.0	9.8	SP	0.0	91.0	9.0	NP	NP	NP	-	-	5.5	-	-	-	-	-
4.50	S-31/4	SPT	9.0	9.8	SP	-	-	-	NP	NP	NP	-	-	-	-	-	-	-	-
6.00	S-31/5	SPT	11.0	10.9	SP	0.0	90.0	10.0	NP	NP	NP	1.77	1.68	5.6	-	28.0	-	-	2.41
7.50	S-31/6	SPT	13.0	12.0	SP	-	-	-	NP	NP	NP	-	-	-	-	-	-	-	-
9.00	S-31/7	SPT	15.0	12.9	SP	7.0	82.0	11.0	NP	NP	NP	1.82	1.70	7.1	-	-	-	-	-
10.50	S-31/8	SPT	19.0	15.4	SP	-	-	-	NP	NP	NP	-	-	-	-	-	-	-	-
12.00	S-31/9	SPT	24.0	18.3	SP	0.0	89.0	11.0	NP	NP	NP	-	-	8.3	-	32.0	-	-	-
13.50	S-31/10	SPT	27.0	19.5	SP	-	-	-	NP	NP	NP	-	-	-	-	-	-	-	-

SOIGNE ENGINEERING CONSULTANTS SCF 23, MM, Manimajra, Chandigarh email: soigneconsultants@gmail.com	BOREHOLE	LOCATION	JOB NO.	PAGE NO
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PROJECT :- GEOTECHNICAL INVESTIGATION REPORT FOR REDEVELOPMENT OF BOTANICAL GARDEN OF INDIAN REPUBLIC NOIDA.	STARTING DEPTH	0.0 M	WATER TABLE DEPTH
CLIENT :-EXECUTIVE ENGINEER (P) NOIDA CENTRAL DIVISION CPWD, NEW DELHI	TERMINATION DEPTH	40.0 M	11.2 M

BORE LOG SHEET

Sample					Symbolic representation	Grain Size Analysis			Atterberg limit			Density		Moisture Content (%)	Shear Parameters				Specific Gravity
Depth (m)	Sample No	Sample Type	Observed N-Value	Corrected N-value		Gravel (%)	Sand (%)	Silt Clay (%)	Liquid limit (%)	Plastic Limit (%)	Plasticity Index	Bulk Density (gm/cc)	Dry Density (gm/cc)		Cohesion, c (t/m2)	Angle of Internal Friction,	Coefficent of consolidation, Cc	Void Ratio, eo	
15.00	S-31/11	SPT	35.0	24.1	SP	0.0	88.0	12.0	NP	NP	NP	1.84	1.65	11.4	-	-	-	-	-
16.00	S-31/12	SPT	40.0	26.3	SP	0.0	91.0	9.0	NP	NP	NP	-	-	12.3	-	36.0	-	-	-
18.00	S-31/13	SPT	46.0	28.9	SP	-	-	-	NP	NP	NP	1.95	1.71	14.0	-	-	-	-	2.45
19.50	S-31/14	SPT	51.0	30.7	SP	-	-	-	NP	NP	NP	-	-	-	-	-	-	-	-
21.00	S-31/15	SPT	57.0	32.8	SP	0.0	93.0	7.0	NP	NP	NP	-	-	15.2	-	-	-	-	-
22.50	S-31/16	SPT	63.0	34.8	CL	0.0	8.0	92.0	31.5	17.6	13.9	-	-	-	-	-	0.19	0.92	-
24.00	S-31/17	SPT	70.0	37.2	CL	0.0	15.0	85.0	-	-	-	-	-	16.7	-	-	-	-	2.32
25.50	S-31/18	SPT	76.0	38.9	CL	-	-	-	-	-	-	2.06	1.76	17.2	-	-	-	-	-
27.00	S-31/19	SPT	80.0	39.4	CL	-	-	-	-	-	-	-	-	-	-	-	-	-	-
28.50	S-31/20	SPT	85.0	46.5	CL	0.0	20.0	80.0	-	-	-	-	-	18.3	-	-	-	-	-

SOIGNE ENGINEERING CONSULTANTS SCF 23, MM, Manimajra, Chandigarh email: soigneconsultants@gmail.com	BOREHOLE	LOCATION	JOB NO.	PAGE NO
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PROJECT :- GEOTECHNICAL INVESTIGATION REPORT FOR REDEVELOPMENT OF BOTANICAL GARDEN OF INDIAN REPUBLIC NOIDA.	STARTING DEPTH	0.0 M	WATER TABLE DEPTH
CLIENT :-EXECUTIVE ENGINEER (P) NOIDA CENTRAL DIVISION CPWD, NEW DELHI	TERMINATION DEPTH	40.0 M	11.2 M

BORE LOG SHEET

Sample					Symbolic representation	Grain Size Analysis			Atterberg limit			Density		Moisture Content (%)	Shear Parameters				Specific Gravity
Depth (m)	Sample No	Sample Type	Observed N-Value	Corrected N-value		Gravel (%)	Sand (%)	Silt Clay (%)	Liquid limit (%)	Plastic Limit (%)	Plasticity index	Bulk Density (gm/cc)	Dry Density (gm/cc)		Cohesion, c (t/m2)	Angle of Internal Friction,	Coefficent of consolidation, Cc	Void Ratio, eo	
30.00	S-31/21	SPT	92.0	44.3	CL	-	-	-	-	-	-	-	-	-	-	-	-	-	-
31.00	S-31/22	SPT	REFUSAL		CL	0.0	11.0	89.0	29.2	17.5	11.7	2.15	1.81	18.5	-	-	0.17	0.85	2.43
33.00	S-31/23	SPT	REFUSAL		SP	-	-	-	NP	NP	NP	-	-	-	-	-	-	-	-
34.50	S-31/24	SPT	REFUSAL		SP	5.0	85.0	10.0	NP	NP	NP	2.21	1.85	19.2	-	-	-	-	-
36.00	S-31/25	SPT	REFUSAL		SP	-	-	-	NP	NP	NP	-	-	-	-	-	-	-	-
37.50	S-31/26	SPT	REFUSAL		SP	7.0	88.0	5.0	NP	NP	NP	-	-	19.4	-	-	-	-	2.50
39.00	S-31/27	SPT	REFUSAL		SP	-	-	-	NP	NP	NP	-	-	-	-	-	-	-	-
40.00	S-31/28	SPT	REFUSAL		SP	8.0	81.0	11.0	NP	NP	NP	-	-	19.8	-	-	-	-	-

SOIGNE ENGINEERING CONSULTANTS SCF 23, MM, Manimajra, Chandigarh email: soigneconsultants@gmail.com	BOREHOLE	LOCATION	JOB NO.	PAGE NO
	32	N-3161686 E-727879	GT-1997	

PROJECT :- GEOTECHNICAL INVESTIGATION REPORT FOR REDEVELOPMENT OF BOTANICAL GARDEN OF INDIAN REPUBLIC NOIDA.	STARTING DEPTH	0.0 M	WATER TABLE DEPTH
CLIENT :-EXECUTIVE ENGINEER (P) NOIDA CENTRAL DIVISION CPWD, NEW DELHI	TERMINATION DEPTH	40.0 M	10.9 M

BORE LOG SHEET

Sample					Symbolic representation	Grain Size Analysis			Atterberg limit			Density		Moisture Content (%)	Shear Parameters				Specific Gravity
Depth (m)	Sample No	Sample Type	Observed N-Value	Corrected N-value		Gravel (%)	Sand (%)	Silt Clay (%)	Liquid limit (%)	Plastic Limit (%)	Plasticity Index	Bulk Density (gm/cc)	Dry Density (gm/cc)		Cohesion, c (t/m2)	Angle of Internal Friction,	Coefficent of consolidation, Cc	Void Ratio, eo	
0.75	S-32/1	SPT	4.0	6.8	CL	0.0	13.0	87.0	-	-	-	-	-	2.2	-	-	-	-	-
1.50	S-32/2	SPT	8.0	11.7	SP	0.0	77.0	23.0	NP	NP	NP	1.64	1.57	4.4	0.5	24.0	-	-	2.40
3.00	S-32/3	SPT	10.0	12.3	SP	0.0	88.0	12.0	NP	NP	NP	-	-	5.2	-	-	-	-	-
4.50	S-32/4	SPT	11.0	12.0	SP	-	-	-	NP	NP	NP	-	-	-	-	-	-	-	-
6.00	S-32/5	SPT	13.0	12.9	SP	0.0	81.0	19.0	NP	NP	NP	1.73	1.64	5.5	-	25.0	-	-	2.41
7.50	S-32/6	SPT	15.0	13.8	SP	-	-	-	NP	NP	NP	-	-	-	-	-	-	-	-
9.00	S-32/7	SPT	15.0	12.9	SP	5.0	79.0	16.0	NP	NP	NP	1.82	1.70	7.2	-	-	-	-	-
10.50	S-32/8	SPT	18.0	14.5	SP	-	-	-	NP	NP	NP	-	-	-	-	-	-	-	-
12.00	S-32/9	SPT	22.0	16.8	SP	0.0	84.0	16.0	NP	NP	NP	-	-	8.5	-	31.0	-	-	-
13.50	S-32/10	SPT	24.0	17.4	SP	-	-	-	NP	NP	NP	-	-	-	-	-	-	-	-

SOIGNE ENGINEERING CONSULTANTS SCF 23, MM, Manimajra, Chandigarh email: soigneconsultants@gmail.com	BOREHOLE	LOCATION	JOB NO.	PAGE NO
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PROJECT :- GEOTECHNICAL INVESTIGATION REPORT FOR REDEVELOPMENT OF BOTANICAL GARDEN OF INDIAN REPUBLIC NOIDA.	STARTING DEPTH	0.0 M	WATER TABLE DEPTH
CLIENT :-EXECUTIVE ENGINEER (P) NOIDA CENTRAL DIVISION CPWD, NEW DELHI	TERMINATION DEPTH	40.0 M	10.9 M

BORE LOG SHEET

Sample					Symbolic representation	Grain Size Analysis			Atterberg limit			Density		Moisture Content (%)	Shear Parameters				Specific Gravity
Depth (m)	Sample No	Sample Type	Observed N-Value	Corrected N-value		Gravel (%)	Sand (%)	Silt Clay (%)	Liquid limit (%)	Plastic Limit (%)	Plasticity Index	Bulk Density (gm/cc)	Dry Density (gm/cc)		Cohesion, c (t/m2)	Angle of Internal Friction,	Coefficent of consolidation, Cc	Void Ratio, eo	
15.00	S-32/11	SPT	31.0	21.4	SP	0.0	89.0	11.0	NP	NP	NP	1.82	1.64	11.1	-	-	-	-	-
16.00	S-32/12	SPT	35.0	23.0	SP	0.0	88.0	12.0	NP	NP	NP	-	-	12.6	-	33.0	-	-	-
18.00	S-32/13	SPT	42.0	26.4	SP	-	-	-	NP	NP	NP	1.94	1.71	13.7	-	-	-	-	2.45
19.50	S-32/14	SPT	48.0	28.8	SP	-	-	-	NP	NP	NP	-	-	-	-	-	-	-	-
21.00	S-32/15	SPT	52.0	30.0	SP	0.0	91.0	9.0	NP	NP	NP	-	-	15.0	-	-	-	-	-
22.50	S-32/16	SPT	61.0	33.7	CL	0.0	7.0	93.0	31.5	17.6	13.9	-	-	-	-	-	0.19	0.92	-
24.00	S-32/17	SPT	66.0	35.1	CL	0.0	12.0	88.0	-	-	-	-	-	16.2	-	-	-	-	2.32
25.50	S-32/18	SPT	72.0	36.8	CL	-	-	-	-	-	-	2.06	1.76	17.1	-	-	-	-	-
27.00	S-32/19	SPT	78.0	38.4	CL	-	-	-	-	-	-	-	-	-	-	-	-	-	-
28.50	S-32/20	SPT	82.0	46.5	CL	0.0	21.0	79.0	-	-	-	-	-	17.9	-	-	-	-	-

SOIGNE ENGINEERING CONSULTANTS SCF 23, MM, Manimajra, Chandigarh email: soigneconsultants@gmail.com	BOREHOLE	LOCATION	JOB NO.	PAGE NO
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PROJECT :- GEOTECHNICAL INVESTIGATION REPORT FOR REDEVELOPMENT OF BOTANICAL GARDEN OF INDIAN REPUBLIC NOIDA.	STARTING DEPTH	0.0 M	WATER TABLE DEPTH
CLIENT :-EXECUTIVE ENGINEER (P) NOIDA CENTRAL DIVISION CPWD, NEW DELHI	TERMINATION DEPTH	40.0 M	10.9 M

BORE LOG SHEET

Sample					Symbolic representation	Grain Size Analysis			Atterberg limit			Density		Moisture Content (%)	Shear Parameters				Specific Gravity
Depth (m)	Sample No	Sample Type	Observed N-Value	Corrected N-value		Gravel (%)	Sand (%)	Silt Clay (%)	Liquid limit (%)	Plastic Limit (%)	Plasticity index	Bulk Density (gm/cc)	Dry Density (gm/cc)		Cohesion, c (t/m2)	Angle of Internal Friction,	Coefficent of consolidation, Cc	Void Ratio, eo	
30.00	S-32/21	SPT	88.0	44.3	CL	-	-	-	-	-	-	-	-	-	-	-	-	-	-
31.00	S-32/22	SPT	REFUSAL		CL	0.0	12.0	88.0	29.2	17.5	11.7	2.13	1.80	18.2	-	-	0.17	0.85	2.43
33.00	S-32/23	SPT	REFUSAL		SP	-	-	-	NP	NP	NP	-	-	-	-	-	-	-	-
34.50	S-32/24	SPT	REFUSAL		SP	6.0	87.0	7.0	NP	NP	NP	2.20	1.85	18.8	-	-	-	-	-
36.00	S-32/25	SPT	REFUSAL		SP	-	-	-	NP	NP	NP	-	-	-	-	-	-	-	-
37.50	S-32/26	SPT	REFUSAL		SP	8.0	89.0	3.0	NP	NP	NP	-	-	19.2	-	-	-	-	2.50
39.00	S-32/27	SPT	REFUSAL		SP	-	-	-	NP	NP	NP	-	-	-	-	-	-	-	-
40.00	S-32/28	SPT	REFUSAL		SP	8.0	85.0	7.0	NP	NP	NP	-	-	19.5	-	-	-	-	-

SOIGNE ENGINEERING CONSULTANTS SCF 23, MM, Manimajra, Chandigarh email: soigneconsultants@gmail.com	BOREHOLE	LOCATION	JOB NO.	PAGE NO
	33	N-3161860 E-727767	GT-1997	

PROJECT :- GEOTECHNICAL INVESTIGATION REPORT FOR REDEVELOPMENT OF BOTANICAL GARDEN OF INDIAN REPUBLIC NOIDA.	STARTING DEPTH	0.0 M	WATER TABLE DEPTH
CLIENT :-EXECUTIVE ENGINEER (P) NOIDA CENTRAL DIVISION CPWD, NEW DELHI	TERMINATION DEPTH	40.0 M	14.2 M

BORE LOG SHEET

Sample					Symbolic representation	Grain Size Analysis			Atterberg limit			Density		Moisture Content (%)	Shear Parameters				Specific Gravity
Depth (m)	Sample No	Sample Type	Observed N-Value	Corrected N-value		Gravel (%)	Sand (%)	Silt Clay (%)	Liquid limit (%)	Plastic Limit (%)	Plasticity Index	Bulk Density (gm/cc)	Dry Density (gm/cc)		Cohesion, c (t/m2)	Angle of Internal Friction,	Coefficent of consolidation, Cc	Void Ratio, eo	
0.75	S-33/1	SPT	5.0	8.5	CL	0.0	15.0	85.0	-	-	-	-	-	2.5	-	-	-	-	-
1.50	S-33/2	SPT	7.0	10.2	SP	0.0	75.0	25.0	-	-	-	1.67	1.62	3.3	0.6	22.0	-	-	2.40
3.00	S-33/3	SPT	8.0	9.8	SP	0.0	91.0	9.0	NP	NP	NP	-	-	4.9	-	-	-	-	-
4.50	S-33/4	SPT	10.0	10.9	SP	-	-	-	NP	NP	NP	-	-	-	-	-	-	-	-
6.00	S-33/5	SPT	12.0	11.9	SP	0.0	93.0	7.0	NP	NP	NP	1.70	1.61	5.5	-	27.0	-	-	2.41
7.50	S-33/6	SPT	13.0	12.0	SP	-	-	-	NP	NP	NP	-	-	-	-	-	-	-	-
9.00	S-33/7	SPT	18.0	15.5	SP	0.0	95.0	5.0	NP	NP	NP	1.73	1.62	6.9	-	-	-	-	-
10.50	S-33/8	SPT	24.0	19.4	SP	-	-	-	NP	NP	NP	-	-	-	-	-	-	-	-
12.00	S-33/9	SPT	31.0	23.7	SP	0.0	91.0	9.0	NP	NP	NP	-	-	8.1	-	-	-	-	-
13.50	S-33/10	SPT	35.0	25.3	SP	-	-	-	NP	NP	NP	-	-	-	-	-	-	-	-

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PROJECT :- GEOTECHNICAL INVESTIGATION REPORT FOR REDEVELOPMENT OF BOTANICAL GARDEN OF INDIAN REPUBLIC NOIDA.	STARTING DEPTH	0.0 M	WATER TABLE DEPTH
CLIENT :-EXECUTIVE ENGINEER (P) NOIDA CENTRAL DIVISION CPWD, NEW DELHI	TERMINATION DEPTH	40.0 M	14.2 M

BORE LOG SHEET

Sample						Grain Size Analysis			Atterberg limit			Density			Shear Parameters				
Depth (m)	Sample No	Sample Type	Observed N-Value	Corrected N-value	Symbolic representation	Gravel (%)	Sand (%)	Silt Clay (%)	Liquid limit (%)	Plastic Limit (%)	Plasticity index	Bulk Density (gm/cc)	Dry Density (gm/cc)	Moisture Content (%)	Cohesion, c (t/m2)	Angle of Internal Friction,	Coefficent of consolidation, Cc	Void Ratio, eo	Specific Gravity
15.00	S-35/11	SPT	39.0	26.9	SP	0.0	84.0	16.0	-	-	-	1.79	1.61	10.9	-	32.0	-	-	-
16.00	S-35/12	SPT	45.0	29.6	CL	9.0	13.0	78.0	30.5	18.2	12.3	-	-	12.9	-	-	-	-	-
18.00	S-35/13	SPT	51.0	32.0	SP	0.0	86.0	14.0	NP	NP	NP	1.80	1.58	14.2	-	-	-	-	2.30
19.50	S-35/14	SPT	58.0	34.9	SP	-	-	-	NP	NP	NP	-	-	-	-	-	-	-	-
21.00	S-35/15	SPT	63.0	36.3	SM	0.0	56.0	44.0	-	-	-	-	-	15.9	-	-	-	-	-
22.50	S-35/16	SPT	71.0	39.3	SM	-	-	-	-	-	-	-	-	-	-	-	-	-	-
24.00	S-35/17	SPT	74.0	39.3	SM	0.0	60.0	40.0	-	-	-	-	-	16.9	-	-	-	-	2.43
25.50	S-35/18	SPT	78.0	39.9	SM	-	-	-	-	-	-	2.13	1.81	17.8	-	-	-	-	-
27.00	S-35/19	SPT	85.0	41.8	SM	-	-	-	-	-	-	-	-	-	-	-	-	-	-
28.50	S-35/20	SPT	92.0	46.5	SM	0.0	52.0	48.0	-	-	-	-	-	18.1	-	-	-	-	-

SOIGNE ENGINEERING CONSULTANTS SCF 23, MM, Manimajra, Chandigarh email: soigneconsultants@gmail.com	BOREHOLE	LOCATION	JOB NO.	PAGE NO
	33	N-3161860 E-727767	GT-1997	

PROJECT :- GEOTECHNICAL INVESTIGATION REPORT FOR REDEVELOPMENT OF BOTANICAL GARDEN OF INDIAN REPUBLIC NOIDA.	STARTING DEPTH	0.0 M	WATER TABLE DEPTH
CLIENT :-EXECUTIVE ENGINEER (P) NOIDA CENTRAL DIVISION CPWD, NEW DELHI	TERMINATION DEPTH	40.0 M	14.2 M

BORE LOG SHEET

Sample					Symbolic representation	Grain Size Analysis			Atterberg limit			Density		Moisture Content (%)	Shear Parameters				
Depth (m)	Sample No	Sample Type	Observed N-Value	Corrected N-value		Gravel (%)	Sand (%)	Silt Clay (%)	Liquid limit (%)	Plastic Limit (%)	Plasticity index	Bulk Density (gm/cc)	Dry Density (gm/cc)		Cohesion, c (t/m2)	Angle of Internal Friction,	Coefficent of consolidation, Cc	Void Ratio, eo	Specific Gravity
30.00	S-33/21	SPT	REFUSAL		SP	-	-	-	NP	NP	NP	-	-	-	-	-	-	-	-
31.00	S-33/22	SPT	REFUSAL		SP	0.0	93.0	7.0	NP	NP	NP	2.20	-	18.8	-	-	-	-	2.45
33.00	S-33/23	SPT	REFUSAL		SP	-	-	-	NP	NP	NP	-	-	-	-	-	-	-	-
34.50	S-33/24	SPT	REFUSAL		SP	0.0	94.0	6.0	NP	NP	NP	2.24	1.87	19.6	-	-	-	-	-
36.00	S-33/25	SPT	REFUSAL		SP	-	-	-	NP	NP	NP	-	-	-	-	-	-	-	-
37.50	S-33/26	SPT	REFUSAL		SP	0.0	90.0	10.0	NP	NP	NP	2.34	1.95	19.7	-	-	-	-	2.46
39.00	S-33/27	SPT	REFUSAL		SP	-	-	-	NP	NP	NP	-	-	-	-	-	-	-	-
40.00	S-33/28	SPT	REFUSAL		SP	0.0	98.0	2.0	NP	NP	NP	-	-	19.9	-	-	-	-	-

SOIGNE ENGINEERING CONSULTANTS SCF 23, MM, Manimajra, Chandigarh email: soigneconsultants@gmail.com	BOREHOLE	LOCATION	JOB NO.	PAGE NO
	34	N-3161525.85 E-728098.04	GT-1997	

PROJECT :- GEOTECHNICAL INVESTIGATION REPORT FOR REDEVELOPMENT OF BOTANICAL GARDEN OF INDIAN REPUBLIC NOIDA.	STARTING DEPTH	0.0 M	WATER TABLE DEPTH
CLIENT :-EXECUTIVE ENGINEER (P) NOIDA CENTRAL DIVISION CPWD, NEW DELHI	TERMINATION DEPTH	40.0 M	12.6 M

BORE LOG SHEET

Sample					Symbolic representation	Grain Size Analysis			Atterberg limit			Density		Moisture Content (%)	Shear Parameters				Specific Gravity
Depth (m)	Sample No	Sample Type	Observed N-Value	Corrected N-value		Gravel (%)	Sand (%)	Silt Clay (%)	Liquid limit (%)	Plastic Limit (%)	Plasticity Index	Bulk Density (gm/cc)	Dry Density (gm/cc)		Cohesion, c (t/m2)	Angle of Internal Friction,	Coefficent of consolidation, Cc	Void Ratio, eo	
0.75	S-34/1	SPT	6.0	10.1	CL	0.0	13.0	87.0	-	-	-	-	-	2.6	-	-	-	-	-
1.50	S-34/2	SPT	8.0	11.7	SP	0.0	69.0	31.0	-	-	-	1.63	1.58	3.2	1.0	21.0	-	-	2.42
3.00	S-34/3	SPT	11.0	13.5	SP	0.0	84.0	16.0	NP	NP	NP	-	-	3.9	-	-	-	-	-
4.50	S-34/4	SPT	15.0	16.4	SP	-	-	-	NP	NP	NP	-	-	-	-	-	-	-	-
6.00	S-34/5	SPT	21.0	20.9	SP	0.0	89.0	11.0	NP	NP	NP	1.71	1.62	5.5	-	28.0	-	-	2.43
7.50	S-34/6	SPT	27.0	24.9	SP	-	-	-	NP	NP	NP	-	-	-	-	-	-	-	-
9.00	S-34/7	SPT	32.0	27.5	SP	2.0	90.0	8.0	NP	NP	NP	1.72	1.62	6.5	-	-	-	-	-
10.50	S-34/8	SPT	34.0	27.5	SP	-	-	-	NP	NP	NP	-	-	-	-	-	-	-	-
12.00	S-34/9	SPT	45.0	34.4	SP	5.0	82.0	13.0	NP	NP	NP	-	-	7.1	-	33.0	-	-	-
13.50	S-34/10	SPT	51.0	36.9	SP	-	-	-	NP	NP	NP	-	-	-	-	-	-	-	-

SOIGNE ENGINEERING CONSULTANTS SCF 23, MM, Manimajra, Chandigarh email: soigneconsultants@gmail.com	BOREHOLE	LOCATION	JOB NO.	PAGE NO
	34	N-3161525.85 E-728098.04	GT-1997	

PROJECT :- GEOTECHNICAL INVESTIGATION REPORT FOR REDEVELOPMENT OF BOTANICAL GARDEN OF INDIAN REPUBLIC NOIDA.	STARTING DEPTH	0.0 M	WATER TABLE DEPTH
CLIENT :-EXECUTIVE ENGINEER (P) NOIDA CENTRAL DIVISION CPWD, NEW DELHI	TERMINATION DEPTH	40.0 M	12.6 M

BORE LOG SHEET

Sample					Symbolic representation	Grain Size Analysis			Atterberg limit			Density		Moisture Content (%)	Shear Parameters				Specific Gravity
Depth (m)	Sample No	Sample Type	Observed N-Value	Corrected N-value		Gravel (%)	Sand (%)	Silt Clay (%)	Liquid limit (%)	Plastic Limit (%)	Plasticity Index	Bulk Density (gm/cc)	Dry Density (gm/cc)		Cohesion, c (t/m2)	Angle of Internal Friction,	Coefficent of consolidation, Cc	Void Ratio, eo	
15.00	S-34/11	SPT	58.0	39.9	ML	0.0	33.0	67.0	28.8	16.6	12.2	1.84	1.67	10.4	-	-	-	-	-
16.00	S-34/12	SPT	60.0	39.4	SP	-	-	-	-	-	-	-	-	12.0	-	-	-	-	-
18.00	S-34/13	SPT	63.0	39.6	CL	0.0	9.0	91.0	30.2	18.9	11.3	1.98	1.72	15.3	13.5	-	0.18	0.88	2.28
19.50	S-34/14	SPT	71.0	42.7	CL	-	-	-	-	-	-	-	-	-	-	-	-	-	-
21.00	S-34/15	SPT	85.0	49.0	CL	0.0	12.0	88.0	-	-	-	-	-	16.2	-	-	-	-	-
22.50	S-34/16	SPT	REFUSAL		CL	-	-	-	-	-	-	-	-	-	-	-	-	-	2.32
24.00	S-34/17	SPT	REFUSAL		SM	0.0	65.0	35.0	-	-	-	-	-	17.6	-	-	-	-	-
25.50	S-34/18	SPT	REFUSAL		SP	0.0	88.0	12.0	NP	NP	NP	2.19	1.85	18.1	-	-	-	-	-
27.00	S-34/19	SPT	REFUSAL		SP	-	-	-	NP	NP	NP	-	-	-	-	-	-	-	-
28.50	S-34/20	SPT	REFUSAL		SP	4.0	94.0	2.0	NP	NP	NP	-	-	18.5	-	-	-	-	-

SOIGNE ENGINEERING CONSULTANTS SCF 23, MM, Manimajra, Chandigarh email: soigneconsultants@gmail.com	BOREHOLE	LOCATION	JOB NO.	PAGE NO
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PROJECT :- GEOTECHNICAL INVESTIGATION REPORT FOR REDEVELOPMENT OF BOTANICAL GARDEN OF INDIAN REPUBLIC NOIDA.	STARTING DEPTH	0.0 M	WATER TABLE DEPTH
CLIENT :-EXECUTIVE ENGINEER (P) NOIDA CENTRAL DIVISION CPWD, NEW DELHI	TERMINATION DEPTH	40.0 M	12.6 M

BORE LOG SHEET

Sample					Symbolic representation	Grain Size Analysis			Atterberg limit			Density		Moisture Content (%)	Shear Parameters				Specific Gravity
Depth (m)	Sample No	Sample Type	Observed N-Value	Corrected N-value		Gravel (%)	Sand (%)	Silt Clay (%)	Liquid limit (%)	Plastic Limit (%)	Plasticity index	Bulk Density (gm/cc)	Dry Density (gm/cc)		Cohesion, c (t/m2)	Angle of internal Friction,	Coefficent of consolidation, Cc	Void Ratio, eo	
30.00	S-34/21	SPT	REFUSAL		SP	-	-	-	NP	NP	NP	-	-	-	-	-	-	-	-
31.00	S-34/22	SPT	REFUSAL		CL	0.0	15.0	85.0	-	-	-	-	-	19.2	-	-	0.19	0.92	2.34
33.00	S-34/23	SPT	REFUSAL		CL	-	-	-	-	-	-	-	-	-	-	-	-	-	-
34.50	S-34/24	SPT	REFUSAL		SP	0.0	94.0	6.0	NP	NP	NP	2.28	1.91	19.5	-	-	-	-	-
36.00	S-34/25	SPT	REFUSAL		SP	-	-	-	NP	NP	NP	-	-	-	-	-	-	-	-
37.50	S-34/26	SPT	REFUSAL		SP	0.0	96.0	4.0	NP	NP	NP	2.32	1.94	19.7	-	-	-	-	2.45
39.00	S-34/27	SPT	REFUSAL		SP	-	-	-	NP	NP	NP	-	-	-	-	-	-	-	-
40.00	S-34/28	SPT	REFUSAL		SP	0.0	88.0	12.0	NP	NP	NP	-	-	19.9	-	-	-	-	-

SOIGNE ENGINEERING CONSULTANTS SCF 23, MM, Manimajra, Chandigarh email: soigneconsultants@gmail.com	BOREHOLE	LOCATION	JOB NO.	PAGE NO
	35	N-3161626 E-728035	GT-1997	35

PROJECT :- GEOTECHNICAL INVESTIGATION REPORT FOR REDEVELOPMENT OF BOTANICAL GARDEN OF INDIAN REPUBLIC NOIDA.	STARTING DEPTH	0.0 M	WATER TABLE DEPTH
CLIENT :-EXECUTIVE ENGINEER (P) NOIDA CENTRAL DIVISION CPWD, NEW DELHI	TERMINATION DEPTH	40.0 M	11.4 M

BORE LOG SHEET

Sample					Symbolic representation	Grain Size Analysis			Atterberg limit			Density		Moisture Content (%)	Shear Parameters				Specific Gravity
Depth (m)	Sample No	Sample Type	Observed N-Value	Corrected N-value		Gravel (%)	Sand (%)	Silt Clay (%)	Liquid limit (%)	Plastic Limit (%)	Plasticity Index	Bulk Density (gm/cc)	Dry Density (gm/cc)		Cohesion, c (t/m2)	Angle of Internal Friction,	Coefficent of consolidation, Cc	Void Ratio, eo	
0.75	S-35/1	SPT	4.0	6.8	CL	0.0	12.0	88.0	-	-	-	-	-	2.6	-	-	-	-	-
1.50	S-35/2	SPT	5.0	7.3	SP	0.0	72.0	28.0	NP	NP	NP	1.66	1.60	4.0	0.8	20.0	-	-	2.41
3.00	S-35/3	SPT	7.0	8.6	SP	0.0	89.0	11.0	NP	NP	NP	-	-	5.2	-	-	-	-	-
4.50	S-35/4	SPT	10.0	10.9	SP	-	-	-	NP	NP	NP	-	-	-	-	-	-	-	-
6.00	S-35/5	SPT	13.0	12.9	SP	0.0	92.0	8.0	NP	NP	NP	1.75	1.66	5.5	-	27.0	-	-	2.43
7.50	S-35/6	SPT	15.0	13.8	SP	-	-	-	NP	NP	NP	-	-	-	-	-	-	-	-
9.00	S-35/7	SPT	17.0	14.6	SP	4.0	85.0	11.0	NP	NP	NP	1.80	1.67	7.6	-	-	-	-	-
10.50	S-35/8	SPT	19.0	15.4	SP	-	-	-	NP	NP	NP	-	-	-	-	-	-	-	-
12.00	S-35/9	SPT	24.0	18.3	SP	0.0	88.0	12.0	NP	NP	NP	-	-	8.3	-	30.0	-	-	-
13.50	S-35/10	SPT	29.0	21.0	SP	-	-	-	NP	NP	NP	-	-	-	-	-	-	-	-

SOIGNE ENGINEERING CONSULTANTS SCF 23, MM, Manimajra, Chandigarh email: soigneconsultants@gmail.com	BOREHOLE	LOCATION	JOB NO.	PAGE NO
	35	N-3161626 E-728035	GT-1997	35

PROJECT :- GEOTECHNICAL INVESTIGATION REPORT FOR REDEVELOPMENT OF BOTANICAL GARDEN OF INDIAN REPUBLIC NOIDA.	STARTING DEPTH	0.0 M	WATER TABLE DEPTH
CLIENT :-EXECUTIVE ENGINEER (P) NOIDA CENTRAL DIVISION CPWD, NEW DELHI	TERMINATION DEPTH	40.0 M	11.4 M

BORE LOG SHEET

Sample					Symbolic representation	Grain Size Analysis			Atterberg limit			Density		Moisture Content (%)	Shear Parameters				Specific Gravity
Depth (m)	Sample No	Sample Type	Observed N-Value	Corrected N-value		Gravel (%)	Sand (%)	Silt Clay (%)	Liquid limit (%)	Plastic Limit (%)	Plasticity Index	Bulk Density (gm/cc)	Dry Density (gm/cc)		Cohesion, c (t/m2)	Angle of Internal Friction,	Coefficient of consolidation, Cc	Void Ratio, eo	
15.00	S-35/11	SPT	32.0	22.0	SP	0.0	94.0	6.0	NP	NP	NP	1.83	1.64	11.3	-	-	-	-	-
16.00	S-35/12	SPT	38.0	25.0	SP	0.0	93.0	7.0	NP	NP	NP	-	-	12.6	-	34.0	-	-	-
18.00	S-35/13	SPT	43.0	27.0	SP	-	-	-	NP	NP	NP	1.94	1.71	13.5	-	-	-	-	2.45
19.50	S-35/14	SPT	52.0	31.3	SP	-	-	-	NP	NP	NP	-	-	-	-	-	-	-	-
21.00	S-35/15	SPT	55.0	31.7	SP	0.0	94.0	6.0	NP	NP	NP	-	-	15.2	-	-	-	-	-
22.50	S-35/16	SPT	62.0	34.3	CL	0.0	9.0	91.0	31.5	17.6	13.9	-	-	-	-	-	0.19	0.92	-
24.00	S-35/17	SPT	69.0	36.7	CL	0.0	11.0	89.0	-	-	-	-	-	16.3	-	-	-	-	2.32
25.50	S-35/18	SPT	72.0	36.8	CL	-	-	-	-	-	-	2.05	1.74	17.5	-	-	-	-	-
27.00	S-35/19	SPT	81.0	39.9	CL	-	-	-	-	-	-	-	-	-	-	-	-	-	-
28.50	S-35/20	SPT	88.0	46.5	CL	0.0	16.0	84.0	-	-	-	-	-	18.1	-	-	-	-	-

SOIGNE ENGINEERING CONSULTANTS SCF 23, MM, Manimajra, Chandigarh email: soigneconsultants@gmail.com	BOREHOLE	LOCATION	JOB NO.	PAGE NO
	35	N-3161626 E-728035	GT-1997	35

PROJECT :- GEOTECHNICAL INVESTIGATION REPORT FOR REDEVELOPMENT OF BOTANICAL GARDEN OF INDIAN REPUBLIC NOIDA.	STARTING DEPTH	0.0 M	WATER TABLE DEPTH
CLIENT :-EXECUTIVE ENGINEER (P) NOIDA CENTRAL DIVISION CPWD, NEW DELHI	TERMINATION DEPTH	40.0 M	11.4 M

BORE LOG SHEET

Sample					Symbolic representation	Grain Size Analysis			Atterberg limit			Density		Moisture Content (%)	Shear Parameters				Specific Gravity
Depth (m)	Sample No	Sample Type	Observed N-Value	Corrected N-value		Gravel (%)	Sand (%)	Silt Clay (%)	Liquid limit (%)	Plastic Limit (%)	Plasticity index	Bulk Density (gm/cc)	Dry Density (gm/cc)		Cohesion, c (t/m2)	Angle of Internal Friction,	Coefficent of consolidation, Cc	Void Ratio, eo	
30.00	S-35/21	SPT	95.0	44.3	CL	-	-	-	-	-	-	-	-	-	-	-	-	-	-
31.00	S-35/22	SPT	REFUSAL		CL	0.0	16.0	84.0	29.2	17.5	11.7	2.12	1.79	18.5	-	-	0.17	0.85	2.43
33.00	S-35/23	SPT	REFUSAL		SP	-	-	-	NP	NP	NP	-	-	-	-	-	-	-	-
34.50	S-35/24	SPT	REFUSAL		SP	6.0	86.0	8.0	NP	NP	NP	2.20	1.84	19.5	-	-	-	-	-
36.00	S-35/25	SPT	REFUSAL		SP	-	-	-	NP	NP	NP	-	-	-	-	-	-	-	-
37.50	S-35/26	SPT	REFUSAL		SP	6.0	89.0	5.0	NP	NP	NP	-	-	19.6	-	-	-	-	2.50
39.00	S-35/27	SPT	REFUSAL		SP	-	-	-	NP	NP	NP	-	-	-	-	-	-	-	-
40.00	S-35/28	SPT	REFUSAL		SP	8.0	85.0	7.0	NP	NP	NP	-	-	19.8	-	-	-	-	-

SOIGNE ENGINEERING CONSULTANTS SCF 23, MM, Manimajra, Chandigarh email: soigneconsultants@gmail.com	BOREHOLE	LOCATION	JOB NO.	PAGE NO
	36	N-3161592 E-728038	GT-1997	

PROJECT :- GEOTECHNICAL INVESTIGATION REPORT FOR REDEVELOPMENT OF BOTANICAL GARDEN OF INDIAN REPUBLIC NOIDA.	STARTING DEPTH	0.0 M	WATER TABLE DEPTH
CLIENT :-EXECUTIVE ENGINEER (P) NOIDA CENTRAL DIVISION CPWD, NEW DELHI	TERMINATION DEPTH	40.0 M	12.7 M

BORE LOG SHEET

Sample					Symbolic representation	Grain Size Analysis			Atterberg limit			Density		Moisture Content (%)	Shear Parameters				Specific Gravity
Depth (m)	Sample No	Sample Type	Observed N-Value	Corrected N-value		Gravel (%)	Sand (%)	Silt Clay (%)	Liquid limit (%)	Plastic Limit (%)	Plasticity Index	Bulk Density (gm/cc)	Dry Density (gm/cc)		Cohesion, c (t/m2)	Angle of Internal Friction,	Coefficent of consolidation, Cc	Void Ratio, eo	
0.75	S-36/1	SPT	5.0	8.5	CL	0.0	16.0	84.0	-	-	-	-	-	2.5	-	-	-	-	-
1.50	S-36/2	SPT	7.0	10.2	SP	0.0	80.0	20.0	NP	NP	NP	1.67	1.61	3.8	-	25.0	-	-	2.40
3.00	S-36/3	SPT	8.0	9.8	SP	0.0	90.0	10.0	NP	NP	NP	-	-	5.1	-	-	-	-	-
4.50	S-36/4	SPT	11.0	12.0	SP	-	-	-	NP	NP	NP	-	-	-	-	-	-	-	-
6.00	S-36/5	SPT	13.0	12.9	SP	0.0	95.0	5.0	NP	NP	NP	1.74	1.65	5.6	-	27.0	-	-	2.42
7.50	S-36/6	SPT	16.0	14.7	SP	-	-	-	NP	NP	NP	-	-	-	-	-	-	-	-
9.00	S-36/7	SPT	19.0	16.3	SP	7.0	82.0	11.0	NP	NP	NP	1.81	1.69	7.3	-	-	-	-	-
10.50	S-36/8	SPT	20.0	16.2	SP	-	-	-	NP	NP	NP	-	-	-	-	-	-	-	-
12.00	S-36/9	SPT	26.0	19.8	SP	0.0	87.0	13.0	NP	NP	NP	-	-	8.3	-	30.0	-	-	-
13.50	S-36/10	SPT	30.0	21.7	SP	-	-	-	NP	NP	NP	-	-	-	-	-	-	-	-

SOIGNE ENGINEERING CONSULTANTS SCF 23, MM, Manimajra, Chandigarh email: soigneconsultants@gmail.com	BOREHOLE	LOCATION	JOB NO.	PAGE NO
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PROJECT :- GEOTECHNICAL INVESTIGATION REPORT FOR REDEVELOPMENT OF BOTANICAL GARDEN OF INDIAN REPUBLIC NOIDA.	STARTING DEPTH	0.0 M	WATER TABLE DEPTH
CLIENT :-EXECUTIVE ENGINEER (P) NOIDA CENTRAL DIVISION CPWD, NEW DELHI	TERMINATION DEPTH	40.0 M	12.7 M

BORE LOG SHEET

Sample					Symbolic representation	Grain Size Analysis			Atterberg limit			Density		Moisture Content (%)	Shear Parameters				Specific Gravity
Depth (m)	Sample No	Sample Type	Observed N-Value	Corrected N-value		Gravel (%)	Sand (%)	Silt Clay (%)	Liquid limit (%)	Plastic Limit (%)	Plasticity Index	Bulk Density (gm/cc)	Dry Density (gm/cc)		Cohesion, c (t/m2)	Angle of Internal Friction,	Coefficent of consolidation, Cc	Void Ratio, eo	
15.00	S-36/11	SPT	33.0	22.7	SP	0.0	94.0	6.0	NP	NP	NP	1.84	1.65	11.3	-	-	-	-	-
16.00	S-36/12	SPT	38.0	25.0	SP	0.0	96.0	4.0	NP	NP	NP	-	-	12.2	-	34.0	-	-	-
18.00	S-36/13	SPT	42.0	26.4	SP	-	-	-	NP	NP	NP	1.93	1.70	13.8	-	-	-	-	2.45
19.50	S-36/14	SPT	55.0	33.1	SP	-	-	-	NP	NP	NP	-	-	-	-	-	-	-	-
21.00	S-36/15	SPT	61.0	35.2	SP	0.0	94.0	6.0	NP	NP	NP	-	-	15.9	-	-	-	-	-
22.50	S-36/16	SPT	67.0	37.1	CL	0.0	11.0	89.0	31.5	17.6	13.9	-	-	-	-	-	0.19	0.92	-
24.00	S-36/17	SPT	74.0	39.3	CL	0.0	16.0	84.0	-	-	-	-	-	16.2	-	-	-	-	2.31
25.50	S-36/18	SPT	76.0	38.9	CL	-	-	-	-	-	-	2.06	1.75	17.6	-	-	-	-	-
27.00	S-36/19	SPT	81.0	39.9	CL	-	-	-	-	-	-	-	-	-	-	-	-	-	-
28.50	S-36/20	SPT	89.0	46.5	CL	0.0	20.0	80.0	-	-	-	-	-	18.5	-	-	0.20	0.91	-

SOIGNE ENGINEERING CONSULTANTS SCF 23, MM, Manimajra, Chandigarh email: soigneconsultants@gmail.com	BOREHOLE	LOCATION	JOB NO.	PAGE NO
	36	N-3161592 E-728038	GT-1997	

PROJECT :- GEOTECHNICAL INVESTIGATION REPORT FOR REDEVELOPMENT OF BOTANICAL GARDEN OF INDIAN REPUBLIC NOIDA.	STARTING DEPTH	0.0 M	WATER TABLE DEPTH
CLIENT :-EXECUTIVE ENGINEER (P) NOIDA CENTRAL DIVISION CPWD, NEW DELHI	TERMINATION DEPTH	40.0 M	12.7 M

BORE LOG SHEET

Sample					Symbolic representation	Grain Size Analysis			Atterberg limit			Density		Moisture Content (%)	Shear Parameters				Specific Gravity
Depth (m)	Sample No	Sample Type	Observed N-Value	Corrected N-value		Gravel (%)	Sand (%)	Silt Clay (%)	Liquid limit (%)	Plastic Limit (%)	Plasticity Index	Bulk Density (gm/cc)	Dry Density (gm/cc)		Cohesion, c (t/m2)	Angle of Internal Friction,	Coefficent of consolidation, Cc	Void Ratio, eo	
30.00	S-36/21	SPT	92.0	44.3	CL	-	-	-	-	-	-	-	-	-	-	-	-	-	-
31.00	S-36/22	SPT	REFUSAL		CL	0.0	14.0	86.0	29.6	17.7	11.9	2.10	1.77	18.9	-	-	-	-	2.44
33.00	S-36/23	SPT	REFUSAL		SP	-	-	-	NP	NP	NP	-	-	-	-	-	-	-	-
34.50	S-36/24	SPT	REFUSAL		SP	8.0	82.0	10.0	NP	NP	NP	2.18	1.83	19.2	-	-	-	-	-
36.00	S-36/25	SPT	REFUSAL		SP	-	-	-	NP	NP	NP	-	-	-	-	-	-	-	-
37.50	S-36/26	SPT	REFUSAL		SP	4.0	85.0	11.0	NP	NP	NP	-	-	19.6	-	-	-	-	2.51
39.00	S-36/27	SPT	REFUSAL		SP	-	-	-	NP	NP	NP	-	-	-	-	-	-	-	-
40.00	S-36/28	SPT	REFUSAL		SP	7.0	82.0	11.0	NP	NP	NP	-	-	19.9	-	-	-	-	-

SOIGNE ENGINEERING CONSULTANTS SCF 23, MM, Manimajra, Chandigarh email: soigneconsultants@gmail.com	BOREHOLE	LOCATION	JOB NO.	PAGE NO
	37	N-3161976.27 E-727783.15	GT-1997	

PROJECT :- GEOTECHNICAL INVESTIGATION REPORT FOR REDEVELOPMENT OF BOTANICAL GARDEN OF INDIAN REPUBLIC NOIDA.	STARTING DEPTH	0.0 M	WATER TABLE DEPTH
CLIENT :-EXECUTIVE ENGINEER (P) NOIDA CENTRAL DIVISION CPWD, NEW DELHI	TERMINATION DEPTH	40.0 M	14.7 M

BORE LOG SHEET

Sample					Symbolic representation	Grain Size Analysis			Atterberg limit			Density		Moisture Content (%)	Shear Parameters				Specific Gravity
Depth (m)	Sample No	Sample Type	Observed N-Value	Corrected N-value		Gravel (%)	Sand (%)	Silt Clay (%)	Liquid limit (%)	Plastic Limit (%)	Plasticity Index	Bulk Density (gm/cc)	Dry Density (gm/cc)		Cohesion, c (t/m2)	Angle of Internal Friction,	Coefficent of consolidation, Cc	Void Ratio, eo	
0.75	S-37/1	SPT	5.0	8.5	CL	0.0	16.0	84.0	-	-	-	-	-	2.5	-	-	-	-	-
1.50	S-37/2	SPT	6.0	8.8	SP	0.0	72.0	28.0	-	-	-	1.67	1.62	3.2	0.7	22.0	-	-	2.40
3.00	S-37/3	SPT	7.0	8.6	SP	0.0	92.0	8.0	NP	NP	NP	-	-	4.4	-	-	-	-	-
4.50	S-37/4	SPT	9.0	9.8	SP	-	-	-	NP	NP	NP	-	-	-	-	-	-	-	-
6.00	S-37/5	SPT	11.0	10.9	SP	0.0	91.0	9.0	NP	NP	NP	1.70	1.62	5.0	-	27.0	-	-	2.42
7.50	S-37/6	SPT	13.0	12.0	SP	-	-	-	NP	NP	NP	-	-	-	-	-	-	-	-
9.00	S-37/7	SPT	16.0	13.8	SP	0.0	94.0	6.0	NP	NP	NP	1.72	1.62	6.2	-	-	-	-	-
10.50	S-37/8	SPT	20.0	16.2	SP	-	-	-	NP	NP	NP	-	-	-	-	-	-	-	-
12.00	S-37/9	SPT	22.0	16.8	SP	0.0	95.0	5.0	NP	NP	NP	-	-	7.3	-	33.0	-	-	-
13.50	S-37/10	SPT	27.0	19.5	SP	-	-	-	NP	NP	NP	-	-	-	-	-	-	-	-

SOIGNE ENGINEERING CONSULTANTS SCF 23, MM, Manimajra, Chandigarh email: soigneconsultants@gmail.com	BOREHOLE	LOCATION	JOB NO.	PAGE NO
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PROJECT :- GEOTECHNICAL INVESTIGATION REPORT FOR REDEVELOPMENT OF BOTANICAL GARDEN OF INDIAN REPUBLIC NOIDA.	STARTING DEPTH	0.0 M	WATER TABLE DEPTH
CLIENT :-EXECUTIVE ENGINEER (P) NOIDA CENTRAL DIVISION CPWD, NEW DELHI	TERMINATION DEPTH	40.0 M	14.7 M

BORE LOG SHEET

Sample					Symbolic representation	Grain Size Analysis			Atterberg limit			Density		Moisture Content (%)	Shear Parameters				Specific Gravity
Depth (m)	Sample No	Sample Type	Observed N-Value	Corrected N-value		Gravel (%)	Sand (%)	Silt Clay (%)	Liquid limit (%)	Plastic Limit (%)	Plasticity Index	Bulk Density (gm/cc)	Dry Density (gm/cc)		Cohesion, c (t/m2)	Angle of Internal Friction,	Coefficent of consolidation, Cc	Void Ratio, eo	
15.00	S-37/11	SPT	31.0	21.4	SP	0.0	88.0	12.0	NP	NP	NP	1.75	1.60	9.1	-	-	-	-	-
16.00	S-37/12	SPT	37.0	24.3	CL	5.0	14.0	81.0	30.9	18.4	12.5	-	-	11.4	-	-	0.19	0.90	-
18.00	S-37/13	SPT	39.0	24.5	SP	0.0	88.0	12.0	NP	NP	NP	1.83	1.59	15.3	-	-	-	-	2.30
19.50	S-37/14	SPT	43.0	25.8	SP	-	-	-	NP	NP	NP	-	-	-	-	-	-	-	-
21.00	S-37/15	SPT	50.0	28.8	SM	0.0	53.0	47.0	-	-	-	-	-	17.2	-	-	-	-	-
22.50	S-37/16	SPT	54.0	29.9	SM	-	-	-	-	-	-	-	-	-	-	-	-	-	-
24.00	S-37/17	SPT	60.0	31.9	SM	0.0	61.0	39.0	-	-	-	-	-	17.5	-	-	-	-	2.41
25.50	S-37/18	SPT	65.0	33.2	SM	-	-	-	-	-	-	2.10	1.77	18.5	-	-	-	-	-
27.00	S-37/19	SPT	74.0	36.4	SM	-	-	-	-	-	-	-	-	-	-	-	-	-	-
28.50	S-37/20	SPT	82.0	46.5	SM	0.0	58.0	42.0	-	-	-	-	-	19.1	-	-	-	-	-

SOIGNE ENGINEERING CONSULTANTS SCF 23, MM, Manimajra, Chandigarh email: soigneconsultants@gmail.com	BOREHOLE	LOCATION	JOB NO.	PAGE NO
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PROJECT :- GEOTECHNICAL INVESTIGATION REPORT FOR REDEVELOPMENT OF BOTANICAL GARDEN OF INDIAN REPUBLIC NOIDA.	STARTING DEPTH	0.0 M	WATER TABLE DEPTH
CLIENT :-EXECUTIVE ENGINEER (P) NOIDA CENTRAL DIVISION CPWD, NEW DELHI	TERMINATION DEPTH	40.0 M	14.7 M

BORE LOG SHEET

Sample					Symbolic representation	Grain Size Analysis			Atterberg limit			Density		Moisture Content (%)	Shear Parameters				Specific Gravity
Depth (m)	Sample No	Sample Type	Observed N-Value	Corrected N-value		Gravel (%)	Sand (%)	Silt Clay (%)	Liquid limit (%)	Plastic Limit (%)	Plasticity Index	Bulk Density (gm/cc)	Dry Density (gm/cc)		Cohesion, c (t/m2)	Angle of Internal Friction,	Coefficent of consolidation, Cc	Void Ratio, eo	
30.00	S-37/21	SPT	87.0	44.3	SP	-	-	-	NP	NP	NP	-	-	-	-	-	-	-	-
31.00	S-37/22	SPT	REFUSAL		SP	0.0	82.0	18.0	NP	NP	NP	2.15	-	19.5	-	-	-	-	2.47
33.00	S-37/23	SPT	REFUSAL		SP	-	-	-	NP	NP	NP	-	-	-	-	-	-	-	-
34.50	S-37/24	SPT	REFUSAL		SP	0.0	91.0	9.0	NP	NP	NP	2.25	1.88	19.7	-	-	-	-	-
36.00	S-37/25	SPT	REFUSAL		SP	-	-	-	NP	NP	NP	-	-	-	-	-	-	-	-
37.50	S-37/26	SPT	REFUSAL		SP	0.0	93.0	7.0	NP	NP	NP	2.28	1.90	19.8	-	-	-	-	2.48
39.00	S-37/27	SPT	REFUSAL		SP	-	-	-	NP	NP	NP	-	-	-	-	-	-	-	-
40.00	S-37/28	SPT	REFUSAL		SP	0.0	96.0	4.0	NP	NP	NP	-	-	-	-	-	-	-	-

SOIGNE ENGINEERING CONSULTANTS SCF 23, MM, Manimajra, Chandigarh email: soigneconsultants@gmail.com	BOREHOLE	LOCATION	JOB NO.	PAGE NO
	38	N-3161673 E-728080	GT-1997	

PROJECT :- GEOTECHNICAL INVESTIGATION REPORT FOR REDEVELOPMENT OF BOTANICAL GARDEN OF INDIAN REPUBLIC NOIDA.	STARTING DEPTH	0.0 M	WATER TABLE DEPTH
CLIENT :-EXECUTIVE ENGINEER (P) NOIDA CENTRAL DIVISION CPWD, NEW DELHI	TERMINATION DEPTH	40.0 M	11.5 M

BORE LOG SHEET

Sample					Symbolic representation	Grain Size Analysis			Atterberg limit			Density		Moisture Content (%)	Shear Parameters				Specific Gravity
Depth (m)	Sample No	Sample Type	Observed N-Value	Corrected N-value		Gravel (%)	Sand (%)	Silt Clay (%)	Liquid limit (%)	Plastic Limit (%)	Plasticity Index	Bulk Density (gm/cc)	Dry Density (gm/cc)		Cohesion, c (t/m2)	Angle of Internal Friction,	Coefficent of consolidation, Cc	Void Ratio, eo	
0.75	S-38/1	SPT	4.0	6.8	CL	0.0	15.0	85.0	-	-	-	-	-	2.8	-	-	-	-	-
1.50	S-38/2	SPT	6.0	8.8	SP	0.0	79.0	21.0	NP	NP	NP	1.65	1.59	4.0	0.8	24.0	-	-	2.42
3.00	S-38/3	SPT	8.0	9.8	SP	0.0	88.0	12.0	NP	NP	NP	-	-	5.5	-	-	-	-	-
4.50	S-38/4	SPT	10.0	10.9	SP	-	-	-	NP	NP	NP	-	-	-	-	-	-	-	-
6.00	S-38/5	SPT	11.0	10.9	SP	0.0	89.0	11.0	NP	NP	NP	1.74	1.64	5.8	-	26.0	-	-	2.44
7.50	S-38/6	SPT	13.0	12.0	SP	-	-	-	NP	NP	NP	-	-	-	-	-	-	-	-
9.00	S-38/7	SPT	15.0	12.9	SP	6.0	86.0	8.0	NP	NP	NP	1.82	1.70	7.3	-	-	-	-	-
10.50	S-38/8	SPT	21.0	17.0	SP	-	-	-	NP	NP	NP	-	-	-	-	-	-	-	-
12.00	S-38/9	SPT	23.0	17.6	SP	0.0	88.0	12.0	NP	NP	NP	-	-	8.3	-	31.0	-	-	-
13.50	S-38/10	SPT	28.0	20.3	SP	-	-	-	NP	NP	NP	-	-	-	-	-	-	-	-

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PROJECT :- GEOTECHNICAL INVESTIGATION REPORT FOR REDEVELOPMENT OF BOTANICAL GARDEN OF INDIAN REPUBLIC NOIDA.	STARTING DEPTH	0.0 M	WATER TABLE DEPTH
CLIENT :-EXECUTIVE ENGINEER (P) NOIDA CENTRAL DIVISION CPWD, NEW DELHI	TERMINATION DEPTH	40.0 M	11.5 M

BORE LOG SHEET

Sample					Symbolic representation	Grain Size Analysis			Atterberg limit			Density		Moisture Content (%)	Shear Parameters				Specific Gravity
Depth (m)	Sample No	Sample Type	Observed N-Value	Corrected N-value		Gravel (%)	Sand (%)	Silt Clay (%)	Liquid limit (%)	Plastic Limit (%)	Plasticity Index	Bulk Density (gm/cc)	Dry Density (gm/cc)		Cohesion, c (t/m2)	Angle of Internal Friction,	Coefficent of consolidation, Cc	Void Ratio, eo	
15.00	S-38/11	SPT	31.0	21.4	SP	0.0	92.0	8.0	NP	NP	NP	1.85	1.67	11.1	-	-	-	-	-
16.00	S-38/12	SPT	37.0	24.3	SP	0.0	95.0	5.0	NP	NP	NP	-	-	12.3	-	33.0	-	-	-
18.00	S-38/13	SPT	42.0	26.4	SP	-	-	-	NP	NP	NP	1.94	1.71	13.5	-	-	-	-	2.45
19.50	S-38/14	SPT	44.0	26.4	SP	-	-	-	NP	NP	NP	-	-	-	-	-	-	-	-
21.00	S-38/15	SPT	51.0	29.4	SP	0.0	96.0	4.0	NP	NP	NP	-	-	15.1	-	-	-	-	-
22.50	S-38/16	SPT	59.0	32.6	CL	0.0	12.0	88.0	31.5	17.6	13.9	-	-	-	-	-	0.19	0.92	-
24.00	S-38/17	SPT	63.0	33.5	CL	0.0	16.0	84.0	-	-	-	-	-	16.2	-	-	-	-	2.31
25.50	S-38/18	SPT	78.0	39.9	CL	-	-	-	-	-	-	2.06	1.75	17.5	-	-	-	-	-
27.00	S-38/19	SPT	84.0	41.3	CL	-	-	-	-	-	-	-	-	-	-	-	-	-	-
28.50	S-38/20	SPT	89.0	46.5	CL	0.0	18.0	82.0	-	-	-	-	-	18.5	-	-	-	-	-

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PROJECT :- GEOTECHNICAL INVESTIGATION REPORT FOR REDEVELOPMENT OF BOTANICAL GARDEN OF INDIAN REPUBLIC NOIDA.	STARTING DEPTH	0.0 M	WATER TABLE DEPTH
CLIENT :-EXECUTIVE ENGINEER (P) NOIDA CENTRAL DIVISION CPWD, NEW DELHI	TERMINATION DEPTH	40.0 M	11.5 M

BORE LOG SHEET

Sample					Symbolic representation	Grain Size Analysis			Atterberg limit			Density		Moisture Content (%)	Shear Parameters				Specific Gravity
Depth (m)	Sample No	Sample Type	Observed N-Value	Corrected N-value		Gravel (%)	Sand (%)	Silt Clay (%)	Liquid limit (%)	Plastic Limit (%)	Plasticity index	Bulk Density (gm/cc)	Dry Density (gm/cc)		Cohesion, c (t/m2)	Angle of Internal Friction,	Coefficent of consolidation, Cc	Void Ratio, eo	
30.00	S-38/21	SPT	94.0	44.3	CL	-	-	-	-	-	-	-	-	-	-	-	-	-	-
31.00	S-38/22	SPT	REFUSAL		CL	0.0	12.0	88.0	29.8	17.5	12.3	2.16	1.81	19.2	-	-	0.18	0.86	2.42
33.00	S-38/23	SPT	REFUSAL		SP	-	-	-	NP	NP	NP	-	-	-	-	-	-	-	-
34.50	S-38/24	SPT	REFUSAL		SP	6.0	88.0	6.0	NP	NP	NP	2.21	1.85	19.3	-	-	-	-	-
36.00	S-38/25	SPT	REFUSAL		SP	-	-	-	NP	NP	NP	-	-	-	-	-	-	-	-
37.50	S-38/26	SPT	REFUSAL		SP	5.0	90.0	5.0	NP	NP	NP	-	-	19.5	-	-	-	-	2.52
39.00	S-38/27	SPT	REFUSAL		SP	-	-	-	NP	NP	NP	-	-	-	-	-	-	-	-
40.00	S-38/28	SPT	REFUSAL		SP	6.0	88.0	6.0	NP	NP	NP	-	-	19.8	-	-	-	-	-

SOIGNE ENGINEERING CONSULTANTS SCF 23, MM, Manimajra, Chandigarh email: soigneconsultants@gmail.com	BOREHOLE	LOCATION	JOB NO.	PAGE NO
	39	N-3161819.5 E-728123	GT-1997	

PROJECT :- GEOTECHNICAL INVESTIGATION REPORT FOR REDEVELOPMENT OF BOTANICAL GARDEN OF INDIAN REPUBLIC NOIDA.	STARTING DEPTH	0.0 M	WATER TABLE DEPTH
CLIENT :-EXECUTIVE ENGINEER (P) NOIDA CENTRAL DIVISION CPWD, NEW DELHI	TERMINATION DEPTH	40.0 M	14.6 M

BORE LOG SHEET

Sample					Symbolic representation	Grain Size Analysis			Atterberg limit			Density		Moisture Content (%)	Shear Parameters				Specific Gravity
Depth (m)	Sample No	Sample Type	Observed N-Value	Corrected N-value		Gravel (%)	Sand (%)	Silt Clay (%)	Liquid limit (%)	Plastic Limit (%)	Plasticity Index	Bulk Density (gm/cc)	Dry Density (gm/cc)		Cohesion, c (t/m2)	Angle of Internal Friction,	Coefficent of consolidation, Cc	Void Ratio, eo	
0.75	S-39/1	SPT	5.0	8.5	CL	0.0	29.0	71.0	-	-	-	-	-	3.6	-	-	-	-	-
1.50	S-39/2	SPT	7.0	10.2	SP	0.0	75.0	25.0	-	-	-	1.64	1.57	4.2	0.9	22.0	-	-	2.39
3.00	S-39/3	SPT	7.0	8.6	SP	0.0	88.0	12.0	NP	NP	NP	-	-	-	-	-	-	-	-
4.50	S-39/4	SPT	11.0	12.0	SP	-	-	-	NP	NP	NP	-	-	9.2	-	-	-	-	-
6.00	S-39/5	SPT	12.0	11.9	SP	0.0	94.0	6.0	NP	NP	NP	1.69	1.53	10.1	-	28.0	-	-	2.42
7.50	S-39/6	SPT	18.0	16.6	SP	-	-	-	NP	NP	NP	-	-	12.5	-	-	-	-	-
9.00	S-39/7	SPT	20.0	17.2	SP	0.0	91.0	9.0	NP	NP	NP	1.73	1.52	13.8	-	-	-	-	-
10.50	S-39/8	SPT	23.0	18.6	SP	-	-	-	NP	NP	NP	-	-	-	-	-	-	-	-
12.00	S-39/9	SPT	25.0	19.1	SP	0.0	93.0	7.0	NP	NP	NP	-	-	15.8	-	32.0	-	-	-
13.50	S-39/10	SPT	28.0	20.3	SP	-	-	-	NP	NP	NP	-	-	16.4	-	-	-	-	-

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PROJECT :- GEOTECHNICAL INVESTIGATION REPORT FOR REDEVELOPMENT OF BOTANICAL GARDEN OF INDIAN REPUBLIC NOIDA.	STARTING DEPTH	0.0 M	WATER TABLE DEPTH
CLIENT :-EXECUTIVE ENGINEER (P) NOIDA CENTRAL DIVISION CPWD, NEW DELHI	TERMINATION DEPTH	40.0 M	14.6 M

BORE LOG SHEET

Sample					Symbolic representation	Grain Size Analysis			Atterberg limit			Density		Moisture Content (%)	Shear Parameters				Specific Gravity
Depth (m)	Sample No.	Sample Type	Observed N-Value	Corrected N-value		Gravel (%)	Sand (%)	Silt Clay (%)	Liquid limit (%)	Plastic Limit (%)	Plasticity Index	Bulk Density (gm/cc)	Dry Density (gm/cc)		Cohesion, c (t/m2)	Angle of Internal Friction,	Coefficent of consolidation, Cc	Void Ratio, eo	
15.00	S-39/11	SPT	32.0	22.0	SP	0.0	89.0	11.0	NP	NP	NP	-	-	-	-	-	-	-	-
16.00	S-39/12	SPT	38.0	25.0	CL	0.0	28.0	72.0	30.8	17.5	13.3	-	-	-	-	-	0.19	0.89	-
18.00	S-39/13	SPT	44.0	27.6	SP	0.0	77.0	23.0	NP	NP	NP	1.89	1.62	17.0	-	-	-	-	2.31
19.50	S-39/14	SPT	50.0	30.1	SP	-	-	-	NP	NP	NP	-	-	-	-	-	-	-	-
21.00	S-39/15	SPT	55.0	31.7	SP	0.0	88.0	12.0	NP	NP	NP	-	-	17.5	-	-	-	-	-
22.50	S-39/16	SPT	60.0	33.2	SP	-	-	-	NP	NP	NP	-	-	-	-	-	-	-	-
24.00	S-39/17	SPT	66.0	35.1	SP	0.0	89.0	11.0	NP	NP	NP	-	-	-	-	-	-	-	2.45
25.50	S-39/18	SPT	72.0	36.8	SP	-	-	-	NP	NP	NP	2.05	1.74	17.9	-	-	-	-	-
27.00	S-39/19	SPT	78.0	38.4	SP	-	-	-	NP	NP	NP	-	-	-	-	-	-	-	-
28.50	S-39/20	SPT	83.0	46.5	SP	0.0	92.0	8.0	NP	NP	NP	-	-	17.4	-	-	-	-	-

SOIGNE ENGINEERING CONSULTANTS SCF 23, MM, Manimajra, Chandigarh email: soigneconsultants@gmail.com	BOREHOLE	LOCATION	JOB NO.	PAGE NO
	39	N-3161819.5 E-728123	GT-1997	

PROJECT :- GEOTECHNICAL INVESTIGATION REPORT FOR REDEVELOPMENT OF BOTANICAL GARDEN OF INDIAN REPUBLIC NOIDA.	STARTING DEPTH	0.0 M	WATER TABLE DEPTH
CLIENT :-EXECUTIVE ENGINEER (P) NOIDA CENTRAL DIVISION CPWD, NEW DELHI	TERMINATION DEPTH	40.0 M	14.6 M

BORE LOG SHEET

Sample					Symbolic representation	Grain Size Analysis			Atterberg limit			Density		Moisture Content (%)	Shear Parameters				Specific Gravity
Depth (m)	Sample No	Sample Type	Observed N-Value	Corrected N-value		Gravel (%)	Sand (%)	Silt Clay (%)	Liquid limit (%)	Plastic Limit (%)	Plasticity Index	Bulk Density (gm/cc)	Dry Density (gm/cc)		Cohesion, c (t/m2)	Angle of Internal Friction,	Coefficent of consolidation, Cc	Void Ratio, eo	
30.00	S-39/21	SPT	89.0	44.3	SP	-	-	-	NP	NP	NP	-	-	-	-	-	-	-	-
31.00	S-39/22	SPT	97.0	42.7	SP	0.0	89.0	11.0	NP	NP	NP	2.16	1.83	17.9	-	-	-	-	2.47
33.00	S-39/23	SPT	REFUSAL		SP	-	-	-	NP	NP	NP	-	-	-	-	-	-	-	-
34.50	S-39/24	SPT	REFUSAL		SP	0.0	94.0	6.0	NP	NP	NP	2.20	1.86	18.3	-	-	-	-	-
36.00	S-39/25	SPT	REFUSAL		SP	-	-	-	NP	NP	NP	-	-	-	-	-	-	-	-
37.50	S-39/26	SPT	REFUSAL		SP	0.0	96.0	4.0	NP	NP	NP	2.32	1.94	19.6	-	-	-	-	-
39.00	S-39/27	SPT	REFUSAL		SP	-	-	-	NP	NP	NP	-	-	-	-	-	-	-	-
40.00	S-39/28	SPT	REFUSAL		SP	0.0	97.0	3.0	NP	NP	NP	-	-	20.2	-	-	-	-	-

SOIGNE ENGINEERING CONSULTANTS SCF 23, MM, Manimajra, Chandigarh email: soigneconsultants@gmail.com	BOREHOLE	LOCATION	JOB NO.	PAGE NO
	40	N-3162036 E-727845	GT-1997	

PROJECT :- GEOTECHNICAL INVESTIGATION REPORT FOR REDEVELOPMENT OF BOTANICAL GARDEN OF INDIAN REPUBLIC NOIDA.	STARTING DEPTH	0.0 M	WATER TABLE DEPTH
CLIENT :-EXECUTIVE ENGINEER (P) NOIDA CENTRAL DIVISION CPWD, NEW DELHI	TERMINATION DEPTH	40.0 M	14.8 M

BORE LOG SHEET

Sample					Symbolic representation	Grain Size Analysis			Atterberg limit			Density		Moisture Content (%)	Shear Parameters				Specific Gravity
Depth (m)	Sample No	Sample Type	Observed N-Value	Corrected N-value		Gravel (%)	Sand (%)	Silt Clay (%)	Liquid limit (%)	Plastic Limit (%)	Plasticity Index	Bulk Density (gm/cc)	Dry Density (gm/cc)		Cohesion, c (t/m2)	Angle of Internal Friction,	Coefficent of consolidation, Cc	Void Ratio, eo	
0.75	S-40/1	SPT	4.0	6.8	CL	0.0	11.0	89.0	-	-	-	-	-	2.8	-	-	-	-	-
1.50	S-40/2	SPT	5.0	7.3	SP	0.0	69.0	31.0	-	-	-	1.63	1.57	3.9	0.6	20.0	-	-	2.40
3.00	S-40/3	SPT	6.0	7.4	SP	0.0	93.0	7.0	NP	NP	NP	-	-	4.6	-	-	-	-	-
4.50	S-40/4	SPT	9.0	9.8	SP	-	-	-	NP	NP	NP	-	-	-	-	-	-	-	-
6.00	S-40/5	SPT	11.0	10.9	SP	0.0	91.0	9.0	NP	NP	NP	1.69	1.60	5.9	-	25.0	-	-	2.43
7.50	S-40/6	SPT	13.0	12.0	SP	-	-	-	NP	NP	NP	-	-	-	-	-	-	-	-
9.00	S-40/7	SPT	17.0	14.6	SP	0.0	97.0	3.0	NP	NP	NP	1.71	1.60	6.9	-	-	-	-	-
10.50	S-40/8	SPT	20.0	16.2	SP	-	-	-	NP	NP	NP	-	-	-	-	-	-	-	-
12.00	S-40/9	SPT	24.0	18.3	SP	0.0	95.0	5.0	NP	NP	NP	-	-	8.5	-	32.0	-	-	-
13.50	S-40/10	SPT	27.0	19.5	SP	-	-	-	NP	NP	NP	-	-	-	-	-	-	-	-

SOIGNE ENGINEERING CONSULTANTS SCF 23, MM, Manimajra, Chandigarh email: soigneconsultants@gmail.com	BOREHOLE	LOCATION	JOB NO.	PAGE NO
	40	N-3162036 E-727845	GT-1997	

PROJECT :- GEOTECHNICAL INVESTIGATION REPORT FOR REDEVELOPMENT OF BOTANICAL GARDEN OF INDIAN REPUBLIC NOIDA.	STARTING DEPTH	0.0 M	WATER TABLE DEPTH
CLIENT :-EXECUTIVE ENGINEER (P) NOIDA CENTRAL DIVISION CPWD, NEW DELHI	TERMINATION DEPTH	40.0 M	14.8 M

BORE LOG SHEET

Sample					Symbolic representation	Grain Size Analysis			Atterberg limit			Density		Moisture Content (%)	Shear Parameters				Specific Gravity
Depth (m)	Sample No	Sample Type	Observed N-Value	Corrected N-value		Gravel (%)	Sand (%)	Silt Clay (%)	Liquid limit (%)	Plastic Limit (%)	Plasticity Index	Bulk Density (gm/cc)	Dry Density (gm/cc)		Cohesion, c (t/m2)	Angle of Internal Friction,	Coefficent of consolidation, Cc	Void Ratio, eo	
15.00	S-40/11	SPT	30.0	20.7	SP	0.0	87.0	13.0	NP	NP	NP	1.76	1.57	11.9	-	-	-	-	-
16.00	S-40/12	SPT	38.0	25.0	CL	8.0	13.0	79.0	30.5	18.4	12.1	-	-	12.5	-	-	0.18	0.89	-
18.00	S-40/13	SPT	35.0	22.0	SP	0.0	81.0	19.0	NP	NP	NP	1.81	1.56	15.9	-	-	-	-	2.29
19.50	S-40/14	SPT	41.0	24.6	SP	-	-	-	NP	NP	NP	-	-	-	-	-	-	-	-
21.00	S-40/15	SPT	52.0	30.0	SM	0.0	47.0	53.0	-	-	-	-	-	16.9	-	-	-	-	-
22.50	S-40/16	SPT	58.0	32.1	SM	-	-	-	-	-	-	-	-	-	-	-	-	-	-
24.00	S-40/17	SPT	64.0	34.0	SM	0.0	59.0	41.0	-	-	-	-	-	17.6	-	-	-	-	2.41
25.50	S-40/18	SPT	71.0	36.3	SM	-	-	-	-	-	-	2.09	1.76	18.6	-	-	-	-	-
27.00	S-40/19	SPT	76.0	37.4	SM	-	-	-	-	-	-	-	-	-	-	-	-	-	-
28.50	S-40/20	SPT	82.0	46.5	SM	0.0	56.0	44.0	-	-	-	-	-	18.9	-	-	-	-	-

SOIGNE ENGINEERING CONSULTANTS SCF 23, MM, Manimajra, Chandigarh email: soigneconsultants@gmail.com	BOREHOLE	LOCATION	JOB NO.	PAGE NO
	40	N-3162036 E-727845	GT-1997	

PROJECT :- GEOTECHNICAL INVESTIGATION REPORT FOR REDEVELOPMENT OF BOTANICAL GARDEN OF INDIAN REPUBLIC NOIDA.	STARTING DEPTH	0.0 M	WATER TABLE DEPTH
CLIENT :-EXECUTIVE ENGINEER (P) NOIDA CENTRAL DIVISION CPWD, NEW DELHI	TERMINATION DEPTH	40.0 M	14.8 M

BORE LOG SHEET

Sample					Symbolic representation	Grain Size Analysis			Atterberg limit			Density		Moisture Content (%)	Shear Parameters				Specific Gravity
Depth (m)	Sample No	Sample Type	Observed N-Value	Corrected N-value		Gravel (%)	Sand (%)	Silt Clay (%)	Liquid limit (%)	Plastic Limit (%)	Plasticity Index	Bulk Density (gm/cc)	Dry Density (gm/cc)		Cohesion, c (t/m2)	Angle of Internal Friction,	Coefficent of consolidation, Cc	Void Ratio, eo	
30.00	S-40/21	SPT	88.0	44.3	SP	-	-	-	NP	NP	NP	-	-	-	-	-	-	-	-
31.00	S-40/22	SPT	REFUSAL		SP	0.0	90.0	10.0	NP	NP	NP	2.14	1.80	19.1	-	-	-	-	2.48
33.00	S-40/23	SPT	REFUSAL		SP	-	-	-	NP	NP	NP	-	-	-	-	-	-	-	-
34.50	S-40/24	SPT	REFUSAL		SP	0.0	96.0	4.0	NP	NP	NP	2.24	1.87	19.5	-	-	-	-	-
36.00	S-40/25	SPT	REFUSAL		SP	-	-	-	NP	NP	NP	-	-	-	-	-	-	-	-
37.50	S-40/26	SPT	REFUSAL		SP	0.0	92.0	8.0	NP	NP	NP	2.29	1.91	19.6	-	-	-	-	2.49
39.00	S-40/27	SPT	REFUSAL		SP	-	-	-	NP	NP	NP	-	-	-	-	-	-	-	-
40.00	S-40/28	SPT	REFUSAL		SP	0.0	95.0	5.0	NP	NP	NP	-	-	19.8	-	-	-	-	-

SOIGNE ENGINEERING CONSULTANTS SCF 23, MM, Manimajra, Chandigarh email: soigneconsultants@gmail.com	BOREHOLE	LOCATION	JOB NO.	PAGE NO
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PROJECT :- GEOTECHNICAL INVESTIGATION REPORT FOR REDEVELOPMENT OF BOTANICAL GARDEN OF INDIAN REPUBLIC NOIDA.	STARTING DEPTH	0.0 M	WATER TABLE DEPTH
CLIENT :-EXECUTIVE ENGINEER (P) NOIDA CENTRAL DIVISION CPWD, NEW DELHI	TERMINATION DEPTH	40.0 M	14.6 M

BORE LOG SHEET

Sample					Symbolic representation	Grain Size Analysis			Atterberg limit			Density		Moisture Content (%)	Shear Parameters				Specific Gravity
Depth (m)	Sample No	Sample Type	Observed N-Value	Corrected N-value		Gravel (%)	Sand (%)	Silt Clay (%)	Liquid limit (%)	Plastic Limit (%)	Plasticity Index	Bulk Density (gm/cc)	Dry Density (gm/cc)		Cohesion, c (t/m2)	Angle of Internal Friction,	Coefficient of consolidation, Cc	Void Ratio, eo	
0.75	S-41/1	SPT	5.0	8.5	CL	0.0	40.0	60.0	-	-	-	-	-	3.8	-	-	-	-	-
1.50	S-41/2	SPT	6.0	8.8	SP	0.0	66.0	34.0	-	-	-	1.66	1.58	4.8	1.2	18.0	-	-	2.40
3.00	S-41/3	SPT	7.0	8.6	SP	0.0	92.0	8.0	NP	NP	NP	-	-	-	-	-	-	-	-
4.50	S-41/4	SPT	9.0	9.8	SP	-	-	-	NP	NP	NP	-	-	9.6	-	-	-	-	-
6.00	S-41/5	SPT	10.0	10.0	SP	0.0	96.0	4.0	NP	NP	NP	1.68	1.52	10.6	-	28.0	-	-	2.43
7.50	S-41/6	SPT	12.0	11.0	SP	-	-	-	NP	NP	NP	-	-	12.6	-	-	-	-	-
9.00	S-41/7	SPT	15.0	12.9	SP	0.0	96.0	4.0	NP	NP	NP	1.74	1.53	13.6	-	-	-	-	-
10.50	S-41/8	SPT	18.0	14.5	SP	-	-	-	NP	NP	NP	-	-	-	-	-	-	-	-
12.00	S-41/9	SPT	22.0	16.8	SP	0.0	95.0	5.0	NP	NP	NP	-	-	15.8	-	31.0	-	-	-
13.50	S-41/10	SPT	25.0	18.1	SP	-	-	-	NP	NP	NP	-	-	16.3	-	-	-	-	-

SOIGNE ENGINEERING CONSULTANTS SCF 23, MM, Manimajra, Chandigarh email: soigneconsultants@gmail.com	BOREHOLE	LOCATION	JOB NO.	PAGE NO
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PROJECT :- GEOTECHNICAL INVESTIGATION REPORT FOR REDEVELOPMENT OF BOTANICAL GARDEN OF INDIAN REPUBLIC NOIDA.	STARTING DEPTH	0.0 M	WATER TABLE DEPTH
CLIENT :-EXECUTIVE ENGINEER (P) NOIDA CENTRAL DIVISION CPWD, NEW DELHI	TERMINATION DEPTH	40.0 M	14.6 M

BORE LOG SHEET

Sample						Grain Size Analysis			Atterberg limit			Density			Shear Parameters				
Depth (m)	Sample No	Sample Type	Observed N-Value	Corrected N-value	Symbolic representation	Gravel (%)	Sand (%)	Silt Clay (%)	Liquid limit (%)	Plastic Limit (%)	Plasticity Index	Bulk Density (gm/cc)	Dry Density (gm/cc)	Moisture Content (%)	Cohesion, c (t/m2)	Angle of Internal Friction,	Coefficient of consolidation, Cc	Void Ratio, eo	Specific Gravity
15.00	S-41/11	SPT	29.0	20.0	SP	0.0	93.0	7.0	NP	NP	NP	-	-	-	-	-	-	-	-
16.00	S-41/12	SPT	35.0	23.0	CL	0.0	30.0	70.0	31.6	18.2	13.4	1.76	1.53	14.8	8.3	-	0.19	0.92	-
18.00	S-41/13	SPT	40.0	25.1	SP	0.0	80.0	20.0	NP	NP	NP	1.88	1.61	16.8	-	-	-	-	2.30
19.50	S-41/14	SPT	46.0	27.6	SP	-	-	-	NP	NP	NP	-	-	-	-	-	-	-	-
21.00	S-41/15	SPT	53.0	30.5	SP	0.0	84.0	16.0	NP	NP	NP	-	-	17.3	-	34.7	-	-	-
22.50	S-41/16	SPT	59.0	32.6	SP	-	-	-	NP	NP	NP	-	-	-	-	-	-	-	-
24.00	S-41/17	SPT	64.0	34.0	SP	0.0	86.0	14.0	NP	NP	NP	-	-	17.6	-	-	-	-	2.46
25.50	S-41/18	SPT	71.0	36.3	SP	-	-	-	NP	NP	NP	2.08	1.77	17.7	-	-	-	-	-
27.00	S-41/19	SPT	78.0	38.4	SP	-	-	-	NP	NP	NP	-	-	-	-	-	-	-	-
28.50	S-41/20	SPT	REFUSAL		SP	0.0	89.0	11.0	NP	NP	NP	-	-	17.4	-	-	-	-	-

SOIGNE ENGINEERING CONSULTANTS SCF 23, MM, Manimajra, Chandigarh email: soigneconsultants@gmail.com	BOREHOLE	LOCATION	JOB NO.	PAGE NO
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PROJECT :- GEOTECHNICAL INVESTIGATION REPORT FOR REDEVELOPMENT OF BOTANICAL GARDEN OF INDIAN REPUBLIC NOIDA.	STARTING DEPTH	0.0 M	WATER TABLE DEPTH
CLIENT :-EXECUTIVE ENGINEER (P) NOIDA CENTRAL DIVISION CPWD, NEW DELHI	TERMINATION DEPTH	40.0 M	14.6 M

BORE LOG SHEET

Sample					Symbolic representation	Grain Size Analysis			Atterberg limit			Density		Moisture Content (%)	Shear Parameters				Specific Gravity
Depth (m)	Sample No	Sample Type	Observed N-Value	Corrected N-value		Gravel (%)	Sand (%)	Silt Clay (%)	Liquid limit (%)	Plastic Limit (%)	Plasticity index	Bulk Density (gm/cc)	Dry Density (gm/cc)		Cohesion, c (t/m2)	Angle of Internal Friction,	Coefficient of consolidation, Cc	Void Ratio, eo	
30.00	S-41/21	SPT	REFUSAL		SP	-	-	-	NP	NP	NP	-	-	-	-	-	-	-	-
31.00	S-41/22	SPT	REFUSAL		SP	0.0	90.0	10.0	NP	NP	NP	2.16	1.83	18.3	-	-	-	-	2.45
33.00	S-41/23	SPT	REFUSAL		SP	-	-	-	NP	NP	NP	-	-	-	-	-	-	-	-
34.50	S-41/24	SPT	REFUSAL		SP	0.0	94.0	6.0	NP	NP	NP	2.22	1.87	18.9	-	-	-	-	-
36.00	S-41/25	SPT	REFUSAL		SP	-	-	-	NP	NP	NP	-	-	19.1	-	-	-	-	-
37.50	S-41/26	SPT	REFUSAL		SP	0.0	95.0	5.0	NP	NP	NP	2.35	1.97	19.3	-	-	-	-	2.47
39.00	S-41/27	SPT	REFUSAL		SP	-	-	-	NP	NP	NP	-	-	-	-	-	-	-	-
40.00	S-41/28	SPT	REFUSAL		SP	0.0	96.0	4.0	NP	NP	NP	-	-	20.6	-	-	-	-	-

SOIGNE ENGINEERING CONSULTANTS SCF 23, MM, Manimajra, Chandigarh email: soigneconsultants@gmail.com	BOREHOLE	LOCATION	JOB NO.	PAGE NO
	42	N-3161638.06 E-728551.58	GT-1997	

PROJECT :- GEOTECHNICAL INVESTIGATION REPORT FOR REDEVELOPMENT OF BOTANICAL GARDEN OF INDIAN REPUBLIC NOIDA.	STARTING DEPTH	0.0 M	WATER TABLE DEPTH
CLIENT :-EXECUTIVE ENGINEER (P) NOIDA CENTRAL DIVISION CPWD, NEW DELHI	TERMINATION DEPTH	40.0 M	14.7 M

BORE LOG SHEET

Sample					Symbolic representation	Grain Size Analysis			Atterberg limit			Density		Moisture Content (%)	Shear Parameters				Specific Gravity
Depth (m)	Sample No	Sample Type	Observed N-Value	Corrected N-value		Gravel (%)	Sand (%)	Silt Clay (%)	Liquid limit (%)	Plastic Limit (%)	Plasticity Index	Bulk Density (gm/cc)	Dry Density (gm/cc)		Cohesion, c (t/m2)	Angle of Internal Friction,	Coefficent of consolidation, Cc	Void Ratio, eo	
0.75	S-42/1	SPT	5.0	8.5	CL	0.0	19.0	81.0	-	-	-	-	-	2.5	-	-	-	-	-
1.50	S-42/2	SPT	7.0	10.2	SP	0.0	79.0	21.0	NP	NP	NP	1.68	1.63	3.3	0.5	23.0	-	-	2.41
3.00	S-42/3	SPT	9.0	11.0	SP	0.0	89.0	11.0	NP	NP	NP	-	-	4.6	-	-	-	-	-
4.50	S-42/4	SPT	11.0	12.0	SP	-	-	-	NP	NP	NP	-	-	-	-	-	-	-	-
6.00	S-42/5	SPT	12.0	11.9	SP	0.0	90.0	10.0	NP	NP	NP	1.71	1.61	6.3	-	26.0	-	-	2.43
7.50	S-42/6	SPT	15.0	13.8	SP	-	-	-	NP	NP	NP	-	-	-	-	-	-	-	-
9.00	S-42/7	SPT	19.0	16.3	SP	6.0	86.0	8.0	NP	NP	NP	1.74	1.62	7.6	-	-	-	-	-
10.50	S-42/8	SPT	22.0	17.8	SP	-	-	-	NP	NP	NP	-	-	-	-	-	-	-	-
12.00	S-42/9	SPT	27.0	20.6	SP	11.0	82.0	7.0	NP	NP	NP	-	-	8.3	-	30.00	-	-	-
13.50	S-42/10	SPT	34.0	24.6	SP	-	-	-	NP	NP	NP	-	-	-	-	-	-	-	-

SOIGNE ENGINEERING CONSULTANTS SCF 23, MM, Manimajra, Chandigarh email: soigneconsultants@gmail.com	BOREHOLE	LOCATION	JOB NO.	PAGE NO
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PROJECT :- GEOTECHNICAL INVESTIGATION REPORT FOR REDEVELOPMENT OF BOTANICAL GARDEN OF INDIAN REPUBLIC NOIDA.	STARTING DEPTH	0.0 M	WATER TABLE DEPTH
CLIENT :-EXECUTIVE ENGINEER (P) NOIDA CENTRAL DIVISION CPWD, NEW DELHI	TERMINATION DEPTH	40.0 M	14.7 M

BORE LOG SHEET

Sample					Symbolic representation	Grain Size Analysis			Atterberg limit			Density		Moisture Content (%)	Shear Parameters				
Depth (m)	Sample No	Sample Type	Observed N-Value	Corrected N-value		Gravel (%)	Sand (%)	Silt Clay (%)	Liquid limit (%)	Plastic Limit (%)	Plasticity Index	Bulk Density (gm/cc)	Dry Density (gm/cc)		Cohesion, c (t/m2)	Angle of Internal Friction,	Coefficent of consolidation, Cc	Void Ratio, eo	Specific Gravity
15.00	S-42/11	SPT	39.0	26.9	CL	0.0	39.0	61.0	29.1	18.2	10.9	1.85	1.67	10.9	-	-	0.17	0.84	-
16.50	S-42/12	SPT	46.0	30.2	CL	-	-	-	-	-	-	-	-	12.9	-	-	-	-	-
18.00	S-42/13	SPT	53.0	33.3	CL	0.0	9.0	91.0	31.5	17.8	13.7	1.95	1.67	16.5	-	-	0.19	0.92	2.34
19.50	S-42/14	SPT	60.0	36.1	CL	-	-	-	-	-	-	-	-	-	-	-	-	-	-
21.00	S-42/15	SPT	68.0	39.2	CL	0.0	16.0	84.0	-	-	-	-	-	17.9	-	-	-	-	-
22.50	S-42/16	SPT	70.0	38.7	CL	-	-	-	-	-	-	-	-	-	-	-	-	-	2.30
24.00	S-42/17	SPT	77.0	40.9	SM	0.0	56.0	44.0	-	-	-	-	-	18.2	-	-	-	-	-
25.50	S-42/18	SPT	81.0	41.4	SP	0.0	91.0	9.0	NP	NP	NP	2.16	1.82	18.8	-	-	-	-	-
27.00	S-42/19	SPT	89.0	43.8	SP	-	-	-	NP	NP	NP	-	-	-	-	-	-	-	-
28.50	S-42/20	SPT	95.0	46.5	SP	4.0	90.0	6.0	NP	NP	NP	-	-	19.2	-	-	-	-	-

SOIGNE ENGINEERING CONSULTANTS SCF 23, MM, Manimajra, Chandigarh email: soigneconsultants@gmail.com	BOREHOLE	LOCATION	JOB NO.	PAGE NO
	42	N-3161638.06 E-728551.58	GT-1997	

PROJECT :- GEOTECHNICAL INVESTIGATION REPORT FOR REDEVELOPMENT OF BOTANICAL GARDEN OF INDIAN REPUBLIC NOIDA.	STARTING DEPTH	0.0 M	WATER TABLE DEPTH
CLIENT :-EXECUTIVE ENGINEER (P) NOIDA CENTRAL DIVISION CPWD, NEW DELHI	TERMINATION DEPTH	40.0 M	14.7 M

BORE LOG SHEET

Sample					Symbolic representation	Grain Size Analysis			Atterberg limit			Density		Moisture Content (%)	Shear Parameters				Specific Gravity
Depth (m)	Sample No	Sample Type	Observed N-Value	Corrected N-value		Gravel (%)	Sand (%)	Silt Clay (%)	Liquid limit (%)	Plastic Limit (%)	Plasticity Index	Bulk Density (gm/cc)	Dry Density (gm/cc)		Cohesion, c (t/m2)	Angle of Internal Friction,	Coefficent of consolidation, Cc	Void Ratio, eo	
30.00	S-42/21	SPT	REFUSAL		SP	-	-	-	NP	NP	NP	-	-	-	-	-	-	-	-
31.50	S-42/22	SPT	REFUSAL		SP	0.0	6.0	94.0	NP	NP	NP	-	-	19.6	-	-	-	-	2.45
33.00	S-42/23	SPT	REFUSAL		SP	-	-	-	NP	NP	NP	-	-	-	-	-	-	-	-
34.50	S-42/24	SPT	REFUSAL		SP	0.0	91.0	9.0	NP	NP	NP	2.25	1.88	19.8	-	-	-	-	-
36.00	S-42/25	SPT	REFUSAL		SP	-	-	-	NP	NP	NP	-	-	-	-	-	-	-	-
37.50	S-42/26	SPT	REFUSAL		SP	0.0	90.0	10.0	NP	NP	NP	2.31	1.93	19.9	-	-	-	-	2.47
39.00	S-42/27	SPT	REFUSAL		SP	-	-	-	NP	NP	NP	-	-	-	-	-	-	-	-
40.00	S-42/28	SPT	REFUSAL		SP	0.0	85.0	15.0	NP	NP	NP	-	-	19.9	-	-	-	-	-

SOIGNE ENGINEERING CONSULTANTS SCF 23, MM, Manimajra, Chandigarh email: soigneconsultants@gmail.com	BOREHOLE	LOCATION	JOB NO.	PAGE NO
	43	N-3161687.86 E-727542.46	GT-1997	

PROJECT :- GEOTECHNICAL INVESTIGATION REPORT FOR REDEVELOPMENT OF BOTANICAL GARDEN OF INDIAN REPUBLIC NOIDA.	STARTING DEPTH	0.0 M	WATER TABLE DEPTH
CLIENT :-EXECUTIVE ENGINEER (P) NOIDA CENTRAL DIVISION CPWD, NEW DELHI	TERMINATION DEPTH	40.0 M	13.5 M

BORE LOG SHEET

Sample					Symbolic representation	Grain Size Analysis			Atterberg limit			Density		Moisture Content (%)	Shear Parameters				Specific Gravity
Depth (m)	Sample No	Sample Type	Observed N-Value	Corrected N-value		Gravel (%)	Sand (%)	Silt Clay (%)	Liquid limit (%)	Plastic Limit (%)	Plasticity Index	Bulk Density (gm/cc)	Dry Density (gm/cc)		Cohesion, c (t/m2)	Angle of Internal Friction,	Coefficent of consolidation, Cc	Void Ratio, eo	
0.75	S-43/1	SPT	5.0	8.5	CL	0.0	4.0	96.0	-	-	-	-	-	2.4	-	-	-	-	-
1.50	S-43/2	SPT	7.0	10.2	SP	0.0	83.0	17.0	NP	NP	NP	1.68	1.62	3.6	0.8	22.0	-	-	2.42
3.00	S-43/3	SPT	10.0	12.3	SP	0.0	88.0	12.0	NP	NP	NP	-	-	4.7	-	-	-	-	-
4.50	S-43/4	SPT	11.0	12.0	SP	-	-	-	NP	NP	NP	-	-	-	-	-	-	-	-
6.00	S-43/5	SPT	13.0	12.9	SP	0.0	95.0	5.0	NP	NP	NP	1.70	1.60	6.0	-	29.0	-	-	2.45
7.50	S-43/6	SPT	15.0	13.8	SP	-	-	-	NP	NP	NP	-	-	-	-	-	-	-	-
9.00	S-43/7	SPT	20.0	17.2	SP	5.0	93.0	2.0	NP	NP	NP	1.75	1.64	6.8	-	-	-	-	-
10.50	S-43/8	SPT	25.0	20.2	SP	-	-	-	NP	NP	NP	-	-	-	-	-	-	-	-
12.00	S-43/9	SPT	26.0	19.8	SP	0.0	91.0	9.0	NP	NP	NP	-	-	7.5	-	34.0	-	-	-
13.50	S-43/10	SPT	30.0	21.7	SP	-	-	-	NP	NP	NP	-	-	-	-	-	-	-	-

SOIGNE ENGINEERING CONSULTANTS SCF 23, MM, Manimajra, Chandigarh email: soigneconsultants@gmail.com	BOREHOLE	LOCATION	JOB NO.	PAGE NO
	43	N-3161687.86 E-727542.46	GT-1997	

PROJECT :- GEOTECHNICAL INVESTIGATION REPORT FOR REDEVELOPMENT OF BOTANICAL GARDEN OF INDIAN REPUBLIC NOIDA.	STARTING DEPTH	0.0 M	WATER TABLE DEPTH
CLIENT :-EXECUTIVE ENGINEER (P) NOIDA CENTRAL DIVISION CPWD, NEW DELHI	TERMINATION DEPTH	40.0 M	13.5 M

BORE LOG SHEET

Sample					Symbolic representation	Grain Size Analysis			Atterberg limit			Density		Moisture Content (%)	Shear Parameters				Specific Gravity
Depth (m)	Sample No	Sample Type	Observed N-Value	Corrected N-value		Gravel (%)	Sand (%)	Silt Clay (%)	Liquid limit (%)	Plastic Limit (%)	Plasticity index	Bulk Density (gm/cc)	Dry Density (gm/cc)		Cohesion, c (t/m2)	Angle of internal Friction,	Coefficent of consolidation, Cc	Void Ratio, eo	
15.00	S-43/11	SPT	33.0	22.7	SP	0.0	88.0	12.0	NP	NP	NP	1.84	1.64	11.9	-	-	-	-	-
16.00	S-43/12	SPT	36.0	23.6	SP	0.0	85.0	15.0	NP	NP	NP	-	-	13.2	-	-	-	-	-
18.00	S-43/13	SPT	41.0	25.7	SP	-	-	-	NP	NP	NP	1.89	1.65	14.6	-	-	-	-	2.32
19.50	S-43/14	SPT	47.0	28.2	SP	-	-	-	NP	NP	NP	-	-	-	-	-	-	-	-
21.00	S-43/15	SPT	53.0	30.5	SP	0.0	83.0	17.0	NP	NP	NP	-	-	15.5	-	-	-	-	-
22.00	S-43/16	SPT	57.0	31.5	CL	0.0	19.0	81.0	29.3	16.5	12.8	-	-	-	-	-	0.17	0.85	-
24.00	S-43/17	SPT	68.0	36.1	CL	0.0	16.0	84.0	-	-	-	-	-	17.7	-	-	-	-	2.34
25.50	S-43/18	SPT	76.0	38.9	CL	-	-	-	-	-	-	2.06	1.74	18.6	-	-	-	-	-
27.00	S-43/19	SPT	84.0	41.3	CL	-	-	-	-	-	-	-	-	-	-	-	-	-	-
28.50	S-43/20	SPT	92.0	46.5	CL	0.0	17.0	83.0	-	-	-	-	-	18.9	-	-	-	-	-

SOIGNE ENGINEERING CONSULTANTS SCF 23, MM, Manimajra, Chandigarh email: soigneconsultants@gmail.com	BOREHOLE	LOCATION	JOB NO.	PAGE NO
	43	N-3161687.86 E-727542.46	GT-1997	

PROJECT :- GEOTECHNICAL INVESTIGATION REPORT FOR REDEVELOPMENT OF BOTANICAL GARDEN OF INDIAN REPUBLIC NOIDA.	STARTING DEPTH	0.0 M	WATER TABLE DEPTH
CLIENT :-EXECUTIVE ENGINEER (P) NOIDA CENTRAL DIVISION CPWD, NEW DELHI	TERMINATION DEPTH	40.0 M	13.5 M

BORE LOG SHEET

Sample					Symbolic representation	Grain Size Analysis			Atterberg limit			Density		Moisture Content (%)	Shear Parameters				Specific Gravity
Depth (m)	Sample No	Sample Type	Observed N-Value	Corrected N-value		Gravel (%)	Sand (%)	Silt Clay (%)	Liquid limit (%)	Plastic Limit (%)	Plasticity Index	Bulk Density (gm/cc)	Dry Density (gm/cc)		Cohesion, c (t/m2)	Angle of Internal Friction,	Coefficient of consolidation, Cc	Void Ratio, eo	
30.00	S-43/21	SPT	REFUSAL		CL	-	-	-	-	-	-	-	-	-	-	-	-	-	-
31.50	S-43/22	SPT	REFUSAL		CL	0.0	23.0	77.0	31.2	17.1	14.1	2.15	1.80	19.2	-	-	0.19	0.91	2.45
32.50	S-43/23	SPT	REFUSAL		SP	-	-	-	NP	NP	NP	-	-	-	-	-	-	-	-
34.50	S-43/24	SPT	REFUSAL		SP	6.0	86.0	8.0	NP	NP	NP	2.22	1.86	19.5	-	-	-	-	-
36.00	S-43/25	SPT	REFUSAL		SP	-	-	-	NP	NP	NP	-	-	-	-	-	-	-	-
37.50	S-43/26	SPT	REFUSAL		SP	10.0	84.0	6.0	NP	NP	NP	2.28	1.90	19.7	-	-	-	-	2.47
39.00	S-43/27	SPT	REFUSAL		SP	-	-	-	NP	NP	NP	-	-	-	-	-	-	-	-
40.00	S-43/28	SPT	REFUSAL		SP	13.0	78.0	9.0	NP	NP	NP	-	-	19.8	-	-	-	-	-

SOIGNE ENGINEERING CONSULTANTS SCF 23, MM, Manimajra, Chandigarh email: soigneconsultants@gmail.com	BOREHOLE	LOCATION	JOB NO.	PAGE NO
	44	N-3161424.43 E-727233.20	GT-1997	

PROJECT :- GEOTECHNICAL INVESTIGATION REPORT FOR REDEVELOPMENT OF BOTANICAL GARDEN OF INDIAN REPUBLIC NOIDA.	STARTING DEPTH	0.0 M	WATER TABLE DEPTH
CLIENT :-EXECUTIVE ENGINEER (P) NOIDA CENTRAL DIVISION CPWD, NEW DELHI	TERMINATION DEPTH	40.0 M	12.5 M

BORE LOG SHEET

Sample					Symbolic representation	Grain Size Analysis			Atterberg limit			Density		Moisture Content (%)	Shear Parameters				Specific Gravity
Depth (m)	Sample No	Sample Type	Observed N-Value	Corrected N-value		Gravel (%)	Sand (%)	Silt Clay (%)	Liquid limit (%)	Plastic Limit (%)	Plasticity index	Bulk Density (gm/cc)	Dry Density (gm/cc)		Cohesion, c (t/m2)	Angle of Internal Friction,	Coefficent of consolidation, Cc	Void Ratio, eo	
0.75	S-44/1	SPT	5.0	8.5	CL	0.0	40.0	60.0	-	-	-	-	-	2.2	-	-	-	-	-
1.50	S-44/2	SPT	7.0	10.2	SP	0.0	90.0	10.0	NP	NP	NP	1.66	1.61	3.2	-	26.00	-	-	2.42
3.00	S-44/3	SPT	8.0	9.8	SP	0.0	93.0	7.0	NP	NP	NP	-	-	4.5	-	-	-	-	-
4.50	S-44/4	SPT	9.0	9.8	SP	-	-	-	NP	NP	NP	-	-	-	-	-	-	-	-
6.00	S-44/5	SPT	12.0	11.9	SP	0.0	97.0	3.0	NP	NP	NP	1.71	1.62	5.6	-	29.00	-	-	2.45
7.50	S-44/6	SPT	16.0	14.7	SP	-	-	-	NP	NP	NP	-	-	-	-	-	-	-	-
9.00	S-44/7	SPT	19.0	16.3	SP	0.0	96.0	4.0	NP	NP	NP	1.78	1.67	6.8	-	-	-	-	-
10.50	S-44/8	SPT	23.0	18.6	SP	-	-	-	NP	NP	NP	-	-	-	-	-	-	-	-
12.00	S-44/9	SPT	28.0	21.4	SP	0.0	97.0	3.0	NP	NP	NP	-	-	7.9	-	-	-	-	-
13.50	S-44/10	SPT	31.0	22.4	SP	-	-	-	NP	NP	NP	-	-	-	-	-	-	-	-

SOIGNE ENGINEERING CONSULTANTS SCF 23, MM, Manimajra, Chandigarh email: soigneconsultants@gmail.com	BOREHOLE	LOCATION	JOB NO.	PAGE NO
	44	N-3161424.43 E-727233.20	GT-1997	

PROJECT :- GEOTECHNICAL INVESTIGATION REPORT FOR REDEVELOPMENT OF BOTANICAL GARDEN OF INDIAN REPUBLIC NOIDA.	STARTING DEPTH	0.0 M	WATER TABLE DEPTH
CLIENT :-EXECUTIVE ENGINEER (P) NOIDA CENTRAL DIVISION CPWD, NEW DELHI	TERMINATION DEPTH	40.0 M	12.5 M

BORE LOG SHEET

Sample					Symbolic representation	Grain Size Analysis			Atterberg limit			Density		Moisture Content (%)	Shear Parameters				Specific Gravity
Depth (m)	Sample No	Sample Type	Observed N-Value	Corrected N-value		Gravel (%)	Sand (%)	Silt Clay (%)	Liquid limit (%)	Plastic Limit (%)	Plasticity Index	Bulk Density (gm/cc)	Dry Density (gm/cc)		Cohesion, c (t/m2)	Angle of Internal Friction,	Coefficent of consolidation, Cc	Void Ratio, eo	
15.00	S-44/11	SPT	44.0	30.3	SP	0.0	94.0	6.0	NP	NP	NP	1.86	1.67	11.6	-	36.00	-	-	-
16.00	S-44/12	SPT	55.0	36.1	SP	-	-	-	NP	NP	NP	-	-	-	-	-	-	-	-
18.00	S-44/13	SPT	64.0	40.2	SP	-	-	-	NP	NP	NP	-	-	-	-	-	-	-	-
19.50	S-44/14	SPT	82.0	49.3	SP	0.0	97.0	3.0	NP	NP	NP	1.93	1.68	14.6	-	-	-	-	2.41
21.00	S-44/15	SPT	89.0	51.3	SP	0.0	95.0	5.0	NP	NP	NP	-	-	16.6	-	-	-	-	-
22.50	S-44/16	SPT	REFUSAL		SP	-	-	-	NP	NP	NP	-	-	-	-	-	-	-	-
24.00	S-44/17	SPT	REFUSAL		CL	0.0	12.0	88.0	30.2	19.9	10.3	-	-	-	-	-	0.18	0.88	2.31
25.50	S-44/18	SPT	REFUSAL		CL	-	-	-	-	-	-	1.99	1.69	17.6	-	-	-	-	-
27.00	S-44/19	SPT	REFUSAL		CL	-	-	-	-	-	-	-	-	-	-	-	-	-	-
28.50	S-44/20	SPT	REFUSAL		CL	0.0	16.0	84.0	32.2	18.6	13.6	-	-	18.6	-	-	0.20	0.94	-

SOIGNE ENGINEERING CONSULTANTS SCF 23, MM, Manimajra, Chandigarh email: soigneconsultants@gmail.com	BOREHOLE	LOCATION	JOB NO.	PAGE NO
	44	N-3161424.43 E-727233.20	GT-1997	

PROJECT :- GEOTECHNICAL INVESTIGATION REPORT FOR REDEVELOPMENT OF BOTANICAL GARDEN OF INDIAN REPUBLIC NOIDA.	STARTING DEPTH	0.0 M	WATER TABLE DEPTH
CLIENT :-EXECUTIVE ENGINEER (P) NOIDA CENTRAL DIVISION CPWD, NEW DELHI	TERMINATION DEPTH	40.0 M	12.5 M

BORE LOG SHEET

Sample					Symbolic representation	Grain Size Analysis			Atterberg limit			Density		Moisture Content (%)	Shear Parameters				Specific Gravity
Depth (m)	Sample No	Sample Type	Observed N-Value	Corrected N-value		Gravel (%)	Sand (%)	Silt Clay (%)	Liquid limit (%)	Plastic Limit (%)	Plasticity Index	Bulk Density (gm/cc)	Dry Density (gm/cc)		Cohesion, c (t/m2)	Angle of Internal Friction,	Coefficent of consolidation, Cc	Void Ratio, eo	
30.00	S-44/21	SPT	REFUSAL		CL	-	-	-	-	-	-	-	-	-	-	-	-	-	-
31.00	S-44/22	SPT	REFUSAL		CL	0.0	22.0	78.0	-	-	-	2.06	1.73	18.9	-	-	-	-	2.32
33.00	S-44/23	SPT	REFUSAL		CL	-	-	-	-	-	-	-	-	-	-	-	-	-	-
34.50	S-44/24	SPT	REFUSAL		SP	0.0	83.0	17.0	-	-	-	2.13	1.79	19.0	-	-	-	-	-
36.00	S-44/25	SPT	REFUSAL		SP	-	-	-	-	-	-	-	-	-	-	-	-	-	-
37.50	S-44/26	SPT	REFUSAL		SP	0.0	87.0	13.0	28.9	17.6	11.3	2.29	1.91	19.6	-	-	-	-	2.35
39.00	S-44/27	SPT	REFUSAL		SP	-	-	-	-	-	-	-	-	-	-	-	-	-	-
40.00	S-44/28	SPT	REFUSAL		SP	0.0	86.0	14.0	-	-	-	-	-	19.9	-	-	-	-	-

SOIGNE ENGINEERING CONSULTANTS SCF 23, MM, Manimajra, Chandigarh email: soigneconsultants@gmail.com	BOREHOLE	LOCATION	JOB NO.	PAGE NO
	. 45	N-3161260.14 E-727492.92	GT-1997	

PROJECT :- GEOTECHNICAL INVESTIGATION REPORT FOR REDEVELOPMENT OF BOTANICAL GARDEN OF INDIAN REPUBLIC NOIDA.	STARTING DEPTH	0.0 M	WATER TABLE DEPTH
CLIENT :-EXECUTIVE ENGINEER (P) NOIDA CENTRAL DIVISION CPWD, NEW DELHI	TERMINATION DEPTH	40.0 M	13.4 M

BORE LOG SHEET

Sample					Symbolic representation	Grain Size Analysis			Atterberg limit			Density		Moisture Content (%)	Shear Parameters				Specific Gravity
Depth (m)	Sample No	Sample Type	Observed N-Value	Corrected N-value		Gravel (%)	Sand (%)	Silt Clay (%)	Liquid limit (%)	Plastic Limit (%)	Plasticity Index	Bulk Density (gm/cc)	Dry Density (gm/cc)		Cohesion, c (t/m2)	Angle of Internal Friction,	Coefficent of consolidation, Cc	Void Ratio, eo	
0.75	S-45/1	SPT	5.0	8.5	CL	0.0	25.0	75.0	-	-	-	-	-	2.8	-	-	-	-	-
1.50	S-45/2	SPT	7.0	10.2	SP	0.0	84.0	16.0	NP	NP	NP	1.65	1.57	4.8	-	25.0	-	-	2.42
3.00	S-45/3	SPT	8.0	9.8	SP	-	-	-	NP	NP	NP	-	-	5.9	-	-	-	-	-
4.50	S-45/4	SPT	9.0	9.8	SP	-	-	-	NP	NP	NP	-	-	-	-	-	-	-	-
6.00	S-45/5	SPT	12.0	11.9	SP	0.0	95.0	5.0	NP	NP	NP	1.71	1.61	6.2	-	29.0	-	-	2.44
7.50	S-45/6	SPT	16.0	14.7	SP	-	-	-	NP	NP	NP	-	-	-	-	-	-	-	-
9.00	S-45/7	SPT	19.0	16.3	SP	0.0	92.0	8.0	NP	NP	NP	1.74	1.61	7.9	-	32.0	-	-	-
10.50	S-45/8	SPT	23.0	18.6	SP	-	-	-	NP	NP	NP	-	-	-	-	-	-	-	-
12.00	S-45/9	SPT	28.0	21.4	SP	0.0	90.0	10.0	NP	NP	NP	-	-	8.6	-	-	-	-	-
13.50	S-45/10	SPT	31.0	22.4	SP	-	-	-	NP	NP	NP	-	-	-	-	-	-	-	-

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BOREHOLE	LOCATION	JOB NO.	PAGE NO
45	N-3161260.14 E-727492.92	GT-1997	

PROJECT :- GEOTECHNICAL INVESTIGATION REPORT FOR REDEVELOPMENT OF BOTANICAL GARDEN OF INDIAN REPUBLIC NOIDA.

STARTING DEPTH	0.0 M	WATER TABLE DEPTH
TERMINATION DEPTH	40.0 M	13.4 M

CLIENT :-EXECUTIVE ENGINEER (P) NOIDA CENTRAL DIVISION CPWD, NEW DELHI

BORE LOG SHEET

Sample					Symbolic representation	Grain Size Analysis			Atterberg limit			Density		Moisture Content (%)	Shear Parameters				Specific Gravity
Depth (m)	Sample No	Sample Type	Observed N-Value	Corrected N-value		Gravel (%)	Sand (%)	Silt Clay (%)	Liquid limit (%)	Plastic Limit (%)	Plasticity Index	Bulk Density (gm/cc)	Dry Density (gm/cc)		Cohesion, c (t/m2)	Angle of Internal Friction,	Coefficent of consolidation, Cc	Void Ratio, eo	
15.00	S-45/11	SPT	44.0	30.3	SP	0.0	96.0	4.0	NP	NP	NP	1.82	1.65	10.1	-	35.0	-	-	-
16.00	S-45/12	SPT	55.0	36.1	SP	-	-	-	NP	NP	NP	-	-	11.8	-	-	-	-	2.46
18.00	S-45/13	SPT	64.0	40.2	SP	-	-	-	NP	NP	NP	1.91	1.68	13.7	-	-	-	-	-
19.50	S-45/14	SPT	82.0	49.3	SP	0.0	88.0	12.0	NP	NP	NP	-	-	-	-	-	-	-	-
21.00	S-45/15	SPT	89.0	51.3	SP	-	-	-	NP	NP	NP	-	-	15.5	-	-	-	-	-
22.50	S-45/16	SPT	REFUSAL		SP	9.0	83.0	8.0	NP	NP	NP	-	-	-	-	-	-	-	-
24.00	S-45/17	SPT	REFUSAL		SP	6.0	89.0	5.0	NP	NP	NP	-	-	16.9	-	-	-	-	2.51
25.50	S-45/18	SPT	REFUSAL		SP	-	-	-	NP	NP	NP	2.10	1.79	17.2	-	-	-	-	-
27.00	S-45/19	SPT	REFUSAL		SP	-	-	-	NP	NP	NP	-	-	-	-	-	-	-	-
28.50	S-45/20	SPT	REFUSAL		SP	0.0	92.0	8.0	NP	NP	NP	-	-	18.5	-	-	-	-	-

SOIGNE ENGINEERING CONSULTANTS SCF 23, MM, Manimajra, Chandigarh email: soigneconsultants@gmail.com	BOREHOLE	LOCATION	JOB NO.	PAGE NO
	45	N-3161260.14 E-727492.92	GT-1997	

PROJECT :- GEOTECHNICAL INVESTIGATION REPORT FOR REDEVELOPMENT OF BOTANICAL GARDEN OF INDIAN REPUBLIC NOIDA.	STARTING DEPTH	0.0 M	WATER TABLE DEPTH
CLIENT :-EXECUTIVE ENGINEER (P) NOIDA CENTRAL DIVISION CPWD, NEW DELHI	TERMINATION DEPTH	40.0 M	13.4 M

BORE LOG SHEET

Sample					Symbolic representation	Grain Size Analysis			Atterberg limit			Density		Moisture Content (%)	Shear Parameters				Specific Gravity
Depth (m)	Sample No	Sample Type	Observed N-Value	Corrected N-value		Gravel (%)	Sand (%)	Silt Clay (%)	Liquid limit (%)	Plastic Limit (%)	Plasticity Index	Bulk Density (gm/cc)	Dry Density (gm/cc)		Cohesion, c (t/m2)	Angle of Internal Friction,	Coefficent of consolidation, Cc	Void Ratio, eo	
30.00	S-45/21	SPT	REFUSAL		SP	-	-	-	NP	NP	NP	-	-	-	-	-	-	-	-
31.00	S-45/22	SPT	REFUSAL		SP	0.0	89.0	11.0	NP	NP	NP	2.12	1.78	18.9	-	-	-	-	2.32
33.00	S-45/23	SPT	REFUSAL		CL	0.0	10.0	90.0	32.1	18.8	13.3	-	-	-	-	-	0.20	0.93	-
34.50	S-45/24	SPT	REFUSAL		CL	-	-	-	-	-	-	2.15	1.80	19.3	-	-	-	-	-
36.00	S-45/25	SPT	REFUSAL		CL	-	-	-	-	-	-	-	-	-	-	-	-	-	-
37.50	S-45/26	SPT	REFUSAL		CL	0.0	19.0	81.0	-	-	-	-	-	19.6	-	-	-	-	-
39.00	S-45/27	SPT	REFUSAL		CL	-	-	-	-	-	-	-	-	-	-	-	-	-	-
40.00	S-45/28	SPT	REFUSAL		CL	0.0	13.0	87.0	-	-	-	-	-	19.8	-	-	-	-	-

SOIGNE ENGINEERING CONSULTANTS SCF 23, MM, Manimajra, Chandigarh email: soigneconsultants@gmail.com	BOREHOLE	LOCATION	JOB NO.	PAGE NO
	46	N-3161379.55 E-727896.81	GT-1997	

PROJECT :- GEOTECHNICAL INVESTIGATION REPORT FOR REDEVELOPMENT OF BOTANICAL GARDEN OF INDIAN REPUBLIC NOIDA.	STARTING DEPTH	0.0 M	WATER TABLE DEPTH
CLIENT :-EXECUTIVE ENGINEER (P) NOIDA CENTRAL DIVISION CPWD, NEW DELHI	TERMINATION DEPTH	40.0 M	14.0 M

BORE LOG SHEET

Sample					Symbolic representation	Grain Size Analysis			Atterberg limit			Density		Moisture Content (%)	Shear Parameters				Specific Gravity
Depth (m)	Sample No	Sample Type	Observed N-Value	Corrected N-value		Gravel (%)	Sand (%)	Silt Clay (%)	Liquid limit (%)	Plastic Limit (%)	Plasticity Index	Bulk Density (gm/cc)	Dry Density (gm/cc)		Cohesion, c (t/m2)	Angle of Internal Friction,	Coefficient of consolidation, Cc	Void Ratio, eo	
0.75	S-46/1	SPT	8.0	13.5	CL	0.0	8.0	92.0	-	-	-	-	-	2.2	-	-	-	-	-
1.50	S-46/2	SPT	9.0	13.1	SP	0.0	73.0	27.0	NP	NP	NP	1.66	1.61	2.8	0.6	24.0	-	-	2.42
3.00	S-46/3	SPT	11.0	13.5	SP	0.0	94.0	6.0	NP	NP	NP	-	-	3.2	-	-	-	-	-
4.50	S-46/4	SPT	13.0	14.2	SP	-	-	-	NP	NP	NP	-	-	-	-	-	-	-	-
6.00	S-46/5	SPT	16.0	15.5	SP	0.0	95.0	5.0	NP	NP	NP	1.72	1.64	4.8	-	29.0	-	-	2.48
7.50	S-46/6	SPT	17.0	15.3	SP	-	-	-	NP	NP	NP	-	-	-	-	-	-	-	-
9.00	S-46/7	SPT	21.0	16.5	SP	0.0	94.0	6.0	NP	NP	NP	1.77	1.67	5.9	-	-	-	-	-
10.50	S-46/8	SPT	24.0	17.2	SP	-	-	-	NP	NP	NP	-	-	-	-	-	-	-	-
12.00	S-46/9	SPT	27.0	17.8	SP	0.0	93.0	7.0	NP	NP	NP	-	-	7.5	-	32.0	-	-	-
13.50	S-46/10	SPT	31.0	18.7	SP	-	-	-	NP	NP	NP	-	-	-	-	-	-	-	-

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PROJECT :- GEOTECHNICAL INVESTIGATION REPORT FOR REDEVELOPMENT OF BOTANICAL GARDEN OF INDIAN REPUBLIC NOIDA.	STARTING DEPTH	0.0 M	WATER TABLE DEPTH
CLIENT :-EXECUTIVE ENGINEER (P) NOIDA CENTRAL DIVISION CPWD, NEW DELHI	TERMINATION DEPTH	40.0 M	14.0 M

BORE LOG SHEET

Sample					Symbolic representation	Grain Size Analysis			Atterberg limit			Density		Moisture Content (%)	Shear Parameters				Specific Gravity
Depth (m)	Sample No	Sample Type	Observed N-Value	Corrected N-value		Gravel (%)	Sand (%)	Silt Clay (%)	Liquid limit (%)	Plastic Limit (%)	Plasticity Index	Bulk Density (gm/cc)	Dry Density (gm/cc)		Cohesion, c (t/m2)	Angle of Internal Friction,	Coefficient of consolidation, Cc	Void Ratio, eo	
15.00	S-46/11	SPT	33.0	18.9	SP	0.0	91.0	9.0	NP	NP	NP	1.85	1.63	13.8	-	-	-	-	-
16.00	S-46/12	SPT	40.0	20.6	CL	0.0	7.0	93.0	-	-	-	-	-	14.9	-	-	-	-	-
18.00	S-46/13	SPT	42.0	20.7	CL	-	-	-	30.2	19.9	10.3	1.92	1.66	15.8	-	-	0.18	0.88	2.32
19.50	S-46/14	SPT	50.0	22.5	CL	0.0	3.0	97.0	-	-	-	-	-	-	-	-	-	-	-
21.00	S-46/15	SPT	68.0	27.1	CL	-	-	-	-	-	-	-	-	16.9	-	-	-	-	-
22.50	S-46/16	SPT	73.0	27.7	CL	0.0	21.0	79.0	-	-	-	-	-	-	-	-	0.20	0.92	-
24.00	S-46/17	SPT	81.0	29.0	SP	0.0	82.0	18.0	-	-	-	-	-	18.0	-	-	-	-	2.41
25.50	S-46/18	SPT	87.0	29.7	SP	-	-	-	NP	NP	NP	2.13	1.79	19.2	-	-	-	-	-
27.00	S-46/19	SPT	94.0	30.6	SP	-	-	-	NP	NP	NP	-	-	-	-	-	-	-	-
28.50	S-46/20	SPT	96.0	30.7	SP	0.0	89.0	11.0	NP	NP	NP	-	-	19.3	-	-	-	-	-

SOIGNE ENGINEERING CONSULTANTS SCF 23, MM, Manimajra, Chandigarh email: soigneconsultants@gmail.com	BOREHOLE	LOCATION	JOB NO.	PAGE NO
	46	N-3161379.55 E-727896.81	GT-1997	

PROJECT :- GEOTECHNICAL INVESTIGATION REPORT FOR REDEVELOPMENT OF BOTANICAL GARDEN OF INDIAN REPUBLIC NOIDA.	STARTING DEPTH	0.0 M	WATER TABLE DEPTH
CLIENT :-EXECUTIVE ENGINEER (P) NOIDA CENTRAL DIVISION CPWD, NEW DELHI	TERMINATION DEPTH	40.0 M	14.0 M

BORE LOG SHEET

Sample					Symbolic representation	Grain Size Analysis			Atterberg limit			Density		Moisture Content (%)	Shear Parameters				Specific Gravity
Depth (m)	Sample No	Sample Type	Observed N-Value	Corrected N-value		Gravel (%)	Sand (%)	Silt Clay (%)	Liquid limit (%)	Plastic Limit (%)	Plasticity Index	Bulk Density (gm/cc)	Dry Density (gm/cc)		Cohesion, c (t/m2)	Angle of Internal Friction,	Coefficent of consolidation, Cc	Void Ratio, eo	
30.00	S-46/21	SPT	99.0	29.7	SP	-	-	-	NP	NP	NP	-	-	-	-	-	-	-	-
31.00	S-46/22	SPT	REFUSAL		SP	0.0	93.0	7.0	NP	NP	NP	2.18	-	19.4	-	-	-	-	2.47
33.00	S-46/23	SPT	REFUSAL		SP	-	-	-	NP	NP	NP	-	-	-	-	-	-	-	-
34.50	S-46/24	SPT	REFUSAL		SP	0.0	95.0	5.0	NP	NP	NP	2.22	1.85	19.9	-	-	-	-	-
36.00	S-46/25	SPT	REFUSAL		SP	-	-	-	NP	NP	NP	-	-	-	-	-	-	-	-
37.50	S-46/26	SPT	REFUSAL		SP	0.0	94.0	6.0	NP	NP	NP	2.28	1.90	20.0	-	-	-	-	2.47
39.00	S-46/27	SPT	REFUSAL		CL	0.0	19.0	81.0	-	-	-	-	-	-	-	-	-	-	-
40.00	S-46/28	SPT	REFUSAL		CL	0.0	15.0	85.0	-	-	-	-	-	20.4	-	-	-	-	-