BH8	45	12.00	1	17.14	11.05	4.99
	50		1	19.74	12.60	6.16
	60		1	25.38	15.89	8.87
BH 8	45	13.00	1	19.47	12.95	4.99
	50		1	22.33	14.74	6.16
	60		1	28.49	18.54	8.87
	45	15.00	1	24.83	17.25	4.99
	50		1	25.47	15.33	6.16
	60		1	35.73	19.39	8.87
BH9	45	8.00	1	14.58	6.99	4.99
	50		1	17.42	7.97	6.16
	60		1	23.21	10.06	8.87
	45	9.00	1	16.06	8.29	4.99
	50		1	19.70	9.45	6.16
	60		1	27.00	11.90	8.87
	45	12.0	1	21.89	13.17	4.99
	50		1	26.18	14.95	6.16
	60		1	36.58	18.72	8.87
	45	14.0	1	26.92	17.24	4.99
	50		1	31.77	19.53	6.16
	60		1	43.28	24.36	8.87
	45	15.0	1	29.77	19.51	4.99
	50		1	34.94	22.09	6.16
	60		1	47.09	27.50	8.87
	45	7.00	1	13.65	6.63	4.99
	50		1	15.98	7.55	6.16
	60		1	21.18	9.48	8.87
	45	8.00	1	14.88	7.75	4.99
	50		1	18.61	8.82	6.16
	60		1	24.63	11.08	8.87
	45	10.0	1	18.03	10.48	4.99
	50		1	19.24	9.41	6.16

BH 10	60		1	24.63	11.92	8.87
	45	12.0	1	22.85	13.85	4.99
	50		1	19.24	10.00	6.16
	60		1	28.25	12.77	8.87
	45	14.0	1	27.06	17.88	4.99
	50		1	19.24	10.58	6.16
	60		1	28.25	13.62	8.87
	45	15.0	1	30.66	20.14	4.99
	50		1	19.24	10.88	6.16
	60		1	28.25	14.04	8.87
BH 12	45	10.0	1	20.63	10.13	4.99
	50		1	25.39	11.52	6.16
	60		1	37.32	14.46	8.87
	45	11.0	1	22.69	11.83	4.99
	50		1	27.67	13.44	6.16
	60		1	40.06	16.84	8.87
	45	14.0	1	30.48	18.11	4.99
	50		1	36.33	20.51	6.16
	60		1	50.45	25.53	8.87
	45	15.0	1	33.62	20.60	4.99
	50		1	39.82	23.30	6.16
	60		1	54.64	28.95	8.87
BH 13	45	8.00	1	12.61	7.94	4.99
	50		1	14.49	9.03	6.16
	60		1	18.52	11.33	8.87
	45	9.00	1	14.08	9.22	4.99
	50		1	16.11	10.48	6.16
	60		1	20.47	13.14	8.87
	45	10.0	1	15.54	10.50	4.99
	50		1	17.74	11.94	6.16
	60		1	22.42	14.96	8.87
	45	12.0	1	18.46	13.07	4.99
	50		1	20.99	14.85	6.16

	60		1	26.32	18.59	8.87
	45	14.0	1	21.39	15.64	4.99
	50		1	24.24	17.76	6.16
	60		1	30.22	22.23	8.87
	45	15.00	1	22.85	16.92	4.99
	50		1	25.87	19.21	6.16
	60		1	32.17	24.05	8.87
BH 14	45	14.0	1	19.94	15.99	4.99
	50		1	22.39	18.15	6.16
	60		1	27.43	22.70	8.87
	45	15.0	1	21.44	17.31	4.99
	50		1	24.06	19.64	6.16
	60		1	29.43	24.56	8.87
BH 15	45	8.0	1	17.72	7.57	4.99
	50		1	22.16	8.62	6.16
	60		1	33.44	10.84	8.87
	45	9.0	1	19.28	8.92	4.99
	50		1	23.89	10.15	6.16
	60		1	33.11	12.74	8.87
	45	10.0	1	21.11	10.47	4.99
	50		1	25.92	11.90	6.16
	60		1	37.96	14.91	8.87
	45	12.0	1	25.59	14.14	4.99
	50		1	30.89	16.04	6.16
	60		1	43.92	20.02	8.87
	45	14.0	1	31.15	18.59	4.99
	50		1	37.07	21.04	6.16
	60		1	51.34	26.17	8.87
	45	15.0	1	34.34	21.21	4.99
	50		1	40.62	23.86	6.16
	60		1	55.59	29.63	8.87
	45	10.0	1	14.64	11.25	4.99
	50		1	16.50	12.77	6.16

	60		1	20.36	15.96	8.87
	45		1	16.24	12.63	4.99
	50	11.0	1	18.27	14.33	6.16
	60		1	22.49	17.90	8.87
BH 16	45		1	17.83	14.04	4.99
	50	12.0	1	20.04	15.89	6.16
	60		1	24.61	19.84	8.87
	45		1	21.02	16.76	4.99
	50	14.0	1	23.59	19.01	6.16
	60		1	28.86	23.73	8.87
	45		1	22.61	18.14	4.99
	50	15.0	1	25.36	20.57	6.16
	60		1	30.99	25.67	8.87

10.0 CONCLUSION: Safe bearing capacities of soil as well as pile load capacities are shown in above Tables.

BORE LOG CUM LABORATORY TEST RESULT

Name of Project : GEOTECHNICAL INVESTIGATION WORK FOR BOUNDARY WALL & SITE DEVELOPMENT FOR COMPRESSOR STATION FOR NORTH -EAST NATURAL GAS GRID PROJECT.

Boring method: Auger & wash boring | Boring dia: 150mm | Date Commenced : 16-05-2022 | Date completed : 16-05-2022

BH:01 | DEPTH OF WATER TABLE=0.15M From EGL

Depth in meters below reference	Types of Sample	Observed N-Value	Corrected N-Value	Group Symbol	Visual description of soil	%Weather Rock	% Gravel > 4.75 mm	% Sand 4.75-0.075 mm	% Silt and Clay <0.075mm	Field density, gms/cm³	Dry density, gms/cm3	Specific Gravity	Void Ratio	Natural moisture content	Unconfined compressive Strength (Kg/cm²)	Cohesion 'c' Kg/cm²	Angle of shearing resistance (Φ°)	Compression Index Cc	LL%	PL%	PI%
0.50-0.95	P	5	5	CI	Brownish silty CLAY																
1.0	U				1.10M				100	1.80		2.64				0.33	7				
1.50-1.95	P	7	7	SC	Grayish SANDY Clay																
2	U				2.00M			80	20	1.88	1.52	2.64	0.73	23.5		0.47	7	0.14	33.50	24.05	9.45
3.0-3.45	P	2	2	CI	Grayish silty CLAY																
3.5	U								100	1.60	1.25	2.64	1.12	28.5		0.13	8	0.26	38.50	25.55	12.95
4.5-4.95	P	1	1																		
5	U								100												
6.0-6.45	P	3	3																		
6.5	U								100	1.68		2.64				0.20	8				
7.5-7.95	P	15	15																		
8	U				7.60M				100	2.05		2.66				0.98	7				
9.0-9.45	P	26	26	SC	Grayish SANDY Clay																
9.5	U				9.40M			35	65	2.16		2.66			3.46	1.73					
10.5-10.95	P	29	19	SP	Grayish fine SAND																
11	D				10.60M			100		1.89		2.66					33				
12.00-12.45	P	35	27	SW	Grayish fine to medium SAND																
12.5	D							100		2.12		2.67					35				
13.5-13.95	P	44	33																		
14	D							100													
15.00-15.45	P	50	36																		
15.5	D				15.50M			100		2.25		2.67					37				

U: Undisturbed Sample:: D: Disturbed Sample:: P: Standard Penetration test:: EGL: Existing Ground Level :: R : Refusal N>100, NP: Non plastic

BORE LOG CUM LABORATORY TEST RESULT

Name of Project : GEOTECHNICAL INVESTIGATION WORK FOR BOUNDARY WALL & SITE DEVELOPMENT FOR COMPRESSOR STATION FOR NORTH -EAST NATURAL GAS GRID PROJECT.

Boring method: Auger & wash boring | Boring dia: 150mm | Date Commenced : 17-05-2022 | Date completed : 17-05-2022

BH:02 | DEPTH OF WATER TABLE=0.16M From EGL

Depth in meters below reference	Types of Sample	Observed N-Value	Corrected N-Value	Group Symbol	Visual description of soil	%Weather Rock	% Gravel > 4.75 mm	% Sand 4.75-0.075 mm	% Silt and Clay <0.075mm	Field density, gms/cm³	Dry density, gms/cm3	Specific Gravity	Void Ratio	Natural moisture content	Unconfined compressive Strength (Kg/cm²)	Cohesion 'c' Kg/cm²	Angle of shearing resistance (Φ°)	Compression Index Cc	LL%	PL%	PI%
0.00-0.60					Brownish silty CLAY 0.60M																
0.50-0.95	P	3	3		Grayish SANDY Clay																
1.0	U							35	65	1.68		2.64				0.20	7				
1.50-1.95	P	7	7	CL																	
2	U							35	65	1.88	1.52	2.65	0.74	23.56		0.47	7	0.14	33.50	24.05	9.45
3.0-3.45	P	6	6																		
3.5	U				3.10M			40	60	1.84	1.48	2.65	0.79	24.5		0.40	8	0.16	34.50	24.35	10.15
4.5-4.95	P	5	5		Grayish silty CLAY																
5	U			CL					100												
6.0-6.45	P	6	6																		
6.5	U				6.60M				100	1.84		2.64				0.39	7				
6.60-7.40					Grayish SANDY Clay 7.40M																
7.5-7.95	P	15	15		Grayish Brown silty CLAY																
8	U			CL					100												
9.0-9.45	P	6	6																		
9.5	U				9.30M				100	1.84		2.64				0.40	9				
10.5-10.95	P	32	20		Grayish fine to medium SAND																
11	D							100													
12.00-12.45	P	36	27																		
12.5	D			SW				100		2.13		2.67					35				
13.5-13.95	P	46	34																		
14	D							100		2.21		2.67					36				
15.00-15.45	P	49	35																		
15.5	D				15.50M			100		2.23		2.67					37				

RELIANT FOUNDATIONS PVT. LTD. GWL-35

2.2

BORE LOG CUM LABORATORY TEST RESULT

Name of Project :GEOTECHNICAL INVESTIGATION WORK FOR BOUNDARY WALL & SITE DEVELOPMENT FOR COMPRESSOR STATION FOR NORTH -EAST NATURAL GAS GRID PROJECT.

Boring method: Auger & wash boring | Boring dia: 150mm | Date Commenced : 23-05-2022 | Date completed : 23-05-2022

BH:03 | DEPTH OF WATER TABLE=0.12M From EGL

Depth in meters below reference	Types of Sample	Observed N-Value	Corrected N-Value	Group Symbol	Visual description of soil	%Weather Rock	% Gravel > 4.75 mm	% Sand 4.75-0.075 mm	% Silt and Clay <0.075mm	Field density, gms/cm³	Dry density, gms/cm3	Specific Gravity	Void Ratio	Natural moisture content	Unconfined compressive Strength (Kg/cm²)	Cohesion 'c' Kg/cm²	Angle of shearing resistance (Φ°)	Compression Index Cc	LL%	PL%	PI%
0.50-0.95	P	2	2	CL	Grayish and brownish silty CLAY with fine SAND.																
1.0	U							15	85	1.60		2.64				0.13	7				
1.50-1.95	P	5	5																		
2	U				2.80M			20	80	1.80	1.43	2.64	0.84	25.5		0.33	7	0.17	35.50	24.65	10.85
3.0-3.45	P	4	5	SP	Grayish fine SAND																
3.5	D				4.20M			100		1.49		2.64					29				
4.5-4.95	P	8	8	CL	Grayish silty CLAY.																
5	U								100												
6.0-6.45	P	10	10																		
6.5	U								100	1.96		2.65				0.67	8				
7.5-7.95	P	12	12																		
8	U								100	2.00		2.65				0.80	7				
9.0-9.45	P	13	13																		
9.5	U				10.20M				100	2.02		2.65			1.74	0.87					
10.5-10.95	P	16	14	SW	Grayish fine to coarse SAND.																
11	D							100		1.86		2.65					31				
12.00-12.45	P	22	16																		
12.5	D							100		1.94		2.66					32				
13.5-13.95	P	26	18																		
14	D							100													
15.00-15.45	P	32	20																		
15.5	D				15.50M			100		2.09		2.67					33				

U: Undisturbed Sample:: D: Disturbed Sample:: P: Standard Penetration test:: EGL: Existing Ground Level :: R : Refusal N>100, NP: Non plastic

BORE LOG CUM LABORATORY TEST RESULT

Name of Project : GEOTECHNICAL INVESTIGATION WORK FOR BOUNDARY WALL & SITE DEVELOPMENT FOR COMPRESSOR STATION FOR NORTH -EAST NATURAL GAS GRID PROJECT.

Boring method: Auger & wash boring | Boring dia: 150mm | Date Commenced : 18-05-2022 | Date completed : 18-05-2022

BH:04 | DEPTH OF WATER TABLE=0.14M From EGL

Depth in meters below reference	Types of Sample	Observed N-Value	Corrected N-Value	Group Symbol	Visual description of soil	%Weather Rock	% Gravel > 4.75 mm	% Sand 4.75-0.075 mm	% Silt and Clay <0.075mm	Field density, gms/cm³	Dry density, gms/cm3	Specific Gravity	Void Ratio	Natural moisture content	Unconfined compressive Strength (Kg/cm²)	Cohesion 'c' Kg/cm²	Angle of shearing resistance (Φ°)	Compression Index Cc	LL%	PL%	PI%
0.50-0.95	P	4	4	CL	Grayish brown silty CLAY																
1.0	U								100	1.76		2.64				0.27	8			-	
1.50-1.95	P	5	5																		
2	U								100	1.80	1.43	2.64	0.84	25.5		0.33	7	0.17	35.25	24.58	10.67
3.0-3.45	P	7	7																		
3.5	U								100	1.88	1.52	2.64	0.73	23.5		0.47	8	0.14	33.65	24.10	9.55
4.5-4.95	P	6	6																		
5	U								100	1.84		2.64				0.40	8				
6.0-6.45	P	7	7																		
6.5	U								100	1.88		2.64				0.47	7				
7.5-7.95	P	8	8																		
8	U				8.10M				100												
8.00-8.90					Grayish fine SAND 8.90M																
9.0-9.45	P	R	R		Bouldery Strata.																
9.5	D						100			2.26		2.67					38				

U: Undisturbed Sample:: D: Disturbed Sample:: P: Standard Penetration test:: EGL: Existing Ground Level :: R : Refusal N>100, NP: Non plastic

2.4

BORE LOG CUM LABORATORY TEST RESULT

Name of Project : GEOTECHNICAL INVESTIGATION WORK FOR BOUNDARY WALL & SITE DEVELOPMENT FOR COMPRESSOR STATION FOR NORTH -EAST NATURAL GAS GRID PROJECT.

Boring method: Auger & wash boring | Boring dia: 150mm | Date Commenced : 18-05-2022 | Date completed : 18-05-2022

BH:05 | DEPTH OF WATER TABLE=0.15M From EGL

Depth in meters below reference	Types of Sample	Observed N-Value	Corrected N-Value	Group Symbol	Visual description of soil	%Weather Rock	% Gravel > 4.75 mm	% Sand 4.75-0.075 mm	% Silt and Clay <0.075mm	Field density, gms/cm³	Dry density, gms/cm3	Specific Gravity	Void Ratio	Natural moisture content	Unconfined compressive Strength (Kg/cm²)	Cohesion 'c' Kg/cm²	Angle of shearing resistance (Φ°)	Compression Index Cc	LL%	PL%	PI%
0.00-0.60					Grayish silty CLAY 0.60M																
0.50-0.95	P	5	5	CL	Brownish SANDY CLAY																
1.0	U				1.60M			75	25												
1.50-1.95	P	6	6		Grayish silty CLAY																
2	U				3.10M				100	1.84	1.48	2.64	0.79	24.52		0.40	7	0.15	34.52	24.36	10.16
3.0-3.45	P	8	8	SC	Brownish SANDY CLAY																
3.5	U				3.60M			35	65	1.92	1.57	2.64	0.68	22.35		0.48	11	0.12	32.33	23.70	8.63
3.60-4.10					Grayish silty CLAY. 4.10M																
4.5-4.95	P	4	4		Brownish SANDY CLAY																
5	U							40	60	1.60		2.64				0.25	10				
6.0-6.45	P	6	6																		
6.5	U			SC				35	65	1.84		2.64				0.35	11				
7.5-7.95	P	7	7																		
8	U				8.10M			30	70												
9.0-9.45	P	39	33		Grayish fine to medium SAND																
9.5	D							100		2.15		2.67					36				
10.5-10.95	P	40	33	SW																	
11	D							100													
12.00-12.45	P	45	35																		
12.5	D				12.60M			100		2.20		2.67					37				
13.40-13.40					SAND with ROCK 13.40M																
13.5-13.95	P		45	G+V	Hard ROCK																
14	D				13.50M		100			2.26		2.67					39				

U: Undisturbed Sample:: D: Disturbed Sample:: P: Standard Penetration test:: EGL: Existing Ground Level :: R : Refusal N>100, NP: Non plastic

BORE LOG CUM LABORATORY TEST RESULT

Name of Project : GEOTECHNICAL INVESTIGATION WORK FOR BOUNDARY WALL & SITE DEVELOPMENT FOR COMPRESSOR STATION FOR NORTH -EAST NATURAL GAS GRID PROJECT.

Boring method: Auger & wash boring	Boring dia: 150mm	Date Commenced : 21-05-2022	Date completed : 21-05-2022
BH:06		DEPTH OF WATER TABLE=0.18M From EGL	

Depth in meters below reference	Types of Sample	Observed N-Value	Corrected N-Value	Group Symbol	Visual description of soil	%Weather Rock	% Gravel > 4.75 mm	% Sand 4.75-0.075 mm	% Silt and Clay <0.075mm	Field density, gms/cm³	Dry density, gms/cm3	Specific Gravity	Void Ratio	Natural moisture content	Unconfined compressive Strength (Kg/cm²)	Cohesion 'c' Kg/cm²	Angle of shearing resistance (Φ')	Compression Index Cc	LL%	PL%	PI%
0.50-95	P	3	3	CL	Grayish silty CLAY																
1.0	U								100	1.68		2.64				0.20	7				
1.50-1.95	P	5	5																		
2	U				2.80M				100	1.80	1.43	2.64	0.84	25.5		0.33	7	0.17	35.50	24.65	10.85
3.0-3.45	P	6	8	SP	Grayish fine SAND																
3.5	D							100		1.55		2.64					29				
4.5-4.95	P	8	10																		
5	D				5.80M			100													
6.0-6.45	P	11	11	CL	Brownish silty CLAY																
6.5	U				6.60M				100	1.98		2.65				0.73	7				
7.5-7.95	P	14	15	SP	Grayish fine SAND																
8	D							100													
9.0-9.45	P	15	15																		
9.5	D							100		1.84		2.65					31				
10.5-10.95	P	12	12																		
11	D							100		1.79		2.65					31				
12.00-12.45	P	16	15																		
12.5	D				12.80M			100		1.86		2.65					32				
13.5-13.95	P	19	19	CL	Grayish silty CLAY with fine SAND																
14	U							20	80												
15.00-15.45	P	13	13																		
15.5	U				15.50M			25	75	2.02		2.65			1.74	0.87					

U: Undisturbed Sample:: D: Disturbed Sample:: P: Standard Penetration test:: EGL: Existing Ground Level :: R : Refusal N>100, NP: Non plastic

BORE LOG CUM LABORATORY TEST RESULT

Name of Project : GEO-TECHNICAL INVESTIGATION WORK FOR PROPOSED CONSTRUCTION OF BOUNDARY WALL, NEGG PIPE LINE AT BARPALAHA, BEZERA ASSAM

Boring method: Auger & wash boring | Boring dia: 150mm | Date Commenced : 19-05-2022 | Date completed : 19-05-2022

BH:07 | DEPTH OF WATER TABLE=0.17M From EGL

Depth in meters below reference	Types of Sample	Observed N-Value	Corrected N-Value	Group Symbol	Visual description of soil	%Weather Rock	% Gravel > 4.75 mm	% Sand 4.75-0.075 mm	% Silt and Clay <0.075mm	Field density, gms/cm³	Dry density, gms/cm3	Specific Gravity	Void Ratio	Natural moisture content	Unconfined compressive Strength (Kg/cm²)	Cohesion 'c' Kg/cm²	Angle of shearing resistance (Φ')	Compression Index Cc	LL%	PL%	PI%
0.50-0.95	P	4	4	CL	Grayish silty CLAY																
1.0	U								100	1.76		2.64				0.27	7				
1.50-1.95	P	5	5																		
2	U				2.10M				100	1.80	1.43	2.64	0.84	25.5		0.33	7	0.17	35.50	24.65	10.85
2.0-2.90					Brownish SANDY CLAY 2.90M																
3.0-3.45	P	15	20	SP	Grayish fine SAND																
3.5	D							100		1.84		2.65					33				
4.5-4.95	P	19	19																		
5	D				4.60M			100													
6.0-6.45	P	12	12	SC	Brownish SANDY CLAY																
6.5	U				6.10M			45	55	2.00		2.65				0.70	13				
7.5-7.95	P	9	9	CL	Brownish silty CLAY																
8	U								100												
9.0-9.45	P	14	14																		
9.5	U				10.50M				100	2.04		2.65			1.86	0.93					
10.5-10.95	P	10	9	SW	Grayish fine to medium SAND																
11	D							100													
12.00-12.45	P	40	33																		
12.5	D							100		2.16		2.67					36				
13.5-13.95	P	45	36																		
14	D							100													
15.00-15.45	P	50	38																		
15.5	D				15.50M			100		2.24		2.67					38				

U: Undisturbed Sample:: D: Disturbed Sample:: P: Standard Penetration test:: EGL: Existing Ground Level :: R : Refusal N>100, NP: Non plastic

2.7

BORE LOG CUM LABORATORY TEST RESULT

Name of Project : GEOTECHNICAL INVESTIGATION WORK FOR BOUNDARY WALL & SITE DEVELOPMENT FOR COMPRESSOR STATION FOR NORTH -EAST NATURAL GAS GRID PROJECT.

Boring method: Auger & wash boring	Boring dia: 150mm	Date Commenced : 20-05-2022	Date completed : 20-05-2022
BH:08		DEPTH OF WATER TABLE=0.18M From EGL	

Depth in meters below reference	Types of Sample	Observed N-Value	Corrected N-Value	Group Symbol	Visual description of soil	%Weather Rock	% Gravel > 4.75 mm	% Sand 4.75-0.075 mm	% Silt and Clay <0.075mm	Field density, gms/cm³	Dry density, gms/cm3	Specific Gravity	Void Ratio	Natural moisture content	Unconfined compressive Strength (Kg/cm²)	Cohesion 'c' Kg/cm²	Angle of shearing resistance (Φ')	Compression Index Cc	LL%	PL%	PI%
0.50-0.95	P	3	3		Grayish silty CLAY																
1	U			CI					100												
1.50-1.95	P	3	3																		
2	U				2.90M				100	1.68	1.32	2.64	1.00	27.45		0.20	7	0.22	37.46	25.24	12.22
3.0-3.45	P	9	9	SC	Grayish SANDY CLAY																
3.5	U				3.70M			35	65	1.94	1.60	2.64	0.65	21.34		0.50	10	0.11	31.54	23.46	8.08
4.5-4.95	P	4	4		Grayish Brown silty CLAY																
5	U								100												
6.0-6.45	P	4	4																		
6.5	U								100	1.76		2.65				0.27	7				
7.5-7.95	P	7	7	CL																	
8	U								100												
9.0-9.45	P	7	7																		
9.5	U								100	1.88		2.65				0.47	8				
10.5-10.95	P	8	8																		
11	U				11.90M				100												
12.00-12.45	P	14	11		Grayish fine SAND																
12.5	D							100		1.82		2.67					30				
13.5-13.95	P	17	14	SP																	
14	D							100													
15.00-15.45	P	18	14																		
15.5	D				15.50M			100		1.89		2.67					31				

U: Undisturbed Sample:: D: Disturbed Sample:: P: Standard Penetration test:: EGL: Existing Ground Level :: R : Refusal N>100, NP: Non plastic

2-8

BORE LOG CUM LABORATORY TEST RESULT

Name of Project : GEO-TECHNICAL INVESTIGATION WORK FOR PROPOSED CONSTRUCTION OF BOUNDARY WALL, NEGG PIPE LINE AT BARPALAHA, BEZERA ASSAM

Boring method: Auger & wash boring | Boring dia: 150mm | Date Commenced : 20-05-2022 | Date completed : 20-05-2022

BH:09 | DEPTH OF WATER TABLE=0.10M From EGL

Depth in meters below reference	Types of Sample	Observed N-Value	Corrected N-Value	Group Symbol	Visual description of soil	%Weather Rock	% Gravel > 4.75 mm	% Sand 4.75-0.075 mm	% Silt and Clay <0.075mm	Field density, gms/cm³	Dry density, gms/cm3	Specific Gravity	Void Ratio	Natural moisture content	Unconfined compressive Strength (Kg/cm²)	Cohesion 'c' Kg/cm²	Angle of shearing resistance (Φ°)	Compression Index Cc	LL%	PL%	PI%
0.50-0.95	P	5	5	CL	Grayish silty CLAY				10	1.						0.33	7				
1.0	U																				
1.50-1.95	P	7	7																		
2	U				2.00M				100	1.88	1.52	2.64	0.74	23.56		0.47	7	0.14	33.64	24.09	9.55
3.0-3.45	P	6	6		Grayish silty CLAY with fine SAND																
3.5	U							20	80	1.84	1.48	2.64	0.79	24.65		0.40	7	0.16	34.39	24.32	10.07
4.5-4.95	P	7	7																		
5	U				5.80M			25	75												
6.0-6.45	P	10	10	SW	Grayish fine to medium SAND																
6.5	D							100		1.76		2.65					30				
7.5-7.95	P	11	11																		
8	D							100													
9.0-9.45	P	14	13																		
9.5	D							100		1.82		2.65					31				
10.5-10.95	P	20	17																		
11	D							100													
12.00-12.45	P	28	20																		
12.5	D							100		2.03		2.66					33				
13.5-13.95	P	31	20																		
14	D							100													
15.00-15.45	P	35	21																		
15.5	D				15.50M			100		2.12		2.67					33				

U: Undisturbed Sample:: D: Disturbed Sample:: P: Standard Penetration test:: EGL: Existing Ground Level :: R : Refusal N>100, NP: Non plastic

2.9