



RAJADHANI LABS

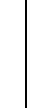
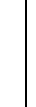
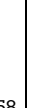
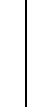


LABORATORY TEST RESULTS

PROJECT NAME : GEO-TECHNICAL INVESTIGATION FOR PROPOSED CONSTRUCTION OF BUILDINGS FOR AMARAVATI LOCAL HEAD OFFICE AND OTHER OUTFITS AT AMARAVATI ANDHRAPRADESH.

BORE HOLE NO : 3 BORE HOLE CODE : NO.OF FLOORS : 3 Cellars+15 +5 Future F

GROUND LEVELS : 100.00 m Ref TYPE OF STRUCTURE : LH OFFICE BUILDING TERMINATION DEPTH : 40.00 m

FIELD INVESTIGATION DATA							LABORATORY TEST IN SOIL															TESTS IN ROCK																																							
Elevation(m)	Nature of sampling	Depth below ref.level	SPT		Hatching	Description of Strata	Layer Thickness (m)	IS Classification	% Gravel	% Sand	% Silt	% Clay	N.M.C. (%)	Natural Density (t/m³)	Dry Density (t/m³)	Specific Gravity	Atterberg Limits			Direct/Tri-axial Shear Test			UCS (kg/cm²)	Consolidation Test		%Core Recovery	% R Q D	Point Load Test	UCS (Mpa)	Water Absorption & Porosity(%)	Specific Gravity	Density (t/m³)	Modulus of Elasticity(Gpa)																												
			Depth (m)	"N"Value													Liquid Limit (%)	Plastic Limit (%)	Plasticity Index(%)	Type of test	C (Kg/cm²)	φ (degree)		Cc	Void Ratio e _o																																				
100.0	SPT/DS	0.00	1.5	12		Very stiff brown sandy silt, medium plastic silty clay (CI)		CI	0.0	17.0	47.0	36.0	15.3	1.75	1.52	2.53	47.4	27.0	20.4	CD	0.48	5.56	0.96	-	-	-	-	-	-	-	-	-																													
99.5		0.50																																																											
99.0		1.00																																																											
98.5		1.50																																																											
98.0		2.00																																																											
97.5	2.50	3	16																																																										
97.0	3.00																																																												
96.5	3.50																																																												
96.0	4.00																																																												
95.5	4.50																																																												
95.0	5.00	4.5	17																																																										
94.5	5.50																																																												
94.0	6.00																																																												
93.5	6.50																																																												
93.0	7.00																																																												
92.5	SPT	7.50	7.5	20																																																									
92.0	8.00																																																												
91.5	8.50																																																												
91.0	UDS	9.00																															Very dense Grey fine Sand intermixed Silty Clay (SP-SM)																												
90.5		9.50																																																											
90.0		10.0																																																											

NOTES: SPT : STANDARD PENETRATION TEST N.M.C : NATURAL MOISTURE CONTENT RQD : ROCK QUALITY DESIGNTEGRATED DT : DIRECT SHEAR TEST

DS : DISTURBED SAMPLE C : CHOESION CR : CORE RECOVERY CD : Consolidated-Drained Triaxial Com

UDS : UNDISTURBED SAMPLE Φ : ANGLE OF INTERNAL FRICTION GW : GROUND WATER TABLE NO : NOT OPERATED



RAJADHANI LABS



LABORATORY TEST RESULTS

PROJECT NAME : GEO-TECHNICAL INVESTIGATION FOR PROPOSED CONSTRUCTION OF BUILDINGS FOR AMARAVATI LOCAL HEAD OFFICE AND OTHER OUTFITS AT AMARAVATI, ANDHRAPRADESH.

BORE HOLE NO : 3 BORE HOLE CODE : NO.OF FLOORS : 3 Cellars+15 +5 Future F

GROUND LEVELS : 100.00 m Ref TYPE OF STRUCTURE : LH OFFICE BUILDING TERMINATION DEPTH : 40.00 m

FIELD INVESTIGATION DATA							LABORATORY TEST IN SOIL															TESTS IN ROCK											
Elevation(m)	Nature of sampling	Depth below ref.level	SPT		Hatching	Description of Strata	Layer Thickness (m)	IS Classification	% Gravel	% Sand	% Silt	% Clay	N.M.C. (%)	Natural Density (t/m³)	Dry Density (t/m³)	Specific Gravity	Atterberg Limits			Direct/Tri-axial Shear Test			UCS (kg/cm²)	Consolidation Test		%Core Recovery	% R Q D	Point Load Test	UCS (Mpa)	Water Absorption & Porosity(%)	Specific Gravity	Density (t/m³)	Modulus of Elasticity(Gpa)
			Depth (m)	"N"Value													Liquid Limit (%)	Plastic Limit (%)	Plasticity Index(%)	Type of test	C (Kg/cm²)	φ (degree)		Cc	Void Ratio e₀								
90.0	SPT	10.00	10.5	22		Very dense Grey fine Sand intermixed Silty Clay (SP-SM)	10.50													CD	0.55	5.90	1.10	-	-	-	-	-	-	-	-	-	
89.5		10.50																															
89.0		11.00																															
88.5		11.50																															
88.0	UDS	12.00	13.5	25		Very stiff brown sandy silt, Medium plastic silty clay (CI)		CI	0.00	24.0	43.00	33.0	14.80	1.70	1.48	2.53	46.5	25.4	21.1							-	-	-	-	-	-	-	-
87.5	12.50																																
87.0	13.00																																
86.5	13.50																																
86.0	SPT	14.00	16.5	30																					-	-	-	-	-	-	-	-	
85.5		14.50																															
85.0		15.00																															
84.5		15.50																															
84.0	SPT	16.00	18	33																					-	-	-	-	-	-	-	-	
83.5		16.50																															
83.0		17.00																															
82.5		17.50																															
82.0	SPT	18.00	19.5	36																					-	-	-	-	-	-	-	-	
81.5		18.50																															
81.0		19.00																															
80.5		19.50																															
80.0		20.00																															

NOTES: SPT : STANDARD PENETRATION TEST N.M.C : NATURAL MOISTURE CONTENT RQD : ROCK QUALITY DESIGNTEGRATED DT : DIRECT SHEAR TEST

DS : DISTURBED SAMPLE C : CHOESION CR : CORE RECOVERY CD : Consolidated-Drained Triaxial Comp

UDS : UNDISTURBED SAMPLE Φ : ANGLE OF INTERNAL FRICTION GW : GROUND WATER TABLE NO : NOT OPERATED



RAJADHANI LABS



LABORATORY TEST RESULTS

PROJECT NAME : GEO-TECHNICAL INVESTIGATION FOR PROPOSED CONSTRUCTION OF BUILDINGS FOR AMARAVATI LOCAL HEAD OFFICE AND OTHER OUTFITS AT AMARAVATI ANDHRAPRADESH.

BORE HOLE NO : 3 BORE HOLE CODE : NO.OF FLOORS : 3 Cellars +15 +5 Future F.

GROUND LEVELS : 100.00 m Ref TYPE OF STRUCTURE : LH OFFICE BUILDING TERMINATION DEPTH : 40.00 m

Field Investigation Data							Laboratory Test in Soil															Tests in Rock													
Elevation(m)	Nature of sampling	Depth below ref.level	SPT		Hatching	Description of Strata	Layer Thickness (m)	IS Classification	% Gravel	% Sand	% Silt	% Clay	N.M.C. (%)	Natural Density (t/m³)	Dry Density (t/m³)	Specific Gravity	Atterberg Limits			Direct/Tri-axial Shear Test			UCS (kg/cm²)	Consolidation Test		%Core Recovery	% R Q D	Point Load Test	UCS (Mpa)	Water Absorption & Porosity(%)	Specific Gravity	Density (t/m³)	Modulus of Elasticity(Gpa)		
			Depth (m)	"N"Value													Liquid Limit (%)	Plastic Limit (%)	Plasticity Index(%)	Type of test	C (Kg/cm²)	φ (degree)		Cc	Void Ratio e₀										
80.0		20.00	22	35		Very stiff brown sandy silt, Medium plastic silty clay (CI)		CI	0.00	25.0	43.0	32.0	14.30	1.73	1.51	2.55	44.5	25.6	18.9	CD	0.57	8.45	1.14	-	-	-	-	-	-	-	-	-	-		
79.5		20.50																																	
79.0		21.00																																	
78.5	UDS	21.50																																	
78.0	SPT	22.00																																	
77.5		22.50	25	37				CI	0.00	18.0	46.0	36.0	14.20	1.75	1.53	46.5	24.7	21.8	CD	0.63	7.80	1.26	-	-	-	-	-	-	-	-	-	-	-	-	-
77.0		23.00																																	
76.5	UDS	23.50																																	
76.0		24.00																																	
75.5		24.50																																	
75.0	SPT	25.00	28	44		Highly Weathered Rock (HWR)	29.0		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9.00	-	-	-	-	-	-	-			
74.5		25.50																																	
74.0		26.00																																	
73.5	UDS	26.50																																	
73.0		27.00																																	
72.5		27.50	28	44		Highly Weathered Rock (HWR)	29.0		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9.00	-	-	-	-	-	-	-			
72.0	SPT	28.00																																	
71.5		28.50																																	
71.0		29.00																																	
70.5		29.50																																	
70.0		30.00																																	

NOTES: SPT : STANDARD PENETRATION TEST N.M.C : NATURAL MOISTURE CONTENT RQD : ROCK QUALITY DESIGNTEGRATED DT : DIRECT SHEAR TEST

DS : DISTURBED SAMPLE C : CHOESION CR : CORE RECOVERY TS : TRIAXIAL TEST

UDS : UNDISTURBED SAMPLE Φ : ANGLE OF INTERNAL FRICTION GW : GROUND WATER TABLE NO : NOT OPERATED



RAJADHANI LABS



LABORATORY TEST RESULTS

PROJECT NAME : GEO-TECHNICAL INVESTIGATION FOR PROPOSED CONSTRUCTION OF BUILDINGS FOR AMARAVATI LOCAL HEAD OFFICE AND OTHER OUTFITS AT AMARAVATI ANDHRAPRADESH.

BORE HOLE NO : 3 BORE HOLE CODE : NO.OF FLOORS : 3 Cellars+15 +5 Future F

GROUND LEVELS : 100.00 m Ref TYPE OF STRUCTURE : LH OFFICE BUILDING TERMINATION DEPTH : 40.00 m

FIELD INVESTIGATION DATA							LABORATORY TEST IN SOIL														TESTS IN ROCK														
Elevation(m)	Nature of sampling	Depth below ref.level	SPT		Hatching	Description of Strata	Layer Thickness (m)	IS Classification	% Gravel	% Sand	% Silt	% Clay	N.M.C. (%)	Natural Density (t/m³)	Dry Density (t/m³)	Specific Gravity	Atterberg Limits			Direct/Tri-axial Shear Test			UCS (kg/cm²)	Consolidation Test		%Core Recovery	% R Q D	Point Load Test	UCS (Mpa)	Water Absorption & Porosity(%)	Specific Gravity	Density (t/m³)	Modulus of Elasticity(Gpa)		
			Depth (m)	"N"Value													Liquid Limit (%)	Plastic Limit (%)	Plasticity Index(%)	Type of test	C (Kg/cm²)	φ (degree)		Cc	Void Ratio e _o										
70.0		30.00				Highly Weathered Rock (HWR)	33.0																												
69.5		30.50																																	
69.0		31.00									-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	13.0	-	18.5	-	0.67	-	-	-
68.5		31.50																																	
68.0		32.00									-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	28.0	11.0	-	19.1	-	-	2.35	-
67.5		32.50																																	
67.0		33.00				33.0																													
66.5		33.50				Moderately Weathered Rock (MWR)																													
66.0		34.00								-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-								
65.5		34.50																																	
65.0		35.00									-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-								
64.5		35.50																																	
64.0		36.00									-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-								
63.5		36.50																																	
63.0		37.00																																	
62.5		37.50																																	
62.0		38.00																																	
61.5		38.50																																	
61.0		39.00																																	
60.5		39.50																																	
60.0		40.00							40.0																										

NOTES: SPT : STANDARD PENETRATION TEST N.M.C : NATURAL MOISTURE CONTENT RQD : ROCK QUALITY DESIGNTEGRATED DT : DIRECT SHEAR TEST

DS : DISTURBED SAMPLE C : CHOESION CR : CORE RECOVERY CD : Consolidated-Drained Triaxial Com

UDS : UNDISTURBED SAMPLE Φ : ANGLE OF INTERNAL FRICTION GW : GROUND WATER TABLE NO : NOT OPERATED



RAJADHANI LABS

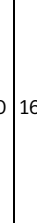
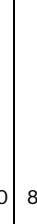
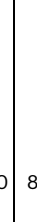


LABORATORY TEST RESULTS

PROJECT NAME : GEO-TECHNICAL INVESTIGATION FOR PROPOSED CONSTRUCTION OF BUILDINGS FOR AMARAVATI LOCAL HEAD OFFICE AND OTHER OUTFITS AT AMARAVATI, ANDHRAPRADESH.

BORE HOLE NO : 4 BORE HOLE CODE : NO.OF FLOORS : 3 Cellars+15 +5 Future F

GROUND LEVELS : 100.00 m Ref TYPE OF STRUCTURE : LH OFFICE BUILDING TERMINATION DEPTH : 40.00 m

FIELD INVESTIGATION DATA							LABORATORY TEST IN SOIL													TESTS IN ROCK													
Elevation(m)	Nature of sampling	Depth below ref.level	SPT		Hatching	Description of Strata	Layer Thickness (m)	IS Classification	% Gravel	% Sand	% Silt	% Clay	N.M.C. (%)	Natural Density (t/m³)	Dry Density (t/m³)	Specific Gravity	Atterberg Limits			Direct/Tri-axial Shear Test			UCS (kg/cm²)	Consolidation Test		%Core Recovery	% R Q D	Point Load Test	UCS (Mpa)	Water Absorption & Porosity(%)	Specific Gravity	Density (t/m³)	Modulus of Elasticity(Gpa)
			Depth (m)	"N"Value													Liquid Limit (%)	Plastic Limit (%)	Plasticity Index(%)	Type of test	C (Kg/cm²)	φ (degree)		Cc	Void Ratio e₀								
100.0	SPT/DS	0.00	1.5	13		Very stiff brown sandy silt, medium plastic silty clay (CI)	3.00	CI	0.0	23.0	45.0	32.0	16.30	1.71	1.47	2.55	46.8	27.0	19.8	CD	0.65	5.32	1.30	-	-	-	-	-	-	-	-	-	
99.5		0.50																															
99.0		1.00																															
98.5		1.50																															
98.0		2.00																															
97.5	2.50	3	15		Very dense grey Fine Sand(SP-SM)	SP-SM	0.00	89.0	11.0	0.00	8.50	1.79	1.65	2.58	NP	NP	NP	DT	0.02	27.4	-	-	-	-	-	-	-	-	-	-	-		
97.0	3.00																																
96.5	3.50																																
96.0	4.00																																
95.5	4.50																																
95.0	5.00	4.5	13		SP-SM	0.00	89.0	11.0	0.00	8.50	1.79	1.65	2.58	NP	NP	NP	DT	0.02	27.4	-	-	-	-	-	-	-	-	-	-	-	-		
94.5	5.50																																
94.0	6.00																																
93.5	6.50																																
93.0	7.00																																
92.5	7.50	7.5	32		SP-SM	0.00	92.0	8.00	0.00	8.20	1.81	1.67	NP	NP	NP	DT	0.0	28.6	-	-	-	-	-	-	-	-	-	-	-	-	-		
92.0	8.00																																
91.5	8.50																																
91.0	9.00																																
90.5	9.50																																
90.0	10.0																																

NOTES: SPT : STANDARD PENETRATION TEST N.M.C : NATURAL MOISTURE CONTENT RQD : ROCK QUALITY DESIGNTEGRATED DT : DIRECT SHEAR TEST

DS : DISTURBED SAMPLE C : CHOESION CR : CORE RECOVERY CD : Consolidated-Drained Triaxial Comp

UDS : UNDISTURBED SAMPLE Φ : ANGLE OF INTERNAL FRICTION GW : GROUND WATER TABLE NO : NOT OPERATED



RAJADHANI LABS



LABORATORY TEST RESULTS

PROJECT NAME : GEO-TECHNICAL INVESTIGATION FOR PROPOSED CONSTRUCTION OF BUILDINGS FOR AMARAVATI LOCAL HEAD OFFICE AND OTHER OUTFITS AT AMARAVATI, ANDHRAPRADESH.

BORE HOLE NO : 4 BORE HOLE CODE : NO.OF FLOORS : 3 Cellars+15 +5 Future F

GROUND LEVELS : 100.00 m Ref TYPE OF STRUCTURE : LH OFFICE BUILDING TERMINATION DEPTH : 40.00 m

Field Investigation Data							Laboratory Test in Soil														Tests in Rock												
Elevation(m)	Nature of sampling	Depth below ref.level	SPT		Hatching	Description of Strata	Layer Thickness (m)	IS Classification	% Gravel	% Sand	% Silt	% Clay	N.M.C. (%)	Natural Density (t/m³)	Dry Density (t/m³)	Specific Gravity	Atterberg Limits			Direct/Tri-axial Shear Test			UCS (kg/cm²)	Consolidation Test		%Core Recovery	% R Q D	Point Load Test	UCS (Mpa)	Water Absorption & Porosity(%)	Specific Gravity	Density (t/m³)	Modulus of Elasticity(Gpa)
			Depth (m)	"N"Value													Liquid Limit (%)	Plastic Limit (%)	Plasticity Index(%)	Type of test	C (Kg/cm²)	φ (degree)		Cc	Void Ratio e₀								
90.0	SPT	10.00	10.5	38		Very dense grey Fine Sand (SP-SM)		SP-SM	0.00	91.0	9.0	0.0	7.40	1.83	1.70	2.59	NP	NP	NP	DT	0.00	29.4	-	-	-	-	-	-	-	-	-	-	
89.5		10.50																															
89.0		11.00																															
88.5		11.50																															
88.0	SPT/DS	12.00	12	42		Very dense grey Fine Sand (SP-SM)	15.00	SP-SM	0.00	91.0	9.0	0.0	7.40	1.83	1.70	2.59	NP	NP	NP	DT	0.00	29.4	-	-	-	-	-	-	-	-	-	-	
87.5	12.50																																
87.0	13.00																																
86.5	13.50																																
86.0	SPT	14.00	13.5	50		Very dense grey Fine Sand (SP-SM)	15.00	SP-SM	0.00	91.0	9.0	0.0	7.40	1.83	1.70	2.59	NP	NP	NP	DT	0.00	29.4	-	-	-	-	-	-	-	-	-	-	
85.5	14.50																																
85.0	15.00																																
84.5	15.50																																
84.0	UDS	16.00	15	52		Very stiff brown sandy silt, Medium plastic silty clay (CI)		SP-SM	0.00	93.0	7.0	0.0	7.20	1.85	1.73	2.54	NP	NP	NP	DT	0.00	30.4	-	-	-	-	-	-	-	-	-	-	
83.5		16.50																															
83.0		17.00																															
82.5		17.50																															
82.0	SPT	18.00	18	31		Very stiff brown sandy silt, Medium plastic silty clay (CI)		CI	0.00	20.0	47.00	33.0	14.20	1.73	1.51	2.54	48.5	24.5	24.0	CD	0.55	7.50	1.10	-	-	-	-	-	-	-	-	-	
81.5	18.50																																
81.0	19.00																																
80.5	19.50																																
80.0		20.00	18	31		Very stiff brown sandy silt, Medium plastic silty clay (CI)		CI	0.00	22.0	48.00	30.0	14.00	1.75	1.54	2.57	47.5	25.4	22.1	CD	0.53	7.70	1.06	-	-	-	-	-	-	-	-	-	
	20.00																																

NOTES: SPT : STANDARD PENETRATION TEST N.M.C : NATURAL MOISTURE CONTENT RQD : ROCK QUALITY DESIGNTEGRATED DT : DIRECT SHEAR TEST

DS : DISTURBED SAMPLE C : CHOESION CR : CORE RECOVERY CD : Consolidated-Drained Triaxial Comp

UDS : UNDISTURBED SAMPLE Φ : ANGLE OF INTERNAL FRICTION GW : GROUND WATER TABLE NO : NOT OPERATED



RAJADHANI LABS

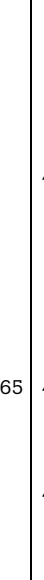
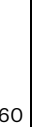


LABORATORY TEST RESULTS

PROJECT NAME : GEO-TECHNICAL INVESTIGATION FOR PROPOSED CONSTRUCTION OF BUILDINGS FOR AMARAVATI LOCAL HEAD OFFICE AND OTHER OUTFITS AT AMARAVATI ANDHRAPRADESH.

BORE HOLE NO : 4 BORE HOLE CODE : NO.OF FLOORS : 3 Cellars +15 + 5 Future F.

GROUND LEVELS : 100.00 m Ref TYPE OF STRUCTURE : LH OFFICE BUILDING TERMINATION DEPTH : 40.00 m

Field Investigation Data							Laboratory Test in Soil															Tests in Rock																																																													
Elevation(m)	Nature of sampling	Depth below ref.level	SPT		Hatching	Description of Strata	Layer Thickness (m)	IS Classification	% Gravel	% Sand	% Silt	% Clay	N.M.C. (%)	Natural Density (t/m³)	Dry Density (t/m³)	Specific Gravity	Atterberg Limits			Direct/Tri-axial Shear Test			UCS (kg/cm²)	Consolidation Test		%Core Recovery	% R Q D	Point Load Test	UCS (Mpa)	Water Absorption & Porosity(%)	Specific Gravity	Density (t/m³)	Modulus of Elasticity(Gpa)																																																		
			Depth (m)	N*Value													Liquid Limit (%)	Plastic Limit (%)	Plasticity Index(%)	Type of test	C (Kg/cm²)	φ (degree)		Cc	Void Ratio e₀																																																										
80.0	SPT	20.00	21	24		Very stiff brown sandy silt, Medium plastic silty clay (CI)		CI	0.00	19.0	49.0	32.0	13.40	1.77	1.56		48.4	25.3	23.1	CD	0.52	8.60	1.04	-	-	-	-	-	-	-	-	-																																																			
79.5		20.50																																																																																	
79.0		21.00																																																																																	
78.5		21.50																																																																																	
78.0	22.00																																																																																		
77.5	UDS	22.50	28	CI																													0.00	18.0	52.0	30.0	12.80	1.81	1.60	2.65	45.5	24.7	20.8	CD	0.49	8.80	0.98	-	-	-	-	-	-	-	-	-	-	-																									
77.0	23.00																																																																																		
76.5	23.50																																																																																		
76.0	24.00																																																																																		
75.5	24.50																																																																																		
75.0	25.00																																																																																		
74.5	UDS	25.50																																																																																	
74.0	SPT	26.00	33				CI	0.00																																																			94.0	6.00	0.00	7.40	1.92	1.79	2.60	NP	NP	NP	DT	0.0	32.5	-	-	-	-	-	-	-	-	-	-	-	-
73.5		26.50																																																																																	
73.0		27.00																																																																																	
72.5		27.50																																																																																	
72.0	28.00																																																																																		
71.5	28.50																																																																																		
71.0	29.00																																																																																		
70.5	29.50																																																																																		
70.0	SPT/DS	30.00	30	50		Residual Soil (or) Completely Weathered Rock (CWR)																																																																													

NOTES: SPT : STANDARD PENETRATION TEST N.M.C : NATURAL MOISTURE CONTENT RQD : ROCK QUALITY DESIGNTEGRATED DT : DIRECT SHEAR TEST

DS : DISTURBED SAMPLE C : CHOESION CR : CORE RECOVERY TS : TRIAXIAL TEST

UDS : UNDISTURBED SAMPLE Φ : ANGLE OF INTERNAL FRICTION GW : GROUND WATER TABLE NO : NOT OPERATED



RAJADHANI LABS



LABORATORY TEST RESULTS

PROJECT NAME : GEO-TECHNICAL INVESTIGATION FOR PROPOSED CONSTRUCTION OF BUILDINGS FOR AMARAVATI LOCAL HEAD OFFICE AND OTHER OUTFITS AT AMARAVATI ANDHRAPRADESH.

BORE HOLE NO : 4 BORE HOLE CODE : NO.OF FLOORS : 3 Cellars +15 +5 Future F.

GROUND LEVELS : 100.00 m Ref TYPE OF STRUCTURE : LH OFFICE BUILDING TERMINATION DEPTH : 40.00 m

FIELD INVESTIGATION DATA							LABORATORY TEST IN SOIL														TESTS IN ROCK												
Elevation(m)	Nature of sampling	Depth below ref.level	SPT		Hatching	Description of Strata	Layer Thickness (m)	IS Classification	% Gravel	% Sand	% Silt	% Clay	N.M.C. (%)	Natural Density (t/m³)	Dry Density (t/m³)	Specific Gravity	Atterberg Limits			Direct/Tri-axial Shear Test			UCS (kg/cm²)	Consolidation Test		%Core Recovery	% R Q D	Point Load Test	UCS (Mpa)	Water Absorption & Porosity(%)	Specific Gravity	Density (t/m³)	Modulus of Elasticity(Gpa)
			Depth (m)	"N"Value													Liquid Limit (%)	Plastic Limit (%)	Plasticity Index(%)	Type of test	C (Kg/cm²)	φ (degree)		Cc	Void Ratio e₀								
70.0	SPT	30.00	31	60		Residual Soil (or) Completely Weathered Rock (CWR)											NP	NP	NP	DT	0.00	33.5	-	-	-	-	-	-	-	-	-	-	-
69.5		30.50																															
69.0		31.00																															
68.5		31.50																															
68.0		32.00																															
67.5		32.50																															
67.0		33.00																															
66.5	33.50																																
66.0	SPT/DS	34.00	34	>100		Residual Soil (or) Completely Weathered Rock (CWR)			0.00	95.0	5.0	0.0	6.50	1.94	1.82	2.67	NP	NP	NP	DT	0.00	33.5	-	-	-	-	-	-	-	-	-	-	-
65.5	34.50																																
65.0	35.00																																
64.5	35.50																																
64.0	36.00																																
63.5	36.50																																
63.0	SPT/DS	37.00																															
62.5	37.50																																
62.0	38.00																																
61.5	38.50																																
61.0	39.00																																
60.5	39.50																																
60.0	SPT/DS	40.00	40	>100			40.0		0.00	95.0	5.00	0.00	5.50	1.96	1.86	2.71	NP	NP	NP	DT	0.0	35.5	-	-	-	-	-	-	-	-	-	-	-

NOTES: SPT : STANDARD PENETRATION TEST N.M.C : NATURAL MOISTURE CONTENT RQD : ROCK QUALITY DESIGNTEGRATED DT : DIRECT SHEAR TEST

DS : DISTURBED SAMPLE C : CHOESION CR : CORE RECOVERY CD : Consolidated-Drained Triaxial Com

UDS : UNDISTURBED SAMPLE Φ : ANGLE OF INTERNAL FRICTION GW : GROUND WATER TABLE NO : NOT OPERATED



RAJADHANI LABS



LABORATORY TEST RESULTS

PROJECT NAME : GEO-TECHNICAL INVESTIGATION FOR PROPOSED CONSTRUCTION OF BUILDINGS FOR AMARAVATI LOCAL HEAD OFFICE AND OTHER OUTFITS AT AMARAVATI, ANDHRAPRADESH.

BORE HOLE NO : 5 BORE HOLE CODE : NO.OF FLOORS : 3 Cellars+15 +5 Future F

GROUND LEVELS : 100.00 m Ref TYPE OF STRUCTURE : LH OFFICE BUILDING TERMINATION DEPTH : 40.00 m

FIELD INVESTIGATION DATA							LABORATORY TEST IN SOIL															TESTS IN ROCK											
Elevation(m)	Nature of sampling	Depth below ref.level	SPT		Hatching	Description of Strata	Layerv Thickness (m)	IS Classification	% Gravel	% Sand	% Silt	% Clay	N.M.C. (%)	Natural Density (t/m³)	Dry Density (t/m³)	Specific Gravity	Atterberg Limits			Direct/Tri-axial Shear Test			UCS (kg/cm²)	Consolidation Test		%Core Recovery	% R Q D	Point Load Test	UCS (Mpa)	Water Absorption & Porocity(%)	Specific Gravity	Density (t/m³)	Modulus of Elasticity(Gpa)
			Depth (m)	"N"Value													Liquid Limit (%)	Plastic Limit (%)	Plasticity Index(%)	Type of test	C (Kg/cm²)	φ (degree)		Cc	Void Ratio e₀								
90.0	SPT	10.00	10.5	43		Very dense grey Fine Sand (SP-SM)		SP-SM	0.00	94.0	6.0	0.0	7.80	1.84	1.71	2.60	NP	NP	NP	DT	0.00	29.30	-	-	-	-	-	-	-	-	-	-	
89.5		10.50																															
89.0		11.00																															
88.5		11.50																															
88.0	SPT/DS	12.00	12	43		Very stiff brown sandy silt, Medium plastic silty clay (CI)	12.00		0.00	28.0	43.0	29.0	13.20	1.74	1.54	2.54	46.8	23.5	23.3				-	-	-	-	-	-	-	-	-	-	
87.5	12.50																																
87.0	13.00																																
86.5	SPT	13.50	13.5	21																													
86.0	14.00																																
85.5	14.50																																
85.0	SPT/DS	15.00	15	22																													
84.5	15.50																																
84.0	16.00																																
83.5	UDS	16.50	18	36																													
83.0	17.00																																
82.5	17.50																																
82.0	SPT	18.00																															
81.5	18.50																																
81.0	19.00																																
80.5	UDS	19.50			CI	0.00	22.0	46.00	32.0	14.20	1.78	1.56	2.56	45.8	24.8	21.0	CD	0.55	6.50	1.10	-	-	-	-	-	-	-	-	-	-			
80.0		20.00																															

NOTES: SPT : STANDARD PENETRATION TEST N.M.C : NATURAL MOISTURE CONTENT RQD : ROCK QUALITY DESIGNTEGRATED DT : DIRECT SHEAR TEST

DS : DISTURBED SAMPLE C : CHOESION CR : CORE RECOVERY CD : Consolidated-Drained Triaxial Com

UDS : UNDISTURBED SAMPLE Φ : ANGLE OF INTERNAL FRICTION GW : GROUND WATER TABLE NO : NOT OPERATED



RAJADHANI LABS



LABORATORY TEST RESULTS

PROJECT NAME : GEO-TECHNICAL INVESTIGATION FOR PROPOSED CONSTRUCTION OF BUILDINGS FOR AMARAVATI LOCAL HEAD OFFICE AND OTHER OUTFITS AT AMARAVATI ANDHRAPRADESH.

BORE HOLE NO : 5 BORE HOLE CODE : NO.OF FLOORS : 3 Cellars +15 + 5 Future F.

GROUND LEVELS : 100.00 m Ref TYPE OF STRUCTURE : LH OFFICE BUILDING TERMINATION DEPTH : 40.00 m

FIELD INVESTIGATION DATA							LABORATORY TEST IN SOIL															TESTS IN ROCK											
Elevation(m)	Nature of sampling	Depth below ref.level	SPT		Hatching	Description of Strata	Layer Thickness (m)	IS Classification	% Gravel	% Sand	% Silt	% Clay	N.M.C. (%)	Natural Density (t/m³)	Dry Density (t/m³)	Specific Gravity	Atterberg Limits			Direct/Tri-axial Shear Test			UCS (kg/cm²)	Consolidation Test		%Core Recovery	% R Q D	Point Load Test	UCS (Mpa)	Water Absorption & Porosity(%)	Specific Gravity	Density (t/m³)	Modulus of Elasticity(Gpa)
			Depth (m)	"N"Value													Liquid Limit (%)	Plastic Limit (%)	Plasticity Index(%)	Type of test	C (Kg/cm²)	φ (degree)		Cc	Void Ratio e₀								
80.0	SPT	20.00	21	41		Very stiff brown sandy silt, Medium plastic silty clay(CI)		CI	0.00	22.0	43.0	35.0	13.20	1.76	1.55		46.9	27.0	19.9	CD	0.55	7.90	1.10	-	-	-	-	-	-	-	-	-	
79.5		20.50																															
79.0		21.00																															
78.5		21.50																															
78.0	22.00	24	36	CI				0.00	20.0	48.0	32.0	13.00	1.77	1.57	2.63	45.8	25.3	20.5	CD	0.50	7.60	1.00	-	-	-	-	-	-	-	-	-	-	
77.5	UDS																																22.50
77.0	23.00																																
76.5	23.50																																
76.0	SPT	24.00	27	34		Residual Soil (or) Completely Weathered Rock (CWR)		CI	0.00	95.0	5.00	0.00	8.40	1.93	1.78		NP	NP	NP	DT	0.0	32.8	-	-	-	-	-	-	-	-	-		
75.5	24.50																																
75.0	25.00																																
74.5	UDS	25.50																															
74.0	26.00																																
73.5	26.50																																
73.0	SPT	27.00																															
72.5	27.50																																
72.0	28.00																																
71.5	28.50																																
71.0	29.00																																
70.5	29.50																																
70.0	SPT/DS	30.00	30	53																													

NOTES: SPT : STANDARD PENETRATION TEST N.M.C : NATURAL MOISTURE CONTENT RQD : ROCK QUALITY DESIGNTEGRATED DT : DIRECT SHEAR TEST
DS : DISTURBED SAMPLE C : CHOESION CR : CORE RECOVERY TS : TRIAXIAL TEST
UDS : UNDISTURBED SAMPLE Φ : ANGLE OF INTERNAL FRICTION GW : GROUND WATER TABLE NO : NOT OPERATED



RAJADHANI LABS



LABORATORY TEST RESULTS

PROJECT NAME : GEO-TECHNICAL INVESTIGATION FOR PROPOSED CONSTRUCTION OF BUILDINGS FOR AMARAVATI LOCAL HEAD OFFICE AND OTHER OUTFITS AT AMARAVATI ANDHRAPRADESH.

BORE HOLE NO : 5 BORE HOLE CODE : NO.OF FLOORS : 3 Cellars +15 +5 Future F.

GROUND LEVELS : 100.00 m Ref TYPE OF STRUCTURE : LH OFFICE BUILDING TERMINATION DEPTH : 40.00 m

FIELD INVESTIGATION DATA							LABORATORY TEST IN SOIL														TESTS IN ROCK														
Elevation(m)	Nature of sampling	Depth below ref.level	SPT		Hatching	Description of Strata	Layer Thickness (m)	IS Classification	% Gravel	% Sand	% Silt	% Clay	N.M.C. (%)	Natural Density (t/m³)	Dry Density (t/m³)	Specific Gravity	Atterberg Limits			Direct/Tri-axial Shear Test			UCS (kg/cm²)	Consolidation Test		%Core Recovery	% R Q D	Point Load Test	UCS (Mpa)	Water Absorption & Porosity(%)	Specific Gravity	Density (t/m³)	Modulus of Elasticity(Gpa)		
			Depth (m)	"N"Value													Liquid Limit (%)	Plastic Limit (%)	Plasticity Index(%)	Type of test	C (Kg/cm²)	φ (degree)		Cc	Void Ratio e₀										
70.0	SPT	30.00	31	>100		Residual Soil (or) Completely Weathered Rock (CWR)																													
69.5		30.50																																	
69.0		31.00																																	
68.5		31.50																																	
68.0		32.00																																	
67.5		32.50																																	
67.0		33.00																																	
66.5	33.50																																		
66.0	SPT/DS	34.00	34	>100					0.00	93.0	7.0	0.0	7.30	1.94	1.81	2.67	NP	NP	NP	DT	0.00	33.5	-	-	-	-	-	-	-	-	-	-	-	-	-
65.5	34.50																																		
65.0	35.00																																		
64.5	35.50																																		
64.0	36.00																																		
63.5	36.50																																		
63.0	SPT/DS	37.00				37	>100		0.00	95.0	5.00	0.00	6.80	1.95	1.83		NP	NP	NP	DT	0.0	35.5	-	-	-	-	-	-	-	-	-	-	-	-	
62.5	37.50																																		
62.0	38.00																																		
61.5	38.50																																		
61.0	39.00																																		
60.5	39.50																																		
60.0	SPT/DS	40.00	40	>100						0.00	97.0	3.00	0.00	6.70	1.95	1.83	2.71	NP	NP	NP	DT	0.0	35.5	-	-	-	-	-	-	-	-	-	-	-	-

NOTES: SPT : STANDARD PENETRATION TEST N.M.C : NATURAL MOISTURE CONTENT RQD : ROCK QUALITY DESIGNTEGRATED DT : DIRECT SHEAR TEST

DS : DISTURBED SAMPLE C : CHOESION CR : CORE RECOVERY CD : Consolidated-Drained Triaxial Com

UDS : UNDISTURBED SAMPLE Φ : ANGLE OF INTERNAL FRICTION GW : GROUND WATER TABLE NO : NOT OPERATED



RAJADHANI LABS



LABORATORY TEST RESULTS

PROJECT NAME : GEO-TECHNICAL INVESTIGATION FOR PROPOSED CONSTRUCTION OF BUILDINGS FOR AMARAVATI LOCAL HEAD OFFICE AND OTHER OUTFITS AT AMARAVATI, ANDHRAPRADESH.

BORE HOLE NO : 6 BORE HOLE CODE : NO.OF FLOORS : 3 Cellars +15 +5 Future F

GROUND LEVELS : 100.00 m Ref TYPE OF STRUCTURE : LH OFFICE BUILDING TERMINATION DEPTH : 40.00 m

FIELD INVESTIGATION DATA							LABORATORY TEST IN SOIL													TESTS IN ROCK													
Elevation(m)	Nature of sampling	Depth below ref.level	SPT		Hatching	Description of Strata	Layer Thickness (m)	IS Classification	% Gravel	% Sand	% Silt	% Clay	N.M.C. (%)	Natural Density (t/m³)	Dry Density (t/m³)	Specific Gravity	Atterberg Limits			Direct/Tri-axial Shear Test			UCS (kg/cm²)	Consolidation Test		%Core Recovery	% R Q D	Point Load Test	UCS (Mpa)	Water Absorption & Porosity(%)	Specific Gravity	Density (t/m³)	Modulus of Elasticity(Gpa)
			Depth (m)	"N"Value													Liquid Limit (%)	Plastic Limit (%)	Plasticity Index(%)	Type of test	C (Kg/cm²)	φ (degree)		Cc	Void Ratio e₀								
100.0		0.00				Very stiff brown sandy silt, medium plastic silty clay (CI)	1.50	CI	0.0	24.0	41.0	35.0	14.6	1.69	1.47	2.53	46.5	23.0	23.5				-	-	-	-	-	-	-	-	-	-	-
99.5		0.50																															
99.0		1.00																															
98.5	SPT/DS	1.50	1.5	11																													
98.0		2.00																															
97.5		2.50																															
97.0	SPT/DS	3.00	3	16																													
96.5		3.50																															
96.0		4.00																															
95.5	UDS	4.50																															
95.0		5.00																															
94.5		5.50																															
94.0	SPT/DS	6.00	6	28																													
93.5		6.50																															
93.0		7.00																															
92.5	UDS	7.50																															
92.0		8.00																															
91.5		8.50																															
91.0	SPT/DS	9.00	9	31																													
90.5		9.50																															
90.0		10.0																															

NOTES: SPT : STANDARD PENETRATION TEST N.M.C : NATURAL MOISTURE CONTENT RQD : ROCK QUALITY DESIGNTEGRATED DT : DIRECT SHEAR TEST

DS : DISTURBED SAMPLE C : CHOESION CR : CORE RECOVERY CD : Consolidated-Drained Triaxial Com

UDS : UNDISTURBED SAMPLE Φ : ANGLE OF INTERNAL FRICTION GW : GROUND WATER TABLE NO : NOT OPERATED



RAJADHANI LABS



LABORATORY TEST RESULTS

PROJECT NAME : GEO-TECHNICAL INVESTIGATION FOR PROPOSED CONSTRUCTION OF BUILDINGS FOR AMARAVATI LOCAL HEAD OFFICE AND OTHER OUTFITS AT AMARAVATI, ANDHRAPRADESH.

BORE HOLE NO : 6 BORE HOLE CODE : NO.OF FLOORS : 3 Cellars +15 +5 Future F

GROUND LEVELS : 100.00 m Ref TYPE OF STRUCTURE : LH OFFICE BUILDING TERMINATION DEPTH : 40.00 m

FIELD INVESTIGATION DATA							LABORATORY TEST IN SOIL															TESTS IN ROCK											
Elevation(m)	Nature of sampling	Depth below ref.level	SPT		Hatching	Description of Strata	Layer Thickness (m)	IS Classification	% Gravel	% Sand	% Silt	% Clay	N.M.C. (%)	Natural Density (t/m³)	Dry Density (t/m³)	Specific Gravity	Atterberg Limits			Direct/Tri-axial Shear Test			UCS (kg/cm²)	Consolidation Test		%Core Recovery	% R Q D	Point Load Test	UCS (Mpa)	Water Absorption & Porosity(%)	Specific Gravity	Density (t/m³)	Modulus of Elasticity(Gpa)
			Depth (m)	"N"Value													Liquid Limit (%)	Plastic Limit (%)	Plasticity Index(%)	Type of test	C (Kg/cm²)	φ (degree)		Cc	Void Ratio e _o								
90.0		10.00	12	38		Very stiff brown sandy silt, medium plastic silty clay (CI)		CI	0.00	23.0	45.0	32.0	13.80	1.79	1.57		47.3	26.4	20.9	CD	0.46	6.50	0.92	-	-	-	-	-	-	-	-	-	
89.5	UDS	10.50																															
89.0		11.00																															
88.5		11.50																															
88.0	SPT/DS	12.00																															
87.5		12.50																															
87.0		13.00																															
86.5	UDS	13.50	15	35			CI	0.00	30.0	42.0	28.0	13.20	1.82	1.61	2.62	46.5	25.4	21.1	CD	0.48	7.80	0.96	-	-	-	-	-	-	-	-	-	-	
86.0		14.00																															
85.5		14.50																															
85.0	SPT/DS	15.00																															
84.5		15.50																															
84.0		16.00																															
83.5	SPT	16.50																															
83.0		17.00	16.5	41		Very dense grey Fine Sand (SP-SM)		SP-SM	0.00	93.0	7.0	0.0	8.30	1.83	1.69	2.67	NP	NP	NP	DT	0.00	28.30	-	-	-	-	-	-	-	-	-	-	
82.5		17.50																															
82.0	SPT/DS	18.00																															
81.5		18.50																															
81.0		19.00																															
80.5	SPT	19.50																															
80.0		20.00																															

NOTES: SPT : STANDARD PENETRATION TEST N.M.C. : NATURAL MOISTURE CONTENT RQD : ROCK QUALITY DESIGNTEGRATED DT : DIRECT SHEAR TEST

DS : DISTURBED SAMPLE C : CHOESION CR : CORE RECOVERY CD : Consolidated-Drained Triaxial Comp

UDS : UNDISTURBED SAMPLE Φ : ANGLE OF INTERNAL FRICTION GWT : GROUND WATER TABLE NO : NOT OPERATED

LABORATORY TEST RESULTS

PROJECT NAME : GEO-TECHNICAL INVESTIGATION FOR PROPOSED CONSTRUCTION OF BUILDINGS FOR AMARAVATI LOCAL HEAD OFFICE AND OTHER OUTFITS AT AMARAVATI, ANDHRAPRADESH.

BORE HOLE NO	:	6	BORE HOLE CODE	:		NO.OF FLOORS	:	3 Cellars +15 + 5 Future F
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GROUND LEVELS	:	100.00	m	Ref	TYPE OF STRUCTURE	:	LH OFFICE BUILDING	TERMINATION DEPTH	:	40.00	m
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FIELD INVESTIGATION DATA							LABORATORY TEST IN SOIL																TESTS IN ROCK										
Elevation(m)	Nature of sampling	Depth below ref.level	SPT		Hatching	Description of Strata	Layer Thickness (m)	IS Classification	% Gravel	% Sand	% Silt	% Clay	N.M.C. (%)	Natural Density (t/m³)	Dry Density (t/m³)	Specific Gravity	Atterberg Limits			Direct/Tri-axial Shear Test			UCS (kg/cm²)	Consolidation Test		%Core Recovery	% R Q D	Point Load Test	UCS (Mpa)	Water Absorption & Porosity(%)	Specific Gravity	Density (t/m³)	Modulus of Elasticity(Gpa)
			Depth (m)	"N"Value													Liquid Limit (%)	Plastic Limit (%)	Plasticity Index(%)	Type of test	C (Kg/cm²)	φ (degree)		Cc	Void Ratio e₀								
80.0	SPT/DST	20.00	21	49		Very dense grey Fine Sand (SP-SM)		SP-SM	0.00	93.0	7.0	0.0	7.40	1.86	1.73					DT	0.00	30.2	-	-	-	-	-	-	-	-	-	-	
79.5		20.50																															
79.0		21.00																															
78.5		21.50																															
78.0		22.00																															
77.5	SPT	22.50	22.5	54		Very stiff brown sandy silt, Medium plastic silty clay (CI)	22.50																										
77.0	23.00																																
76.5	23.50																																
76.0	SPT	24.00	24	32																													
75.5	24.50																																
75.0	25.00	27	40																														
74.5	UDS																															25.50	
74.0	SPT																															26.00	
73.5																																26.50	
73.0																																27.00	
72.5		27.50																															
72.0		28.00																															
71.5	28.50	30	67		Residual Soil (or) Completely Weathered Rock (CWR)																												
71.0	29.00																																
70.5	29.50																																
70.0	SPT/DST																															30.00	

NOTES:	SPT : STANDARD PENETRATION TEST	N.M.C : NATURAL MOISTURE CONTENT	RQD : ROCK QUALITY DESIGNTEGRATED	DT : DIRECT SHEAR TEST
	DS : DISTURBED SAMPLE	C : CHOESION	CR : CORE RECOVERY	TS : TRIAXIAL TEST
	UDS : UNDISTURBED SAMPLE	Φ : ANGLE OF INTERNAL FRICTION	 : GROUND WATER TABLE	NO : NOT OPERATED



RAJADHANI LABS



LABORATORY TEST RESULTS

PROJECT NAME : GEO-TECHNICAL INVESTIGATION FOR PROPOSED CONSTRUCTION OF BUILDINGS FOR AMARAVATI LOCAL HEAD OFFICE AND OTHER OUTFITS AT AMARAVATI ANDHRAPRADESH.

BORE HOLE NO : 6 BORE HOLE CODE : NO.OF FLOORS : 3 Cellars +15 +5 Future F.

GROUND LEVELS : 100.00 m Ref TYPE OF STRUCTURE : LH OFFICE BUILDING TERMINATION DEPTH : 40.00 m

FIELD INVESTIGATION DATA							LABORATORY TEST IN SOIL														TESTS IN ROCK												
Elevation(m)	Nature of sampling	Depth below ref.level	SPT		Hatching	Description of Strata	Layer Thickness (m)	IS Classification	% Gravel	% Sand	% Silt	% Clay	N.M.C. (%)	Natural Density (t/m³)	Dry Density (t/m³)	Specific Gravity	Atterberg Limits			Direct/Tri-axial Shear Test			UCS (kg/cm²)	Consolidation Test		%Core Recovery	% R Q D	Point Load Test	UCS (Mpa)	Water Absorption & Porosity(%)	Specific Gravity	Density (t/m³)	Modulus of Elasticity(Gpa)
			Depth (m)	"N"Value													Liquid Limit (%)	Plastic Limit (%)	Plasticity Index(%)	Type of test	C (Kg/cm²)	Φ (degree)		Cc	Void Ratio e₀								
70.0	SPT	30.00	31	>100		Residual Soil (or) Completely Weathered Rock (CWR)											NP	NP	NP	DT	0.00	34.2	-	-	-	-	-	-	-	-	-	-	-
69.5		30.50																															
69.0		31.00																															
68.5		31.50																															
68.0		32.00																															
67.5		32.50																															
67.0		33.00																															
66.5	33.50																																
66.0	SPT/DS	34.00	34	>100		Residual Soil (or) Completely Weathered Rock (CWR)			0.00	94.0	6.0	0.0	6.30	1.94	1.83	2.67	NP	NP	NP	DT	0.00	34.2	-	-	-	-	-	-	-	-	-	-	-
65.5	34.50																																
65.0	35.00																																
64.5	35.50																																
64.0	36.00																																
63.5	36.50																																
63.0	SPT/DS	37.00																															
62.5	37.50																																
62.0	38.00																																
61.5	38.50																																
61.0	39.00																																
60.5	39.50																																
60.0	SPT/DS	40.00	40	>100		Residual Soil (or) Completely Weathered Rock (CWR)	40.0		0.00	95.0	5.00	0.00	6.70	1.95	1.83	2.71	NP	NP	NP	DT	0.0	36.0	-	-	-	-	-	-	-	-	-	-	

NOTES: SPT : STANDARD PENETRATION TEST N.M.C : NATURAL MOISTURE CONTENT RQD : ROCK QUALITY DESIGNTEGRATED DT : DIRECT SHEAR TEST

DS : DISTURBED SAMPLE C : CHOESION CR : CORE RECOVERY CD : Consolidated-Drained Triaxial Com

UDS : UNDISTURBED SAMPLE Φ : ANGLE OF INTERNAL FRICTION GW : GROUND WATER TABLE NO : NOT OPERATED



RAJADHANI LABS



LABORATORY TEST RESULTS

PROJECT NAME : GEO-TECHNICAL INVESTIGATION FOR PROPOSED CONSTRUCTION OF BUILDINGS FOR AMARAVATI LOCAL HEAD OFFICE AND OTHER OUTFITS AT AMARAVATI, ANDHRAPRADESH.

BORE HOLE NO : 7 BORE HOLE CODE : NO.OF FLOORS : 3 Cellars+15 +5 Future F

GROUND LEVELS : 100.00 m Ref TYPE OF STRUCTURE : LH OFFICE BUILDING TERMINATION DEPTH : 40.00 m

Field Investigation Data							Laboratory Test in Soil															Tests in Rock												
Elevation(m)	Nature of sampling	Depth below ref.level	SPT		Hatching	Description of Strata	Layer Thickness (m)	IS Classification	% Gravel	% Sand	% Silt	% Clay	N.M.C. (%)	Natural Density (t/m³)	Dry Density (t/m³)	Specific Gravity	Atterberg Limits			Direct/Tri-axial Shear Test			UCS (kg/cm²)	Consolidation Test		%Core Recovery	% R Q D	Point Load Test	UCS (Mpa)	Water Absorption & Porosity(%)	Specific Gravity	Density (t/m³)	Modulus of Elasticity(Gpa)	
			Depth (m)	"N"Value													Liquid Limit (%)	Plastic Limit (%)	Plasticity Index(%)	Type of test	C (Kg/cm²)	Φ (degree)		Cc	Void Ratio e₀									
100.0	SPT/DS	0.00	1.5	15		Very stiff brown sandy silt, medium plastic silty clay (CI)		CI	0.0	13.0	48.0	39.0	15.40	1.74	1.51	2.53	46.8	27.0	19.8	CD	0.65	5.32	1.30	-	-	-	-	-	-	-	-	-	-	
99.5		0.50																																
99.0		1.00																																
98.5		1.50																																
98.0	2.00	3	15																															
97.5	2.50																																	
97.0	3.00																																	
96.5	3.50																																	
96.0	4.00	4.5	12																															
95.5	4.50																																	
95.0	5.00																																	
94.5	5.50																																	
94.0	SPT/DS	6.00	6	14			CI	0.00	18.0	46.0	36.0	14.60	1.76	1.54	2.54	47.0	26.0	21.0	CD	0.62	6.80	1.24	-	-	-	-	-	-	-	-	-	-	-	
93.5	6.50																																	
93.0	7.00																																	
92.5	7.50																																	
92.0	8.00	7.5	31		Very dense grey Fine Sand(SP-SM)		SP-SM	0.00	86.0	14.0	0.00	7.40	1.84	1.71		NP	NP	NP	DT	0.0	28.3	-	-	-	-	-	-	-	-	-	-	-		
91.5	8.50																																	
91.0	9.00																																	
90.5	9.50																																	
90.0	SPT/DS	10.0	9	19		Very stiff brown sandy silt, Medium plastic silty Clay (CI)																												

NOTES: SPT : STANDARD PENETRATION TEST N.M.C : NATURAL MOISTURE CONTENT RQD : ROCK QUALITY DESIGNTEGRATED DT : DIRECT SHEAR TEST

DS : DISTURBED SAMPLE C : CHOESION CR : CORE RECOVERY CD : Consolidated-Drained Triaxial Comp

UDS : UNDISTURBED SAMPLE Φ : ANGLE OF INTERNAL FRICTION GW : GROUND WATER TABLE NO : NOT OPERATED



RAJADHANI LABS

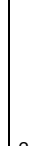
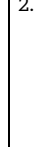
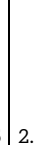
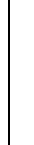


LABORATORY TEST RESULTS

PROJECT NAME : GEO-TECHNICAL INVESTIGATION FOR PROPOSED CONSTRUCTION OF BUILDINGS FOR AMARAVATI LOCAL HEAD OFFICE AND OTHER OUTFITS AT AMARAVATI, ANDHRAPRADESH.

BORE HOLE NO : 7 BORE HOLE CODE : NO.OF FLOORS : 3 Cellars+15 +5 Future F

GROUND LEVELS : 100.00 m Ref TYPE OF STRUCTURE : LH OFFICE BUILDING TERMINATION DEPTH : 40.00 m

FIELD INVESTIGATION DATA							LABORATORY TEST IN SOIL														TESTS IN ROCK												
Elevation(m)	Nature of sampling	Depth below ref.level	SPT		Hatching	Description of Strata	Layer Thickness (m)	IS Classification	% Gravel	% Sand	% Silt	% Clay	N.M.C. (%)	Natural Density (t/m³)	Dry Density (t/m³)	Specific Gravity	Atterberg Limits			Direct/Tri-axial Shear Test			UCS (kg/cm²)	Consolidation Test		%Core Recovery	% R Q D	Point Load Test	UCS (Mpa)	Water Absorption & Porosity(%)	Specific Gravity	Density (t/m³)	Modulus of Elasticity(Gpa)
			Depth (m)	"N"Value													Liquid Limit (%)	Plastic Limit (%)	Plasticity Index(%)	Type of test	C (Kg/cm²)	φ (degree)		Cc	Void Ratio e₀								
90.0	SPT	10.00	10.5	14				CI	0.00	12.0	49.0	39.0	14.60	1.77	1.54	2.55	46.2	26.5	19.7	CD	0.54	7.80	1.08	-	-	-	-	-	-	-	-	-	
89.5		10.50																															
89.0		11.00																															
88.5		11.50																															
88.0	UDS	12.00	13.5	26		Very stiff brown sandy silt, Medium plastic silty Clay (CI)	15.00	CI	0.00	20.0	45.0	35.0	14.80	1.75	1.52		43.6	25.3	18.3	CD	0.56	7.78	1.12	-	-	-	-	-	-	-	-	-	
87.5	12.50																																
87.0	13.00																																
86.5	13.50																																
86.0	SPT	14.00	16.5	36				CI	0.00	18.0	46.00	36.0	14.30	1.77	1.55	2.58	45.6	26.8	18.8	CD	0.55	8.20	1.10	-	-	-	-	-	-	-	-	-	
85.5		14.50																															
85.0		15.00																															
84.5		15.50																															
84.0	SPT	16.00	19.5	39				CI	0.00	18.0	46.00	36.0	14.30	1.77	1.55	2.58	45.6	26.8	18.8	CD	0.55	8.20	1.10	-	-	-	-	-	-	-	-	-	
83.5		16.50																															
83.0		17.00																															
82.5		17.50																															
82.0	UDS	18.00	19.5	39				CI	0.00	18.0	46.00	36.0	14.30	1.77	1.55	2.58	45.6	26.8	18.8	CD	0.55	8.20	1.10	-	-	-	-	-	-	-	-	-	
81.5	18.50																																
81.0	19.00																																
80.5	19.50																																
80.0	SPT	20.00																															

NOTES: SPT : STANDARD PENETRATION TEST N.M.C : NATURAL MOISTURE CONTENT RQD : ROCK QUALITY DESIGNTEGRATED DT : DIRECT SHEAR TEST

DS : DISTURBED SAMPLE C : CHOESION CR : CORE RECOVERY CD : Consolidated-Drained Triaxial Comp

UDS : UNDISTURBED SAMPLE Φ : ANGLE OF INTERNAL FRICTION GW : GROUND WATER TABLE NO : NOT OPERATED



RAJADHANI LABS



LABORATORY TEST RESULTS

PROJECT NAME : GEO-TECHNICAL INVESTIGATION FOR PROPOSED CONSTRUCTION OF BUILDINGS FOR AMARAVATI LOCAL HEAD OFFICE AND OTHER OUTFITS AT AMARAVATI ANDHRAPRADESH.

BORE HOLE NO : 7 BORE HOLE CODE : NO.OF FLOORS : 3 Cellars +15 + 5 Future F.

GROUND LEVELS : 100.00 m Ref TYPE OF STRUCTURE : LH OFFICE BUILDING TERMINATION DEPTH : 40.00 m

FIELD INVESTIGATION DATA							LABORATORY TEST IN SOIL															TESTS IN ROCK													
Elevation(m)	Nature of sampling	Depth below ref.level	SPT		Hatching	Description of Strata	Layer Thickness (m)	IS Classification	% Gravel	% Sand	% Silt	% Clay	N.M.C. (%)	Natural Density (t/m³)	Dry Density (t/m³)	Specific Gravity	Atterberg Limits			Direct/Tri-axial Shear Test			UCS (kg/cm²)	Consolidation Test		%Core Recovery	% R Q D	Point Load Test	UCS (Mpa)	Water Absorption & Porosity(%)	Specific Gravity	Density (t/m³)	Modulus of Elasticity(Gpa)		
			Depth (m)	"N"Value													Liquid Limit (%)	Plastic Limit (%)	Plasticity Index(%)	Type of test	C (Kg/cm²)	φ (degree)		Cc	Void Ratio e₀										
80.0		20.00	22.5	29		Very stiff brown sandy silt, Medium plastic silty clay (CI)	27.00	CI	0.00	17.0	46.0	37.0	13.60	1.79	1.58	2.65	45.6	27.4	18.2	CD	0.54	8.50	1.08	-	-	-	-	-	-	-	-	-	-		
79.5		20.50																																	
79.0	UDS	21.00																																	
78.5		21.50																																	
78.0		22.00																																	
77.5	SPT	22.50	25.5	28				CI	0.00	21.0	44.0	35.0	13.50	1.81	1.59	46.8	28.5	18.3	CD	0.50	8.70	1.00	-	-	-	-	-	-	-	-	-	-	-	-	-
77.0		23.00																																	
76.5		23.50																																	
76.0	UDS	24.00																																	
75.5		24.50																																	
75.0		25.00	28.5	59		Residual Soil (or) Completely Weathered Rock (CWR)		CI	0.00	18.0	45.0	37.0	12.80	1.83	1.62	2.66	47.8	26.6	21.2	CD	0.49	9.00	0.98	-	-	-	-	-	-	-	-	-	-		
74.5	SPT	25.50																																	
74.0		26.00																																	
73.5		26.50																																	
73.0	UDS	27.00																																	
72.5		27.50	30.0	71				SPT/DS	0.00	89.0	11.00	0.00	7.50	1.94	1.80	2.62	NP	NP	NP	DT	0.0	33.2	-	-	-	-	-	-	-	-	-	-	-	-	-
72.0		28.00																																	
71.5	SPT/DS	28.50																																	
71.0		29.00																																	
70.5		29.50																																	
70.0	SPT/DS	30.00																																	

NOTES: SPT : STANDARD PENETRATION TEST N.M.C : NATURAL MOISTURE CONTENT R.Q.D : ROCK QUALITY DESIGNTEGRATED DT : DIRECT SHEAR TEST

DS : DISTURBED SAMPLE C : CHOESION CR : CORE RECOVERY TS : TRIAXIAL TEST

UDS : UNDISTURBED SAMPLE Φ : ANGLE OF INTERNAL FRICTION GW : GROUND WATER TABLE NO : NOT OPERATED



RAJADHANI LABS



LABORATORY TEST RESULTS

PROJECT NAME : GEO-TECHNICAL INVESTIGATION FOR PROPOSED CONSTRUCTION OF BUILDINGS FOR AMARAVATI LOCAL HEAD OFFICE AND OTHER OUTFITS AT AMARAVATI ANDHRAPRADESH.

BORE HOLE NO : 7 BORE HOLE CODE : NO.OF FLOORS : 3 Cellars +15 +5 Future F.

GROUND LEVELS : 100.00 m Ref TYPE OF STRUCTURE : LH OFFICE BUILDING TERMINATION DEPTH : 40.00 m

FIELD INVESTIGATION DATA							LABORATORY TEST IN SOIL															TESTS IN ROCK																																								
Elevation(m)	Nature of sampling	Depth below ref.level	SPT		Hatching	Description of Strata	Layer Thickness (m)	IS Classification	% Gravel	% Sand	% Silt	% Clay	N.M.C. (%)	Natural Density (t/m³)	Dry Density (t/m³)	Specific Gravity	Atterberg Limits			Direct/Tri-axial Shear Test			UCS (kg/cm²)	Consolidation Test		%Core Recovery	% R Q D	Point Load Test	UCS (Mpa)	Water Absorption & Porosity(%)	Specific Gravity	Density (t/m³)	Modulus of Elasticity(Gpa)																													
			Depth (m)	"N"Value													Liquid Limit (%)	Plastic Limit (%)	Plasticity Index(%)	Type of test	C (Kg/cm²)	φ (degree)		Cc	Void Ratio e₀																																					
70.0	SPT	30.00	31.5	>100		Residual Soil (or) Completely Weathered Rock (CWR)																																																								
69.5		30.50																																																												
69.0		31.00																																																												
68.5		31.50																																																												
68.0		32.00																																																												
67.5		32.50																																																												
67.0		33.00																																																												
66.5	33.50																																																													
66.0	34.00	34.5	>100		Residual Soil (or) Completely Weathered Rock (CWR)																																																									
65.5	34.50																																																													
65.0	35.00																																																													
64.5	35.50																																																													
64.0	36.00																																																													
63.5	36.50																																																													
63.0	37.00																																																													
62.5	37.50	37.5	>100		Residual Soil (or) Completely Weathered Rock (CWR)																																																									
62.0	38.00																																																													
61.5	38.50																																																													
61.0	39.00																																																													
60.5	39.50																																																													
60.0	40.00																																40	>100		Residual Soil (or) Completely Weathered Rock (CWR)	40.0																									
60.0	SPT/DS																																40.00	40	>100		Residual Soil (or) Completely Weathered Rock (CWR)	40.0																								

NOTES: SPT : STANDARD PENETRATION TEST N.M.C : NATURAL MOISTURE CONTENT RQD : ROCK QUALITY DESIGNTEGRATED DT : DIRECT SHEAR TEST

DS : DISTURBED SAMPLE C : CHOESION CR : CORE RECOVERY CD : Consolidated-Drained Triaxial Com

UDS : UNDISTURBED SAMPLE Φ : ANGLE OF INTERNAL FRICTION GW : GROUND WATER TABLE NO : NOT OPERATED



RAJADHANI LABS



LABORATORY TEST RESULTS

PROJECT NAME : GEO-TECHNICAL INVESTIGATION FOR PROPOSED CONSTRUCTION OF BUILDINGS FOR AMARAVATI LOCAL HEAD OFFICE AND OTHER OUTFITS AT AMARAVATI, ANDHRAPRADESH.

BORE HOLE NO : 8 BORE HOLE CODE : NO.OF FLOORS : 3 Cellars+15 +5 Future F

GROUND LEVELS : 100.00 m Ref TYPE OF STRUCTURE : LH OFFICE BUILDING TERMINATION DEPTH : 40.00 m

Field Investigation Data							Laboratory Test in Soil															Tests in Rock											
Elevation(m)	Nature of sampling	Depth below ref.level	SPT		Hatching	Description of Strata	Layer Thickness (m)	IS Classification	% Gravel	% Sand	% Silt	% Clay	N.M.C. (%)	Natural Density (t/m³)	Dry Density (t/m³)	Specific Gravity	Atterberg Limits			Direct/Tri-axial Shear Test			UCS (kg/cm²)	Consolidation Test		%Core Recovery	% R Q D	Point Load Test	UCS (Mpa)	Water Absorption & Porosity(%)	Specific Gravity	Density (t/m³)	Modulus of Elasticity(Gpa)
			Depth (m)	"N"Value													Liquid Limit (%)	Plastic Limit (%)	Plasticity Index(%)	Type of test	C (Kg/cm²)	φ (degree)		Cc	Void Ratio e ₀								
100.0		0.00				Very stiff brown sandy silt, medium plastic (CI)		CI	0.0	17.0	46.0	37.0	14.30	1.75	1.53	2.54	46.8	26.3	20.5	CD	0.62	5.60	1.24	-	-	-	-	-	-	-	-	-	
99.5		0.50																															
99.0		1.00																															
98.5	SPT/DS	1.50	1.5	15																													
98.0		2.00																															
97.5		2.50																															
97.0	SPT/DS	3.00	3	15																													
96.5		3.50																															
96.0		4.00																															
95.5	SPT	4.50	4.5	22																													
95.0		5.00																															
94.5		5.50																															
94.0	SPT/DS	6.00	6	25			7.00	CI	0.00	23.0	44.0	33.0	13.70	1.77	1.56	2.54	47.2	27.1	20.1	CD	0.59	6.20	1.18	-	-	-	-	-	-	-	-	-	
93.5		6.50																															
93.0		7.00																															
92.5	SPT/DS	7.50	7.5	29																													
92.0		8.00			Very dense grey Fine Sand(SP-SM)			SP-SM	0.00	87.0	13.0	0.00	8.40	1.83	1.69		NP	NP	NP	DT	0.0	28.5	-	-	-	-	-	-	-	-	-	-	
91.5		8.50																															
91.0	SPT/DS	9.00	9	32																													
90.5		9.50			Very stiff brown sandy silt, Medium plastic silty Clay (CI)																												
90.0		10.0																															

NOTES: SPT : STANDARD PENETRATION TEST N.M.C : NATURAL MOISTURE CONTENT RQD : ROCK QUALITY DESIGNTEGRATED DT : DIRECT SHEAR TEST

DS : DISTURBED SAMPLE C : CHOESION CR : CORE RECOVERY CD : Consolidated-Drained Triaxial Com

UDS : UNDISTURBED SAMPLE Φ : ANGLE OF INTERNAL FRICTION GW : GROUND WATER TABLE NO : NOT OPERATED



RAJADHANI LABS

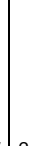
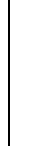
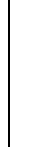
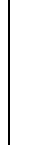


LABORATORY TEST RESULTS

PROJECT NAME : GEO-TECHNICAL INVESTIGATION FOR PROPOSED CONSTRUCTION OF BUILDINGS FOR AMARAVATI LOCAL HEAD OFFICE AND OTHER OUTFITS AT AMARAVATI, ANDHRAPRADESH.

BORE HOLE NO : 8 BORE HOLE CODE : NO.OF FLOORS : 3 Cellars+15 +5 Future F

GROUND LEVELS : 100.00 m Ref TYPE OF STRUCTURE : LH OFFICE BUILDING TERMINATION DEPTH : 40.00 m

FIELD INVESTIGATION DATA							LABORATORY TEST IN SOIL															TESTS IN ROCK											
Elevation(m)	Nature of sampling	Depth below ref.level	SPT		Hatching	Description of Strata	Layer Thickness (m)	IS Classification	% Gravel	% Sand	% Silt	% Clay	N.M.C. (%)	Natural Density (t/m³)	Dry Density (t/m³)	Specific Gravity	Atterberg Limits			Direct/Tri-axial Shear Test			UCS (kg/cm²)	Consolidation Test		%Core Recovery	% R Q D	Point Load Test	UCS (Mpa)	Water Absorption & Porosity(%)	Specific Gravity	Density (t/m³)	Modulus of Elasticity(Gpa)
			Depth (m)	"N"Value													Liquid Limit (%)	Plastic Limit (%)	Plasticity Index(%)	Type of test	C (Kg/cm²)	φ (degree)		Cc	Void Ratio e₀								
90.0	SPT	10.00	10.5	18				CI	0.00	20.0	46.0	34.0	13.70	1.78	1.57	2.59	47.3	25.6	21.7	CD	0.55	7.60	1.10	-	-	-	-	-	-	-	-	-	
89.5		10.50																															
89.0		11.00																															
88.5		11.50																															
88.0	UDS	12.00	13.5	35				CI	0.00	25.0	42.0	33.0	13.50	1.80	1.59		48.4	26.4	22.0	CD	0.60	7.30	1.20	-	-	-	-	-	-	-	-	-	
87.5	12.50																																
87.0	13.00																																
86.5	13.50																																
86.0	SPT	14.00	16.5	36				CI	0.00	22.0	43.00	35.0	13.20	1.82	1.61	2.60	47.4	27.2	20.2	CD	0.63	7.40	1.26	-	-	-	-	-	-	-	-	-	
85.5		14.50																															
85.0		15.00																															
84.5		15.50																															
84.0	SPT	16.00	19.5	39					0.00																								
83.5		16.50																															
83.0		17.00																															
82.5		17.50																															
82.0	UDS	18.00	20.00																														
81.5	18.50																																
81.0	19.00																																
80.5	19.50																																
80.0	SPT	20.00																															

NOTES: SPT : STANDARD PENETRATION TEST N.M.C : NATURAL MOISTURE CONTENT RQD : ROCK QUALITY DESIGNTEGRATED DT : DIRECT SHEAR TEST

DS : DISTURBED SAMPLE C : CHOESION CR : CORE RECOVERY CD : Consolidated-Drained Triaxial Comp

UDS : UNDISTURBED SAMPLE Φ : ANGLE OF INTERNAL FRICTION GW : GROUND WATER TABLE NO : NOT OPERATED



RAJADHANI LABS



LABORATORY TEST RESULTS

PROJECT NAME : GEO-TECHNICAL INVESTIGATION FOR PROPOSED CONSTRUCTION OF BUILDINGS FOR AMARAVATI LOCAL HEAD OFFICE AND OTHER OUTFITS AT AMARAVATI ANDHRAPRADESH.

BORE HOLE NO : 8 BORE HOLE CODE : NO.OF FLOORS : 3 Cellars +15 + 5 Future F.

GROUND LEVELS : 100.00 m Ref TYPE OF STRUCTURE : LH OFFICE BUILDING TERMINATION DEPTH : 40.00 m

FIELD INVESTIGATION DATA							LABORATORY TEST IN SOIL															TESTS IN ROCK													
Elevation(m)	Nature of sampling	Depth below ref.level	SPT		Hatching	Description of Strata	Layer Thickness (m)	IS Classification	% Gravel	% Sand	% Silt	% Clay	N.M.C. (%)	Natural Density (t/m³)	Dry Density (t/m³)	Specific Gravity	Atterberg Limits			Direct/Tri-axial Shear Test			UCS (kg/cm²)	Consolidation Test		%Core Recovery	% R Q D	Point Load Test	UCS (Mpa)	Water Absorption & Porosity(%)	Specific Gravity	Density (t/m³)	Modulus of Elasticity(Gpa)		
			Depth (m)	"N"Value													Liquid Limit (%)	Plastic Limit (%)	Plasticity Index(%)	Type of test	C (Kg/cm²)	φ (degree)		Cc	Void Ratio e₀										
80.0		20.00	22.5	24		Very stiff brown sandy silt, Medium plastic silty clay (CI)	27.00	CI	0.00	24.0	43.0	33.0	12.90	1.77	1.57	2.67	47.4	25.4	22.0	CD	0.56	8.40	1.12	-	-	-	-	-	-	-	-	-	-		
79.5		20.50																																	
79.0	UDS	21.00																																	
78.5		21.50																																	
78.0		22.00																																	
77.5	SPT	22.50	25.5	28				CI	0.00	21.0	45.0	34.0	12.60	1.79	1.59	48.5	25.8	22.7	CD	0.54	8.60	1.08	-	-	-	-	-	-	-	-	-	-	-	-	-
77.0		23.00																																	
76.5		23.50																																	
76.0	UDS	24.00																																	
75.5		24.50																																	
75.0		25.00	28.5	48		Residual Soil (or) Completely Weathered Rock (CWR)			0.00	90.0	10.0	0.00	8.50	1.93	1.78	2.70	NP	NP	NP	DT	0.0	33.4	-	-	-	-	-	-	-	-	-	-			
74.5	SPT	25.50																																	
74.0		26.00																																	
73.5		26.50																																	
73.0	UDS	27.00																																	
72.5		27.50	29.00	29.50																															
72.0		28.00																																	
71.5	SPT/DS	28.50																																	
71.0		29.00																																	
70.5		29.50																																	
70.0		30.00																																	

NOTES: SPT : STANDARD PENETRATION TEST N.M.C : NATURAL MOISTURE CONTENT R.Q.D : ROCK QUALITY DESIGNTEGRATED DT : DIRECT SHEAR TEST

DS : DISTURBED SAMPLE C : CHOESION CR : CORE RECOVERY TS : TRIAXIAL TEST

UDS : UNDISTURBED SAMPLE Φ : ANGLE OF INTERNAL FRICTION GW : GROUND WATER TABLE NO : NOT OPERATED



RAJADHANI LABS



LABORATORY TEST RESULTS

PROJECT NAME : GEO-TECHNICAL INVESTIGATION FOR PROPOSED CONSTRUCTION OF BUILDINGS FOR AMARAVATI LOCAL HEAD OFFICE AND OTHER OUTFITS AT AMARAVATI ANDHRAPRADESH.

BORE HOLE NO : 8 BORE HOLE CODE : NO.OF FLOORS : 3 Cellars +15 +5 Future F.

GROUND LEVELS : 100.00 m Ref TYPE OF STRUCTURE : LH OFFICE BUILDING TERMINATION DEPTH : 40.00 m

FIELD INVESTIGATION DATA							LABORATORY TEST IN SOIL														TESTS IN ROCK																																																																																																																																																																			
Elevation(m)	Nature of sampling	Depth below ref.level	SPT		Hatching	Description of Strata	Layer Thickness (m)	IS Classification	% Gravel	% Sand	% Silt	% Clay	N.M.C. (%)	Natural Density (t/m³)	Dry Density (t/m³)	Specific Gravity	Atterberg Limits			Direct/Tri-axial Shear Test			UCS (kg/cm²)	Consolidation Test		%Core Recovery	% R Q D	Point Load Test	UCS (Mpa)	Water Absorption & Porosity(%)	Specific Gravity	Density (t/m³)	Modulus of Elasticity(Gpa)																																																																																																																																																							
			Depth (m)	"N"Value													Liquid Limit (%)	Plastic Limit (%)	Plasticity Index(%)	Type of test	C (Kg/cm²)	φ (degree)		Cc	Void Ratio e₀																																																																																																																																																															
70.0	SPT	30.00	31.5	51		Residual Soil (or) Completely Weathered Rock (CWR)											NP	NP	NP	DT	0.00	34.2	-	-	-	-	-	-	-	-	-	-	-																																																																																																																																																							
69.5		30.50																																																																																																																																																																																						
69.0		31.00																																																																																																																																																																																						
68.5		31.50																																																																																																																																																																																						
68.0		32.00																																																																																																																																																																																						
67.5		32.50																																																																																																																																																																																						
67.0		33.00																																																																																																																																																																																						
66.5	33.50																																																																																																																																																																																							
66.0	34.00	0.00	93.0	7.0			0.0	8.20	1.96	1.81	2.70	NP	NP	NP	DT	0.00	34.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-																																																																																																																																																								
65.5	SPT/DS	34.50	34.5	76				Residual Soil (or) Completely Weathered Rock (CWR)											NP	NP	NP	DT	0.00	34.2	-	-	-	-	-	-	-	-	-	-	-																																																																																																																																																					
65.0		35.00																																																																																																																																																																																						
64.5		35.50																																																																																																																																																																																						
64.0		36.00																																																																																																																																																																																						
63.5		36.50																																																																																																																																																																																						
63.0		37.00			0.00	94.0																														6.00	0.00	7.80	1.97	1.83		NP	NP	NP	DT	0.0	35.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-																																																																																																																											
62.5		37.50			37.5	>100																															Residual Soil (or) Completely Weathered Rock (CWR)																																																																																																																																																			
62.0	38.00																																																																																																																																																																																							
61.5	38.50																																																																																																																																																																																							
61.0	39.00																																																																																																																																																																																							
60.5	39.50																																																																																																																																																																																							
60.0	40.00	40	>100		Residual Soil (or) Completely Weathered Rock (CWR)																																																																																																																																																																																			
60.0	40.00	40	>100																																																															Residual Soil (or) Completely Weathered Rock (CWR)																																																																																																																						
60.0	40.00	40	>100																																			Residual Soil (or) Completely Weathered Rock (CWR)																																																																																																																																																		
60.0	40.00	40	>100					Residual Soil (or) Completely Weathered Rock (CWR)																																																																																																																																																																																
60.0	40.00	40	>100																																																																																																																							Residual Soil (or) Completely Weathered Rock (CWR)																																																														
60.0	40.00	40	>100																																																																																																																																																				Residual Soil (or) Completely Weathered Rock (CWR)																																	
60.0	40.00	40	>100																																																																																																																																																																																	Residual Soil (or) Completely Weathered Rock (CWR)				
60.0	40.00	40	>100			Residual Soil (or) Completely Weathered Rock (CWR)																																																																																																																																																																																		
60.0	40.00	40	>100																																																																Residual Soil (or) Completely Weathered Rock (CWR)																																																																																																																					
60.0	40.00	40	>100																																		Residual Soil (or) Completely Weathered Rock (CWR)																																																																																																																																																			
60.0	40.00	40	>100																																																																																											Residual Soil (or) Completely Weathered Rock (CWR)																																																																																										
60.0	40.00	40	>100																																																																																																																								Residual Soil (or) Completely Weathered Rock (CWR)																																																													
60.0	40.00	40	>100																																																																																																																																																					Residual Soil (or) Completely Weathered Rock (CWR)																																
60.0	40.00	40	>100																																																																																																																																																																																		Residual Soil (or) Completely Weathered Rock (CWR)			
60.0	40.00	40	>100		Residual Soil (or) Completely Weathered Rock (CWR)																																																																																																																																																																																			
60.0	40.00	40	>100																																																															Residual Soil (or) Completely Weathered Rock (CWR)																																																																																																																						
60.0	40.00	40	>100																																			Residual Soil (or) Completely Weathered Rock (CWR)																																																																																																																																																		
60.0	40.00	40	>100					Residual Soil (or) Completely Weathered Rock (CWR)																																																																																																																																																																																
60.0	40.00	40	>100																																																																																																																							Residual Soil (or) Completely Weathered Rock (CWR)																																																														
60.0	40.00	40	>100																																																																																																																																																				Residual Soil (or) Completely Weathered Rock (CWR)																																	
60.0	40.00	40	>100																																																																																																																																																																																	Residual Soil (or) Completely Weathered Rock (CWR)				
60.0	40.00	40	>100			Residual Soil (or) Completely Weathered Rock (CWR)																																																																																																																																																																																		
60.0	40.00	40	>100																																																																Residual Soil (or) Completely Weathered Rock (CWR)																																																																																																																					
60.0	40.00	40	>100																																		Residual Soil (or) Completely Weathered Rock (CWR)																																																																																																																																																			
60.0	40.00	40	>100																																																																																											Residual Soil (or) Completely Weathered Rock (CWR)																																																																																										
60.0	40.00	40	>100																																																																																																																								Residual Soil (or) Completely Weathered Rock (CWR)																																																													
60.0	40.00	40	>100																																																																																																																																																					Residual Soil (or) Completely Weathered Rock (CWR)																																
60.0	40.00	40	>100																																																																																																																																																																																		Residual Soil (or) Completely Weathered Rock (CWR)			
60.0	40.00	40	>100		Residual Soil (or) Completely Weathered Rock (CWR)																																																																																																																																																																																			
60.0	40.00	40	>100																																																															Residual Soil (or) Completely Weathered Rock (CWR)																																																																																																																						
60.0	40.00	40	>100																																			Residual Soil (or) Completely Weathered Rock (CWR)																																																																																																																																																		
60.0	40.00	40	>100					Residual Soil (or) Completely Weathered Rock (CWR)																																																																																																																																																																																
60.0	40.00	40	>100																																																																																																																							Residual Soil (or) Completely Weathered Rock (CWR)																																																														
60.0	40.00	40	>100																																																																																																																																																				Residual Soil (or) Completely Weathered Rock (CWR)																																	

NOTES: SPT : STANDARD PENETRATION TEST N.M.C : NATURAL MOISTURE CONTENT RQD : ROCK QUALITY DESIGNTEGRATED DT : DIRECT SHEAR TEST

DS : DISTURBED SAMPLE C : CHOESION CR : CORE RECOVERY CD : Consolidated-Drained Triaxial Com

UDS : UNDISTURBED SAMPLE Φ : ANGLE OF INTERNAL FRICTION GW : GROUND WATER TABLE NO : NOT OPERATED



RAJADHANI LABS

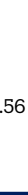


LABORATORY TEST RESULTS

PROJECT NAME : GEO-TECHNICAL INVESTIGATION FOR PROPOSED CONSTRUCTION OF BUILDINGS FOR AMARAVATI LOCAL HEAD OFFICE AND OTHER OUTFITS AT AMARAVATI, ANDHRAPRADESH.

BORE HOLE NO : 9 BORE HOLE CODE : NO.OF FLOORS : 3 Cellars+15 +5 Future F

GROUND LEVELS : 100.00 m Ref TYPE OF STRUCTURE : LH OFFICE BUILDING TERMINATION DEPTH : 40.00 m

FIELD INVESTIGATION DATA							LABORATORY TEST IN SOIL															TESTS IN ROCK												
Elevation(m)	Nature of sampling	Depth below ref.level	SPT		Hatching	Description of Strata	Layer Thickness (m)	IS Classification	% Gravel	% Sand	% Silt	% Clay	N.M.C. (%)	Natural Density (t/m³)	Dry Density (t/m³)	Specific Gravity	Atterberg Limits			Direct/Tri-axial Shear Test			UCS (kg/cm²)	Consolidation Test		%Core Recovery	% R Q D	Point Load Test	UCS (Mpa)	Water Absorption & Porosity(%)	Specific Gravity	Density (t/m³)	Modulus of Elasticity(Gpa)	
			Depth (m)	"N"Value													Liquid Limit (%)	Plastic Limit (%)	Plasticity Index(%)	Type of test	C (Kg/cm²)	φ (degree)		Cc	Void Ratio e₀									
100.0	SPT/DS	0.00	1.5	11		Very stiff brown sandy silt, low plastic silty clay (CI)		CI	0.0	23.0	42.0	35.0	14.9	1.69	1.47	2.55	46.5	26.0	20.5	CD	0.63	5.60	1.26	-	-	-	-	-	-	-	-	-		
99.5		0.50																																
99.0		1.00																																
98.5		1.50																																
98.0		2.00																																
97.5	2.50																																	
97.0	SPT/DS	3.00	3	15		4.00																												
96.5	3.50																																	
96.0	4.00																																	
95.5	SPT	4.50	4.5	17																														Very dense grey Fine Sand (SP-SM)
95.0	5.00																																	
94.5	5.50																																	
94.0	SPT/DS	6.00	6	22																														
93.5	6.50																																	
93.0		7.00																																
92.5	SPT	7.50	7.5	26																														
92.0		8.00																																
91.5		8.50																																
91.0	SPT/DS	9.00	9	30				SP-SM	0.00	86.0	14.0	0.00	8.50	1.85	1.71	2.56	NP	NP	NP	DT	0.0	29.5	-	-	-	-	-	-	-	-	-	-	-	
90.5		9.50																																
90.0		10.0																																

NOTES: SPT : STANDARD PENETRATION TEST N.M.C : NATURAL MOISTURE CONTENT RQD : ROCK QUALITY DESIGNTEGRATED DT : DIRECT SHEAR TEST

DS : DISTURBED SAMPLE C : CHOESION CR : CORE RECOVERY CD : Consolidated-Drained Triaxial Com

UDS : UNDISTURBED SAMPLE Φ : ANGLE OF INTERNAL FRICTION GW : GROUND WATER TABLE NO : NOT OPERATED



RAJADHANI LABS



LABORATORY TEST RESULTS

PROJECT NAME : GEO-TECHNICAL INVESTIGATION FOR PROPOSED CONSTRUCTION OF BUILDINGS FOR AMARAVATI LOCAL HEAD OFFICE AND OTHER OUTFITS AT AMARAVATI, ANDHRAPRADESH.

BORE HOLE NO : 9 BORE HOLE CODE : AO NO.OF FLOORS : 3 Cellars+15 +5 Future F

GROUND LEVELS : 100.00 m Ref TYPE OF STRUCTURE : LH OFFICE BUILDING TERMINATION DEPTH : 40.00 m

FIELD INVESTIGATION DATA							LABORATORY TEST IN SOIL															TESTS IN ROCK											
Elevation(m)	Nature of sampling	Depth below ref.level	SPT		Hatching	Description of Strata	Layer Thickness (m)	IS Classification	% Gravel	% Sand	% Silt	% Clay	N.M.C. (%)	Natural Density (t/m³)	Dry Density (t/m³)	Specific Gravity	Atterberg Limits			Direct/Tri-axial Shear Test			UCS (kg/cm²)	Consolidation Test		%Core Recovery	% R Q D	Point Load Test	UCS (Mpa)	Water Absorption & Porosity(%)	Specific Gravity	Density (t/m³)	Modulus of Elasticity(Gpa)
			Depth (m)	"N"Value													Liquid Limit (%)	Plastic Limit (%)	Plasticity Index(%)	Type of test	C(Kg/cm²)	φ (degree)		Cc	Void Ratio e₀								
90.0		10.00				Very dense grey Fine Sand (SP-SM)																											
89.5	SPT	10.50	10.5	34																													
89.0		11.00																															
88.5		11.50																															
88.0	SPT/DS	12.00	12	44			SP-SM	0.00	94.0	6.0	0.0	9.60	1.84	1.68	2.58	NP	NP	NP	DT	0.00	30.3	-	-	-	-	-	-	-	-	-	-	-	
87.5		12.50																															
87.0		13.00																															
86.5	SPT	13.50	13.5	46																													
86.0		14.00																															
85.5		14.50																															
85.0	SPT/DS	15.00	15	52			SP-SM	0.00	93.0	7.00	0.0	8.80	1.87	1.72		NP	NP	NP	DT	0.00	30.9	-	-	-	-	-	-	-	-	-	-	-	
84.5		15.50																															
84.0		16.00																															
83.5	SPT/DS	16.50	16.5	43																													
83.0		17.00																															
82.5		17.50																															
82.0	SPT/DS	18.00	18	48																													
81.5		18.50																															
81.0		19.00																															
80.5	SPT/DS	19.50	19.5	52			SP-SM	0.00	94.0	6.00	0.0	9.70	1.88	1.74	2.60	NP	NP	NP	DT	0.00	31.2	-	-	-	-	-	-	-	-	-	-	-	
80.0		20.00																															

NOTES: SPT : STANDARD PENETRATION TEST N.M.C. : NATURAL MOISTURE CONTENT RQD : ROCK QUALITY DESIGNTEGRATED DT : DIRECT SHEAR TEST

DS : DISTURBED SAMPLE C : CHOESION CR : CORE RECOVERY CD : Consolidated-Drained Triaxial Comp

UDS : UNDISTURBED SAMPLE Φ : ANGLE OF INTERNAL FRICTION GW : GROUND WATER TABLE NO : NOT OPERATED



RAJADHANI LABS



LABORATORY TEST RESULTS

PROJECT NAME : GEO-TECHNICAL INVESTIGATION FOR PROPOSED CONSTRUCTION OF BUILDINGS FOR AMARAVATI LOCAL HEAD OFFICE AND OTHER OUTFITS AT AMARAVATI ANDHRAPRADESH.

BORE HOLE NO : 9 BORE HOLE CODE : AO NO.OF FLOORS : 3 Cellars +15 + 5 Future F.

GROUND LEVELS : 100.00 m Ref TYPE OF STRUCTURE : LH OFFICE BUILDING TERMINATION DEPTH : 40.00 m

FIELD INVESTIGATION DATA							LABORATORY TEST IN SOIL																TESTS IN ROCK										
Elevation(m)	Nature of sampling	Depth below ref.level	SPT		Hatching	Description of Strata	Layer Thickness (m)	IS Classification	% Gravel	% Sand	% Silt	% Clay	N.M.C. (%)	Natural Density (t/m³)	Dry Density (t/m³)	Specific Gravity	Atterberg Limits			Direct/Tri-axial Shear Test			UCS (kg/cm²)	Consolidation Test		%Core Recovery	% R Q D	Point Load Test	UCS (Mpa)	Water Absorption & Porosity(%)	Specific Gravity	Density (t/m³)	Modulus of Elasticity(Gpa)
			Depth (m)	N Value													Liquid Limit (%)	Plastic Limit (%)	Plasticity Index(%)	Type of test	C (Kg/cm²)	Φ (degree)		Cc	Void Ratio e ₀								
80.0		20.00	22.5	16		Very stiff brown sandy silt, Medium plastic silty clay (CI)		CI	0.00	22.0	42.0	36.0	12.80	1.73	1.53	2.65	46.5	26.4	20.1	CD	0.54	8.00	1.08	-	-	-	-	-	-	-	-	-	-
79.5		20.50																															
79.0	UDS	21.00																															
78.5		21.50																															
78.0		22.00																															
77.5	SPT	22.50	25.5	16			CI	0.00	22.0	45.0	33.0	12.60	1.76	1.56		45.6	26.3	19.3	CD	0.52	8.30	1.04	-	-	-	-	-	-	-	-	-	-	-
77.0		23.00																															
76.5		23.50																															
76.0	UDS	24.00																															
75.5		24.50																															
75.0		25.00	28.5	60		Residual Soil (or) Completely Weathered Rock (CWR)		CI	0.00	13.0	48.0	39.0	12.30	1.77	1.58	2.65	47.4	27.2	20.2	CD	0.51	8.60	1.02	-	-	-	-	-	-	-	-	-	-
74.5	SPT	25.50																															
74.0		26.00																															
73.5		26.50																															
73.0	UDS	27.00																															
72.5		27.50	28.5	60		Residual Soil (or) Completely Weathered Rock (CWR)		CI	0.00	13.0	48.0	39.0	12.30	1.77	1.58	2.65	47.4	27.2	20.2	CD	0.51	8.60	1.02	-	-	-	-	-	-	-	-	-	-
72.0		28.00																															
71.5	SPT	28.50																															
71.0		29.00																															
70.5		29.50																															
70.0		30.00							0.00	92.0	8.00	0.00	7.80	1.94	1.80		NP	NP	NP	DT	0.0	33.2	-	-	-	-	-	-	-	-	-	-	-

NOTES: SPT : STANDARD PENETRATION TEST N.M.C : NATURAL MOISTURE CONTENT R.Q.D : ROCK QUALITY DESIGNTEGRATED DT : DIRECT SHEAR TEST

DS : DISTURBED SAMPLE C : CHOESION CR : CORE RECOVERY TS : TRIAXIAL TEST

UDS : UNDISTURBED SAMPLE Φ : ANGLE OF INTERNAL FRICTION GW : GROUND WATER TABLE NO : NOT OPERATED



RAJADHANI LABS



LABORATORY TEST RESULTS

PROJECT NAME : GEO-TECHNICAL INVESTIGATION FOR PROPOSED CONSTRUCTION OF BUILDINGS FOR AMARAVATI LOCAL HEAD OFFICE AND OTHER OUTFITS AT AMARAVATI ANDHRAPRADESH.

BORE HOLE NO : 9 BORE HOLE CODE : AO NO.OF FLOORS : 3 Cellars +15 +5 Future F.

GROUND LEVELS : 100.00 m Ref TYPE OF STRUCTURE : LH OFFICE BUILDING TERMINATION DEPTH : 40.00 m

FIELD INVESTIGATION DATA							LABORATORY TEST IN SOIL														TESTS IN ROCK												
Elevation(m)	Nature of sampling	Depth below ref.level	SPT		Hatching	Description of Strata	Layer Thickness (m)	IS Classification	% Gravel	% Sand	% Silt	% Clay	N.M.C. (%)	Natural Density (t/m³)	Dry Density (t/m³)	Specific Gravity	Atterberg Limits			Direct/Tri-axial Shear Test			UCS (kg/cm²)	Consolidation Test		%Core Recovery	% R Q D	Point Load Test	UCS (Mpa)	Water Absorption & Porosity(%)	Specific Gravity	Density (t/m³)	Modulus of Elasticity(Gpa)
			Depth (m)	"N"Value													Liquid Limit (%)	Plastic Limit (%)	Plasticity Index(%)	Type of test	C (Kg/cm²)	φ (degree)		Cc	Void Ratio e₀								
70.0	SPT	30.00	31.5	64		Residual Soil (or) Completely Weathered Rock (CWR)											NP	NP	NP	DT	0.00	34.6	-	-	-	-	-	-	-	-	-	-	-
69.5		30.50																															
69.0		31.00																															
68.5		31.50																															
68.0		32.00																															
67.5		32.50																															
67.0		33.00																															
66.5	33.50																																
66.0	SPT/DS	34.00	34	77		Residual Soil (or) Completely Weathered Rock (CWR)			0.00	92.0	8.0	0.0	7.80	1.94	1.80	2.69	NP	NP	NP	DT	0.00	34.6	-	-	-	-	-	-	-	-	-	-	-
65.5	34.50																																
65.0	35.00																																
64.5	35.50																																
64.0	36.00																																
63.5	36.50																																
63.0	SPT/DS	37.00	37	>100																													
62.5	37.50																																
62.0	38.00																																
61.5	38.50																																
61.0	39.00																																
60.5	39.50																																
60.0	SPT/DS	40.00	40	>100			40.0		0.00	94.0	6.00	0.00	6.50	1.97	1.85	2.71	NP	NP	NP	DT	0.0	35.7	-	-	-	-	-	-	-	-	-	-	-

NOTES: SPT : STANDARD PENETRATION TEST N.M.C : NATURAL MOISTURE CONTENT RQD : ROCK QUALITY DESIGNTEGRATED DT : DIRECT SHEAR TEST

DS : DISTURBED SAMPLE C : CHOESION CR : CORE RECOVERY CD : Consolidated-Drained Triaxial Com

UDS : UNDISTURBED SAMPLE Φ : ANGLE OF INTERNAL FRICTION GW : GROUND WATER TABLE NO : NOT OPERATED

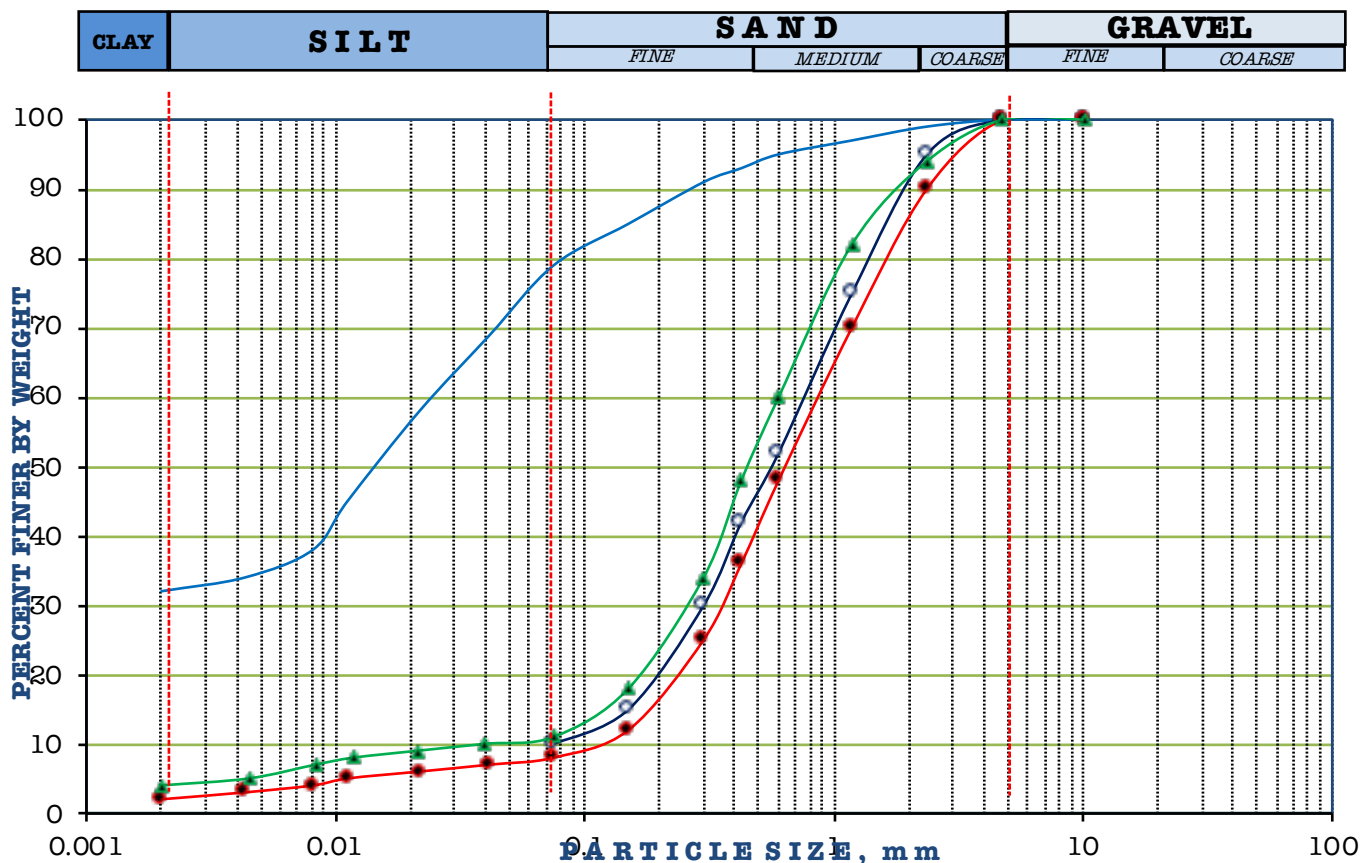


MEDINI

GEO ENGINEERING SERVICES

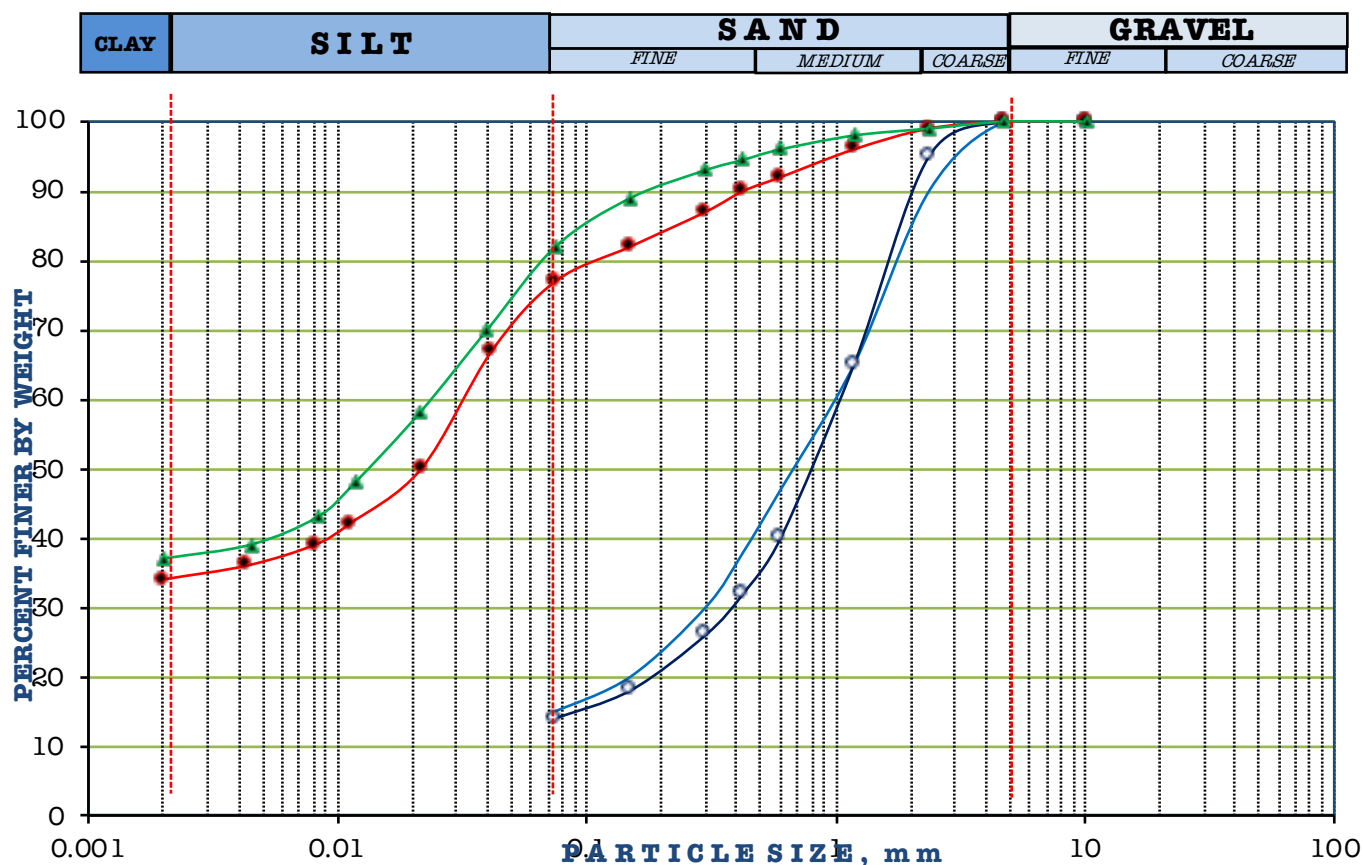
ANNEXURE-IV

GRAIN SIZE ANALYSIS GRAPHS

**MEDINI****GEO ENGINEERING SERVICES****GRAIN SIZE ANALYSIS GRAPHS**

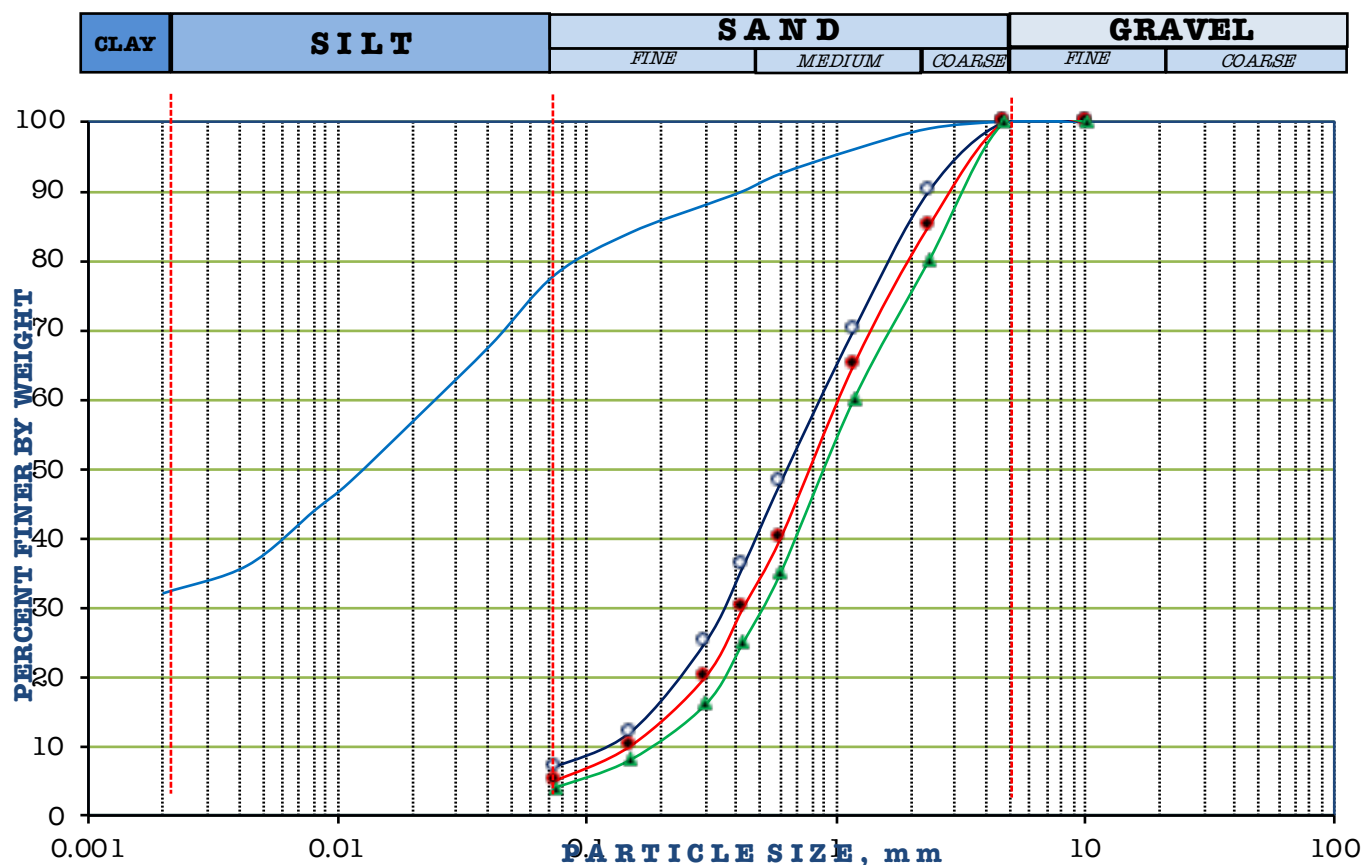
SYMBOL	BH. NO	DEPTH m	DESCRIPTION	GRAVEL %	SAND %	SILT %	CLAY %	D ₆₀	D ₁₀	C _u
	1	1.50	Very stiff brown sandy silt, low plastic (CL)	0	21	47	32			
○—○	1	3.00	Very dense grey Fine Sand (SP-SM)	0	90	10	0			
●—●	1	6.00	Very dense grey Fine Sand (SP-SM)	0	92	6	2			
▲—▲	1	9.00	Very dense grey Fine Sand (SP-SM)	0	89	7	4			

**GEOTECHNICAL INVESTIGATION FOR PROPOSED CONSTRUCTION OF BUILDINGS
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**MEDINI****GEO ENGINEERING SERVICES****GRAIN SIZE ANALYSIS GRAPHS**

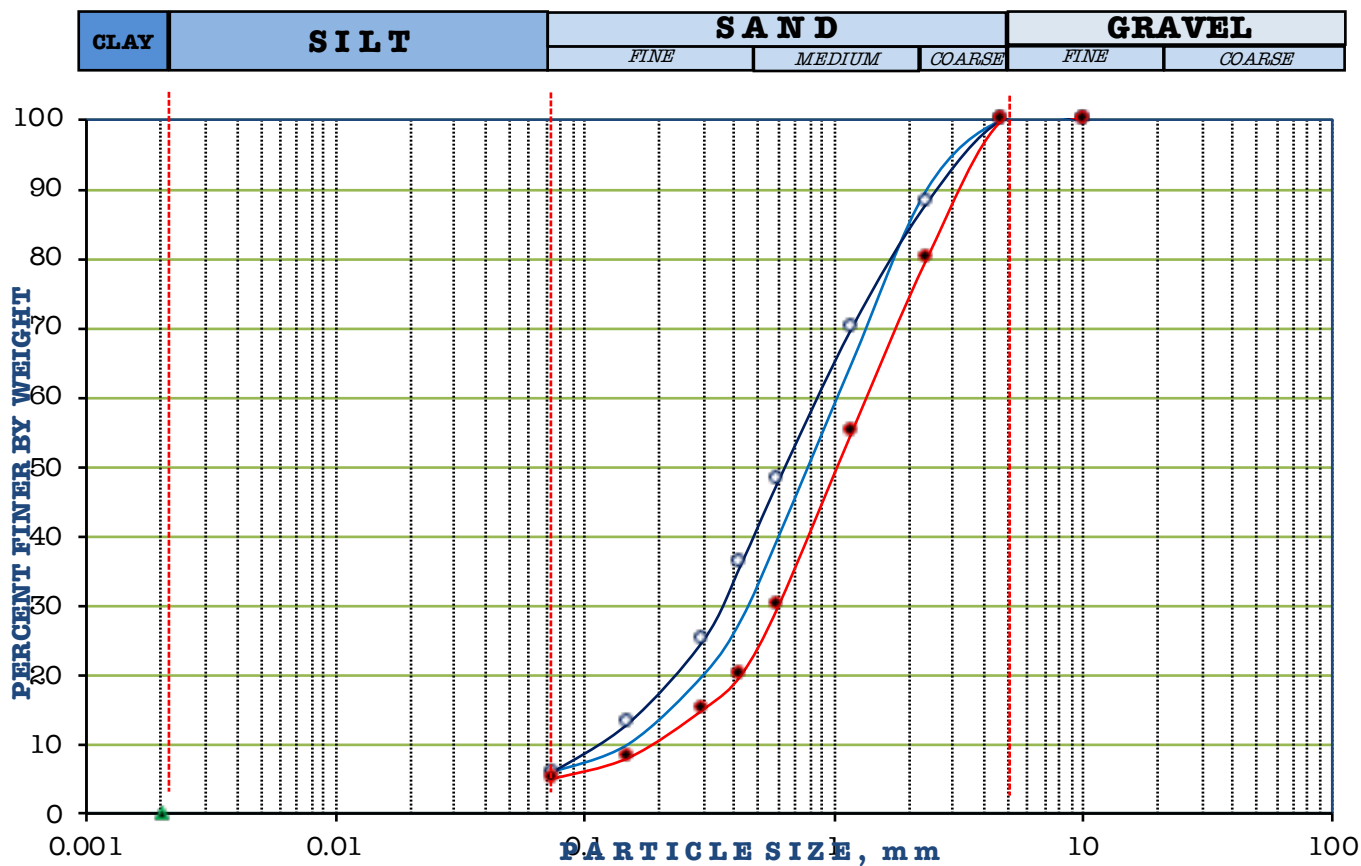
SYMBOL	BH. NO	DEPTH m	DESCRIPTION	GRAVEL %	SAND %	SILT %	CLAY %	D ₆₀	D ₁₀	C _u
	1	12.00	Very dense grey Fine Sand (SP-SM)	0	85	15	0			
○—○	1	14.50	Very dense grey Fine Sand (SP-SM)	0	86	14	0			
●—●	1	16.50	Very stiff brown sandy silt, Medium plastic silty clay (CI)	0	23	43	34			
▲—▲	1	19.50	Very stiff brown sandy silt, Medium plastic silty clay (CI)	0	18	45	37			

**GEOTECHNICAL INVESTIGATION FOR PROPOSED CONSTRUCTION OF BUILDINGS
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**MEDINI****GEO ENGINEERING SERVICES****GRAIN SIZE
ANALYSIS GRAPHS**

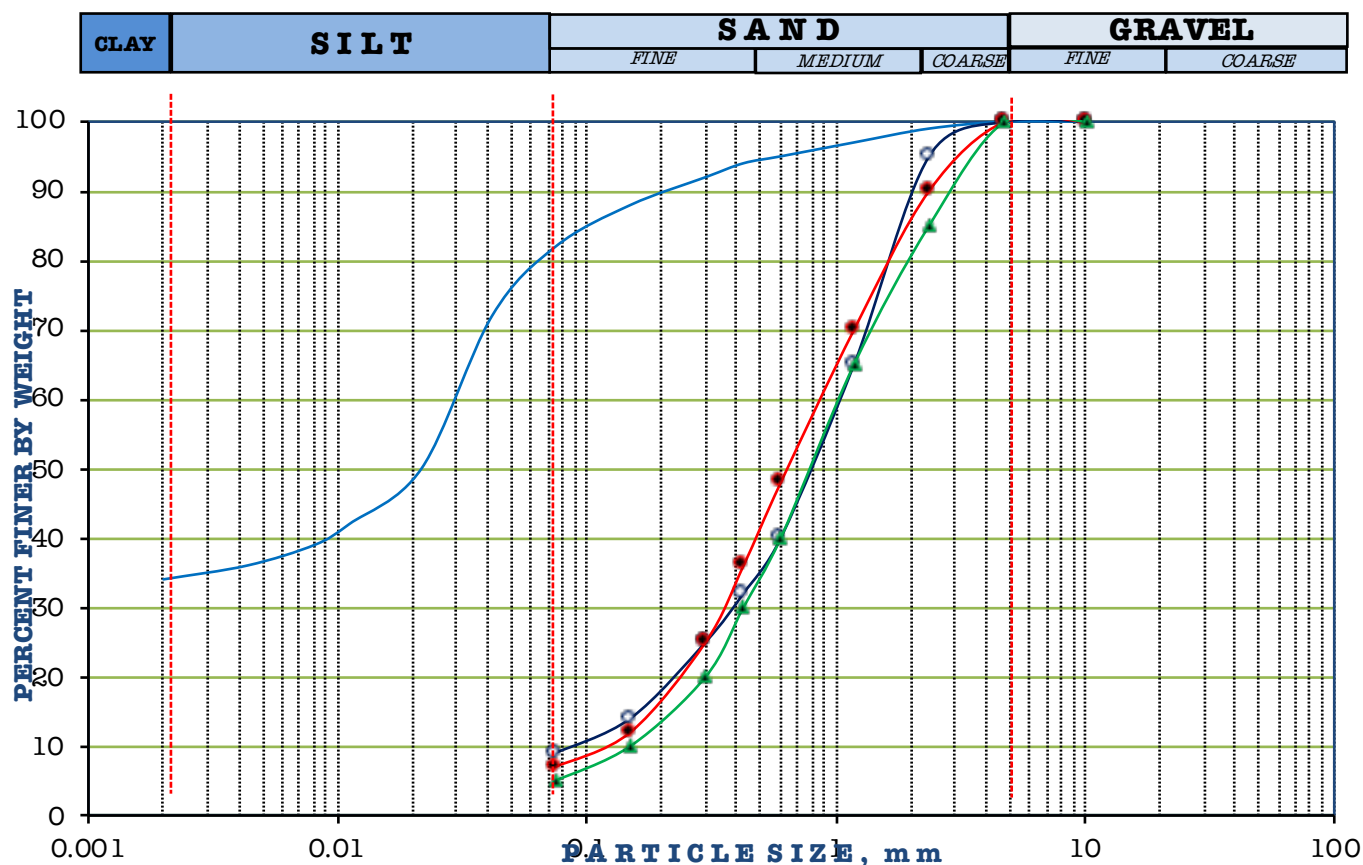
SYMBOL	BH. NO	DEPTH m	DESCRIPTION	GRAVEL %	SAND %	SILT %	CLAY %	D ₆₀	D ₁₀	C _u
—	1	22.50	Very stiff brown sandy silt, medium plastic (CI)	0	22	46	32			
○—○	1	24.00	Residual Soil (or) Completely Weathered Rock (CWR)	0	93	7	0			
●—●	1	27.00	Residual Soil (or) Completely Weathered Rock (CWR)	0	95	5	0			
▲—▲	1	30.00	Residual Soil (or) Completely Weathered Rock (CWR)	0	96	4	0			

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**MEDINI****GEO ENGINEERING SERVICES****GRAIN SIZE
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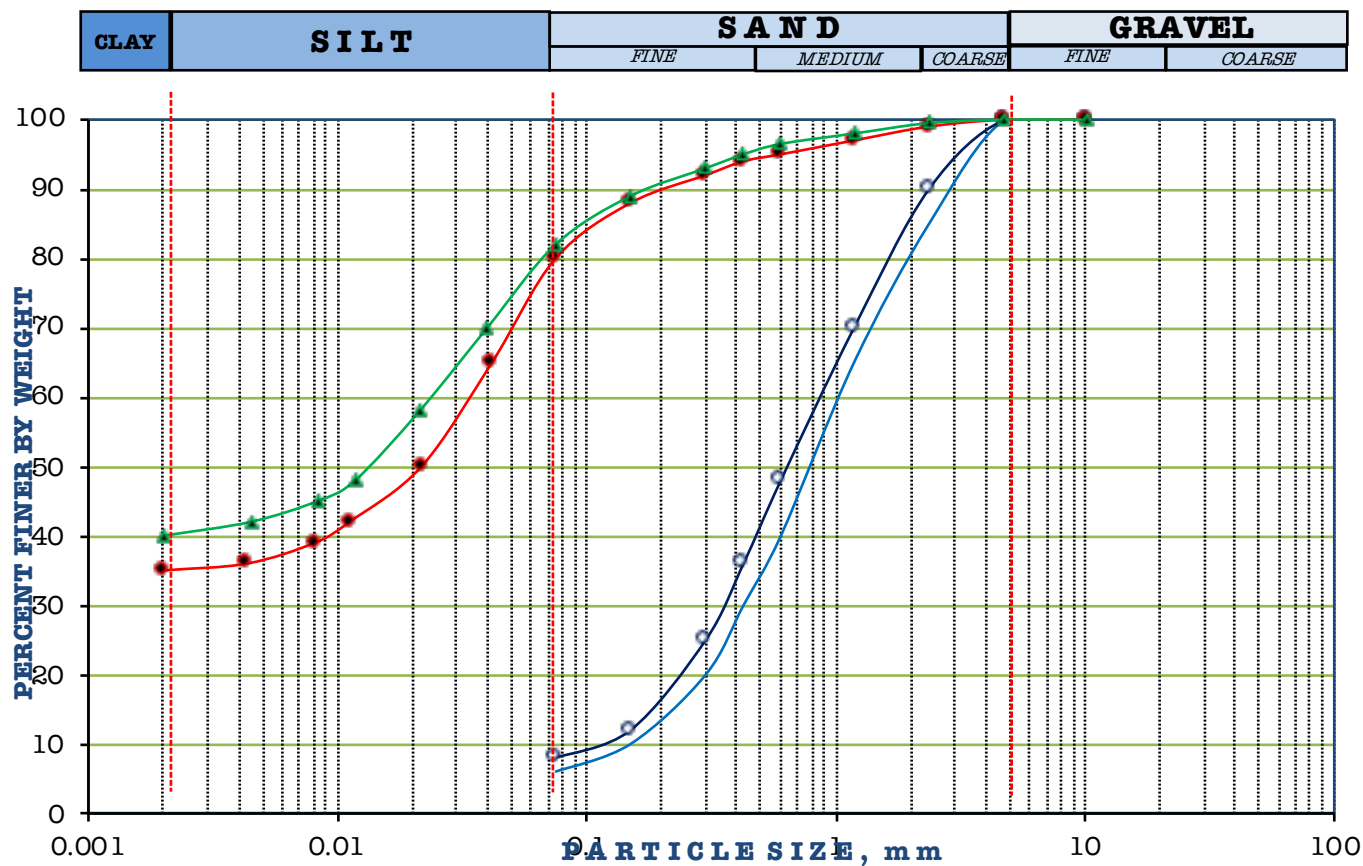
SYMBOL	BH. NO	DEPTH m	DESCRIPTION	GRAVEL %	SAND %	SILT %	CLAY %	D ₆₀	D ₁₀	C _u
	1	33.00	Residual Soil (or) Completely Weathered Rock (CWR)	0	94	6	0			
○ — ○	1	36.00	Residual Soil (or) Completely Weathered Rock (CWR)	0	94	6	0			
● — ●	1	39.00	Residual Soil (or) Completely Weathered Rock (CWR)	0	95	5	0			
▲ — ▲										

**GEOTECHNICAL INVESTIGATION FOR PROPOSED CONSTRUCTION OF BUILDINGS
FOR AMARAVATI LOCAL HEAD OFFICE AND OTHER OUTFITS AT AMARAVATI,
ANDHRAPRADESH.**

**MEDINI****GEO ENGINEERING SERVICES****GRAIN SIZE
ANALYSIS GRAPHS**

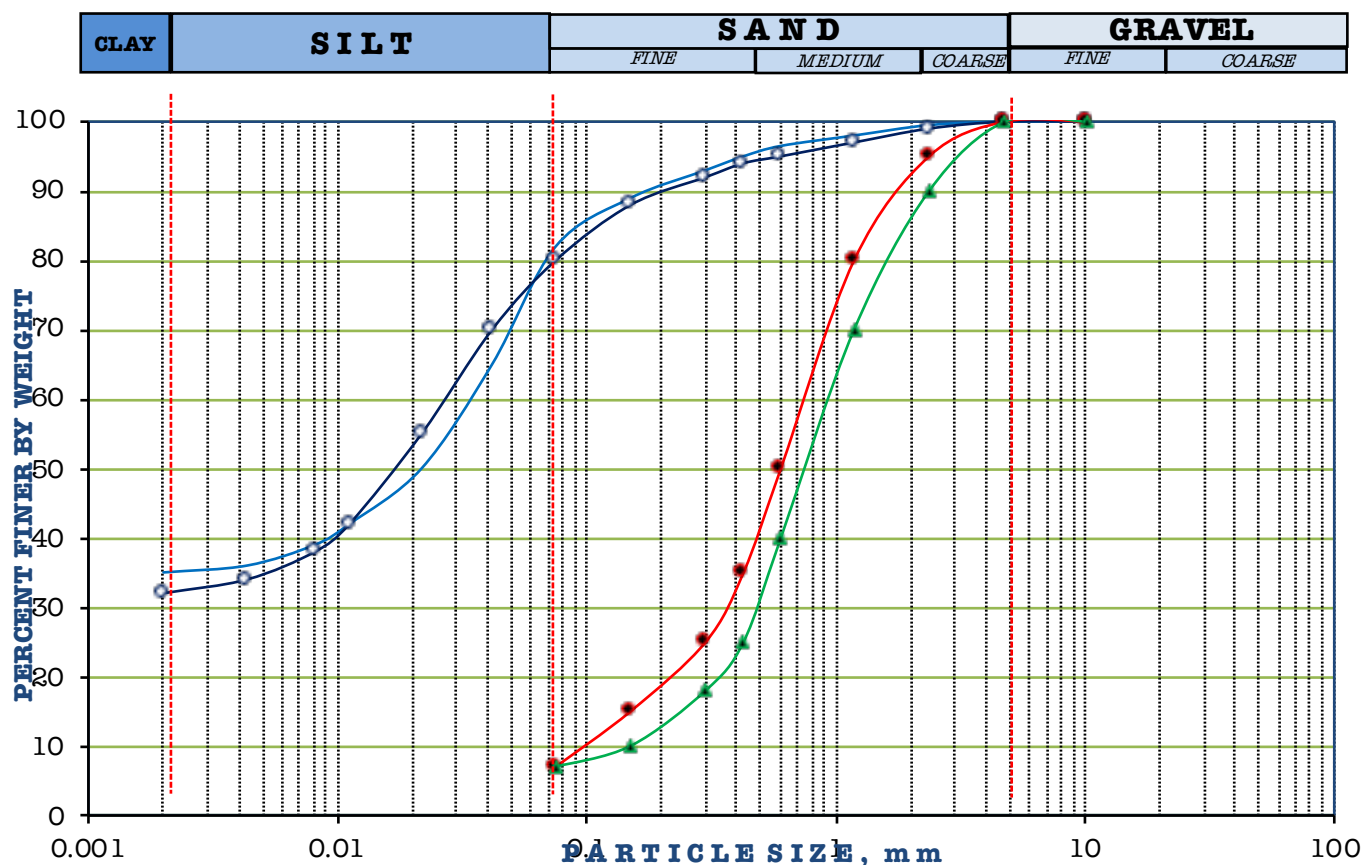
SYMBOL	BH. NO	DEPTH m	DESCRIPTION	GRAVEL %	SAND %	SILT %	CLAY %	D ₆₀	D ₁₀	C _u
	2	1.50	Very stiff brown sandy silt, low plastic (CL)	0	18	48	34			
○—○	2	3.00	Very dense grey Fine Sand (SP-SM)	0	91	9	0			
●—●	2	6.00	Very dense grey Fine Sand (SP-SM)	0	93	7	0			
▲—▲	2	9.00	Very dense grey Fine Sand (SP-SM)	0	95	5	0			

**GEOTECHNICAL INVESTIGATION FOR PROPOSED CONSTRUCTION OF BUILDINGS
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**MEDINI****GEO ENGINEERING SERVICES****GRAIN SIZE ANALYSIS GRAPHS**

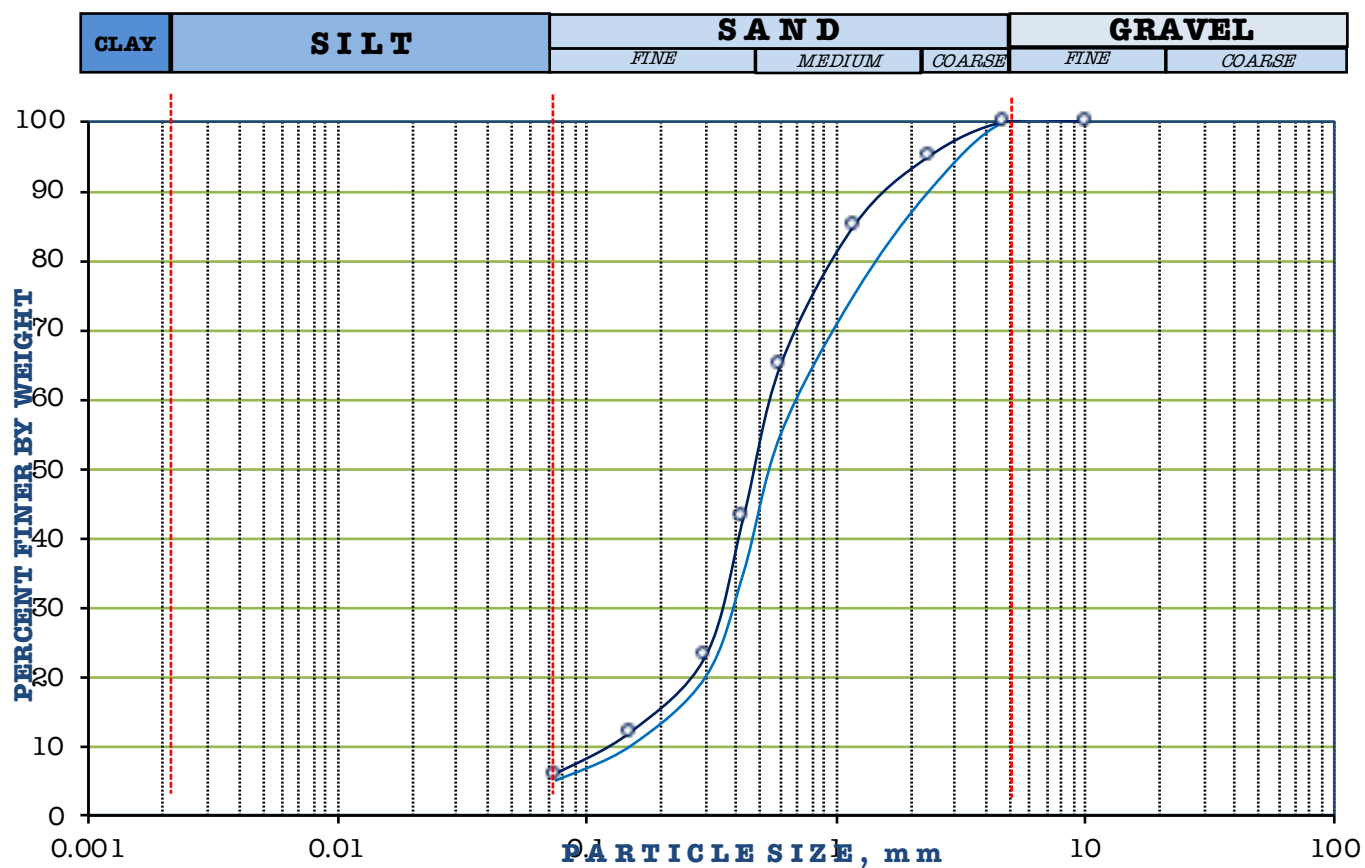
SYMBOL	BH. NO	DEPTH m	DESCRIPTION	GRAVEL %	SAND %	SILT %	CLAY %	D ₆₀	D ₁₀	C _u
	2	12.00	Very dense grey Fine Sand (SP-SM)	0	94	6	0			
○—○	2	15.00	Very dense grey Fine Sand (SP-SM)	0	92	8	0			
●—●	2	16.50	Very stiff brown sandy silt, medium plastic (CI)	0	20	45	35			
▲—▲	2	19.50	Very stiff brown sandy silt, medium plastic (CI)	0	18	42	40			

**GEOTECHNICAL INVESTIGATION FOR PROPOSED CONSTRUCTION OF BUILDINGS
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**MEDINI****GEO ENGINEERING SERVICES****GRAIN SIZE ANALYSIS GRAPHS**

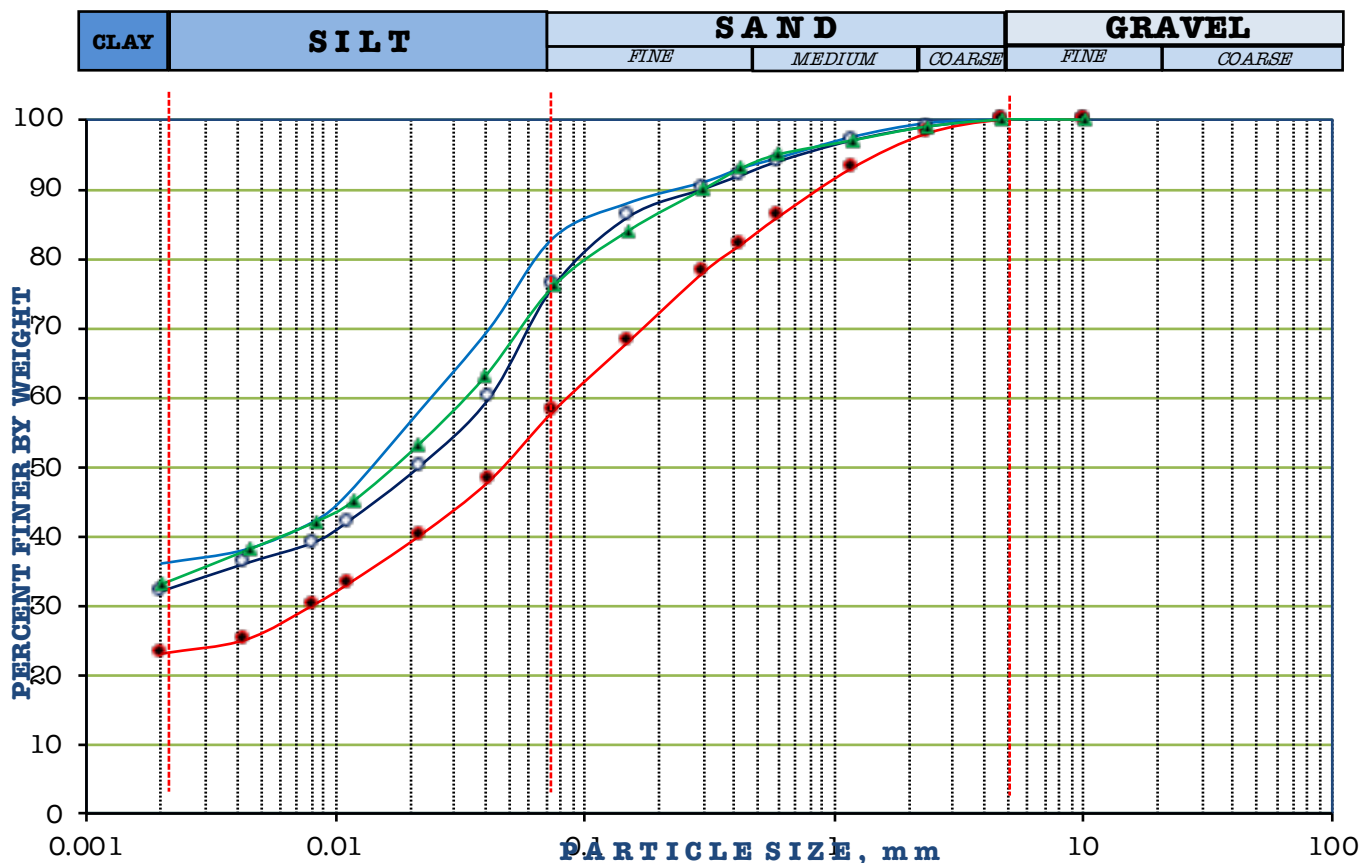
SYMBOL	BH. NO	DEPTH m	DESCRIPTION	GRAVEL %	SAND %	SILT %	CLAY %	D ₆₀	D ₁₀	C _u
	2	21.00	Very stiff brown sandy silt, Medium plastic silty clay (CI)	0	18	47	35			
○—○	2	24.00	Very stiff brown sandy silt, Medium plastic silty clay (CI)	0	20	48	32			
●—●	2	30.00	Residual Soil (or) Completely Weathered Rock (CWR)	0	93	7	0			
▲—▲	2	33.00	Residual Soil (or) Completely Weathered Rock (CWR)	0	93	7	0			

**GEOTECHNICAL INVESTIGATION FOR PROPOSED CONSTRUCTION OF BUILDINGS
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**MEDINI****GEO ENGINEERING SERVICES****GRAIN SIZE
ANALYSIS GRAPHS**

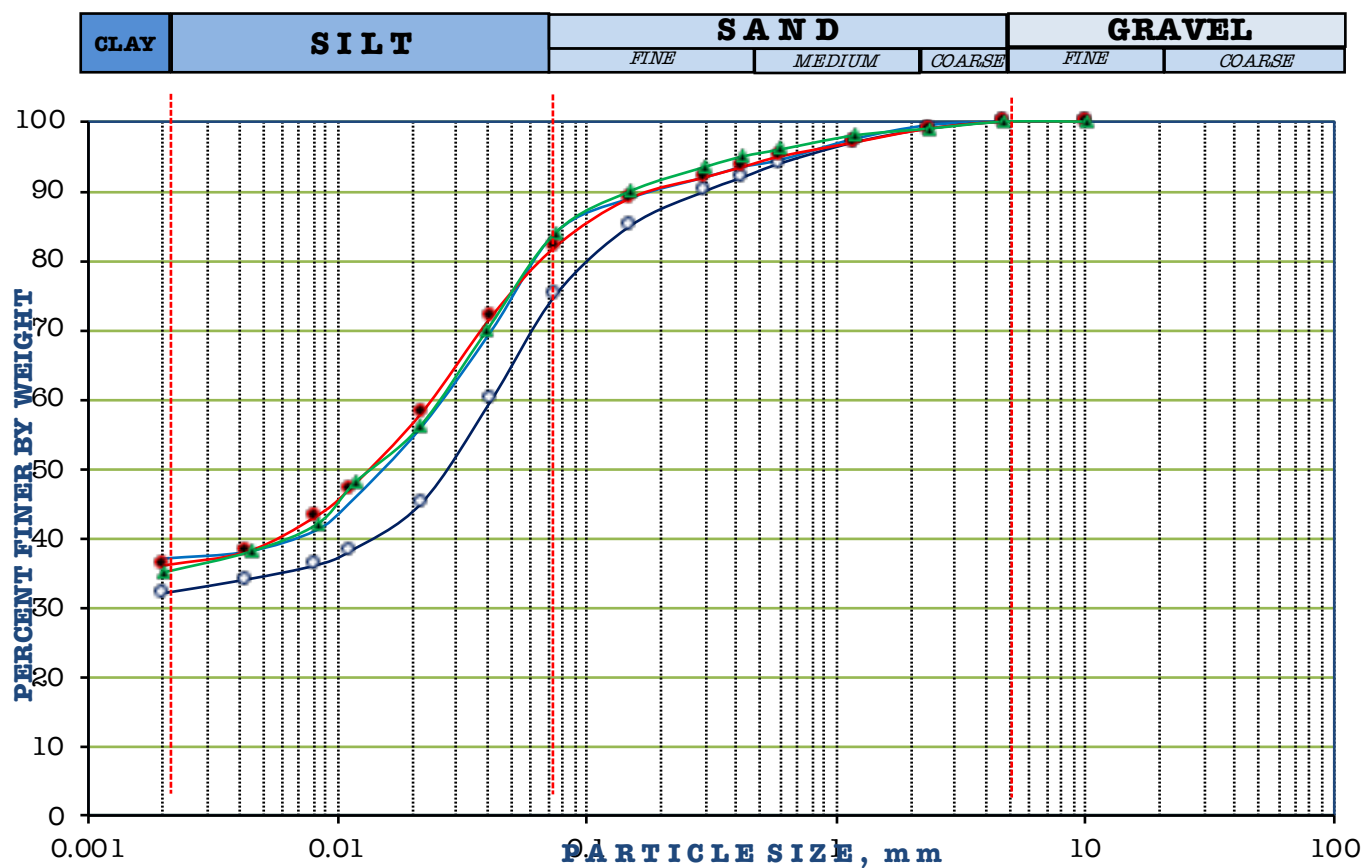
SYMBOL	BH. NO	DEPTH m	DESCRIPTION	GRAVEL %	SAND %	SILT %	CLAY %	D ₆₀	D ₁₀	C _u
	2	36.00	Residual Soil (or) Completely Weathered Rock (CWR)	0	95	5	0			
○ — ○	2	39.00	Residual Soil (or) Completely Weathered Rock (CWR)	0	94	6	0			
● — ●										
▲ — ▲										

**GEOTECHNICAL INVESTIGATION FOR PROPOSED CONSTRUCTION OF BUILDINGS
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**MEDINI****GEO ENGINEERING SERVICES****GRAIN SIZE ANALYSIS GRAPHS**

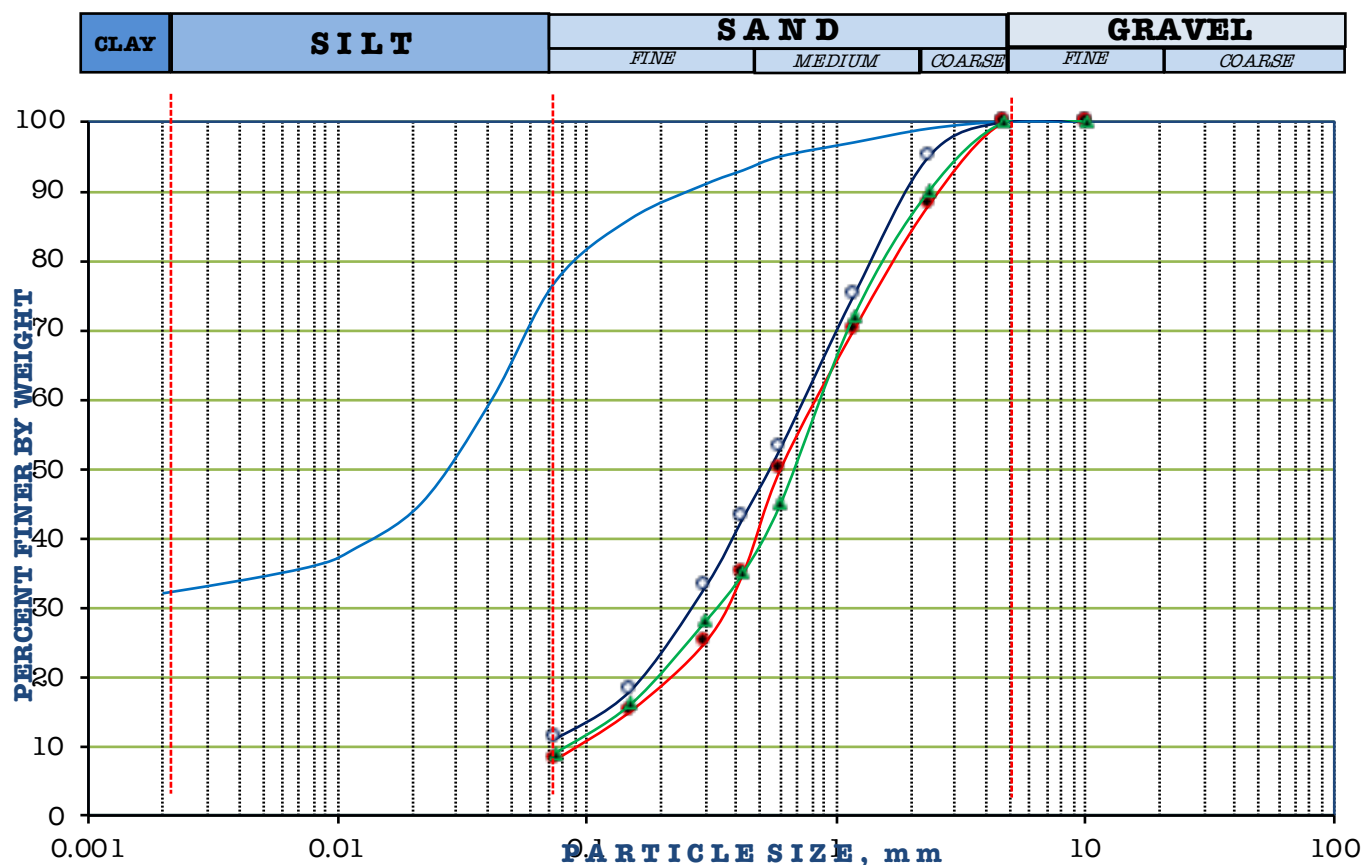
SYMBOL	BH. NO	DEPTH m	DESCRIPTION	GRAVEL %	SAND %	SILT %	CLAY %	D ₆₀	D ₁₀	C _u
	3	1.50	Very stiff brown sandy silt, medium plastic silty clay (CI)	0	17	47	36			
○—○	3	6.00	Very stiff brown sandy silt, medium plastic silty clay (CI)	0	24	44	32			
●—●	3	9.00	Very dense grey Fine Sand (SP-SM)	0	42	35	23			
▲—▲	3	12.00	Very stiff brown sandy silt, medium plastic silty clay (CI)	0	24	43	33			

**GEOTECHNICAL INVESTIGATION FOR PROPOSED CONSTRUCTION OF BUILDINGS
FOR AMARAVATI LOCAL HEAD OFFICE AND OTHER OUTFITS AT AMARAVATI,
ANDHRA PRADESH.**



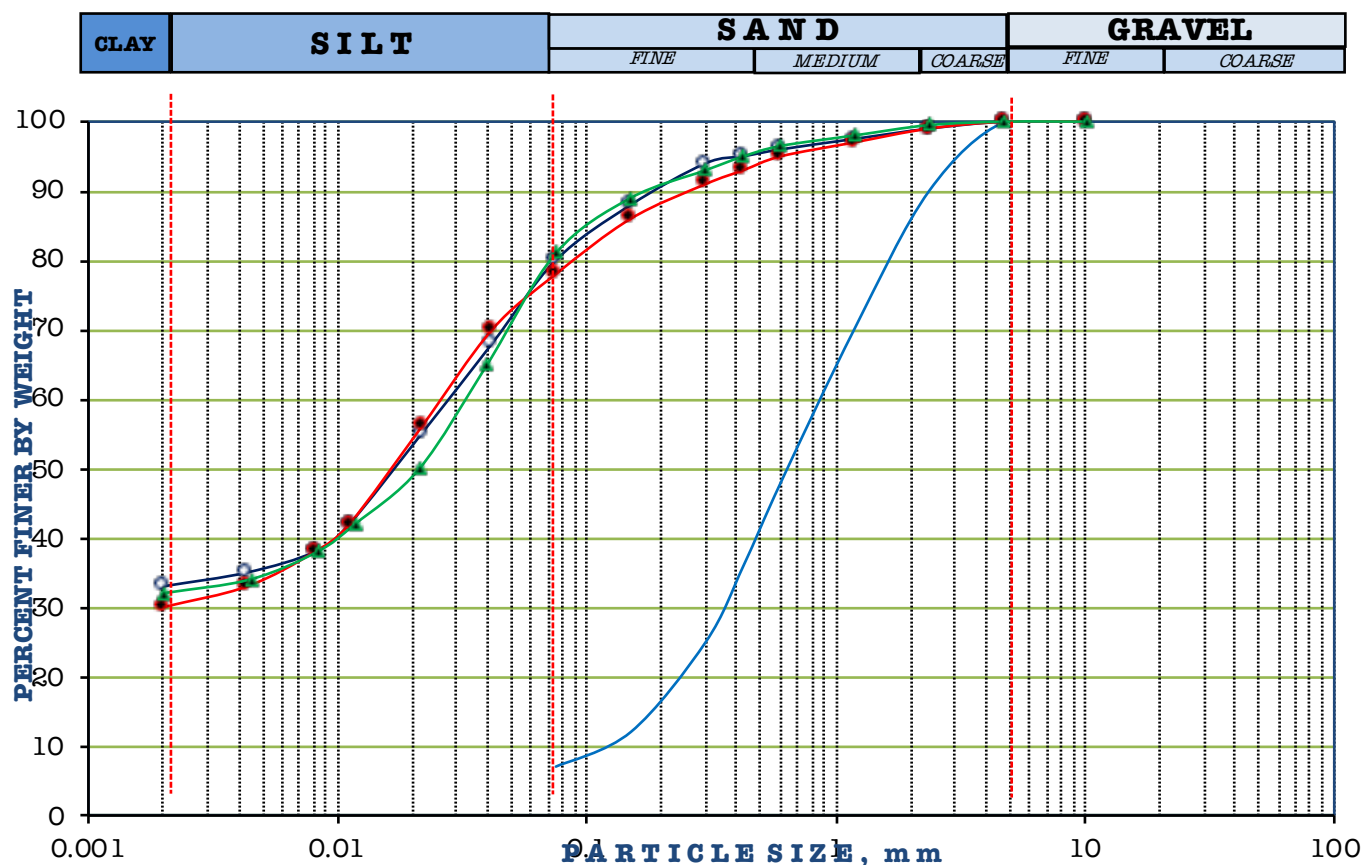
SYMBOL	BH. NO	DEPTH m	DESCRIPTION	GRAVEL %	SAND %	SILT %	CLAY %	D ₆₀	D ₁₀	C _u
	3	15.00	Very stiff brown sandy silt, Medium plastic silty clay (CI)	0	16	47	37			
○—○	3	21.50	Very stiff brown sandy silt, Medium plastic silty clay (CI)	0	25	43	32			
●—●	3	23.50	Very stiff brown sandy silt, Medium plastic silty clay (CI)	0	18	46	36			
▲—▲	3	27.00	Very stiff brown sandy silt, Medium plastic silty clay (CI)	0	16	49	35			

**GEOTECHNICAL INVESTIGATION FOR PROPOSED CONSTRUCTION OF BUILDINGS
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**MEDINI****GEO ENGINEERING SERVICES****GRAIN SIZE
ANALYSIS GRAPHS**

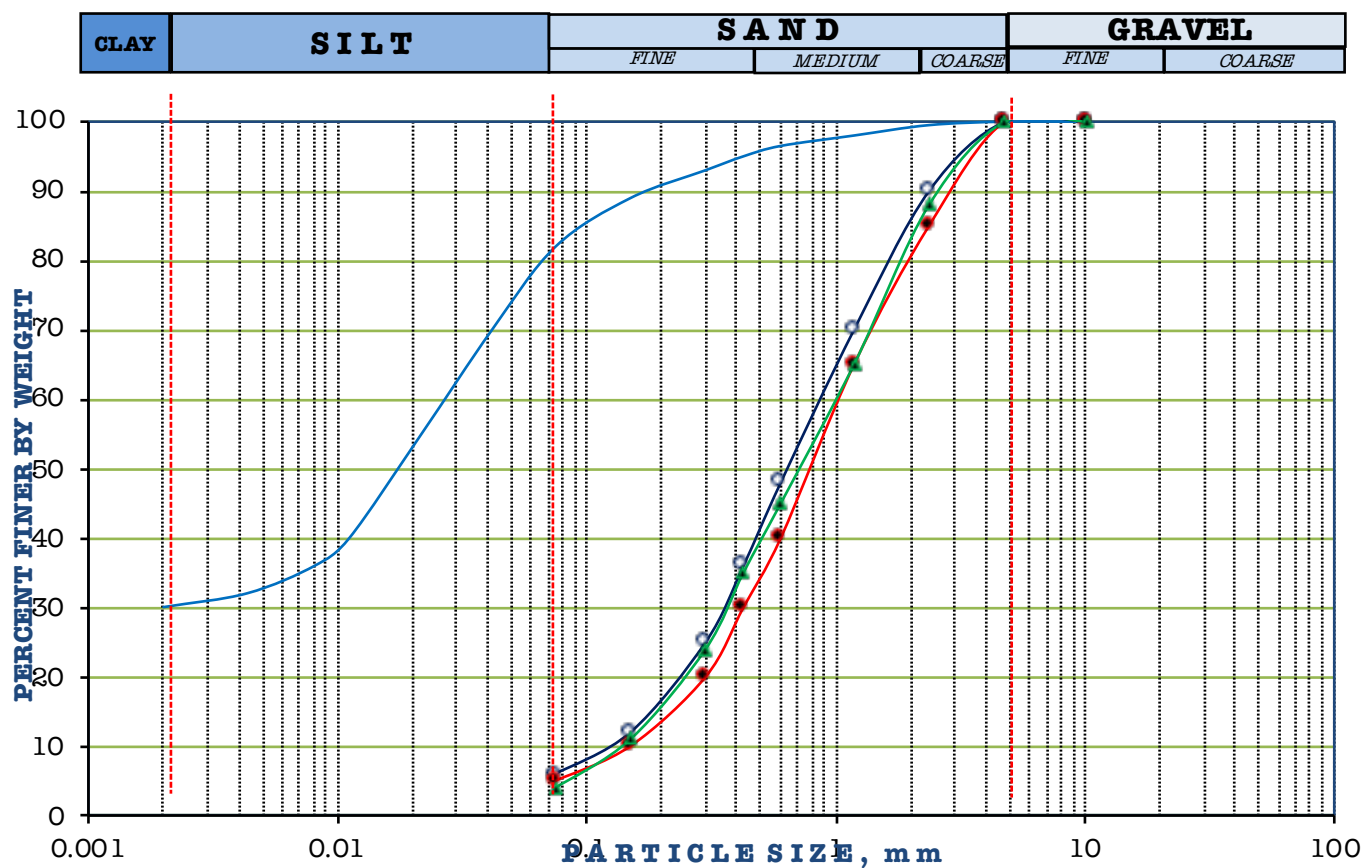
SYMBOL	BH. NO	DEPTH m	DESCRIPTION	GRAVEL %	SAND %	SILT %	CLAY %	D ₆₀	D ₁₀	C _u
	4	1.50	Very stiff brown sandy silt, low plastic (CL)	0	23	45	32			
○—○	4	6.00	Very dense grey Fine Sand (SP-SM)	0	89	11	0			
●—●	4	9.00	Very dense grey Fine Sand (SP-SM)	0	92	8	0			
▲—▲	4	12.00	Very dense grey Fine Sand (SP-SM)	0	91	9	0			

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**MEDINI****GEO ENGINEERING SERVICES****GRAIN SIZE ANALYSIS GRAPHS**

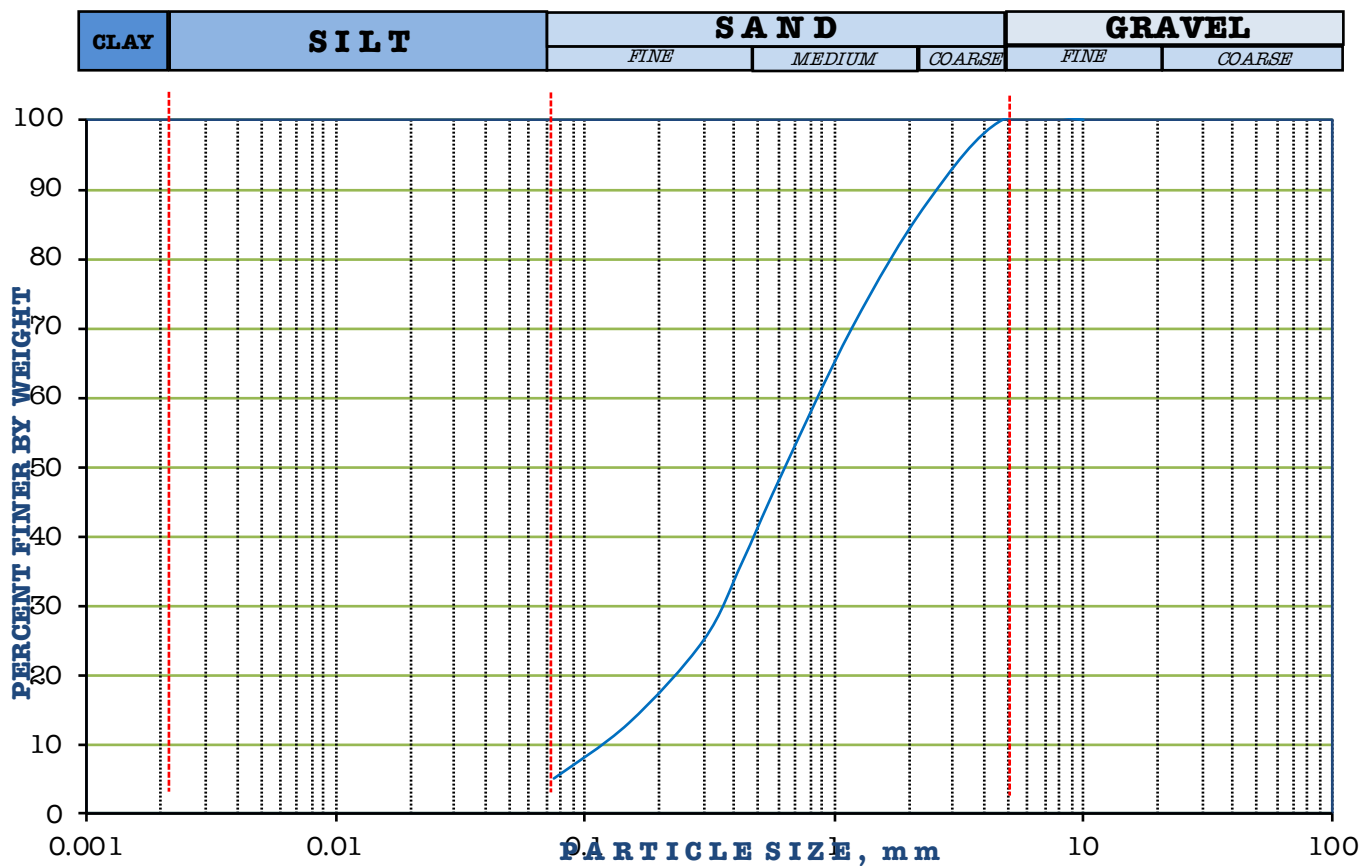
SYMBOL	BH. NO	DEPTH m	DESCRIPTION	GRAVEL %	SAND %	SILT %	CLAY %	D ₆₀	D ₁₀	C _u
	4	15.00	Very dense grey Fine Sand (SP-SM)	0	93	7	0			
○—○	4	16.50	Very stiff brown sandy silt, Medium plastic silty clay (CI)	0	20	47	33			
●—●	4	19.50	Very stiff brown sandy silt, Medium plastic silty clay (CI)	0	22	48	30			
▲—▲	4	22.50	Very stiff brown sandy silt, Medium plastic silty clay (CI)	0	19	49	32			

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**MEDINI****GEO ENGINEERING SERVICES****GRAIN SIZE ANALYSIS GRAPHS**

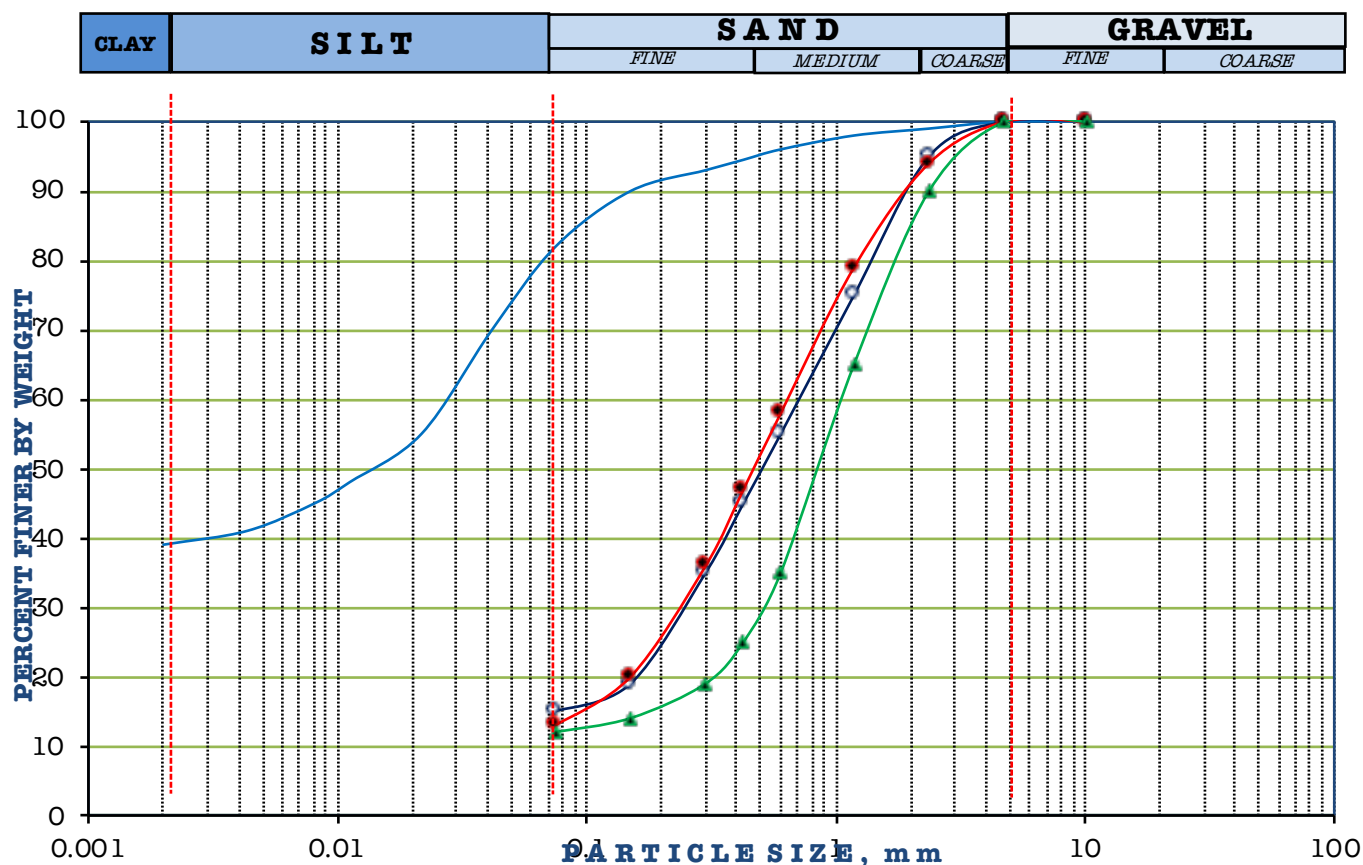
SYMBOL	BH. NO	DEPTH m	DESCRIPTION	GRAVEL %	SAND %	SILT %	CLAY %	D ₆₀	D ₁₀	C _u
	4	25.50	Very stiff brown sandy silt, Medium plastic silty clay (CI)	0	18	52	30			
○—○	4	30.00	Residual Soil (or) Completely Weathered Rock (CWR)	0	94	6	0			
●—●	4	34.00	Residual Soil (or) Completely Weathered Rock (CWR)	0	95	5	0			
▲—▲	4	37.00	Residual Soil (or) Completely Weathered Rock (CWR)	0	96	4	0			

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**MEDINI****GEO ENGINEERING SERVICES****GRAIN SIZE
ANALYSIS GRAPHS**

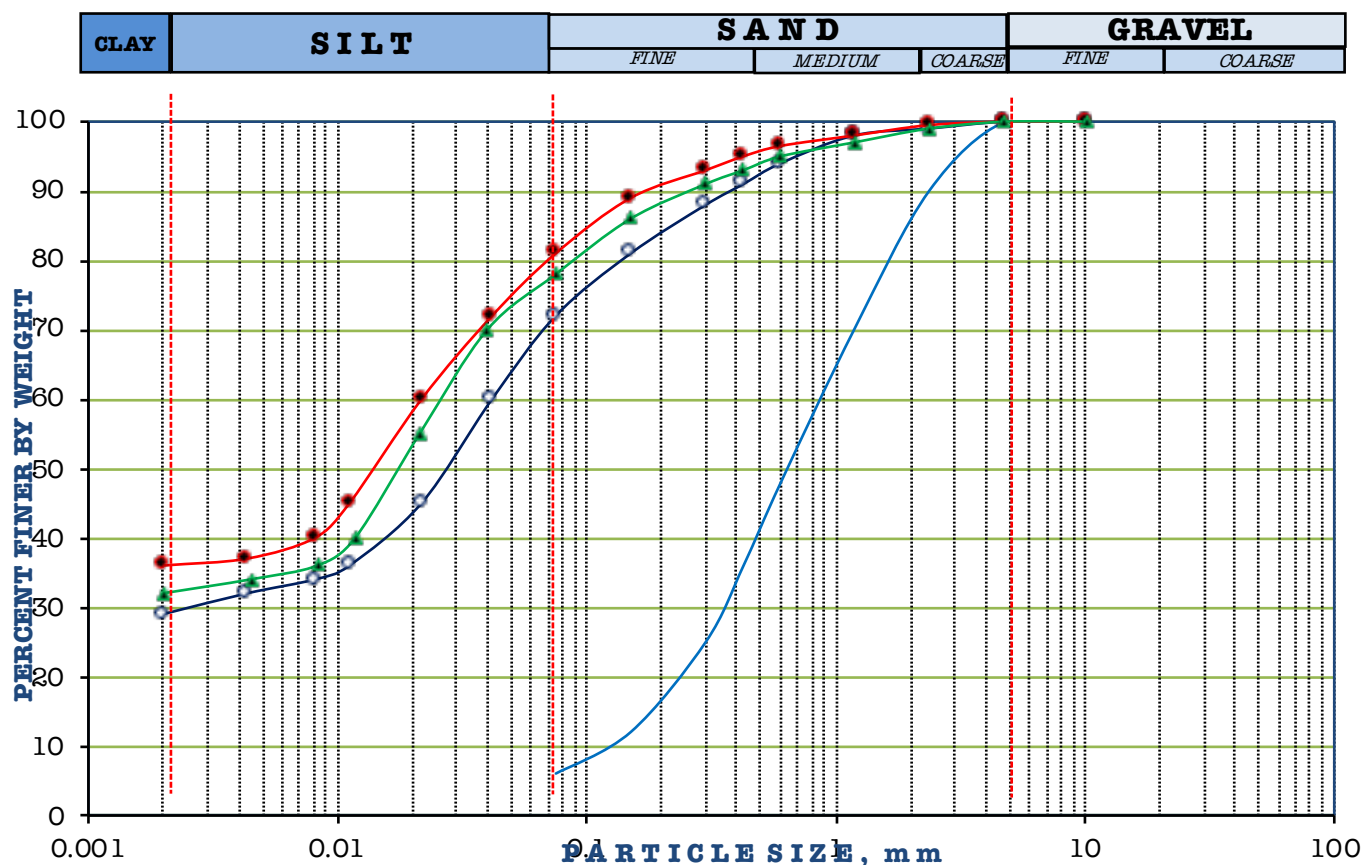
SYMBOL	BH. NO	DEPTH m	DESCRIPTION	GRAVEL %	SAND %	SILT %	CLAY %	D ₆₀	D ₁₀	C _u
	4	40.00	Residual Soil (or) Completely Weathered Rock (CWR)	0	95	5	0			
○ — ○										
● — ●										
▲ — ▲										

**GEOTECHNICAL INVESTIGATION FOR PROPOSED CONSTRUCTION OF BUILDINGS
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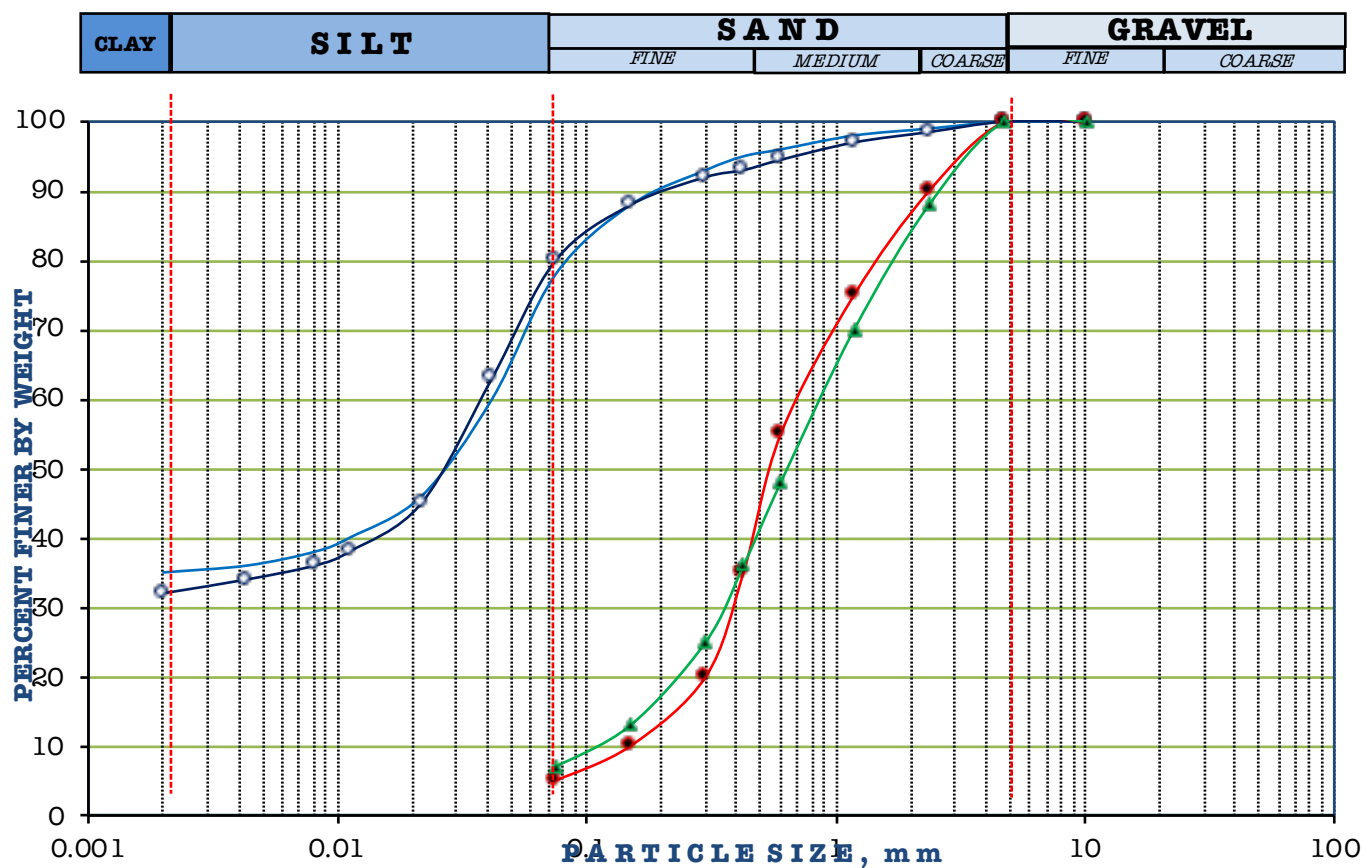
SYMBOL	BH. NO	DEPTH m	DESCRIPTION	GRAVEL %	SAND %	SILT %	CLAY %	D ₆₀	D ₁₀	C _u
	5	1.50	Very stiff brown sandy silt, low plastic (CL)	0	18	43	39			
	5	3.00	Very dense grey Fine Sand (SP-SM)	0	85	15	0			
	5	6.00	Very dense grey Fine Sand (SP-SM)	0	87	13	0			
	5	9.00	Very dense grey Fine Sand (SP-SM)	0	88	12	0			

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**MEDINI****GEO ENGINEERING SERVICES****GRAIN SIZE ANALYSIS GRAPHS**

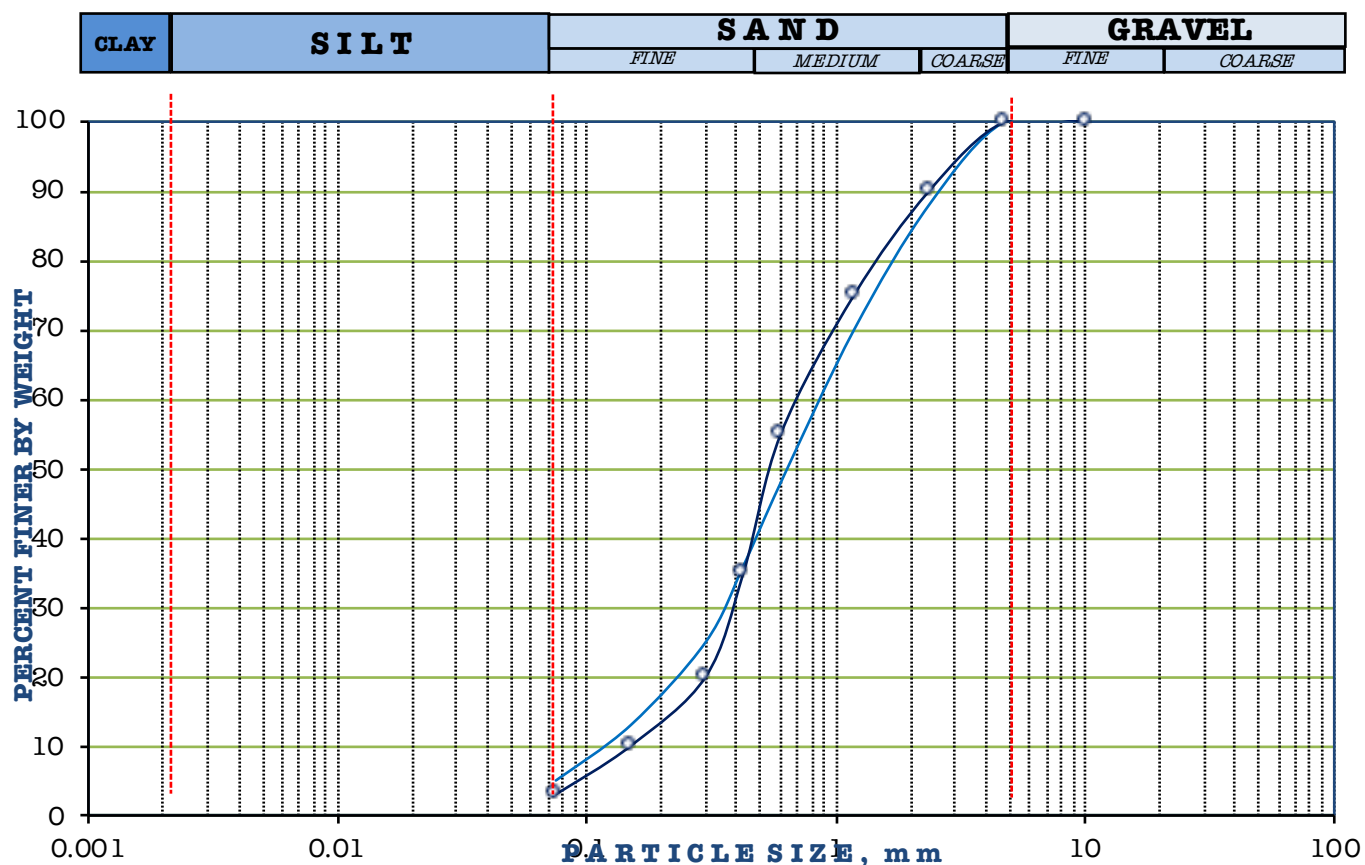
SYMBOL	BH. NO	DEPTH m	DESCRIPTION	GRAVEL %	SAND %	SILT %	CLAY %	D ₆₀	D ₁₀	C _u
	5	12.00	Very dense grey Fine Sand (SP-SM)	0	94	6	0			
○—○	5	13.50	Very stiff brown sandy silt, Medium plastic silty Clay (CI)	0	28	43	29			
●—●	5	16.50	Very stiff brown sandy silt, Medium plastic silty Clay (CI)	0	19	45	36			
▲—▲	5	19.50	Very stiff brown sandy silt, Medium plastic silty Clay (CI)	0	22	46	32			

**GEOTECHNICAL INVESTIGATION FOR PROPOSED CONSTRUCTION OF BUILDINGS
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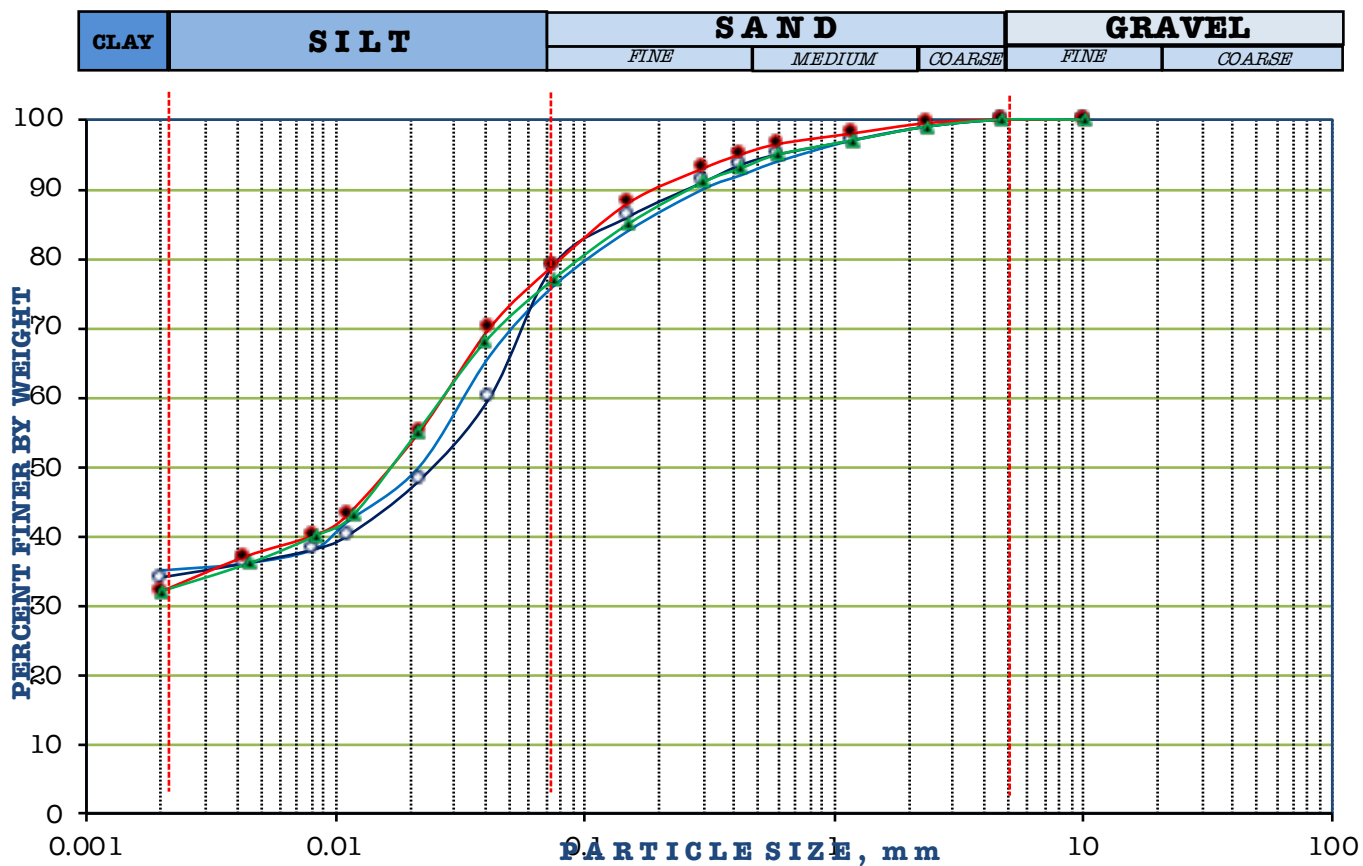
SYMBOL	BH. NO	DEPTH m	DESCRIPTION	GRAVEL %	SAND %	SILT %	CLAY %	D ₆₀	D ₁₀	C _u
	5	22.50	Very stiff brown sandy silt, Medium plastic silty Clay (CI)	0	22	43	35			
○—○	5	25.50	Very stiff brown sandy silt, Medium plastic silty Clay (CI)	0	20	48	32			
●—●	5	30.00	Residual Soil (or) Completely Weathered Rock (CWR)	0	95	5	0			
▲—▲	5	34.00	Residual Soil (or) Completely Weathered Rock (CWR)	0	93	7	0			

**GEOTECHNICAL INVESTIGATION FOR PROPOSED CONSTRUCTION OF BUILDINGS
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**MEDINI****GEO ENGINEERING SERVICES****GRAIN SIZE
ANALYSIS GRAPHS**

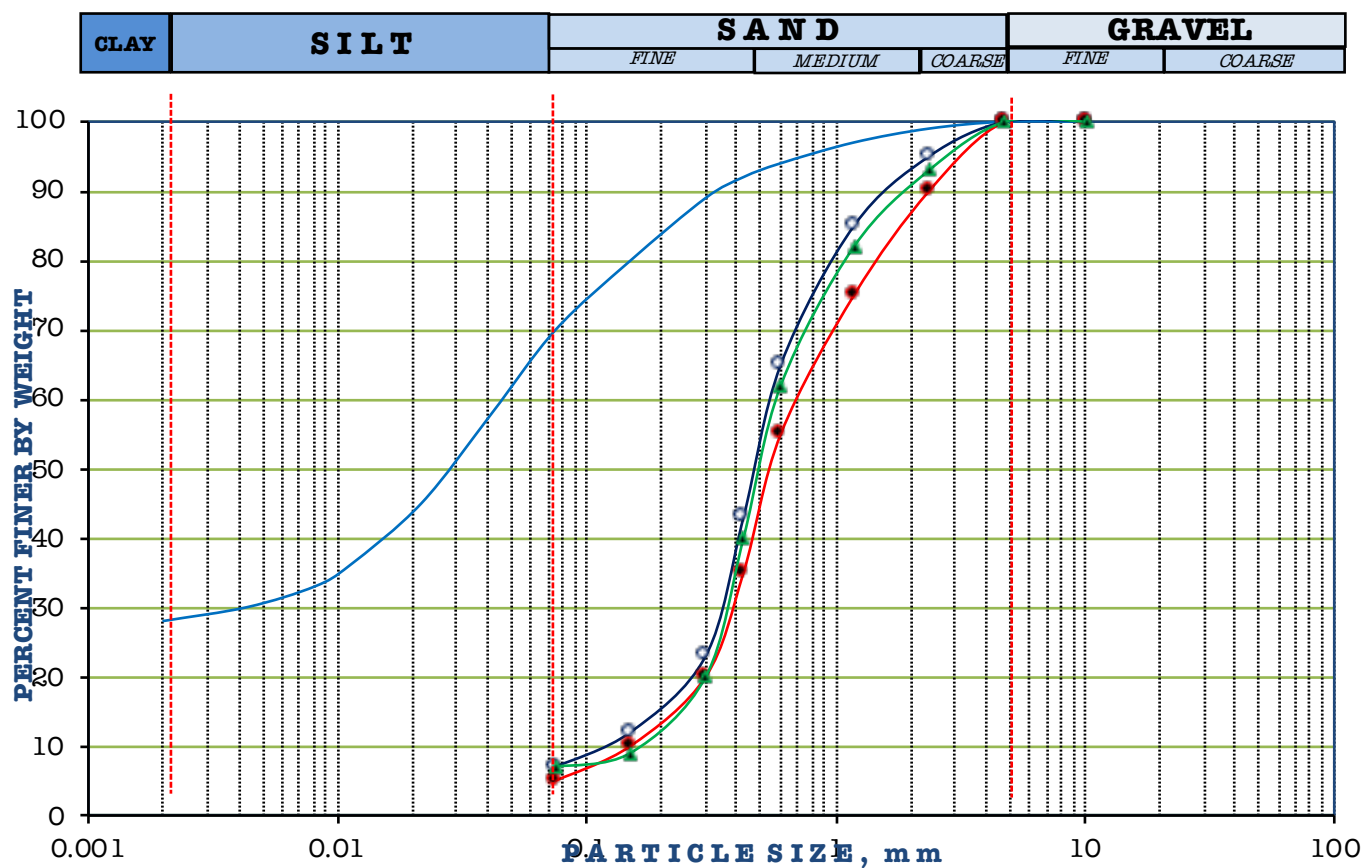
SYMBOL	BH. NO	DEPTH m	DESCRIPTION	GRAVEL %	SAND %	SILT %	CLAY %	D ₆₀	D ₁₀	C _u
	5	37.00	Residual Soil (or) Completely Weathered Rock (CWR)	0	95	5	0			
○ — ○	5	40.00	Residual Soil (or) Completely Weathered Rock (CWR)	0	97	3	0			
● — ●										
▲ — ▲										

**GEOTECHNICAL INVESTIGATION FOR PROPOSED CONSTRUCTION OF BUILDINGS
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**MEDINI****GEO ENGINEERING SERVICES****GRAIN SIZE
ANALYSIS GRAPHS**

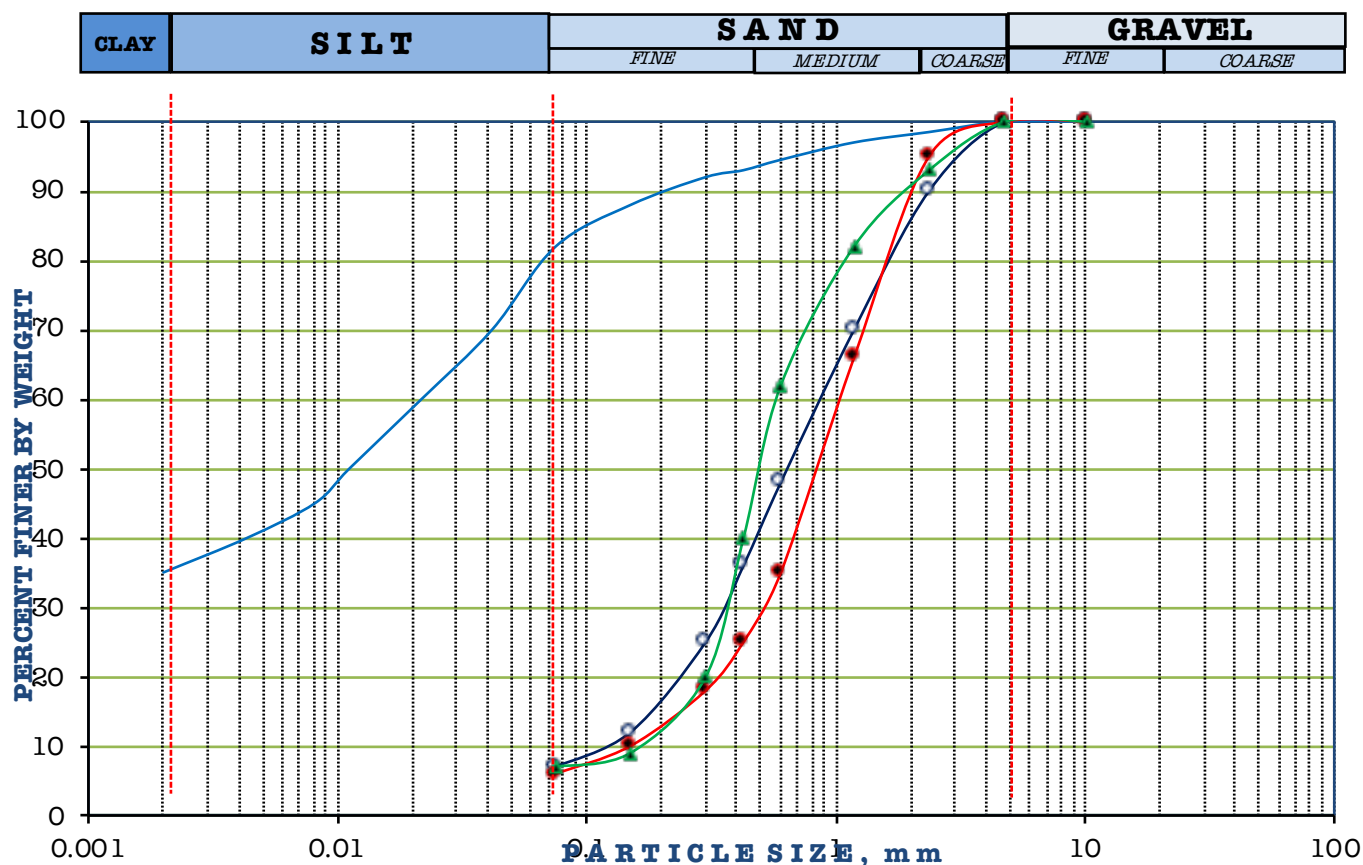
SYMBOL	BH. NO	DEPTH m	DESCRIPTION	GRAVEL %	SAND %	SILT %	CLAY %	D ₆₀	D ₁₀	C _u
	6	1.50	Very stiff brown sandy silt, Medium plastic silty Clay (CI)	0	24	41	35			
○ — ○	6	4.50	Very stiff brown sandy silt, Medium plastic silty Clay (CI)	0	21	45	34			
● — ●	6	7.50	Very stiff brown sandy silt, Medium plastic silty Clay (CI)	0	21	47	32			
▲ — ▲	6	10.50	Very stiff brown sandy silt, Medium plastic silty Clay (CI)	0	23	45	32			

**GEOTECHNICAL INVESTIGATION FOR PROPOSED CONSTRUCTION OF BUILDINGS
FOR AMARAVATI LOCAL HEAD OFFICE AND OTHER OUTFITS AT AMARAVATI,
ANDHRAPRADESH.**



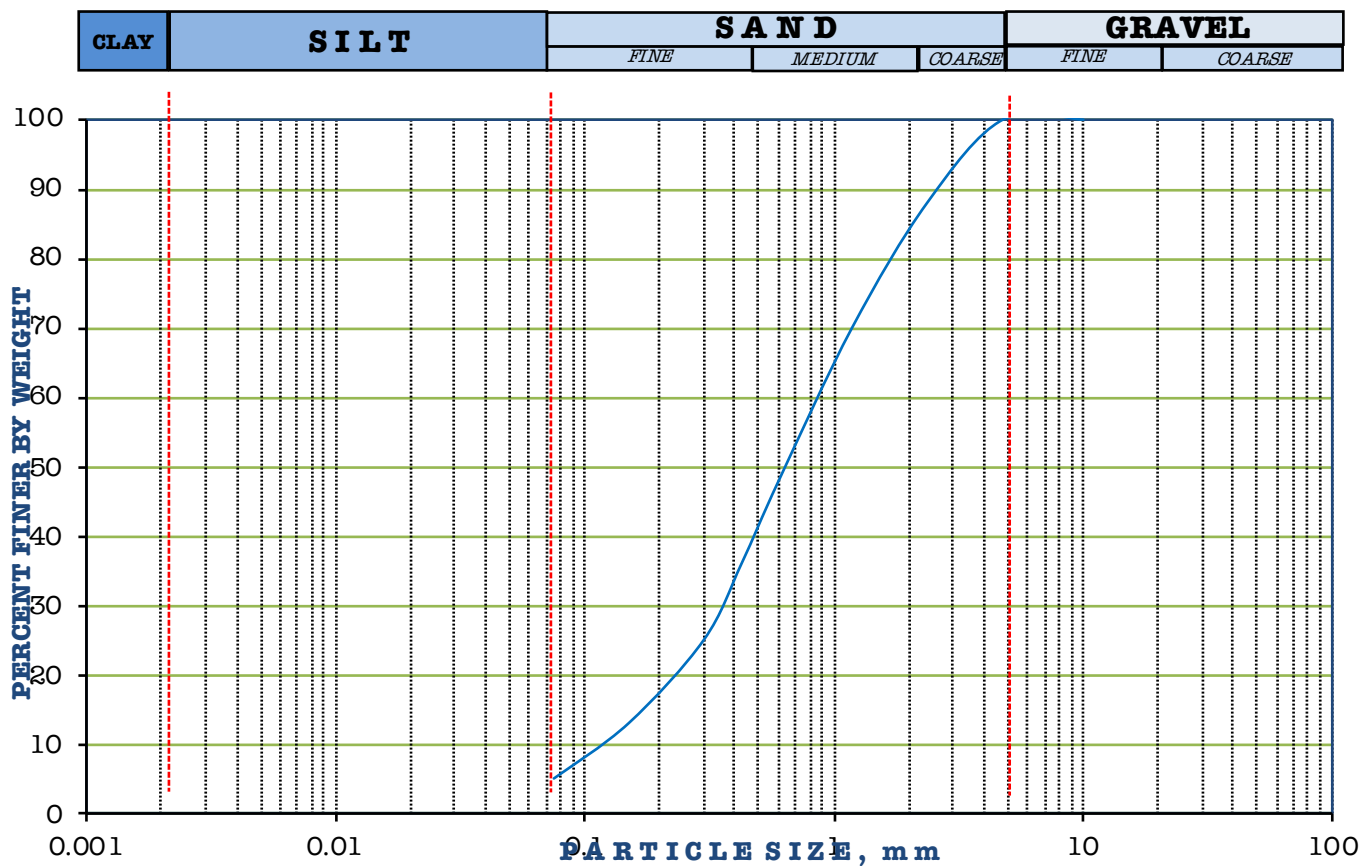
SYMBOL	BH. NO	DEPTH m	DESCRIPTION	GRAVEL %	SAND %	SILT %	CLAY %	D ₆₀	D ₁₀	C _u
	6	13.50	Very stiff brown sandy silt, Medium plastic silty Clay (CI)	0	30	42	28			
○—○	6	15.00	Very dense grey Fine Sand (SP-SM)	0	93	7	0			
●—●	6	18.00	Very dense grey Fine Sand (SP-SM)	0	95	5	0			
▲—▲	6	21.00	Very dense grey Fine Sand (SP-SM)	0	93	7	0			

**GEOTECHNICAL INVESTIGATION FOR PROPOSED CONSTRUCTION OF BUILDINGS
FOR AMARAVATI LOCAL HEAD OFFICE AND OTHER OUTFITS AT AMARAVATI,
ANDHRAPRADESH.**

**MEDINI****GEO ENGINEERING SERVICES****GRAIN SIZE ANALYSIS GRAPHS**

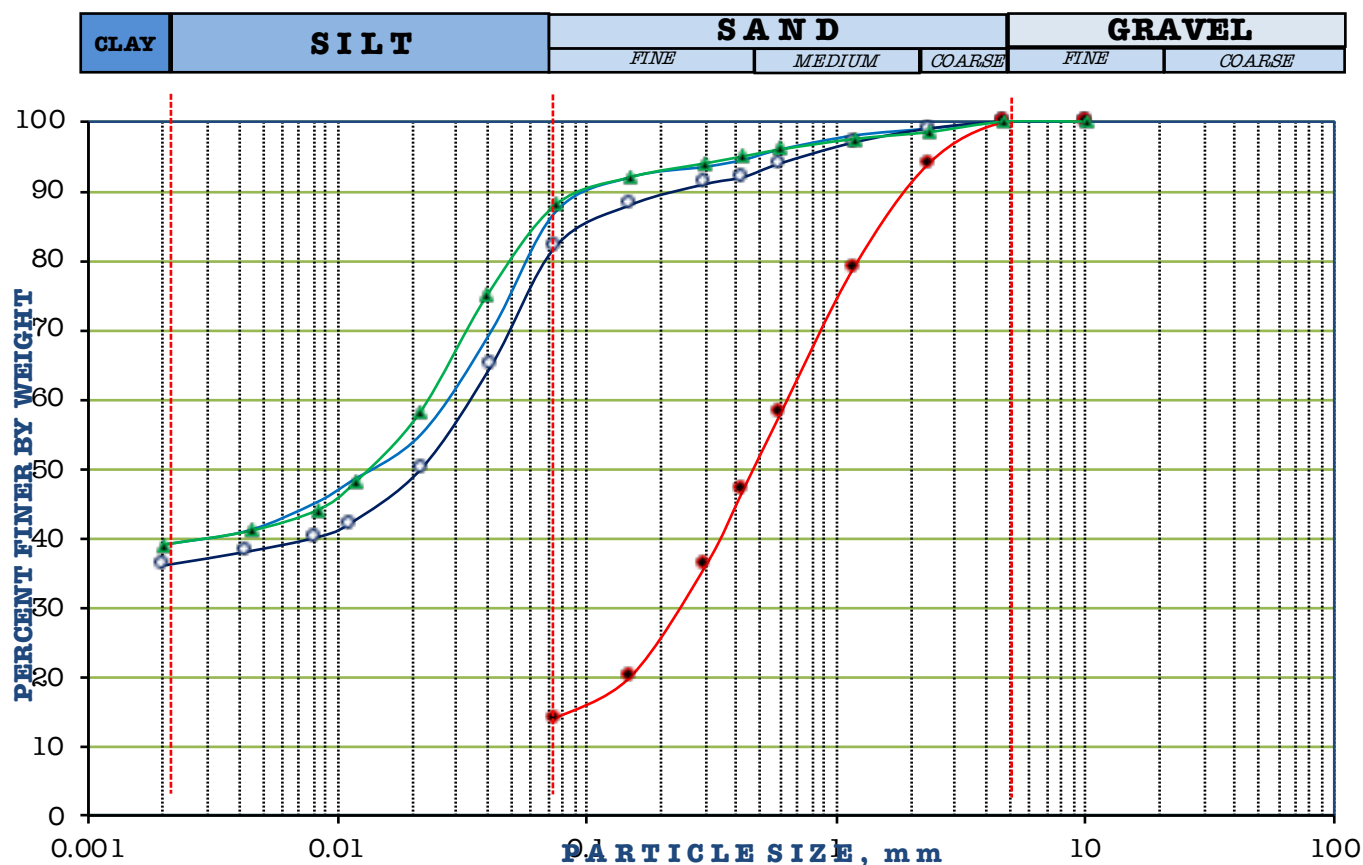
SYMBOL	BH. NO	DEPTH m	DESCRIPTION	GRAVEL %	SAND %	SILT %	CLAY %	D ₆₀	D ₁₀	C _u
	6	25.50	Very stiff brown sandy silt, medium plastic (CI)	0	18	47	35			
○—○	6	30.00	Residual Soil (or) Completely Weathered Rock (CWR)	0	93	7	0			
●—●	6	34.00	Residual Soil (or) Completely Weathered Rock (CWR)	0	94	6	0			
▲—▲	6	37.00	Residual Soil (or) Completely Weathered Rock (CWR)	0	93	7	0			

**GEOTECHNICAL INVESTIGATION FOR PROPOSED CONSTRUCTION OF BUILDINGS
FOR AMARAVATI LOCAL HEAD OFFICE AND OTHER OUTFITS AT AMARAVATI,
ANDHRAPRADESH.**

**MEDINI****GEO ENGINEERING SERVICES****GRAIN SIZE
ANALYSIS GRAPHS**

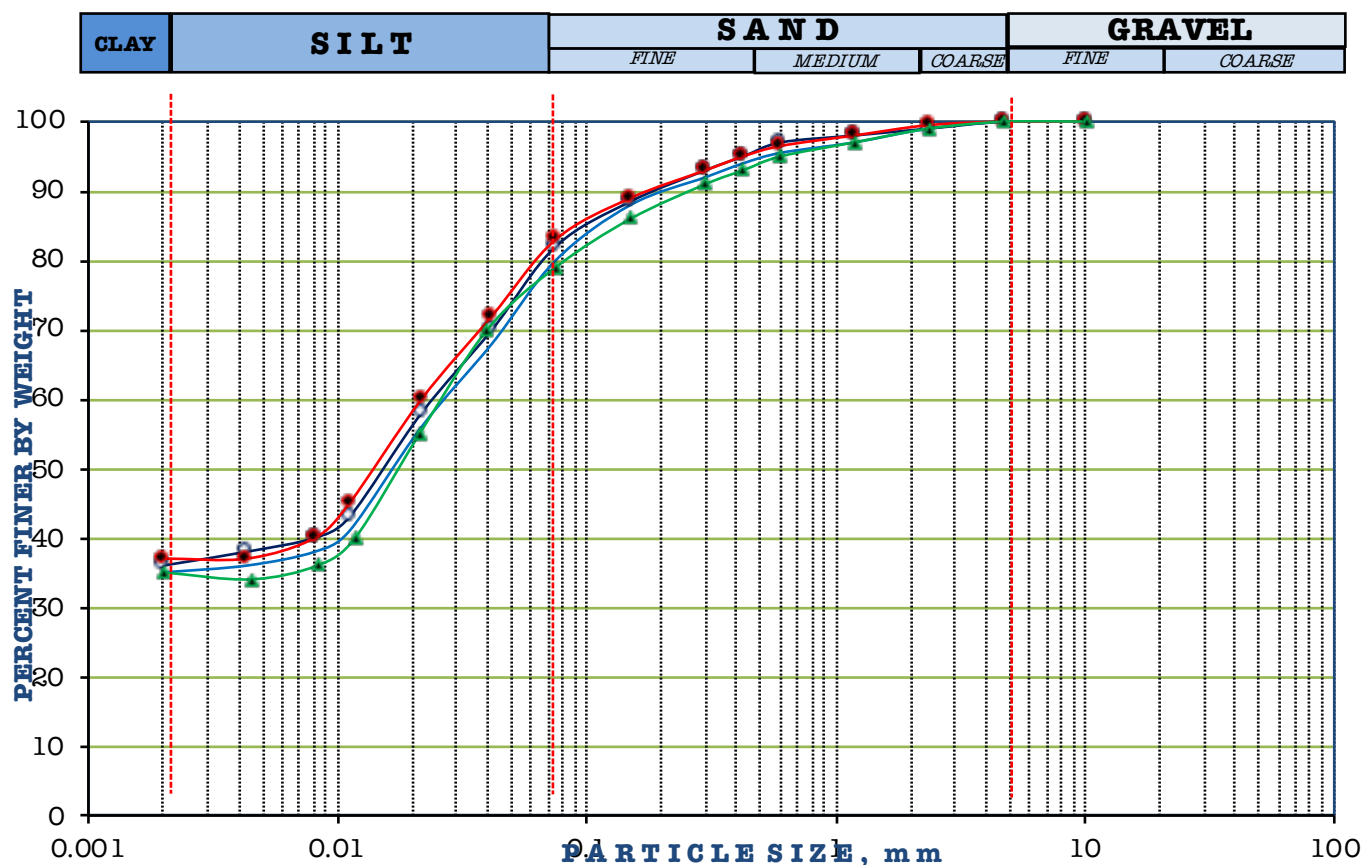
SYMBOL	BH. NO	DEPTH m	DESCRIPTION	GRAVEL %	SAND %	SILT %	CLAY %	D ₆₀	D ₁₀	C _u
	6	40.00	Residual Soil (or) Completely Weathered Rock (CWR)	0	95	5	0			
○ — ○										
● — ●										
▲ — ▲										

**GEOTECHNICAL INVESTIGATION FOR PROPOSED CONSTRUCTION OF BUILDINGS
FOR AMARAVATI LOCAL HEAD OFFICE AND OTHER OUTFITS AT AMARAVATI,
ANDHRAPRADESH.**

**MEDINI****GEO ENGINEERING SERVICES****GRAIN SIZE ANALYSIS GRAPHS**

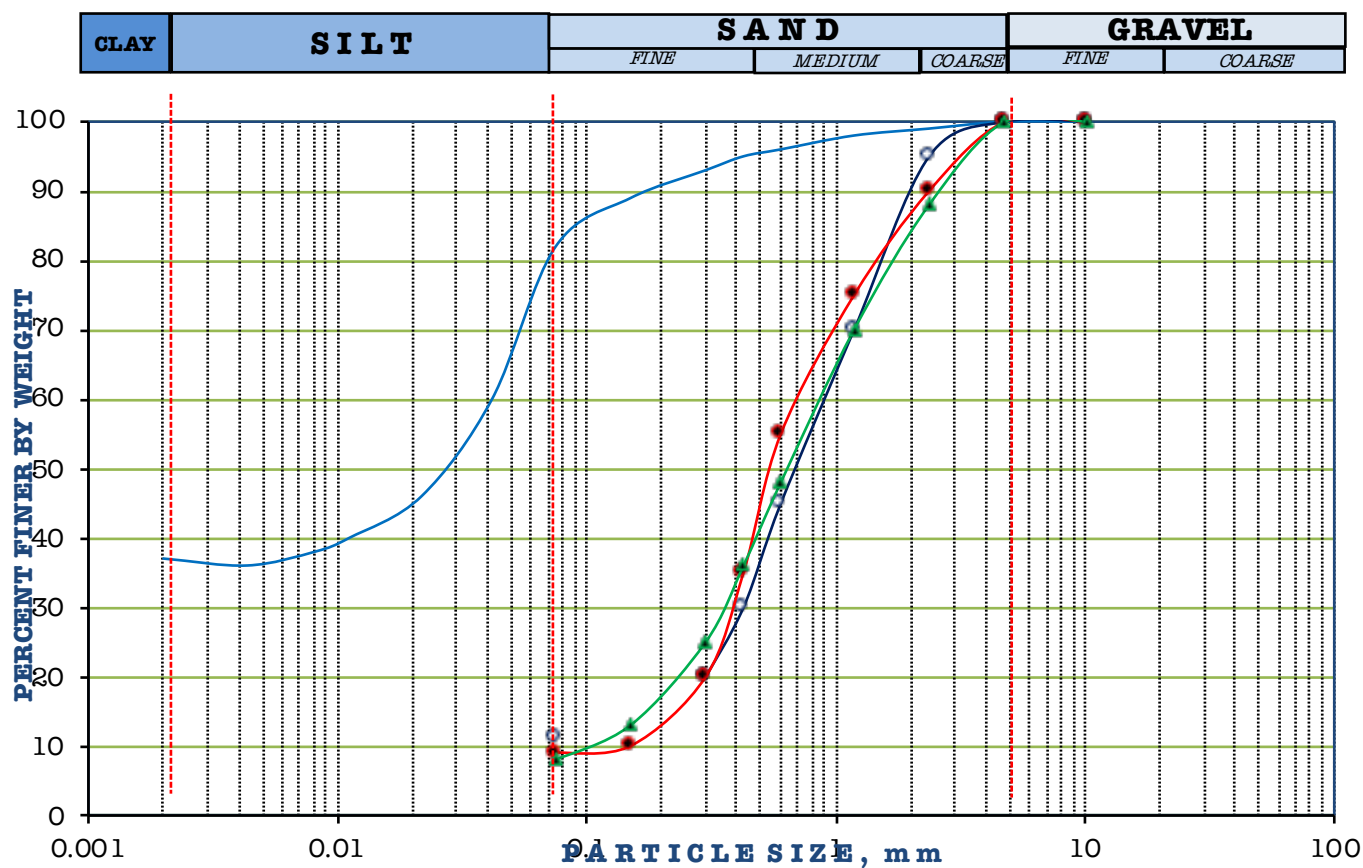
SYMBOL	BH. NO	DEPTH m	DESCRIPTION	GRAVEL %	SAND %	SILT %	CLAY %	D ₆₀	D ₁₀	C _u
	7	1.50	Very stiff brown sandy silt, medium plastic (CI)	0	13	48	39			
○—○	7	6.00	Very stiff brown sandy silt, medium plastic (CI)	0	18	46	36			
●—●	7	7.50	Very dense grey Fine Sand (SP-SM)	0	86	14	0			
▲—▲	7	12.00	Very stiff brown sandy silt, Medium plastic silty Clay (CI)	0	12	49	39			

**GEOTECHNICAL INVESTIGATION FOR PROPOSED CONSTRUCTION OF BUILDINGS
FOR AMARAVATI LOCAL HEAD OFFICE AND OTHER OUTFITS AT AMARAVATI,
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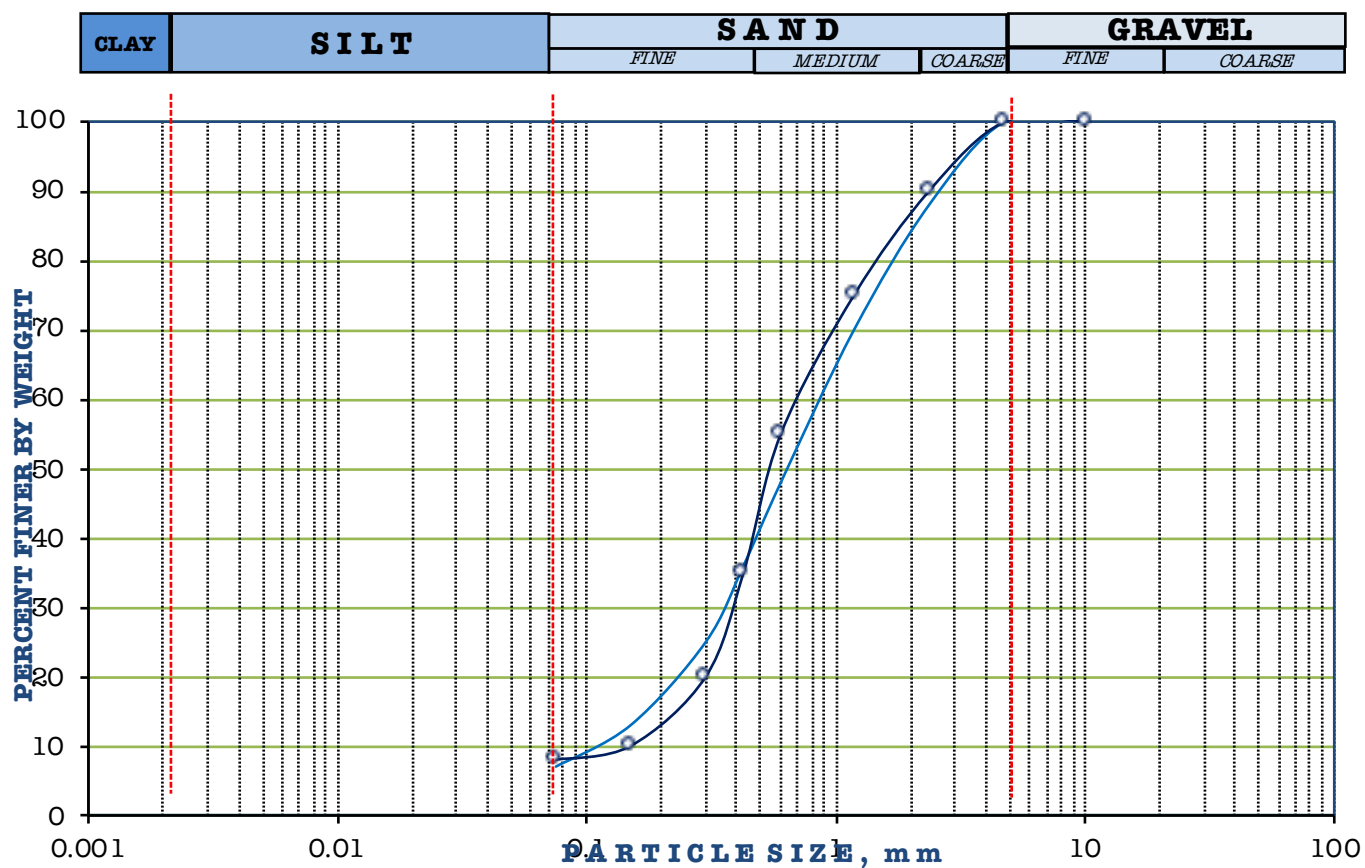
SYMBOL	BH. NO	DEPTH m	DESCRIPTION	GRAVEL %	SAND %	SILT %	CLAY %	D ₆₀	D ₁₀	C _u
	7	15.00	Very stiff brown sandy silt, Medium plastic silty Clay (CI)	0	20	45	35			
○—○	7	18.00	Very stiff brown sandy silt, Medium plastic silty Clay (CI)	0	18	46	36			
●—●	7	21.00	Very stiff brown sandy silt, Medium plastic silty Clay (CI)	0	17	46	37			
▲—▲	7	24.00	Very stiff brown sandy silt, Medium plastic silty Clay (CI)	0	21	44	35			

**GEOTECHNICAL INVESTIGATION FOR PROPOSED CONSTRUCTION OF BUILDINGS
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**MEDINI****GEO ENGINEERING SERVICES****GRAIN SIZE ANALYSIS GRAPHS**

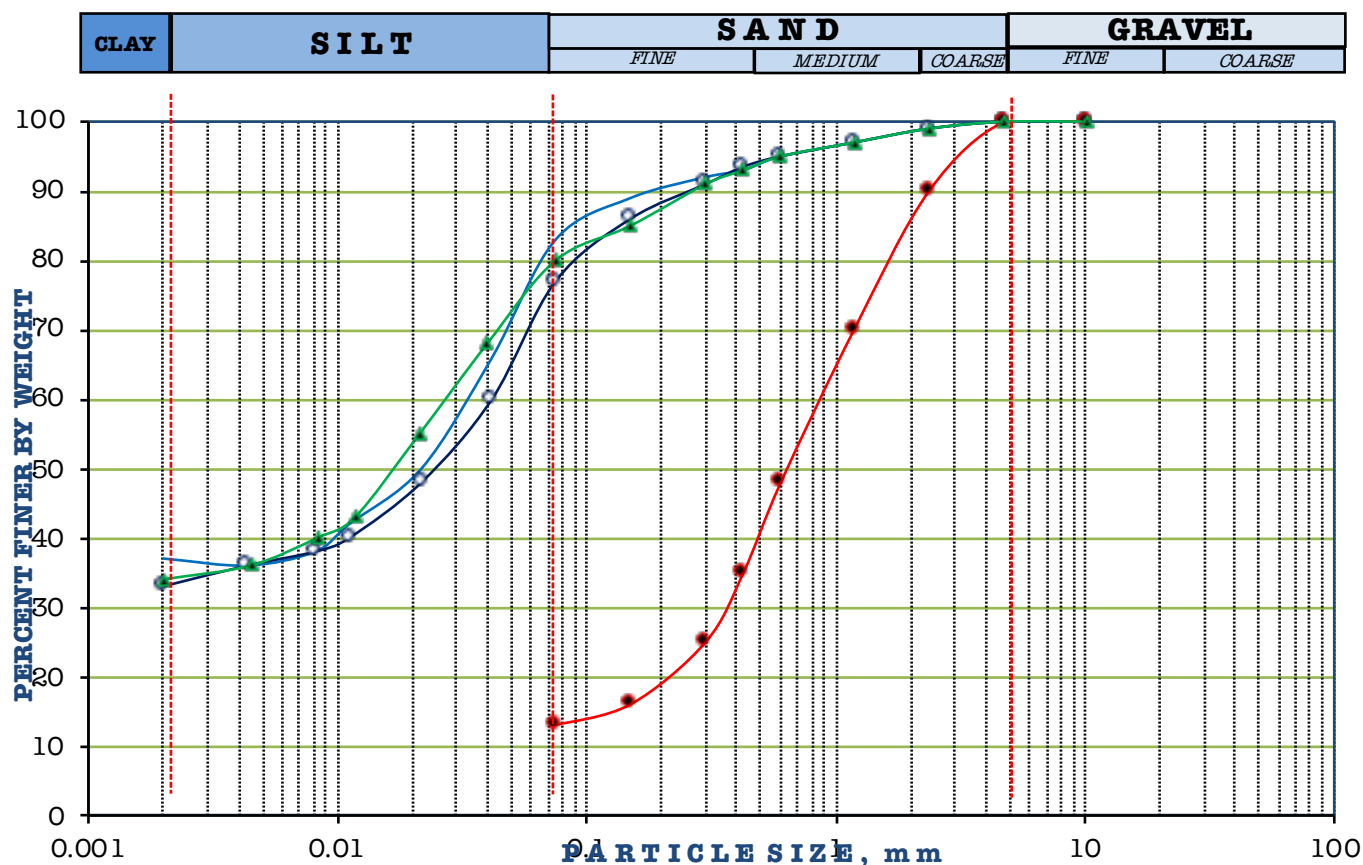
SYMBOL	BH. NO	DEPTH m	DESCRIPTION	GRAVEL %	SAND %	SILT %	CLAY %	D ₆₀	D ₁₀	C _u
	7	27.00	Very stiff brown sandy silt, Medium plastic silty Clay (CI)	0	18	45	37			
○—○	7	30.00	Residual Soil (or) Completely Weathered Rock (CWR)	0	89	11	0			
●—●	7	31.50	Residual Soil (or) Completely Weathered Rock (CWR)	0	91	9	0			
▲—▲	7	34.00	Residual Soil (or) Completely Weathered Rock (CWR)	0	92	8	0			

**GEOTECHNICAL INVESTIGATION FOR PROPOSED CONSTRUCTION OF BUILDINGS
FOR AMARAVATI LOCAL HEAD OFFICE AND OTHER OUTFITS AT AMARAVATI,
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SYMBOL	BH. NO	DEPTH m	DESCRIPTION	GRAVEL %	SAND %	SILT %	CLAY %	D ₆₀	D ₁₀	C _u
	7	37.00	Residual Soil (or) Completely Weathered Rock (CWR)	0	93	7	0			
○ — ○	7	40.00	Residual Soil (or) Completely Weathered Rock (CWR)	0	92	8	0			
● — ●										
▲ — ▲										

**GEOTECHNICAL INVESTIGATION FOR PROPOSED CONSTRUCTION OF BUILDINGS
FOR AMARAVATI LOCAL HEAD OFFICE AND OTHER OUTFITS AT AMARAVATI,
ANDHRA PRADESH.**

**MEDINI****GEO ENGINEERING SERVICES****GRAIN SIZE
ANALYSIS GRAPHS**

SYMBOL	BH. NO	DEPTH m	DESCRIPTION	GRAVEL %	SAND %	SILT %	CLAY %	D ₆₀	D ₁₀	C _u
	8	1.50	Very stiff brown sandy silt, Medium plastic silty Clay (CI)	0	17	46	37			
○—○	8	6.00	Very stiff brown sandy silt, Medium plastic silty Clay (CI)	0	23	44	33			
●—●	8	9.00	Very dense grey Fine Sand (SP-SM)	0	87	13	0			
▲—▲	8	12.00	Very stiff brown sandy silt, Medium plastic silty Clay (CI)	0	20	46	34			

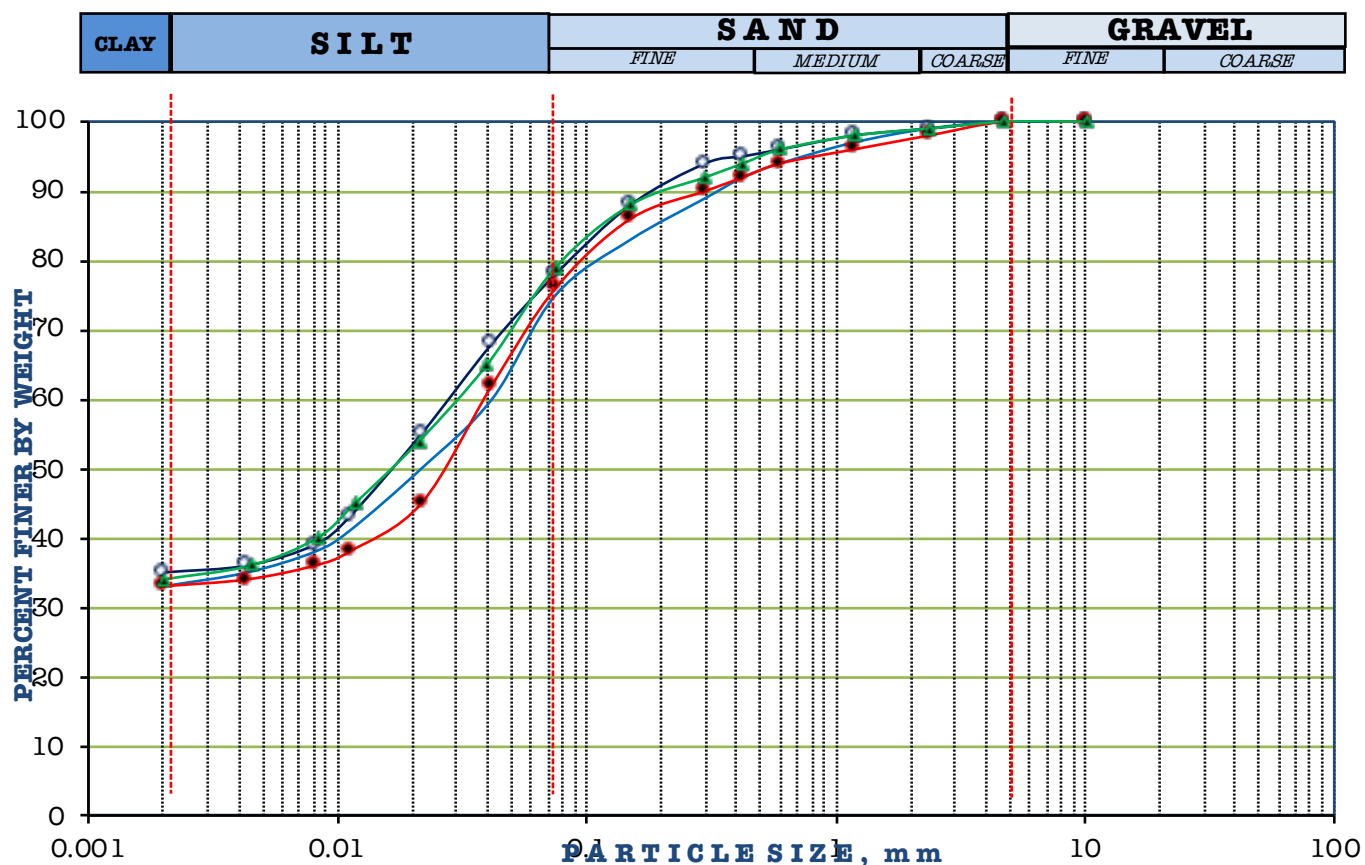
**GEOTECHNICAL INVESTIGATION FOR PROPOSED CONSTRUCTION OF BUILDINGS
FOR AMARAVATI LOCAL HEAD OFFICE AND OTHER OUTFITS AT AMARAVATI,
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MEDINI

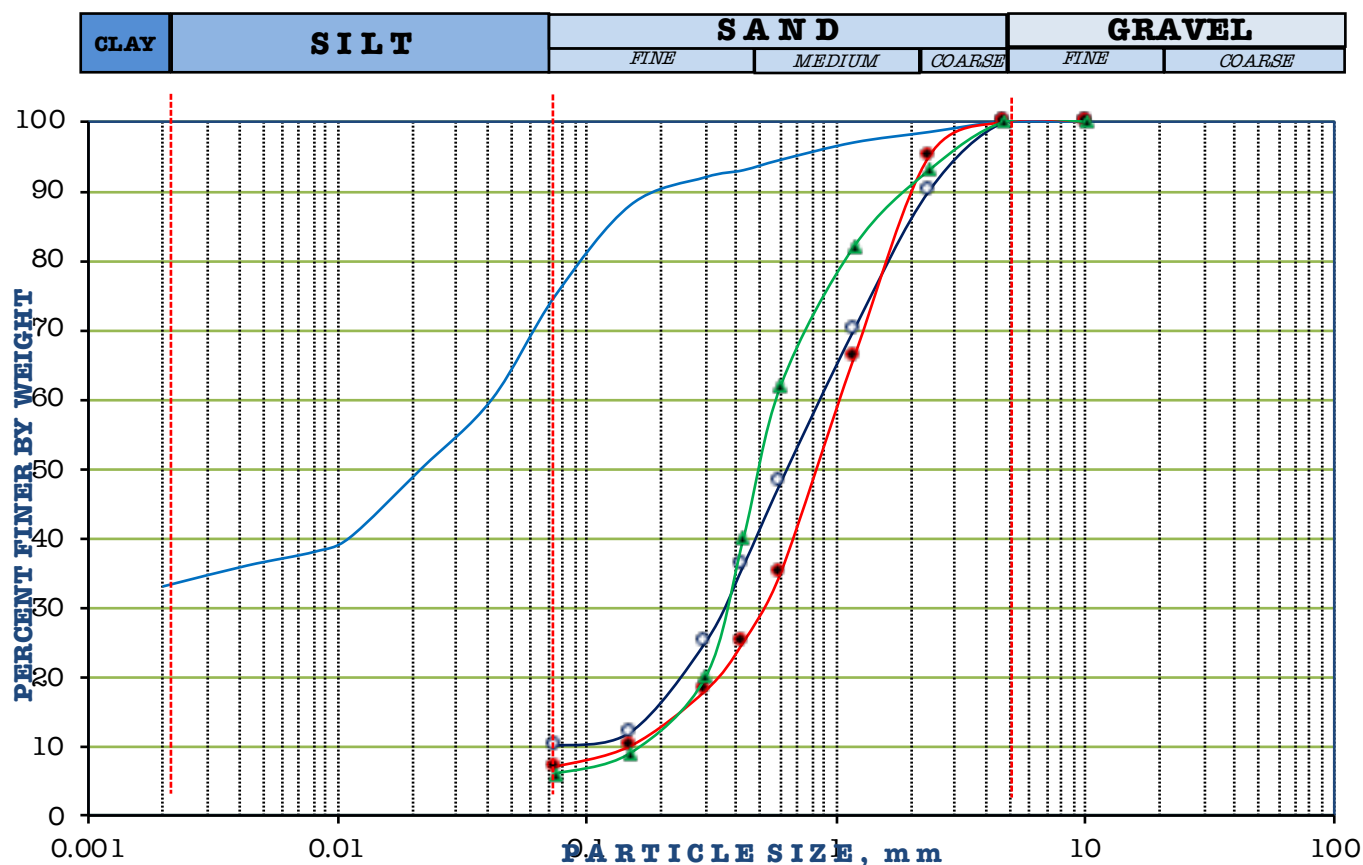
GEO ENGINEERING SERVICES

GRAIN SIZE ANALYSIS GRAPHS



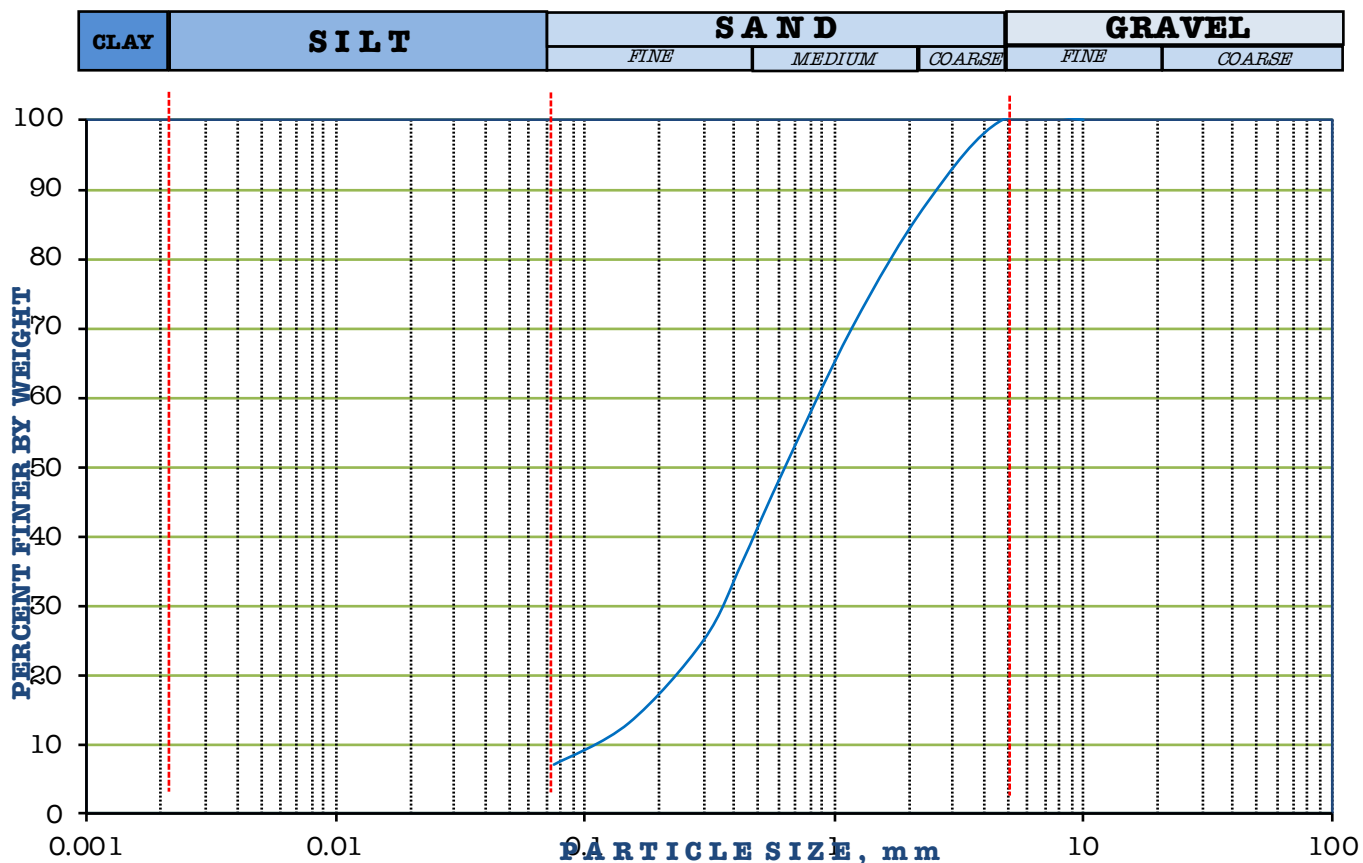
SYMBOL	BH. NO	DEPTH m	DESCRIPTION	GRAVEL %	SAND %	SILT %	CLAY %	D ₆₀	D ₁₀	C _u
	8	15.00	Very stiff brown sandy silt, Medium plastic silty Clay (CI)	0	25	42	33			
○—○	8	18.00	Very stiff brown sandy silt, Medium plastic silty Clay (CI)	0	22	43	35			
●—●	8	21.00	Very stiff brown sandy silt, Medium plastic silty Clay (CI)	0	24	43	33			
▲—▲	8	24.00	Very stiff brown sandy silt, Medium plastic silty Clay (CI)	0	21	45	34			

**GEOTECHNICAL INVESTIGATION FOR PROPOSED CONSTRUCTION OF BUILDINGS
FOR AMARAVATI LOCAL HEAD OFFICE AND OTHER OUTFITS AT AMARAVATI,
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**MEDINI****GEO ENGINEERING SERVICES****GRAIN SIZE ANALYSIS GRAPHS**

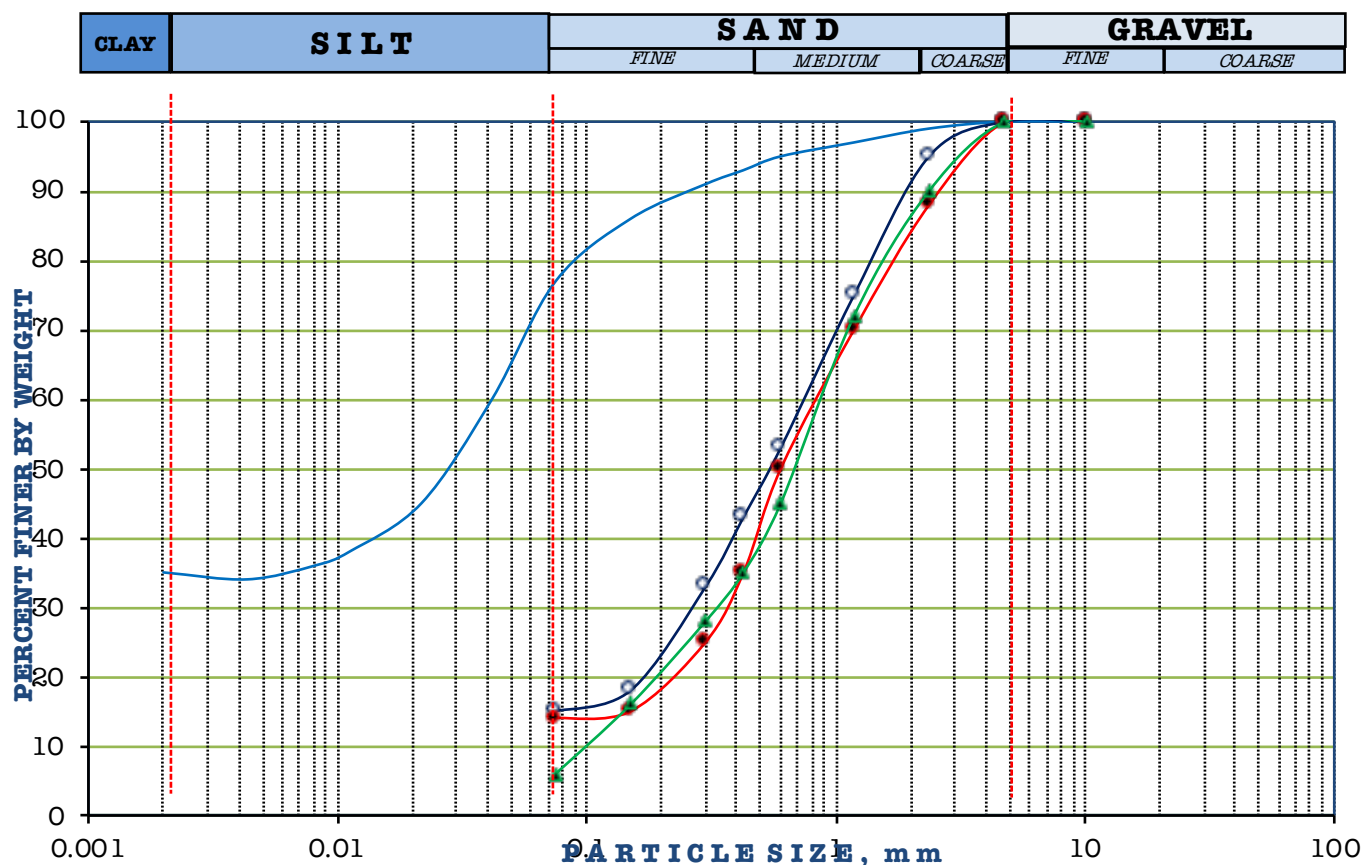
SYMBOL	BH. NO	DEPTH m	DESCRIPTION	GRAVEL %	SAND %	SILT %	CLAY %	D ₆₀	D ₁₀	C _u
	8	27.00	Very stiff brown sandy silt, Medium plastic silty Clay (CI)	0	25	42	33			
○—○	8	30.00	Residual Soil (or) Completely Weathered Rock (CWR)	0	90	10	0			
●—●	8	34.00	Residual Soil (or) Completely Weathered Rock (CWR)	0	93	7	0			
▲—▲	8	37.00	Residual Soil (or) Completely Weathered Rock (CWR)	0	94	6	0			

**GEOTECHNICAL INVESTIGATION FOR PROPOSED CONSTRUCTION OF BUILDINGS
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**MEDINI****GEO ENGINEERING SERVICES****GRAIN SIZE
ANALYSIS GRAPHS**

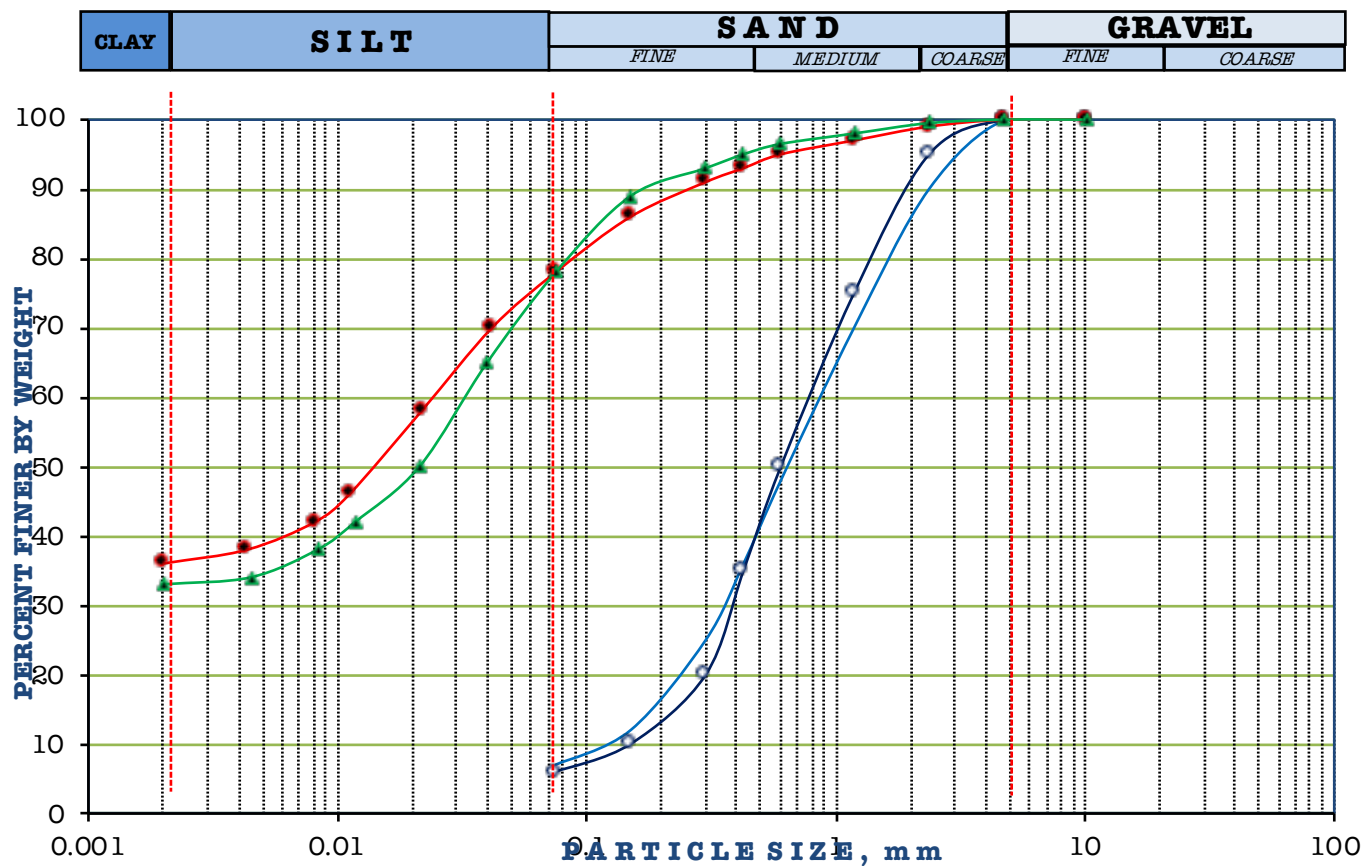
SYMBOL	BH. NO	DEPTH m	DESCRIPTION	GRAVEL %	SAND %	SILT %	CLAY %	D ₆₀	D ₁₀	C _u
	8	40.00	Residual Soil (or) Completely Weathered Rock (CWR)	0	93	7	0			
○ — ○										
● — ●										
▲ — ▲										

**GEOTECHNICAL INVESTIGATION FOR PROPOSED CONSTRUCTION OF BUILDINGS
FOR AMARAVATI LOCAL HEAD OFFICE AND OTHER OUTFITS AT AMARAVATI,
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**MEDINI****GEO ENGINEERING SERVICES****GRAIN SIZE ANALYSIS GRAPHS**

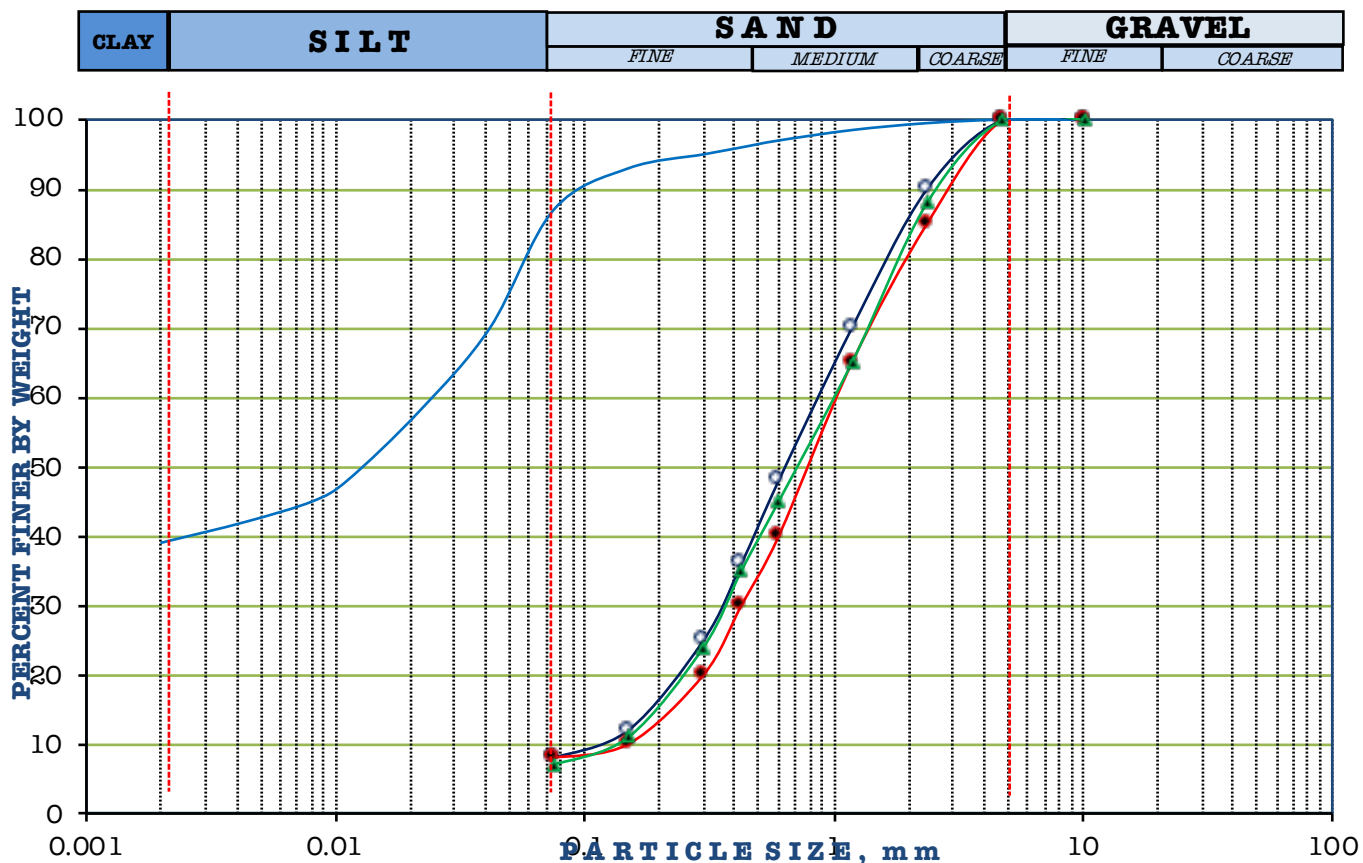
SYMBOL	BH. NO	DEPTH m	DESCRIPTION	GRAVEL %	SAND %	SILT %	CLAY %	D ₆₀	D ₁₀	C _u
	9	3.00	Very stiff brown sandy silt, Medium plastic silty Clay (CI)	0	23	42	35			
○—○	9	6.00	Very dense grey Fine Sand (SP-SM)	0	85	15	0			
●—●	9	9.00	Very dense grey Fine Sand (SP-SM)	0	86	14	0			
▲—▲	9	12.00	Very dense grey Fine Sand (SP-SM)	0	94	6	0			

**GEOTECHNICAL INVESTIGATION FOR PROPOSED CONSTRUCTION OF BUILDINGS
FOR AMARAVATI LOCAL HEAD OFFICE AND OTHER OUTFITS AT AMARAVATI,
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**MEDINI****GEO ENGINEERING SERVICES****GRAIN SIZE
ANALYSIS GRAPHS**

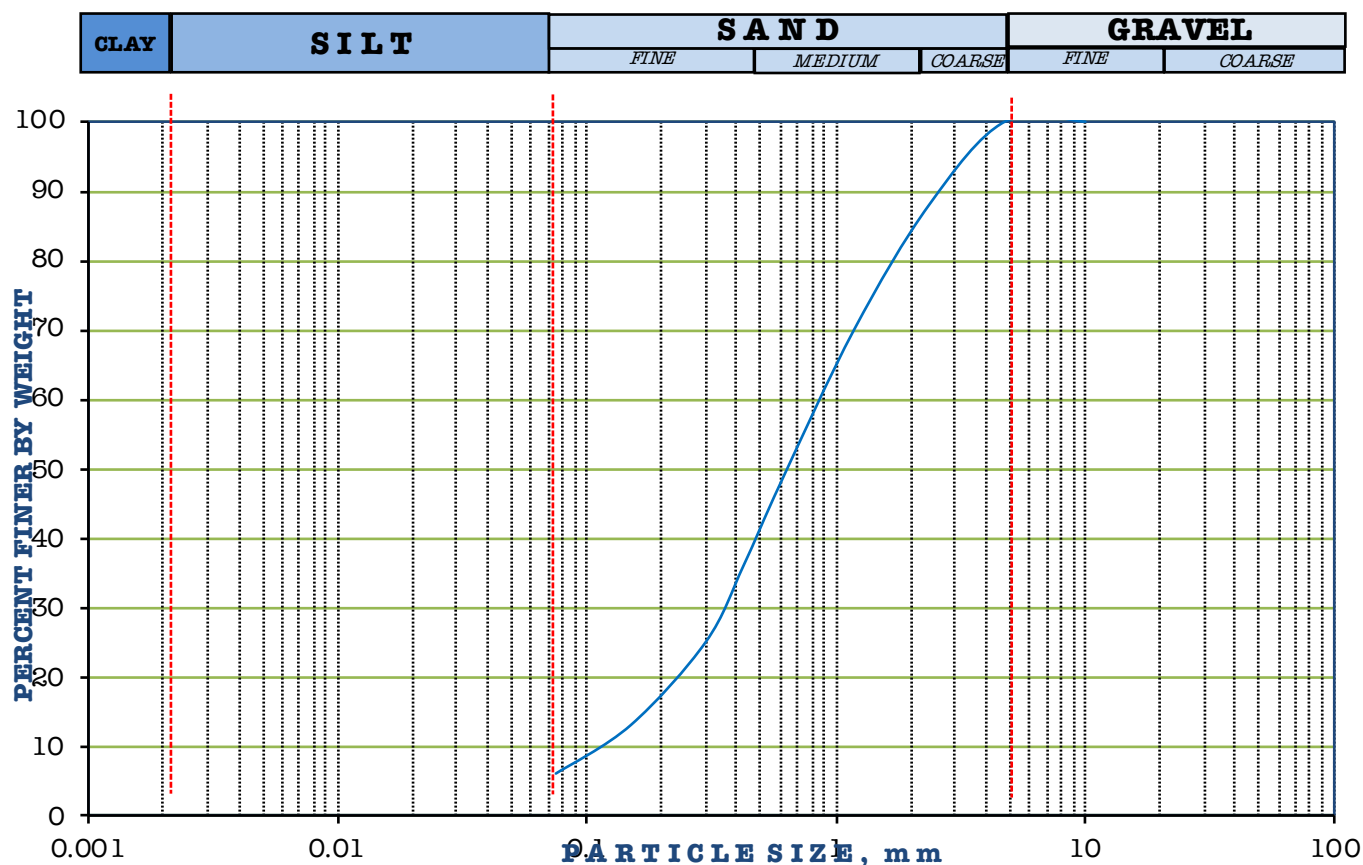
SYMBOL	BH. NO	DEPTH m	DESCRIPTION	GRAVEL %	SAND %	SILT %	CLAY %	D ₆₀	D ₁₀	C _u
	9	15.00	Very dense grey Fine Sand (SP-SM)	0	93	7	0			
○—○	9	19.50	Very dense grey Fine Sand (SP-SM)	0	94	6	0			
●—●	9	21.00	Very stiff brown sandy silt, Medium plastic silty Clay (CI)	0	22	42	36			
▲—▲	9	24.00	Very stiff brown sandy silt, Medium plastic silty Clay (CI)	0	22	45	33			

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**MEDINI****GEO ENGINEERING SERVICES****GRAIN SIZE ANALYSIS GRAPHS**

SYMBOL	BH. NO	DEPTH m	DESCRIPTION	GRAVEL %	SAND %	SILT %	CLAY %	D ₆₀	D ₁₀	C _u
	9	27.00	Very stiff brown sandy silt, Medium plastic silty Clay (CI)	0	13	48	39			
○—○	9	30.00	Residual Soil (or) Completely Weathered Rock (CWR)	0	92	8	0			
●—●	9	34.00	Residual Soil (or) Completely Weathered Rock (CWR)	0	92	8	0			
▲—▲	9	37.00	Residual Soil (or) Completely Weathered Rock (CWR)	0	93	7	0			

**GEOTECHNICAL INVESTIGATION FOR PROPOSED CONSTRUCTION OF BUILDINGS
FOR AMARAVATI LOCAL HEAD OFFICE AND OTHER OUTFITS AT AMARAVATI,
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**MEDINI****GEO ENGINEERING SERVICES****GRAIN SIZE
ANALYSIS GRAPHS**

SYMBOL	BH. NO	DEPTH m	DESCRIPTION	GRAVEL %	SAND %	SILT %	CLAY %	D ₆₀	D ₁₀	C _u
	9	40.00	Residual Soil (or) Completely Weathered Rock (CWR)	0	94	6	0			
○ — ○										
● — ●										
▲ — ▲										

**GEOTECHNICAL INVESTIGATION FOR PROPOSED CONSTRUCTION OF BUILDINGS
FOR AMARAVATI LOCAL HEAD OFFICE AND OTHER OUTFITS AT AMARAVATI,
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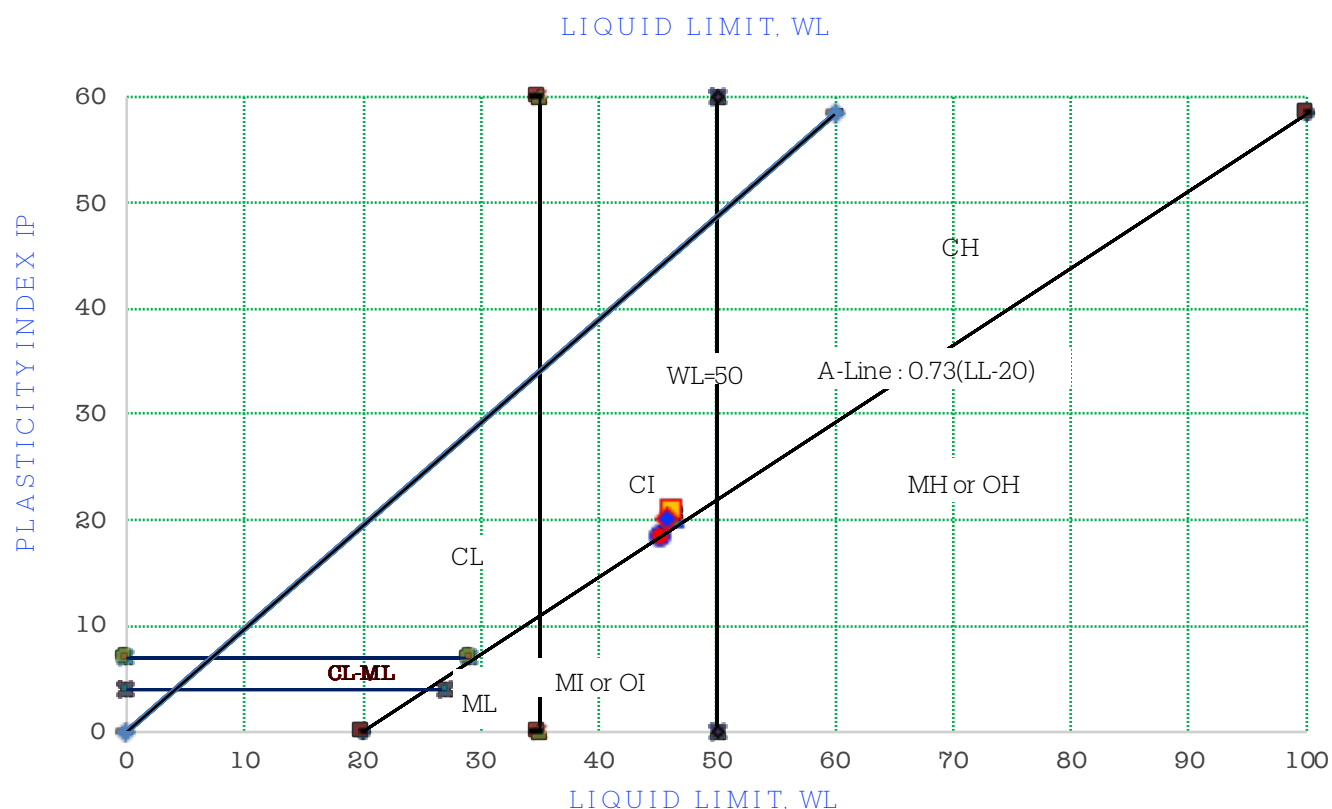


MEDINI

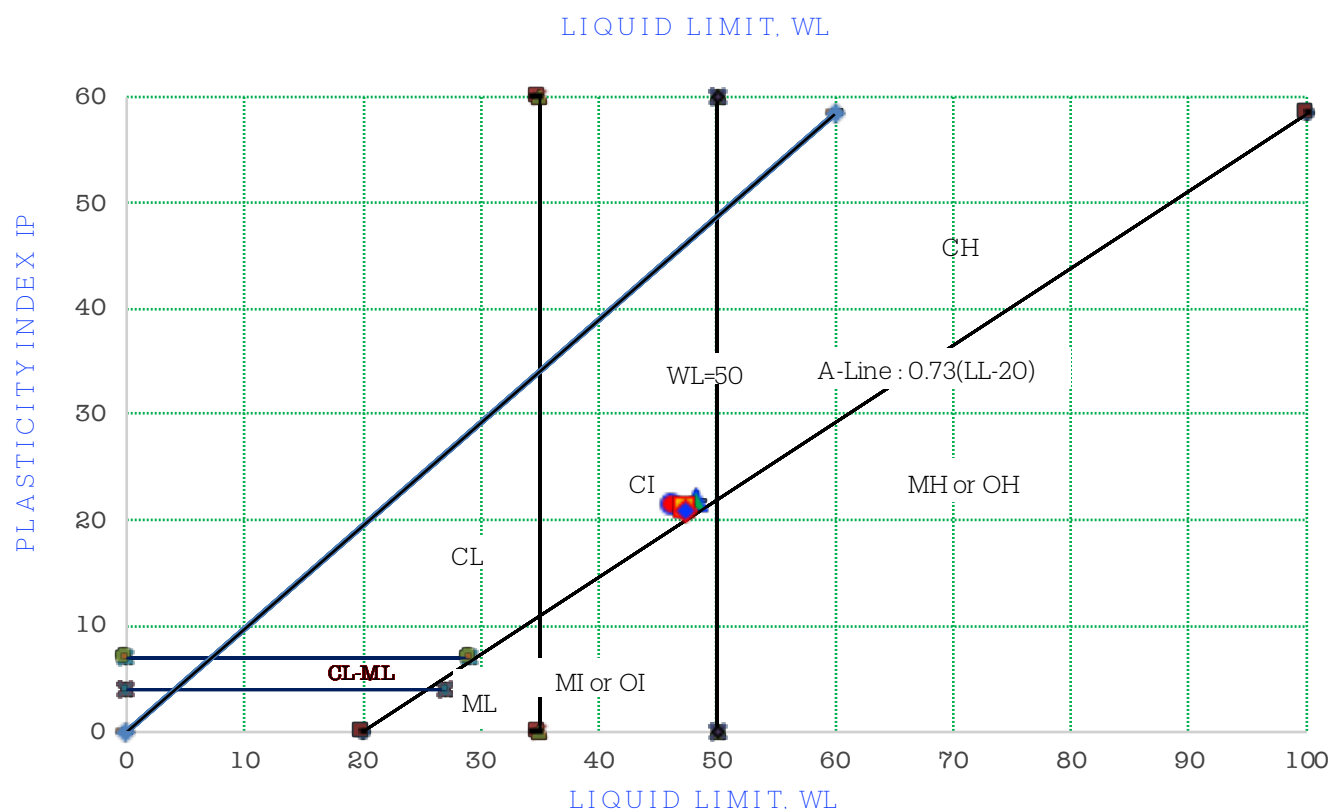
GEO ENGINEERING SERVICES

ANNEXURE-V

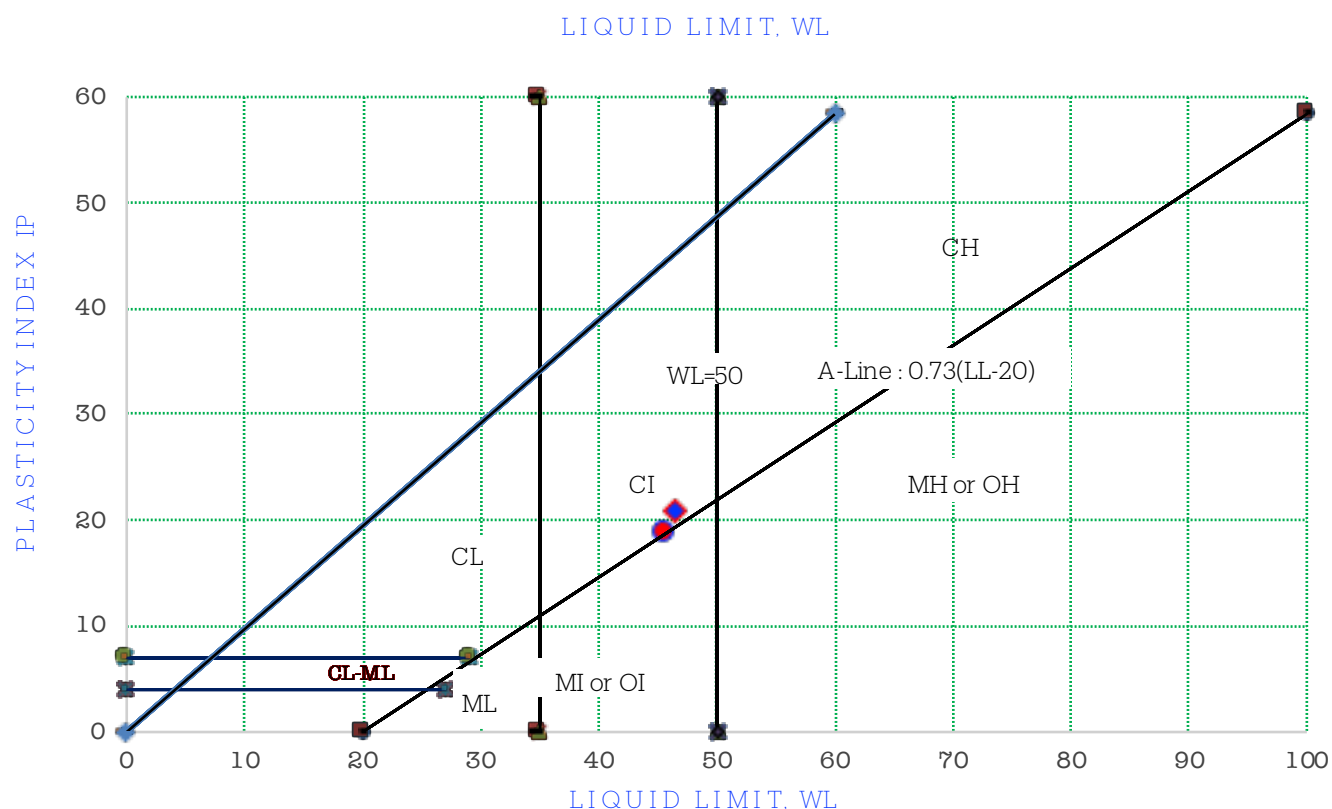
ATTERBERG LIMITS GRPAHS



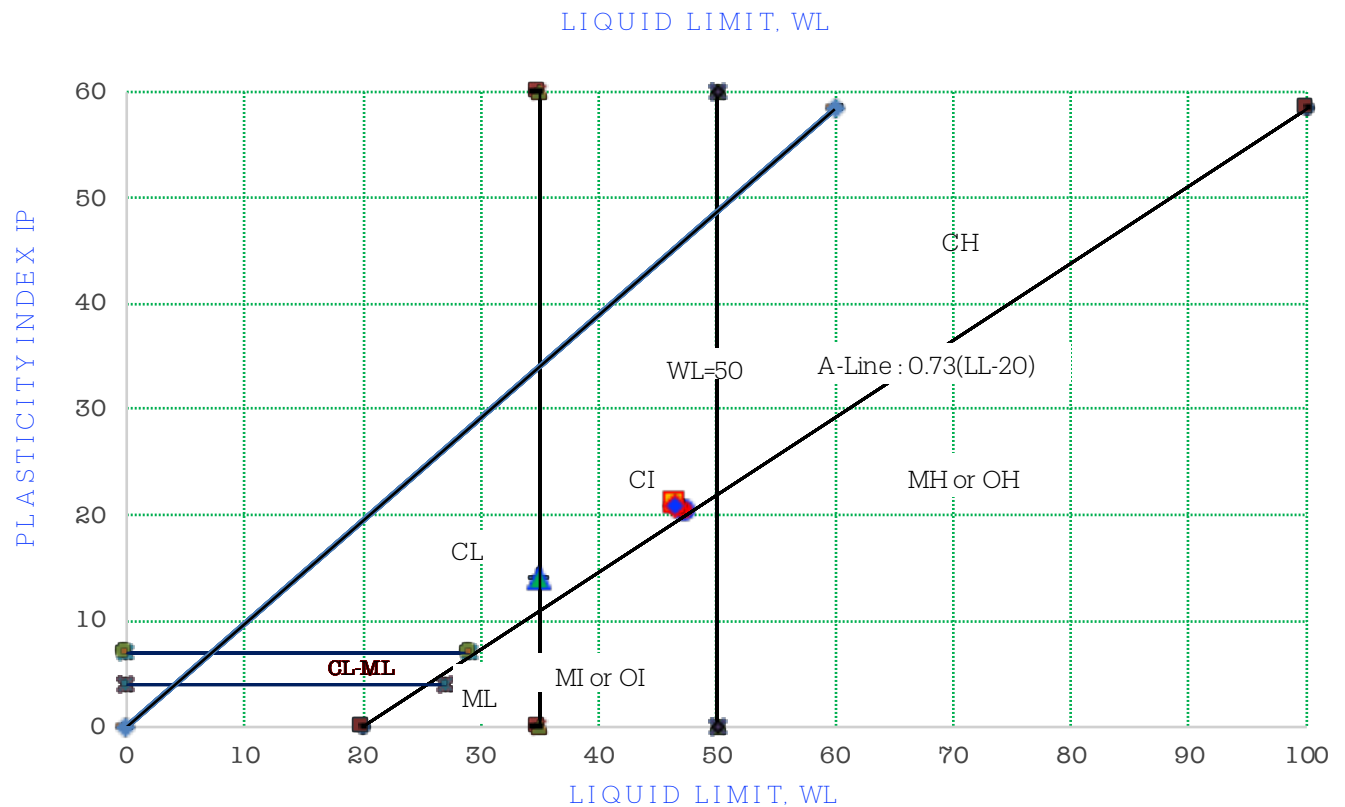
BH.NO	DEPTH, m	SYMBOL	LL	PL	PI	Soil Classification
1	1.50		45.3	27.0	18.3	CI
1	16.50		45.9	25.7	20.2	CI
1	19.50		46.3	25.8	20.5	CI
1	22.50		46.3	25.4	20.9	CI



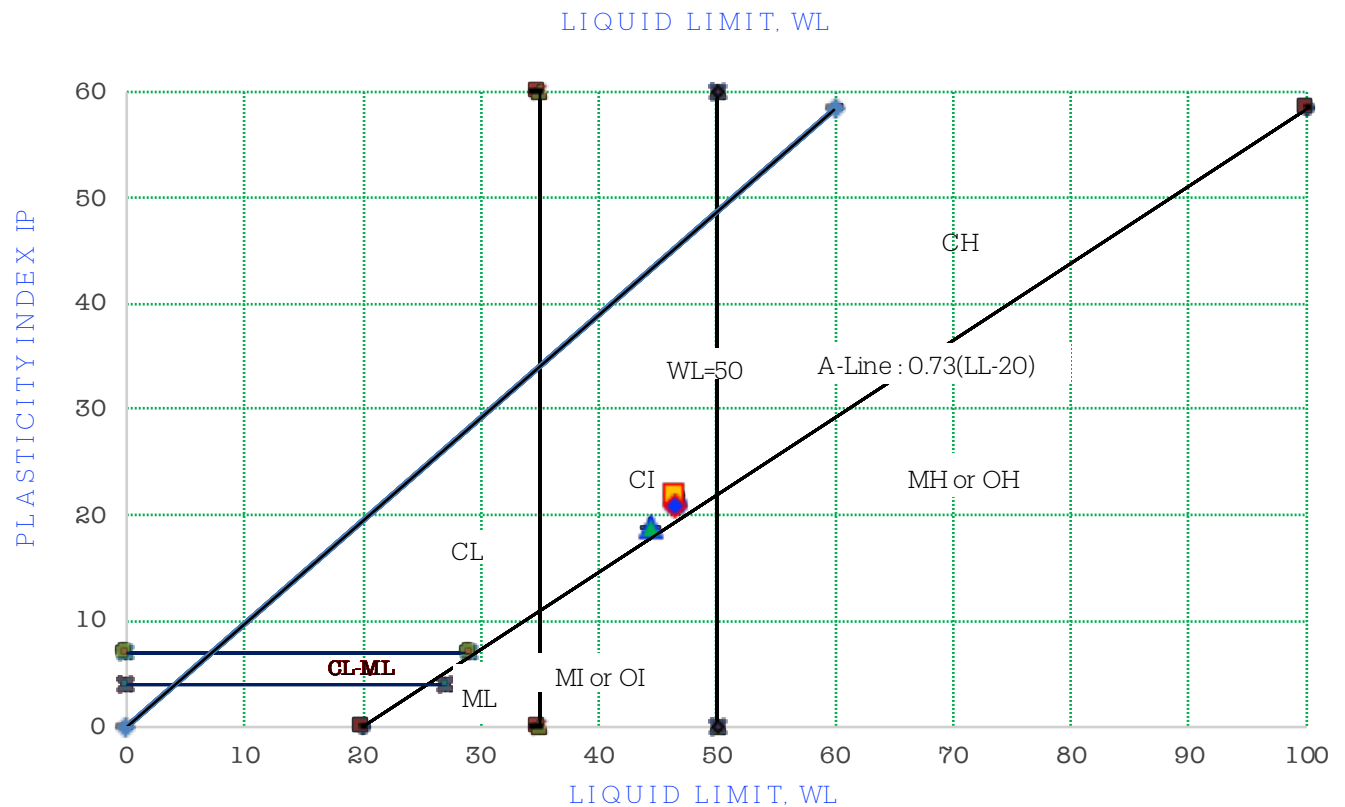
BH.NO	DEPTH, m	SYMBOL	LL	PL	PI	Soil Classification
2	1.50	●	46.3	25.0	21.3	CI
2	16.50	◆	47.4	26.5	20.9	CI
2	19.50	▲	48.3	26.3	22.0	CI
2	21.00	■	47.4	26.3	21.1	CI



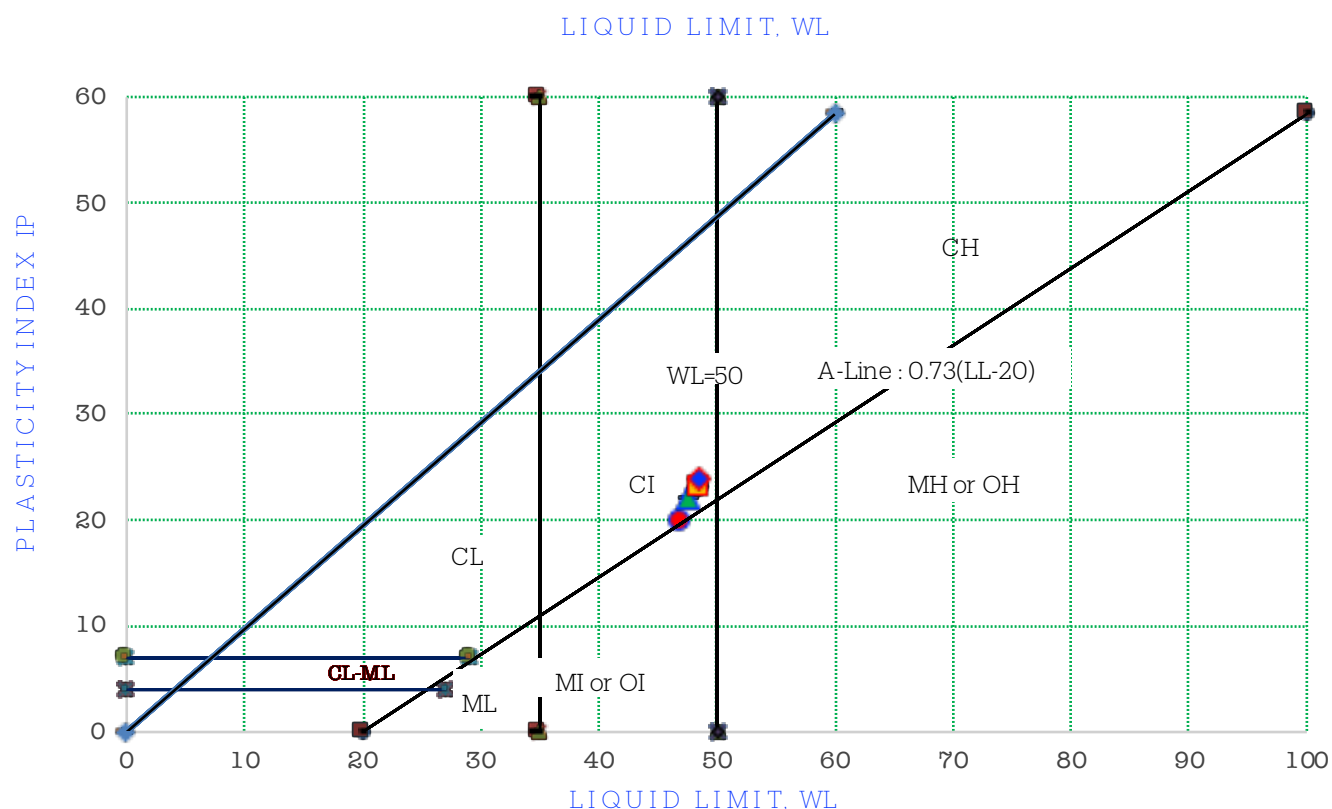
BH.NO	DEPTH, m	SYMBOL	LL	PL	PI	Soil Classification
2	24.00		45.5	26.7	18.8	CI
2	27.00		46.5	25.5	21.0	CI
						
						



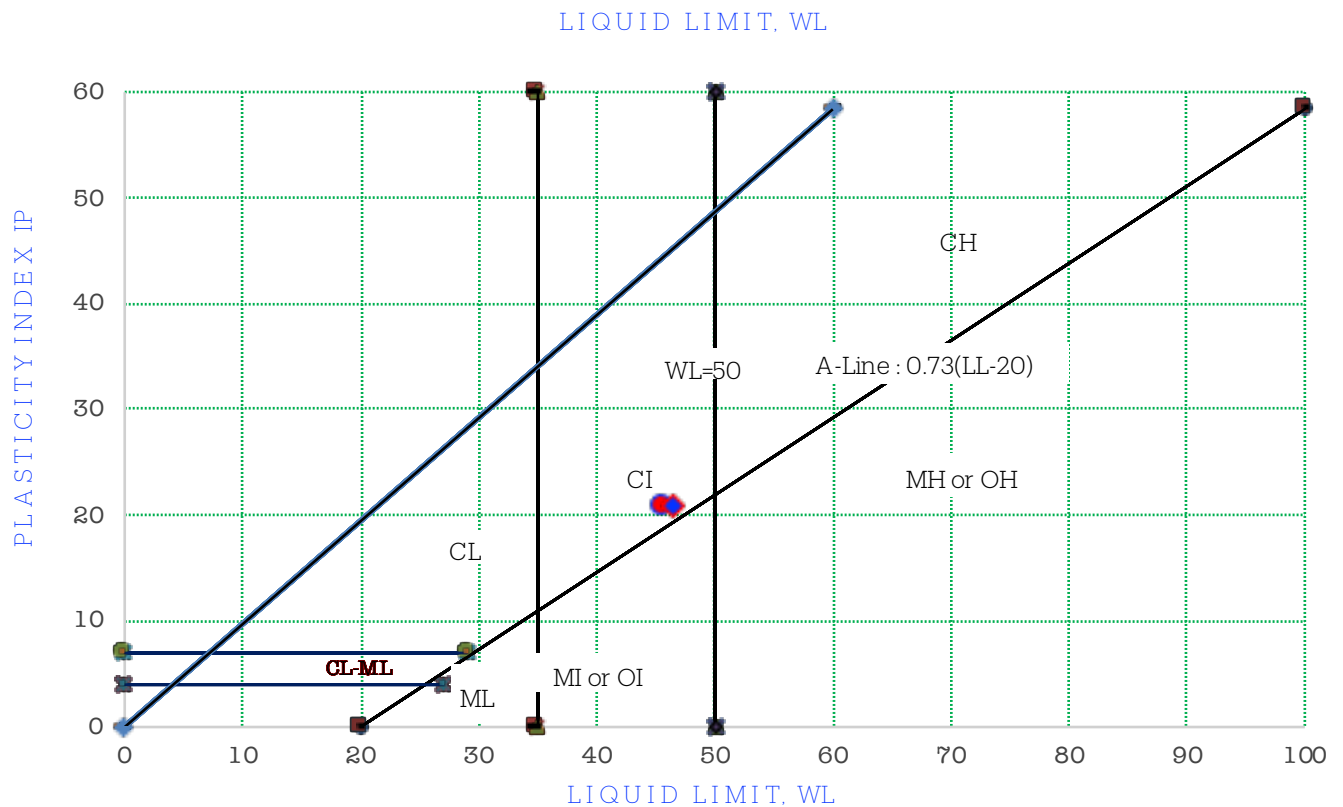
BH.NO	DEPTH, m	SYMBOL	LL	PL	PI	Soil Classification
3	1.50		47.4	27.0	20.4	CI
3	6.00		46.4	25.5	20.9	CI
3	9.00		35.0	21.0	14.0	CL
3	12.00		46.5	25.4	21.1	CI



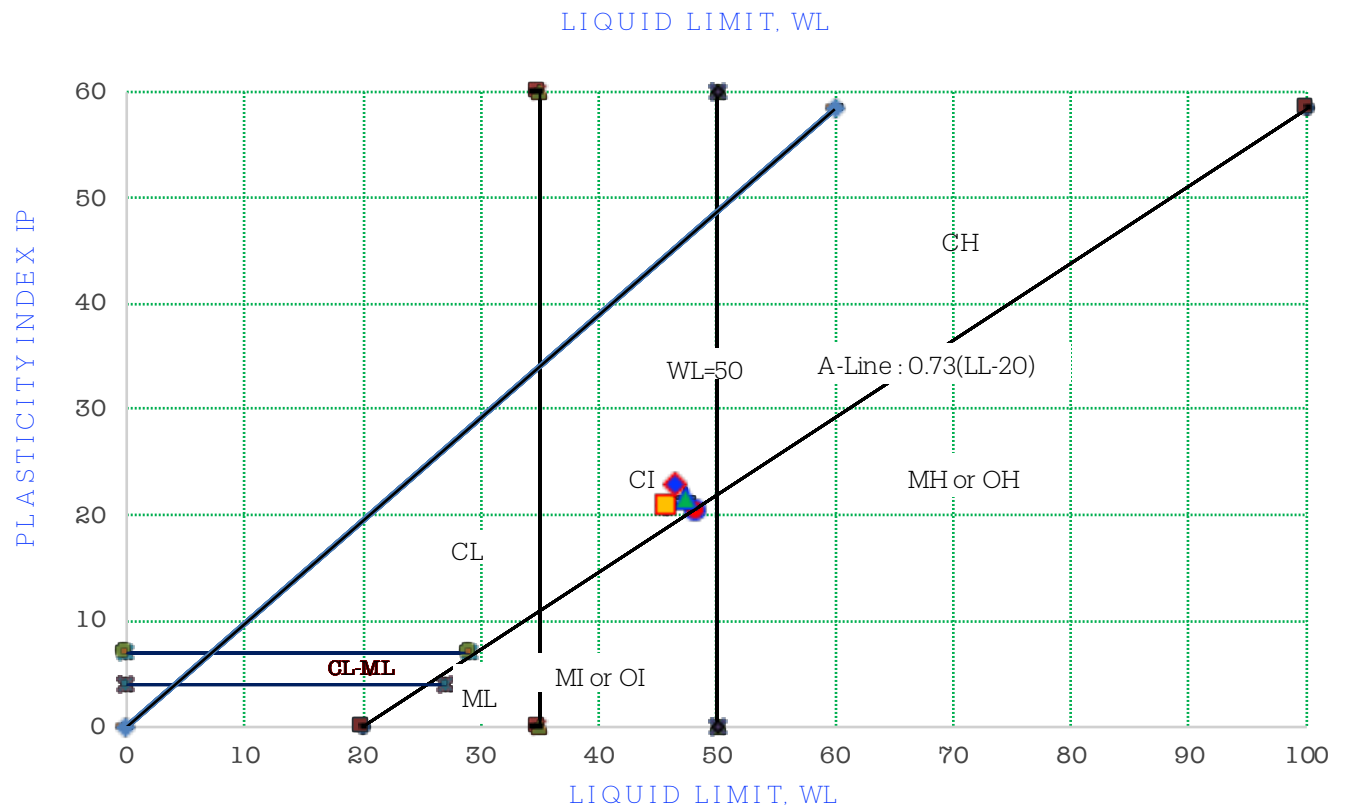
BH.NO	DEPTH, m	SYMBOL	LL	PL	PI	Soil Classification
3	15.00		46.6	25.8	20.8	CI
3	19.50		46.4	25.4	21.0	CI
3	21.50		44.5	25.6	18.9	CI
3	25.00		46.5	24.7	21.8	CI



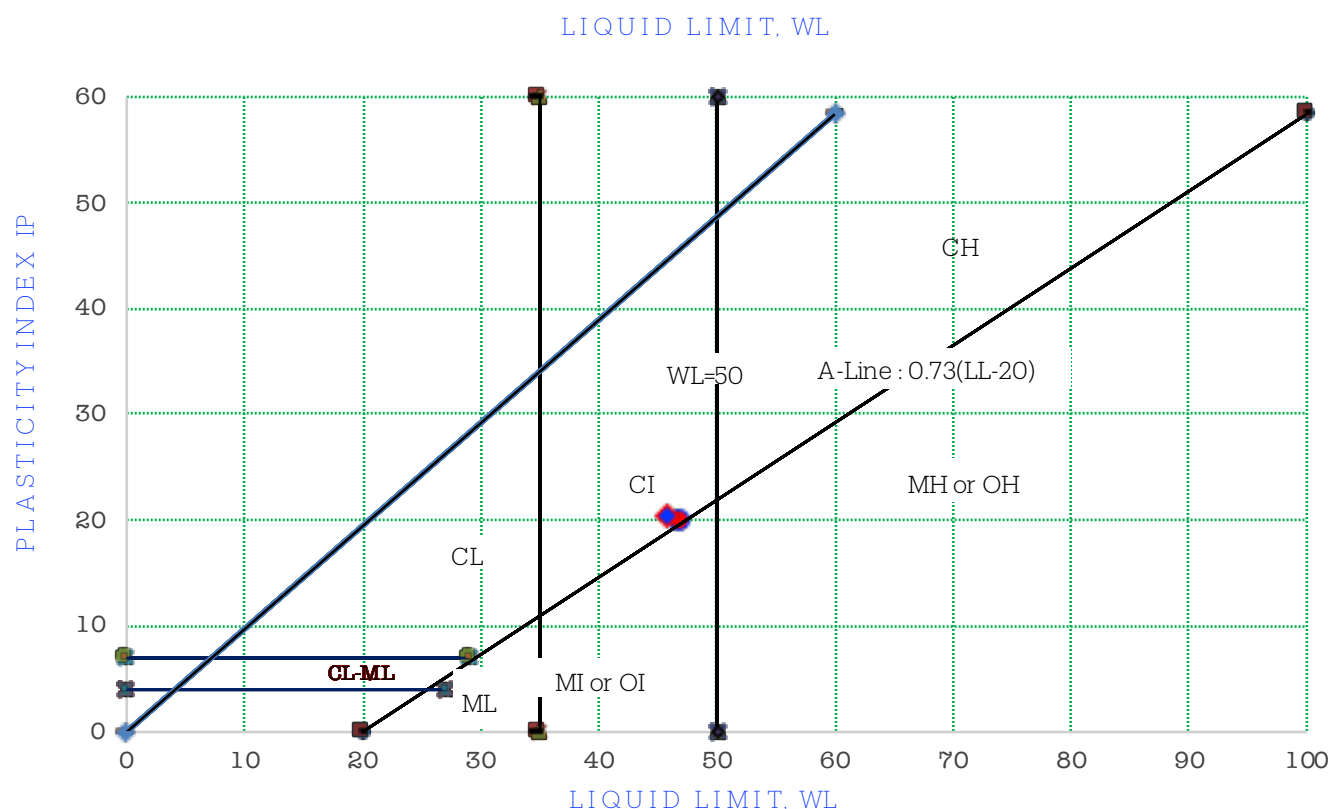
BH.NO	DEPTH, m	SYMBOL	LL	PL	PI	Soil Classification
4	1.50		46.8	27.0	19.8	CI
4	16.50		48.5	24.5	24.0	CI
4	19.50		47.5	25.4	22.1	CI
4	22.50		48.4	25.3	23.1	CI



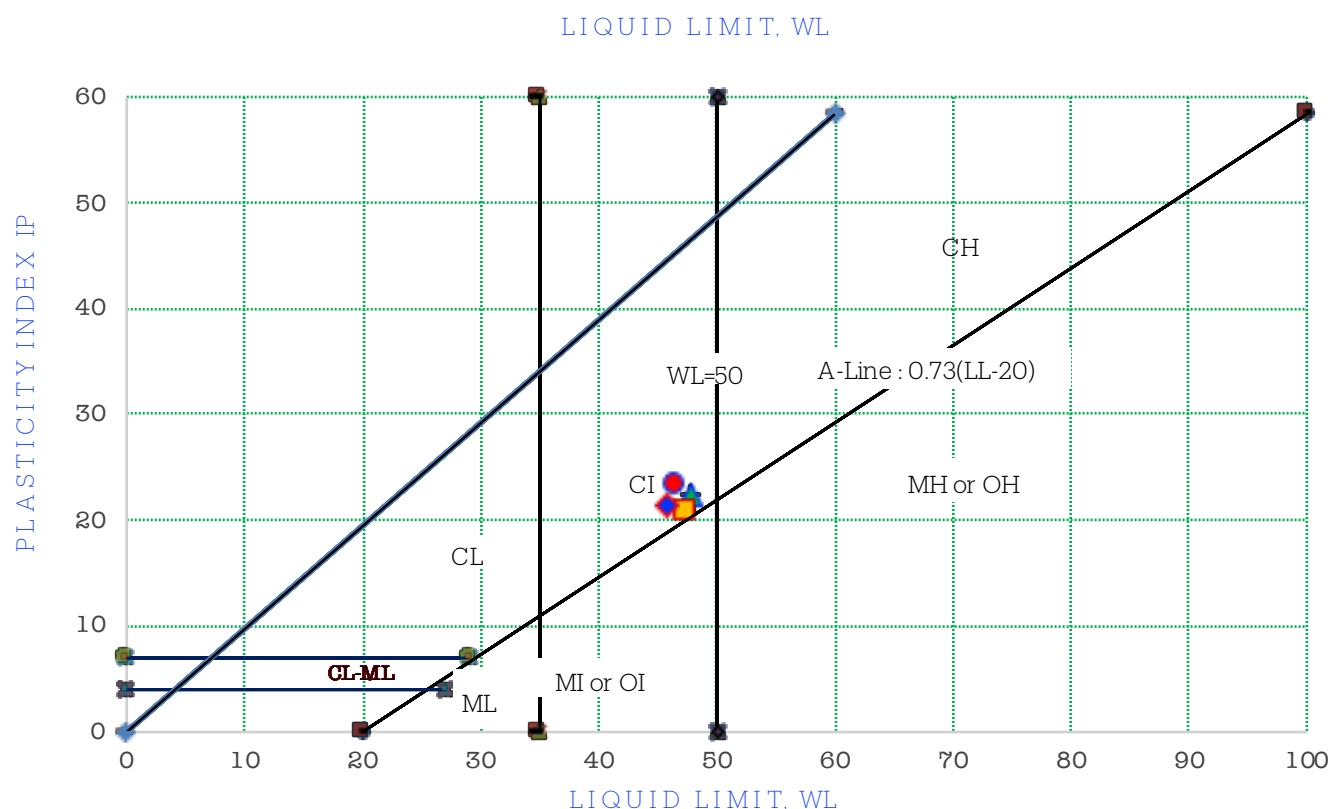
BH.NO	DEPTH, m	SYMBOL	LL	PL	PI	Soil Classification
4	25.50		45.5	24.7	20.8	CI
4	27.00		46.5	25.5	21.0	CI
						
						



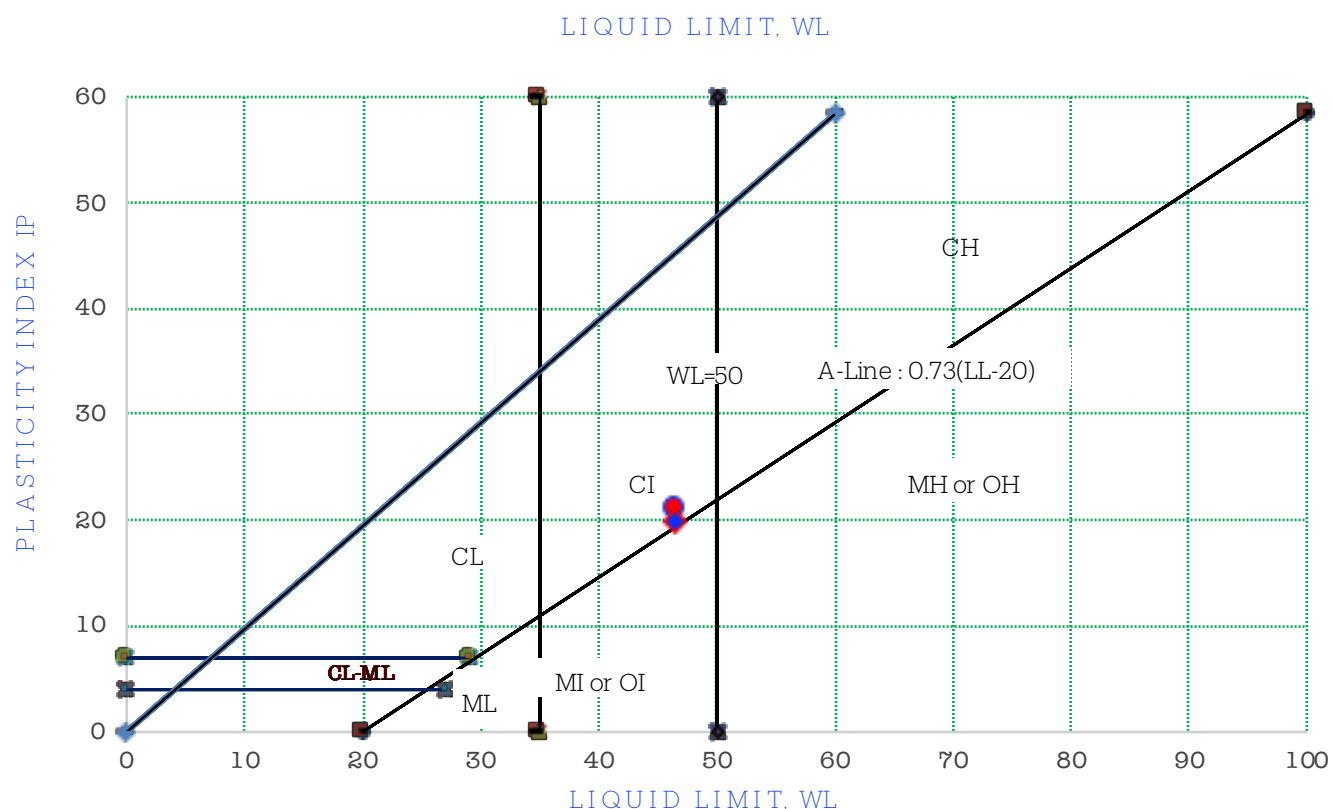
BH.NO	DEPTH, m	SYMBOL	LL	PL	PI	Soil Classification
5	1.50		48.3	28.0	20.3	CI
5	13.50		46.5	23.5	23.0	CI
5	16.50		47.4	25.7	21.7	CI
5	19.50		45.8	24.8	21.0	CI



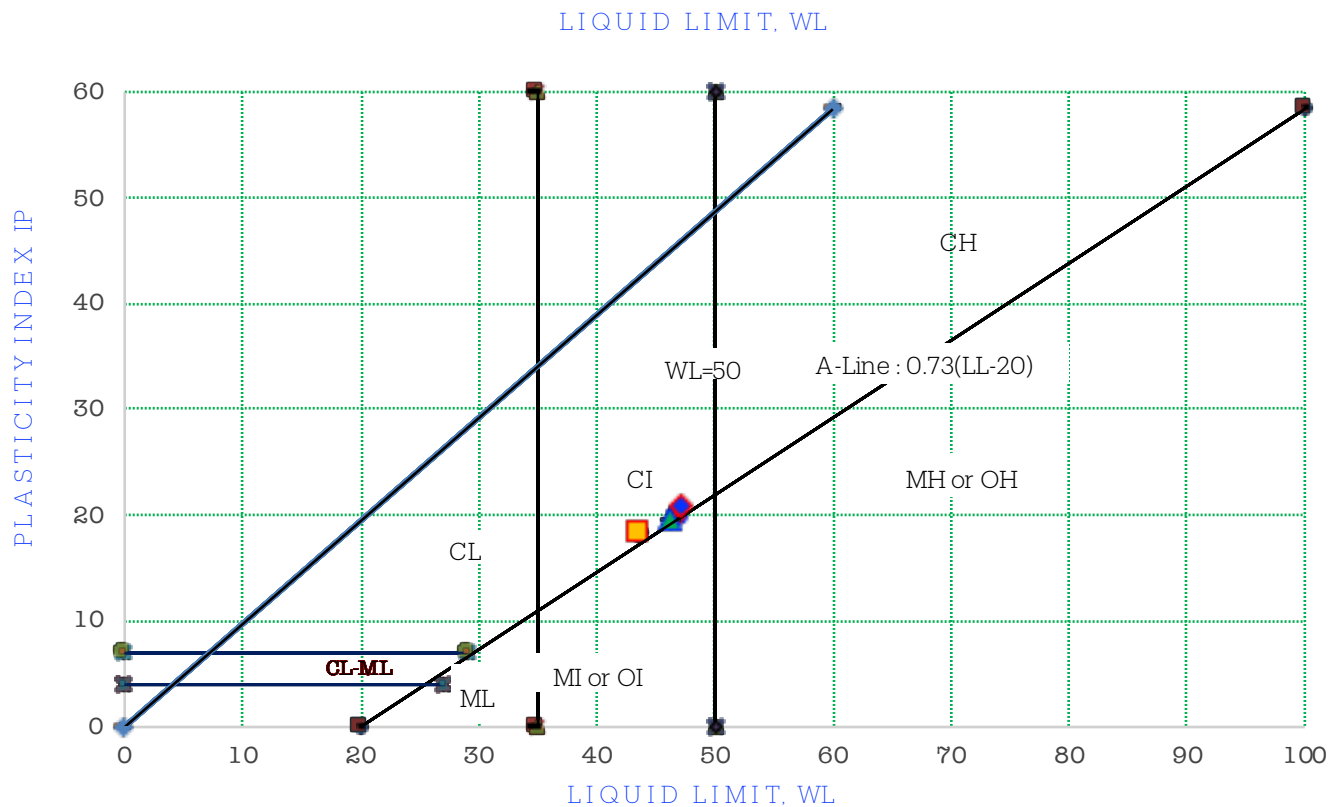
BH.NO	DEPTH, m	SYMBOL	LL	PL	PI	Soil Classification
5	22.50		46.9	27.0	19.9	CI
5	25.50		45.8	25.3	20.5	CI
						
						



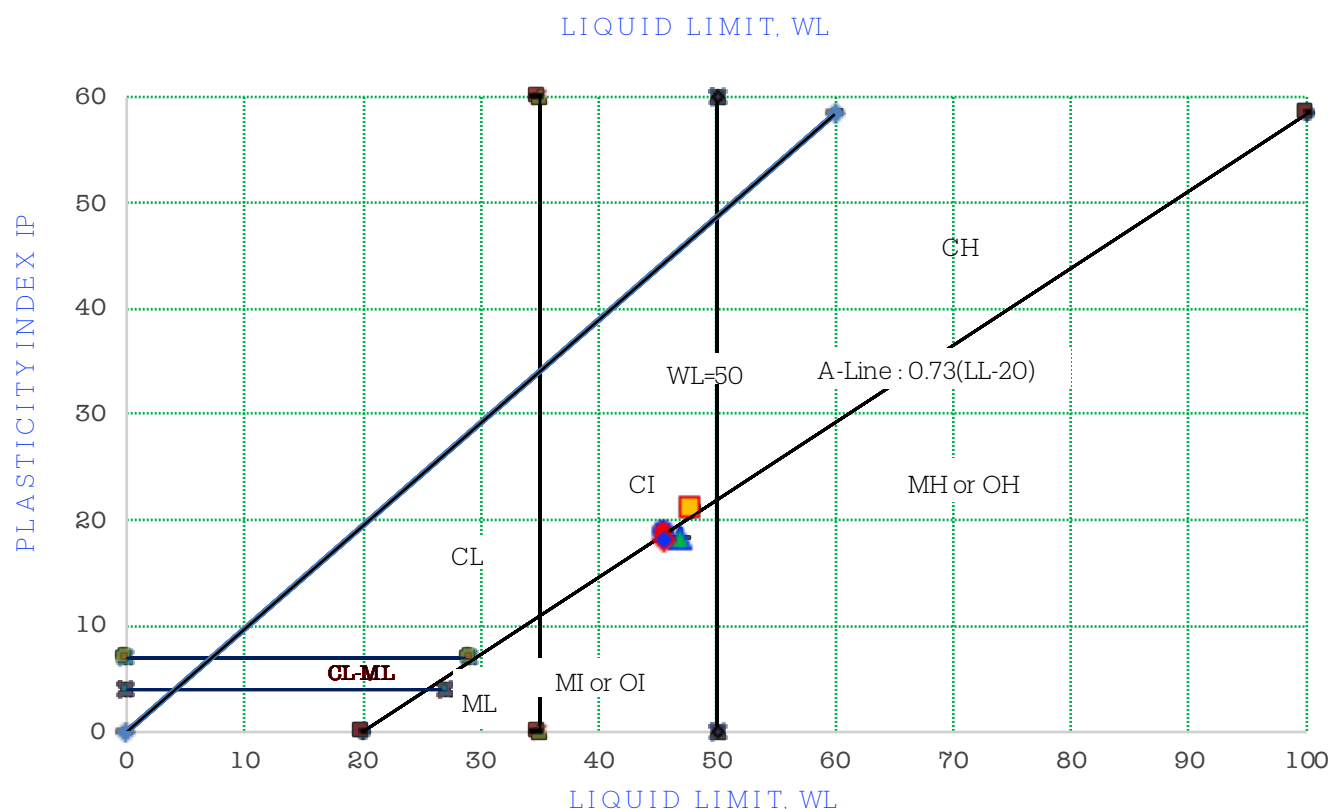
BH.NO	DEPTH, m	SYMBOL	LL	PL	PI	Soil Classification
6	1.50		46.5	23.0	23.5	CI
6	4.50		45.8	24.3	21.5	CI
6	7.50		47.8	25.4	22.4	CI
6	19.50		47.3	26.4	20.9	CI



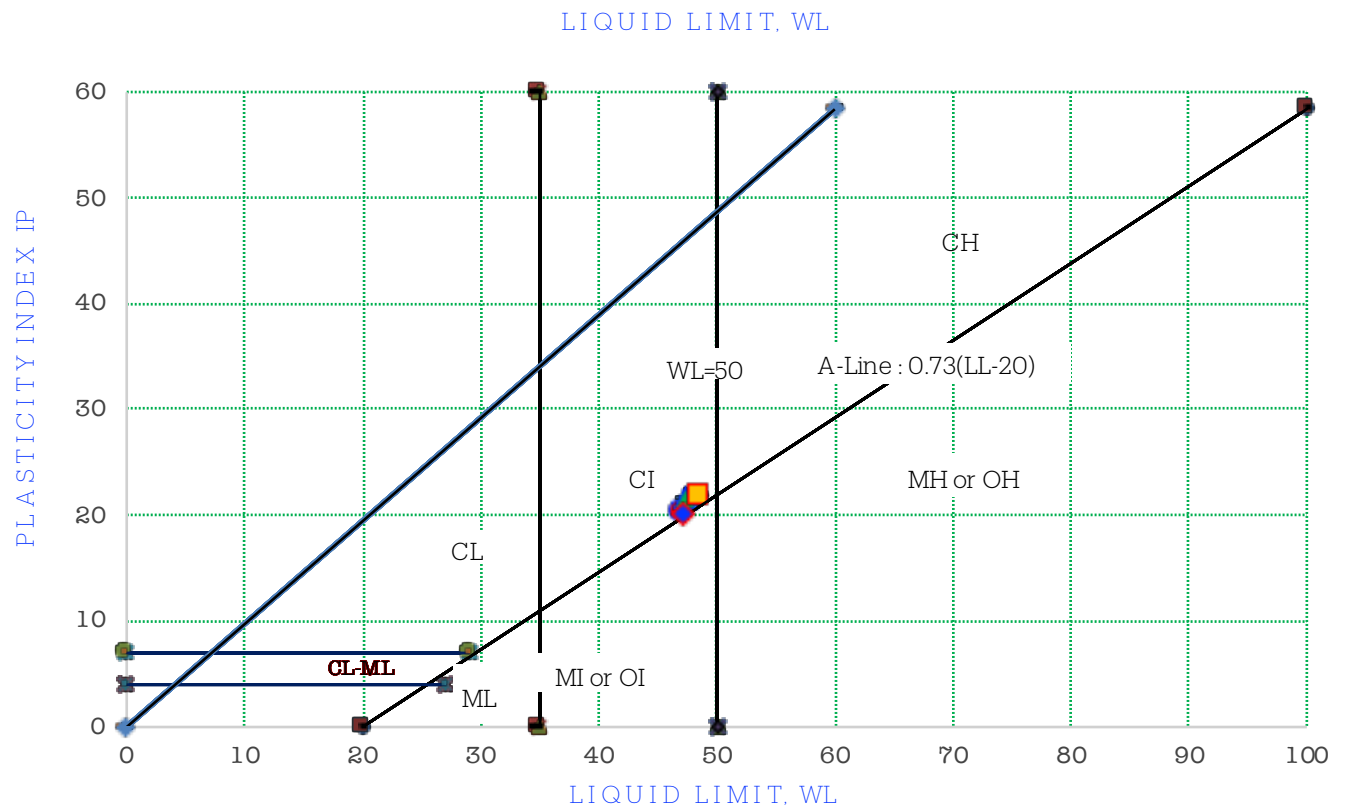
BH.NO	DEPTH, m	SYMBOL	LL	PL	PI	Soil Classification
6	13.50		46.5	25.4	21.1	CI
6	25.50		46.4	26.4	20.0	CI
						
						



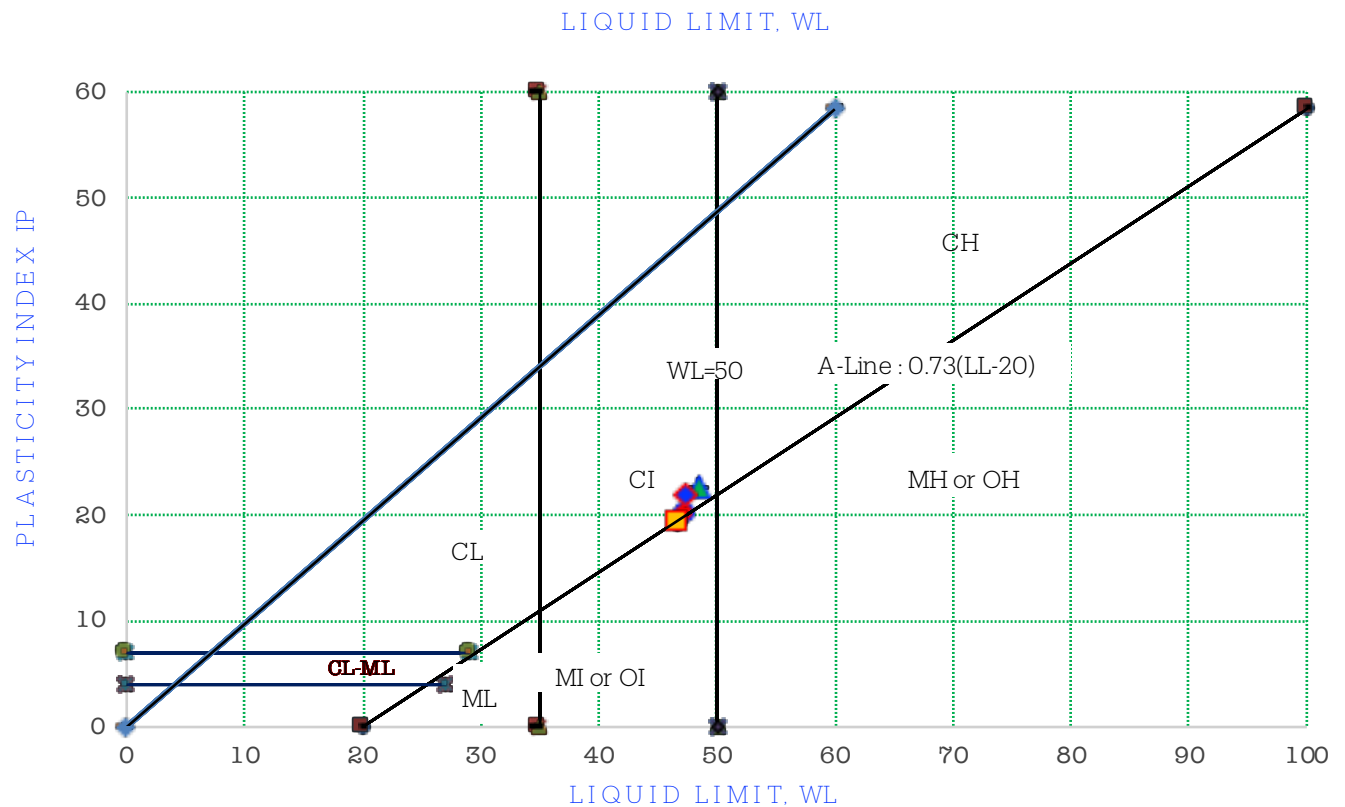
BH.NO	DEPTH, m	SYMBOL	LL	PL	PI	Soil Classification
7	1.50		46.8	27.0	19.8	CI
7	6.00		47.0	26.0	21.0	CI
7	12.00		46.2	26.5	19.7	CI
7	15.00		43.6	25.3	18.3	CI



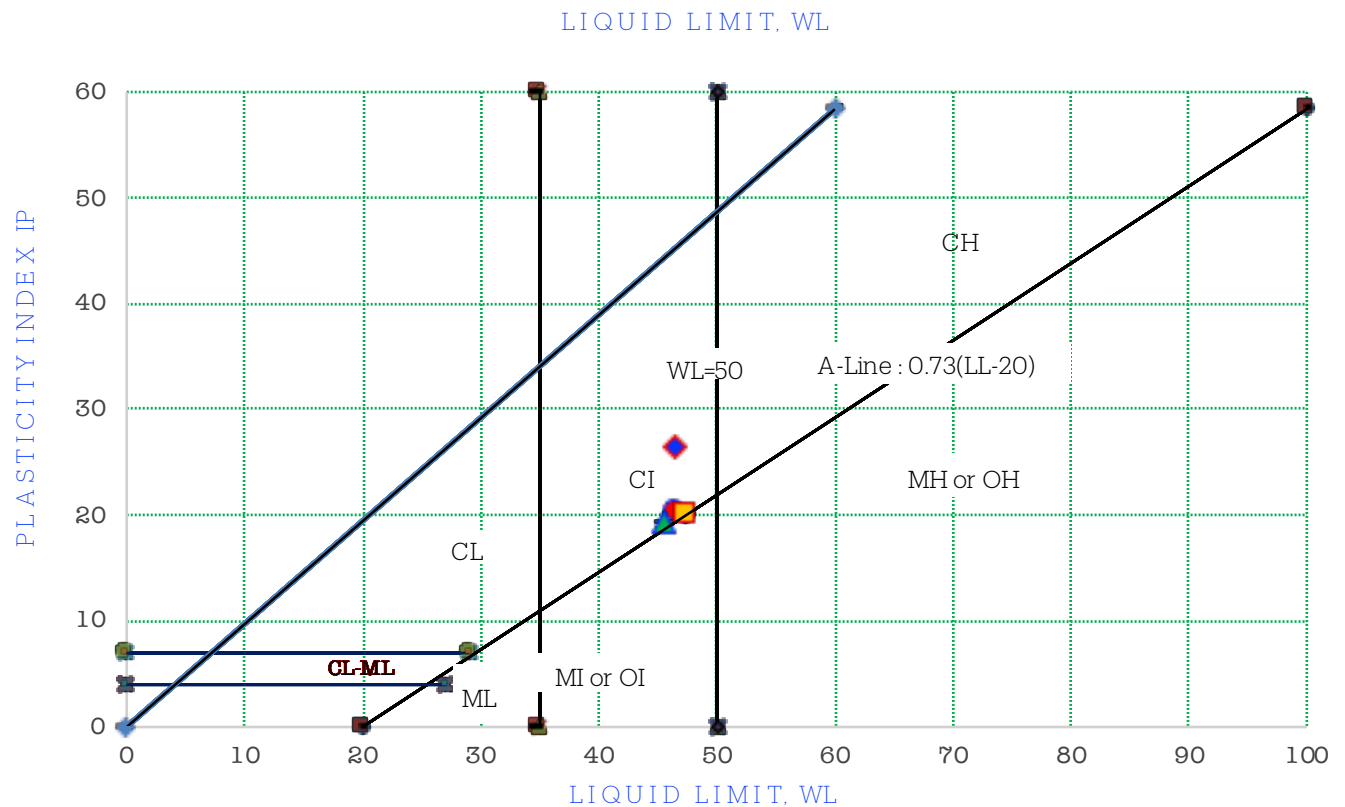
BH.NO	DEPTH, m	SYMBOL	LL	PL	PI	Soil Classification
7	18.00	●	45.6	26.8	18.8	CI
7	21.00	◆	45.6	27.4	18.2	CI
7	24.00	▲	46.8	28.5	18.3	CI
7	27.00	■	47.8	26.6	21.2	CI



BH.NO	DEPTH, m	SYMBOL	LL	PL	PI	Soil Classification
8	1.50		46.8	26.3	20.5	CI
8	6.00		47.2	27.1	20.1	CI
8	12.00		47.3	25.6	21.7	CI
8	15.00		48.4	26.4	22.0	CI



BH.NO	DEPTH, m	SYMBOL	LL	PL	PI	Soil Classification
8	18.00		47.4	27.2	20.2	CI
8	21.00		47.4	25.4	22.0	CI
8	24.00		48.5	25.8	22.7	CI
8	27.00		46.6	27.2	19.4	CI



BH.NO	DEPTH, m	SYMBOL	LL	PL	PI	Soil Classification
9	3.00		46.5	26.0	20.5	CI
9	21.00		46.5	20.1	26.4	CI
9	24.00		45.6	26.3	19.3	CI
9	27.00		47.4	27.2	20.2	CI



MEDINI

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ANNEXURE - VI

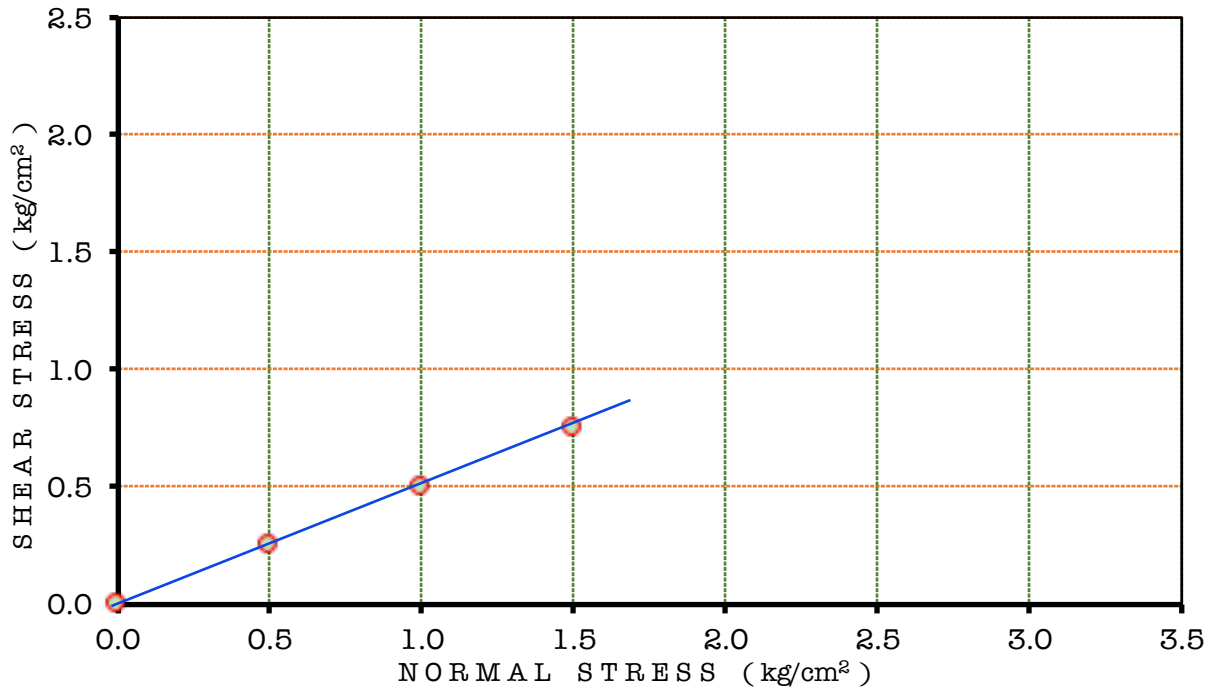
DIRECT SHEAR GRAPHS



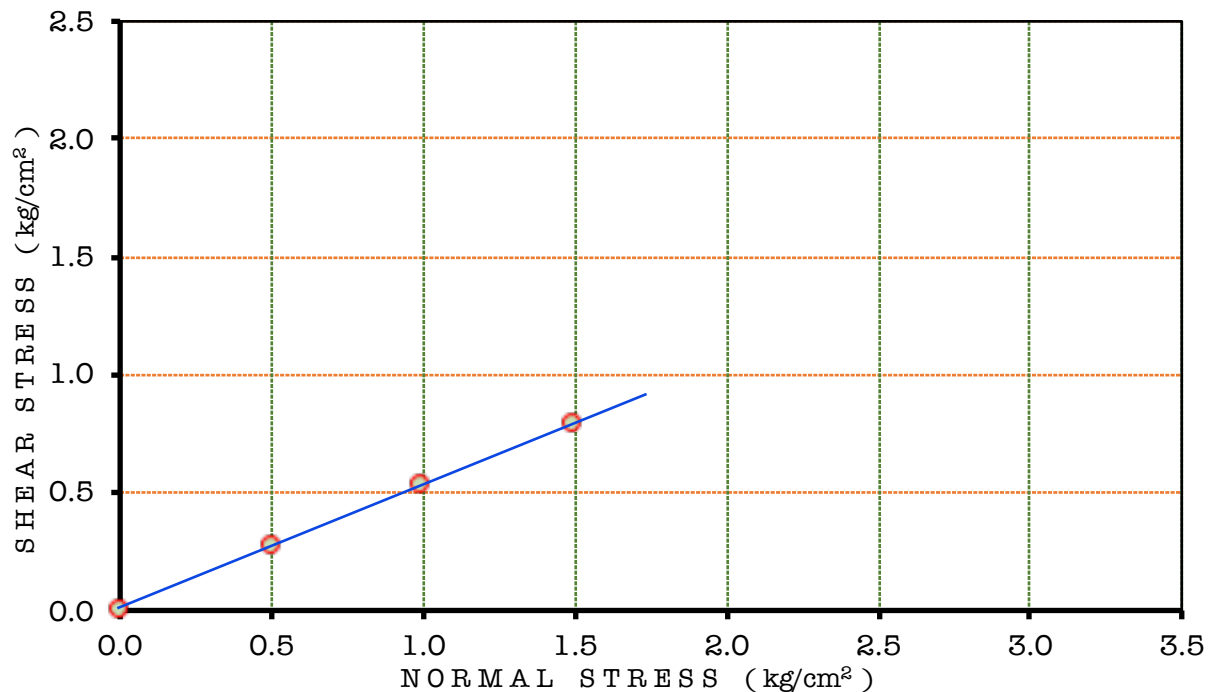
Depth @ 3.00 m

BH.NO

1



Depth @ 6.00 m



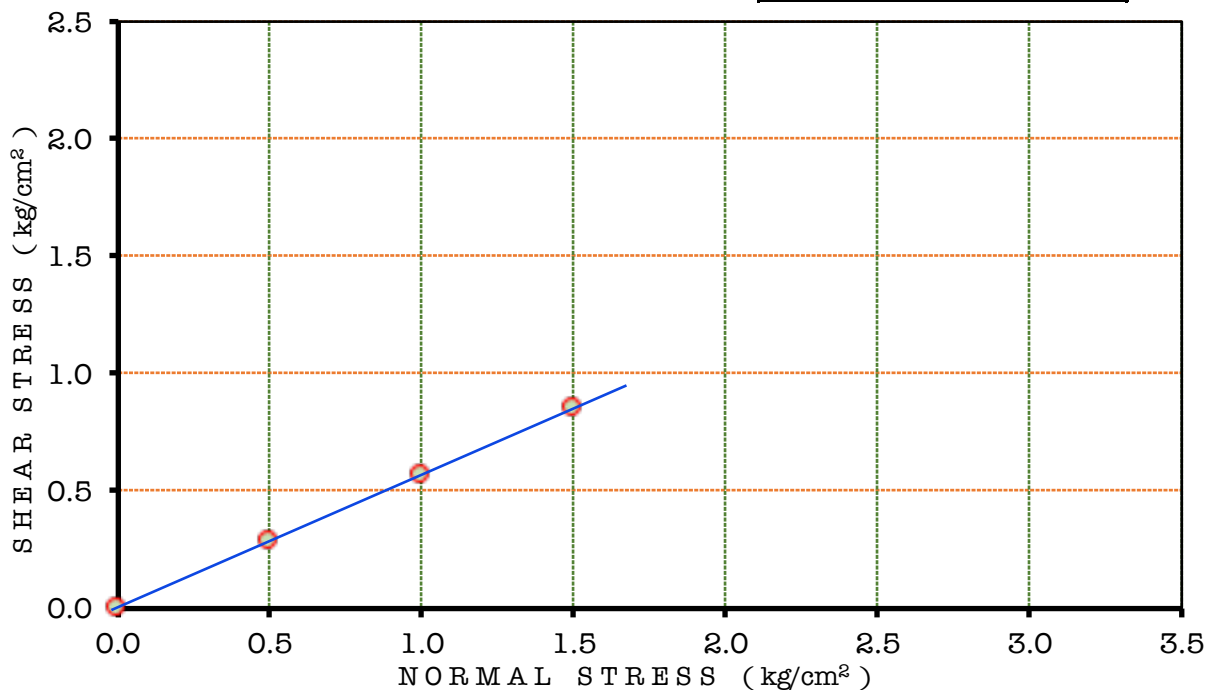
Depth of Sample ,m		3.00	6.00
Cohesion	Kg/cm ²	0.00	0.00
Angle of Internal Friction (φ)	Degree	26.50	27.70



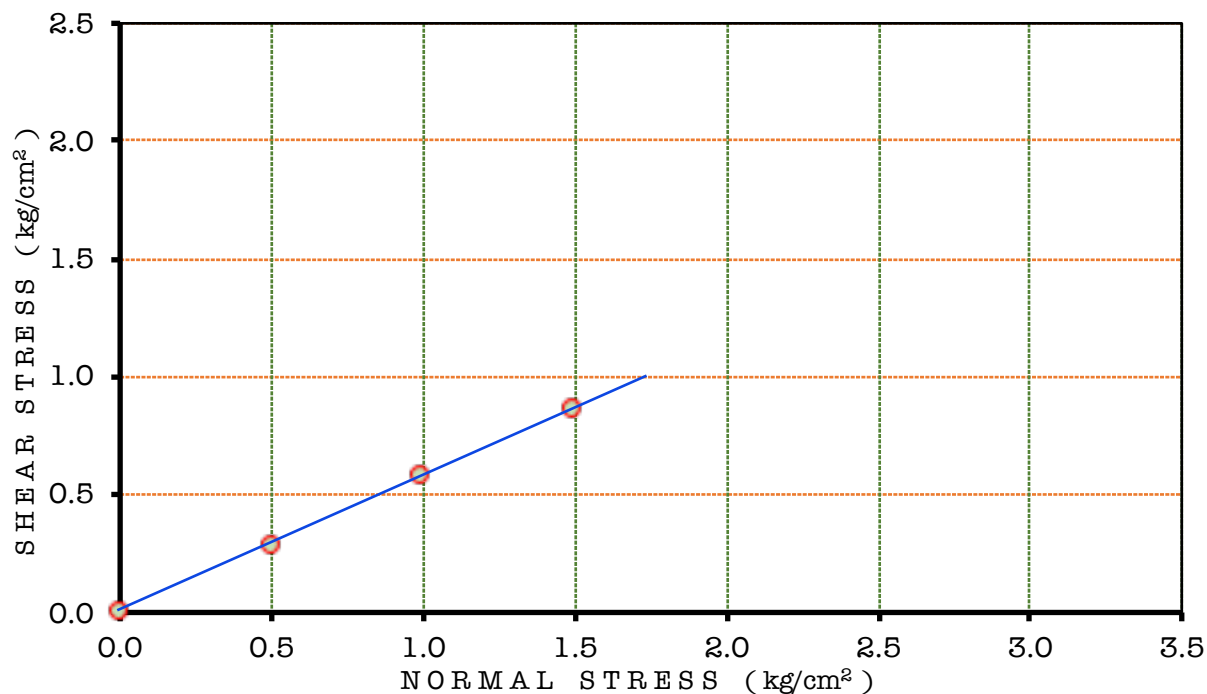
Depth @ 9.00 m

BH.NO

1



Depth @ 12.00 m



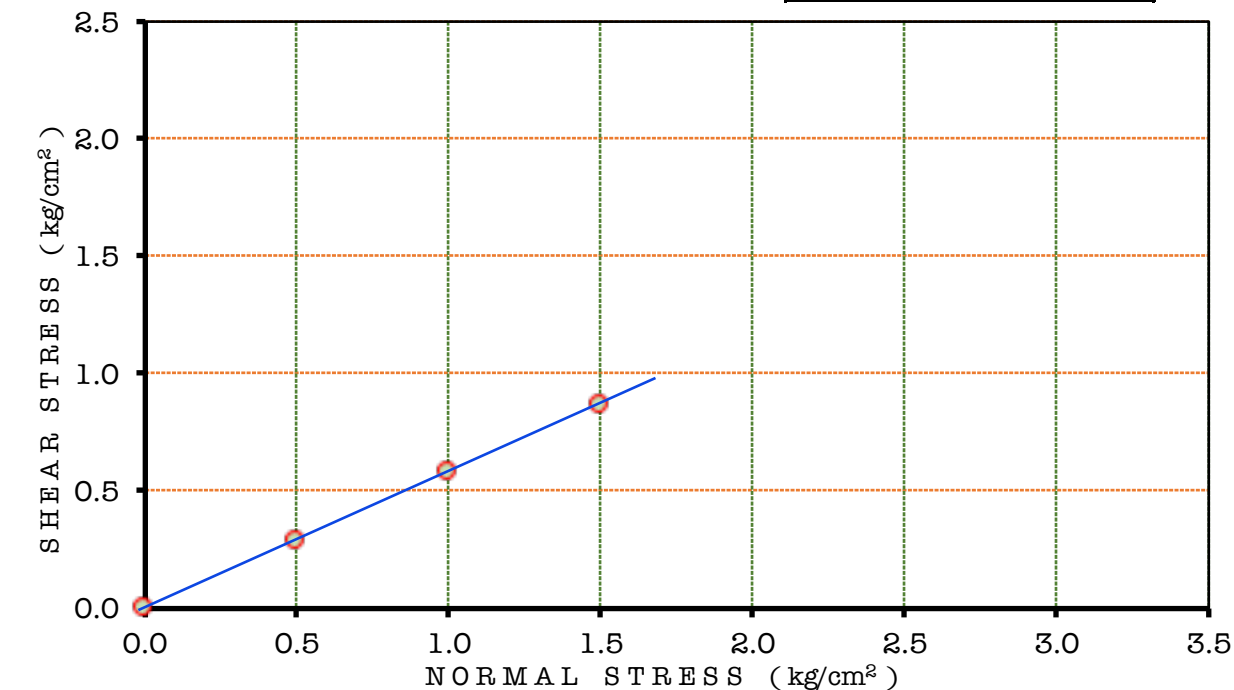
Depth of Sample ,m		9.00	12.00
Cohesion	Kg/cm ²	0.00	0.00
Angle of Internal Friction (φ)	Degree	29.40	29.60



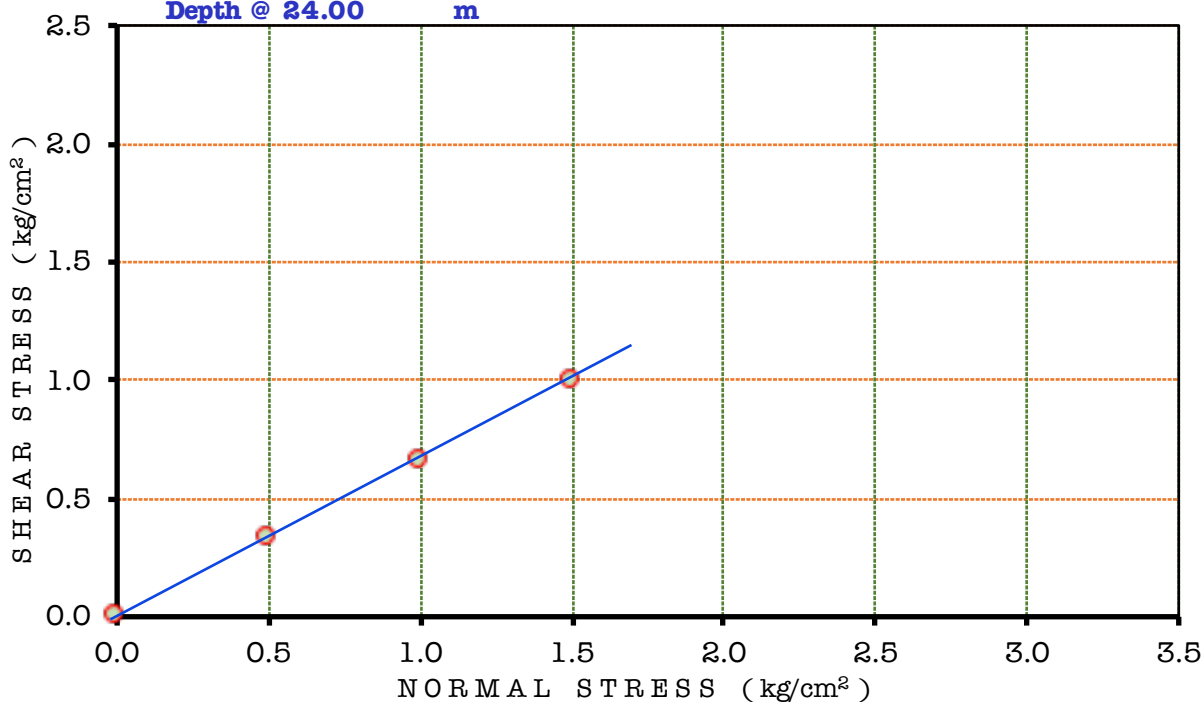
Depth @ 14.50 m

BH.NO

1



Depth @ 24.00 m



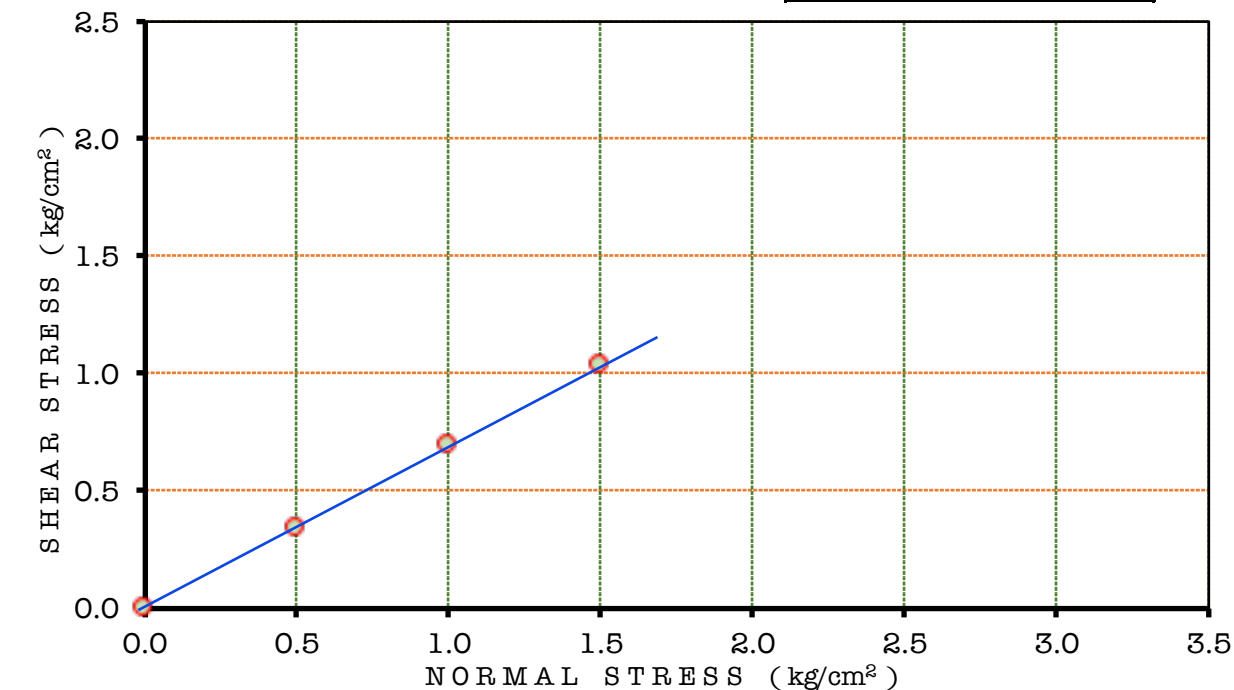
Depth of Sample ,m		14.50	24.00
Cohesion	Kg/cm ²	0.00	0.00
Angle of Internal Friction (φ)	Degree	29.80	33.60



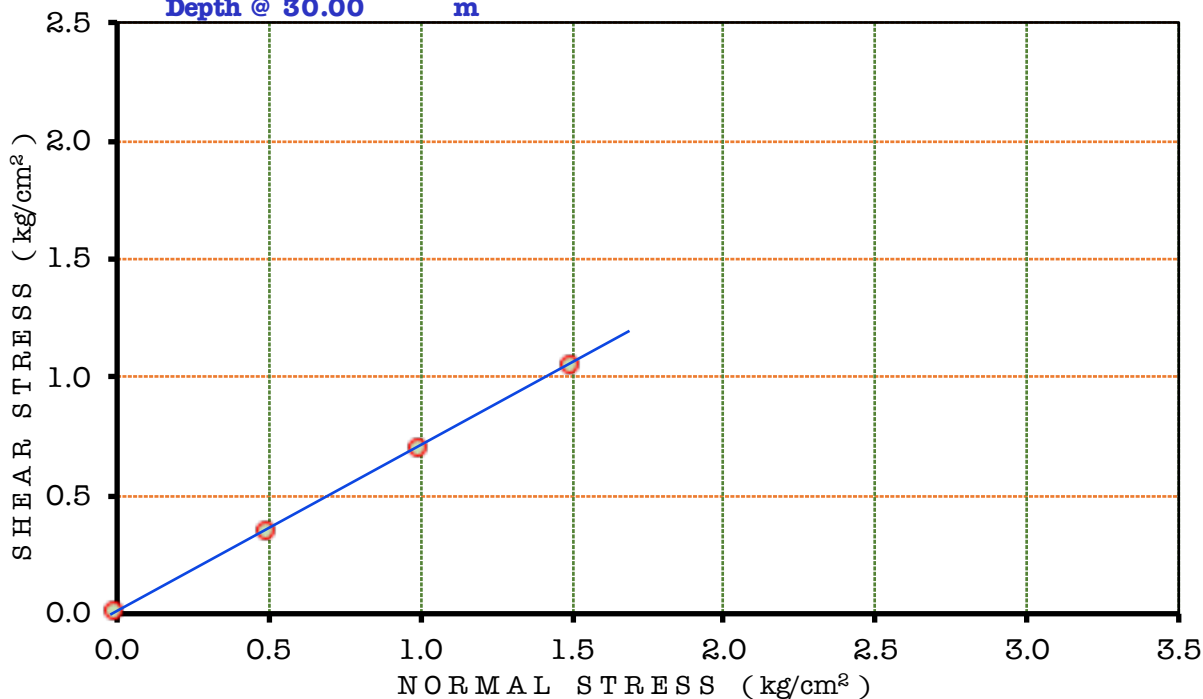
Depth @ 27.00 m

BH.NO

1



Depth @ 30.00 m



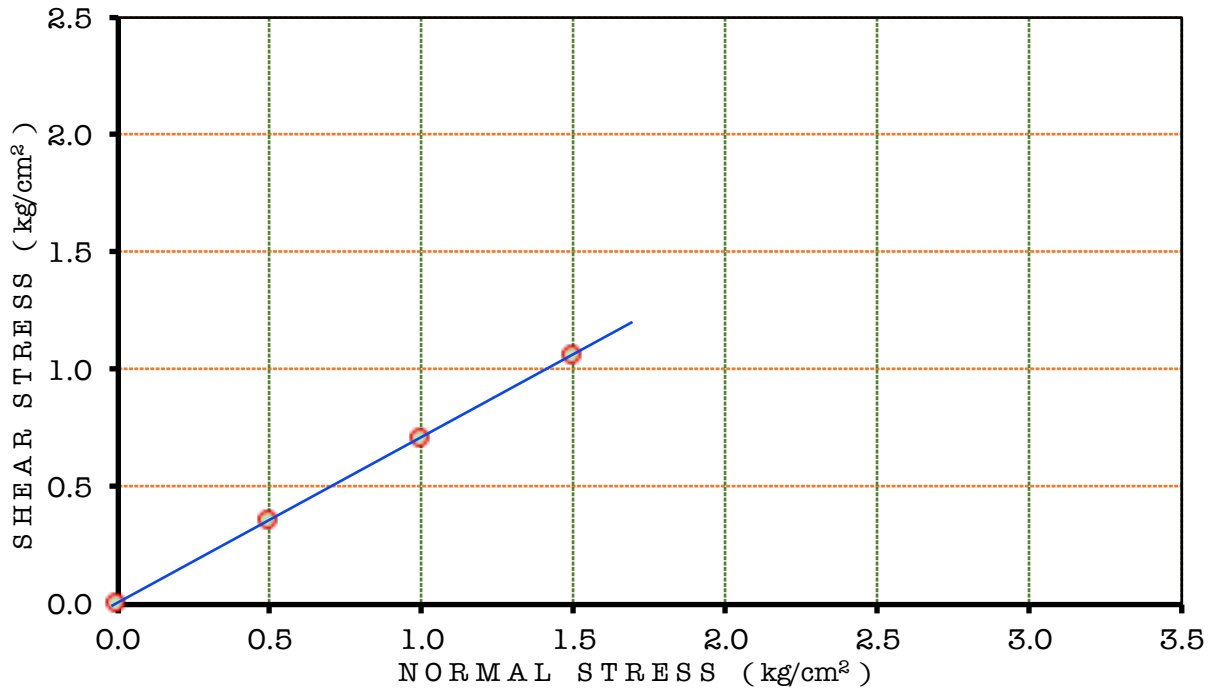
Depth of Sample ,m		27.00	30.00
Cohesion	Kg/cm ²	0.00	0.00
Angle of Internal Friction (φ)	Degree	34.40	34.80



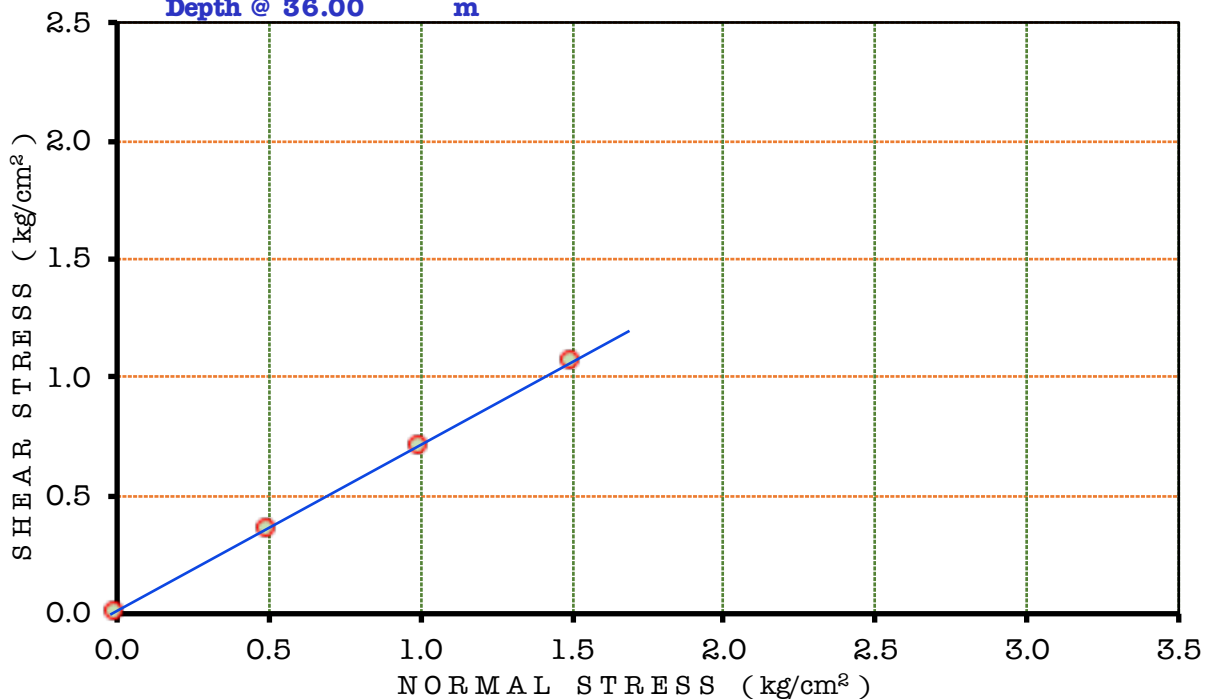
Depth @ **33.00** m

BH.NO

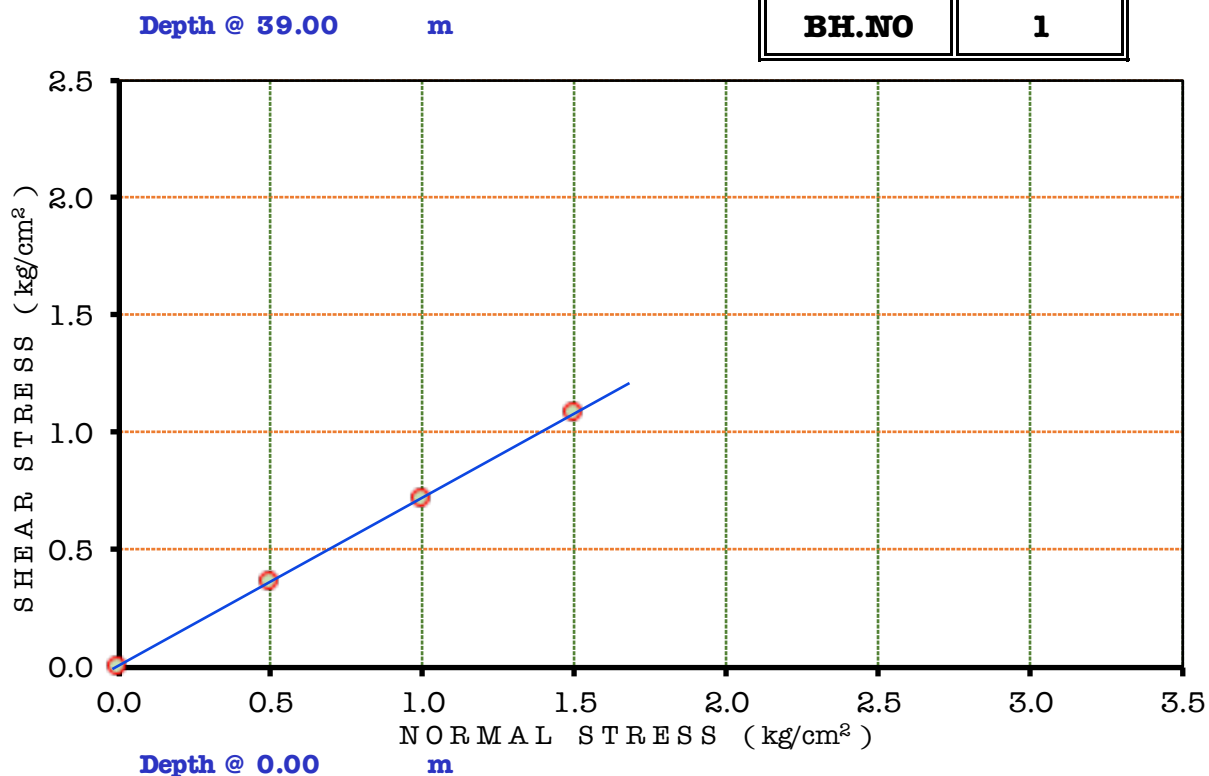
1



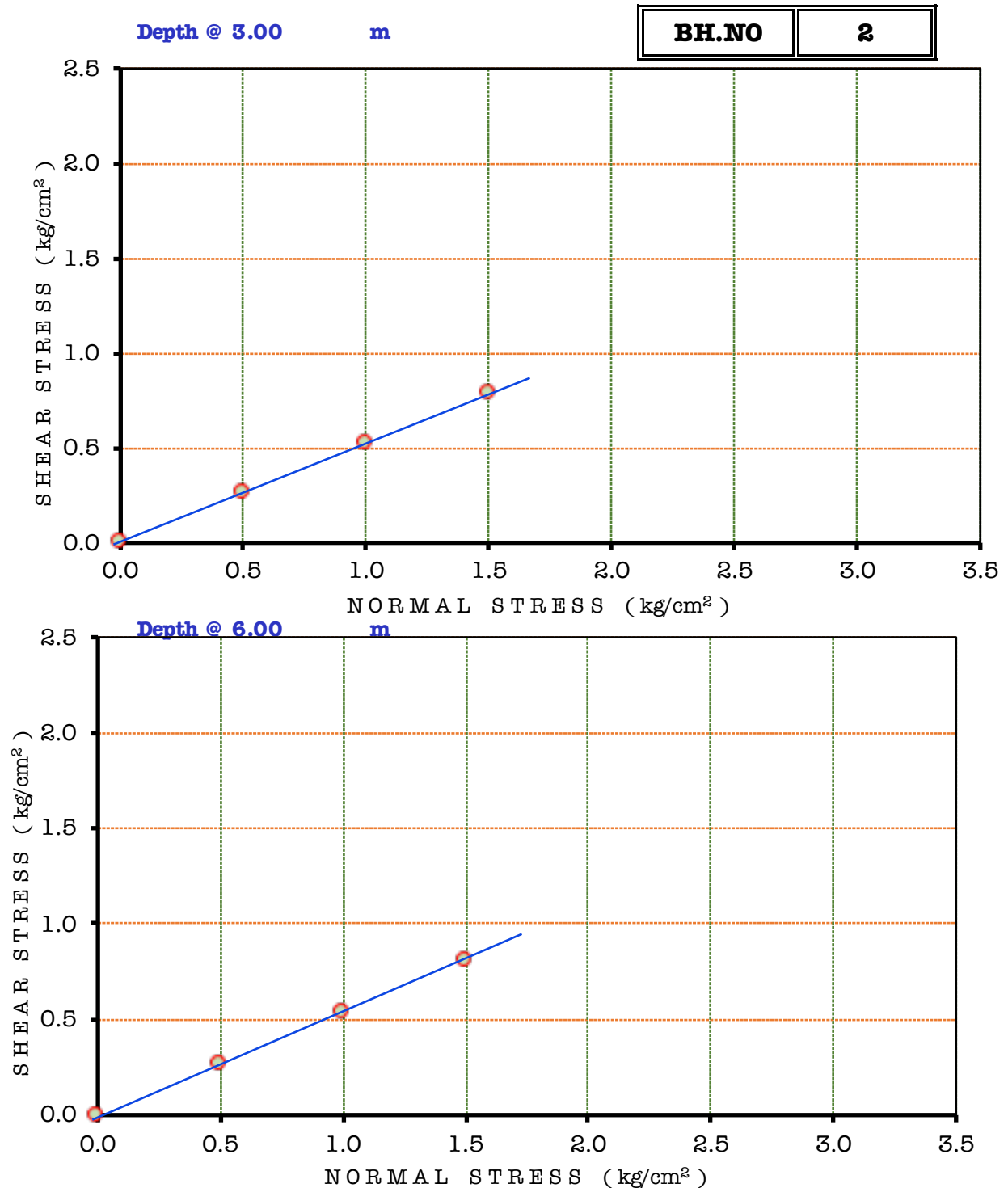
Depth @ **36.00** m



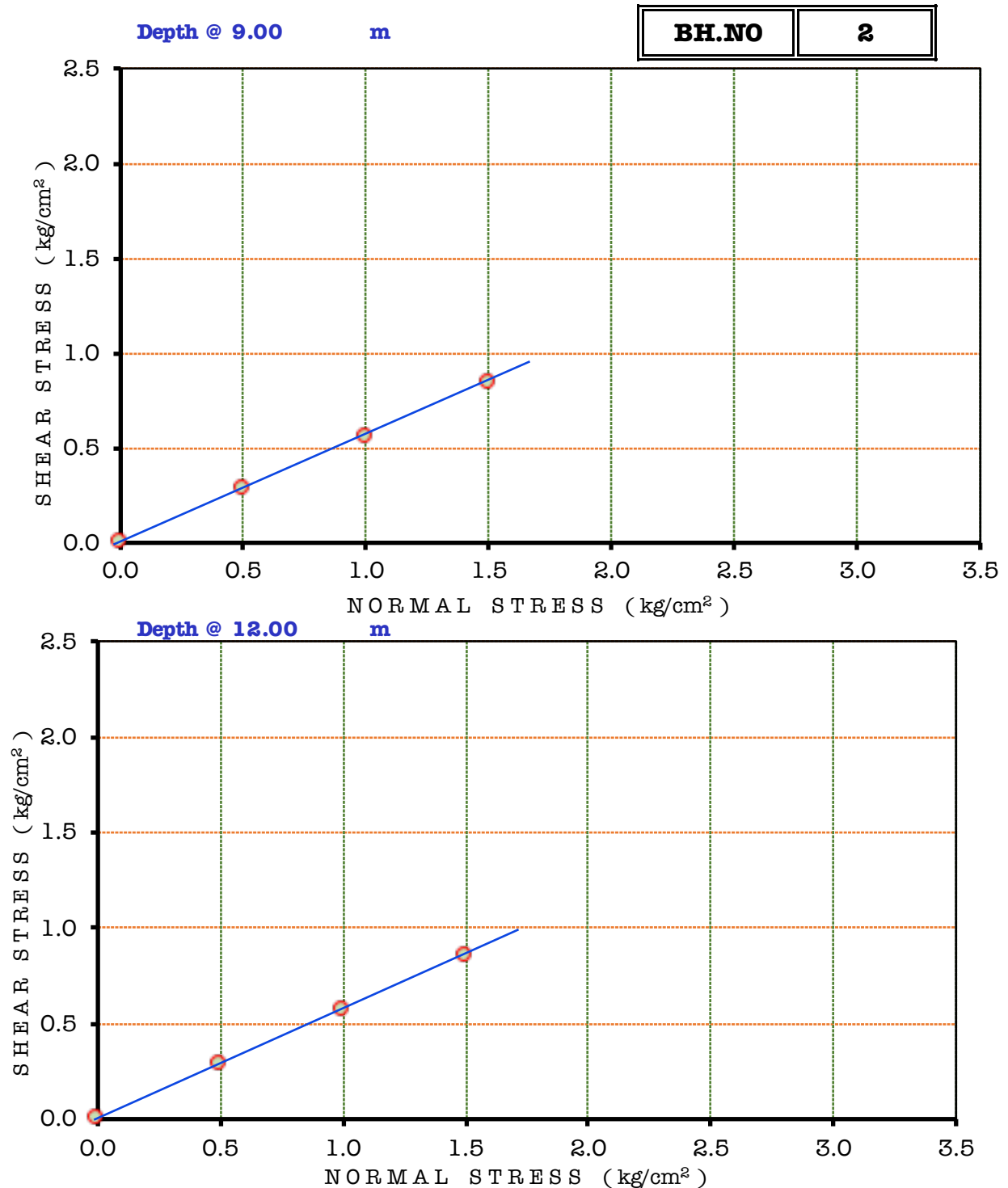
Depth of Sample ,m		33.00	36.00
Cohesion	Kg/cm ²	0.00	0.00
Angle of Internal Friction (ϕ)	Degree	35.00	35.30



Depth of Sample ,m		39.00	
Cohesion	Kg/cm ²	0.00	
Angle of Internal Friction (φ)	Degree	35.60	



Depth of Sample ,m		3.00	6.00
Cohesion	Kg/cm ²	0.00	0.00
Angle of Internal Friction (φ)	Degree	27.50	28.30



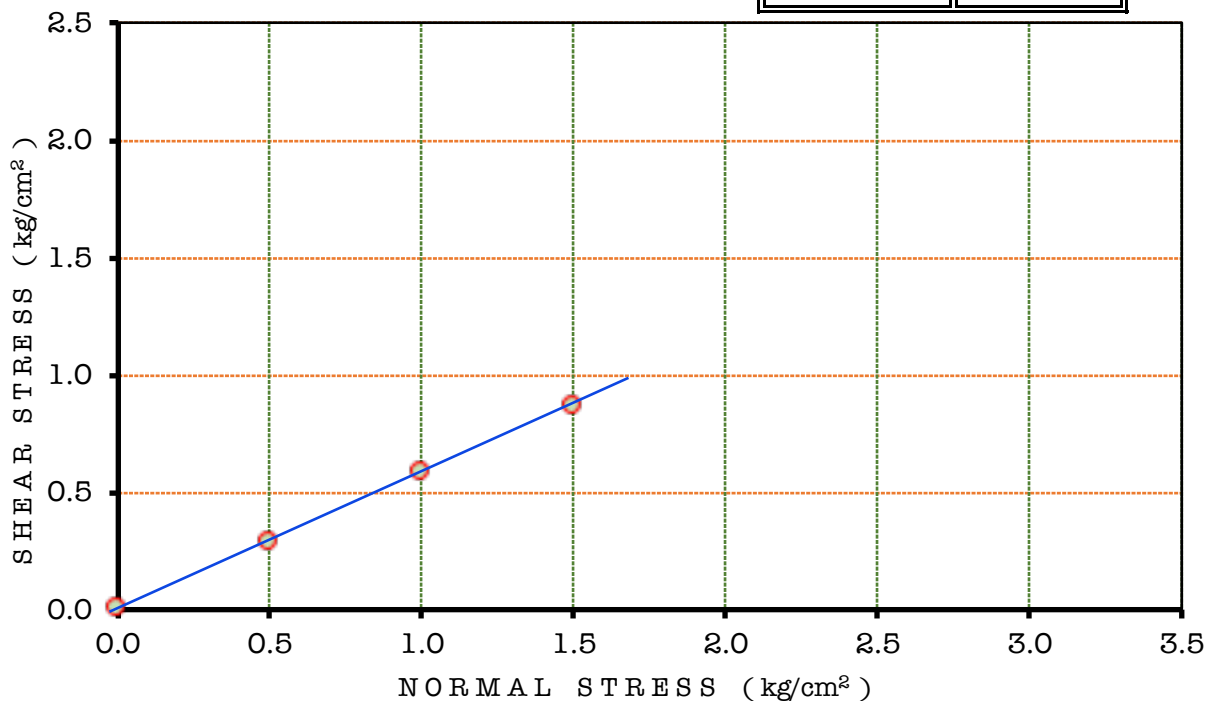
Depth of Sample ,m		9.00	12.00
Cohesion	Kg/cm ²	0.00	0.00
Angle of Internal Friction (φ)	Degree	29.30	29.50



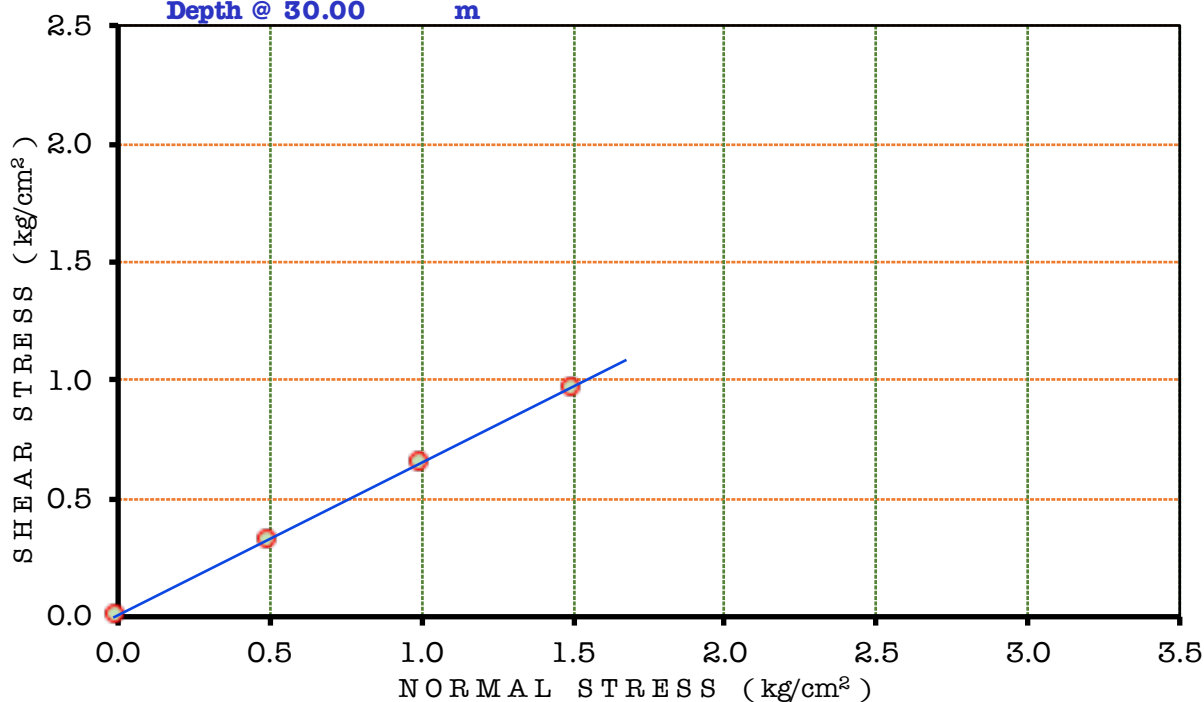
Depth @ 15.00 m

BH.NO

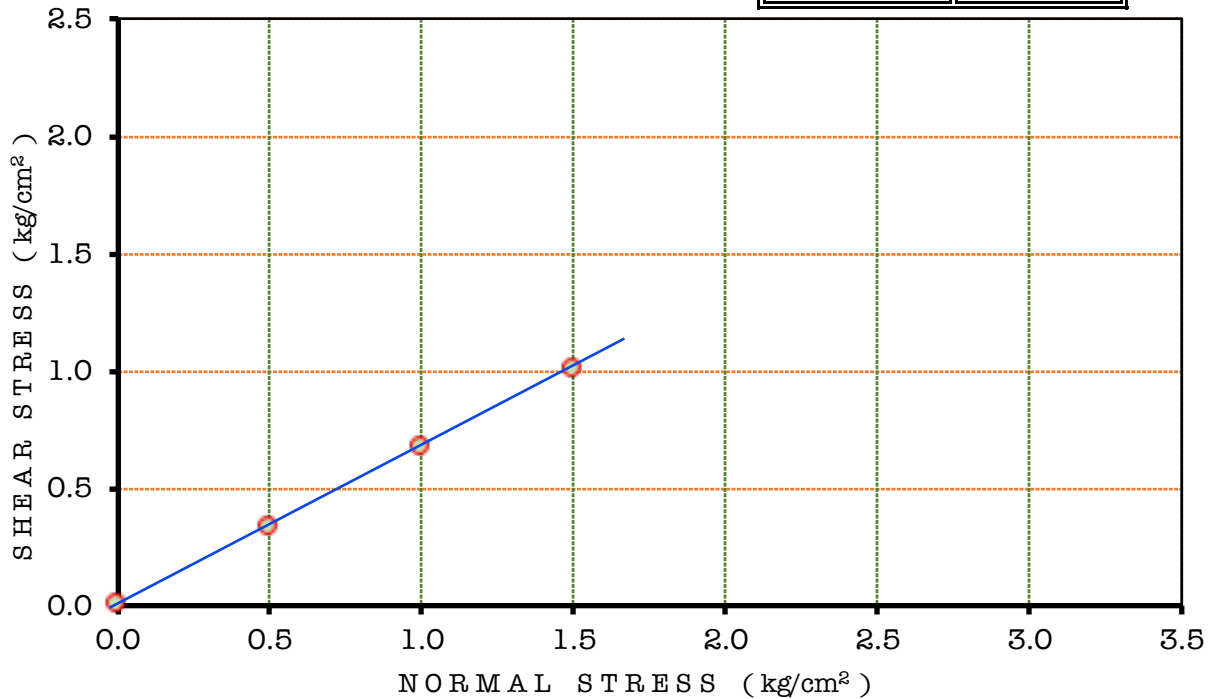
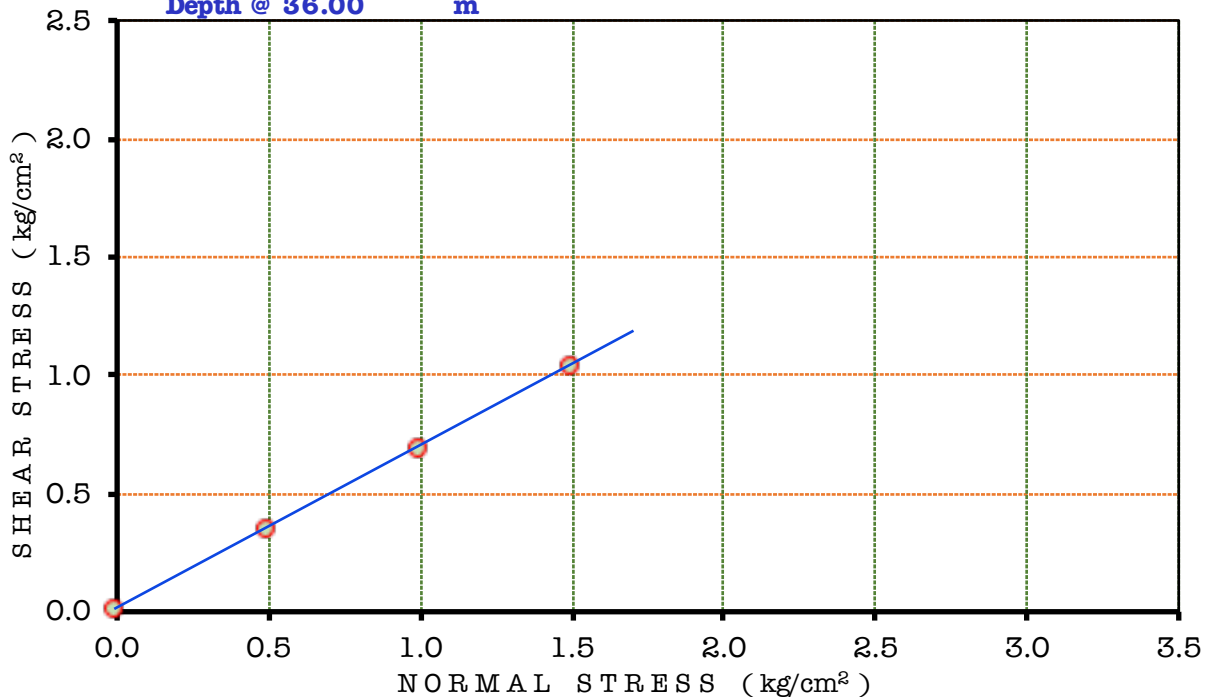
2



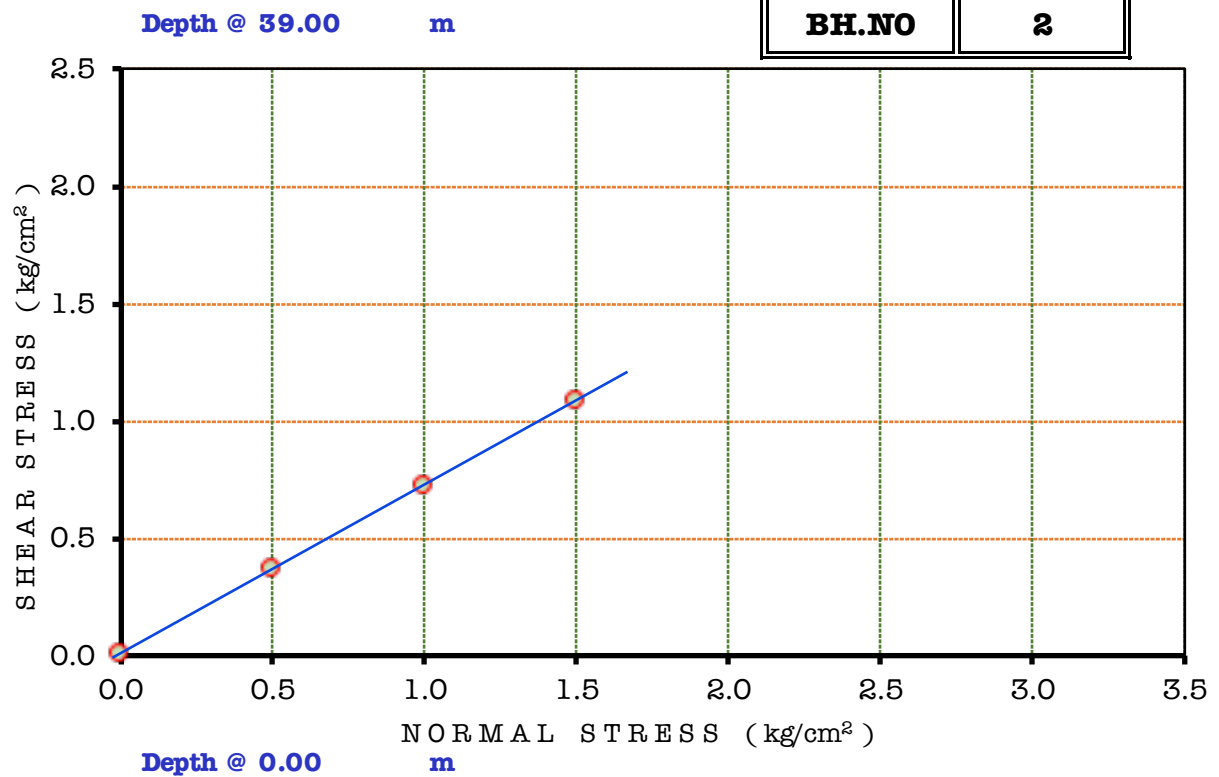
Depth @ 30.00 m



Depth of Sample ,m		15.00	30.00
Cohesion	Kg/cm ²	0.00	0.00
Angle of Internal Friction (φ)	Degree	30.10	32.80

**MEDINI****GEO ENGINEERING SERVICES****DIRECT SHEAR GRAPHS****Depth @ 33.00 m****BH.NO****2****Depth @ 36.00 m**

Depth of Sample ,m		33.00	36.00
Cohesion	Kg/cm ²	0.00	0.00
Angle of Internal Friction (φ)	Degree	33.80	34.40



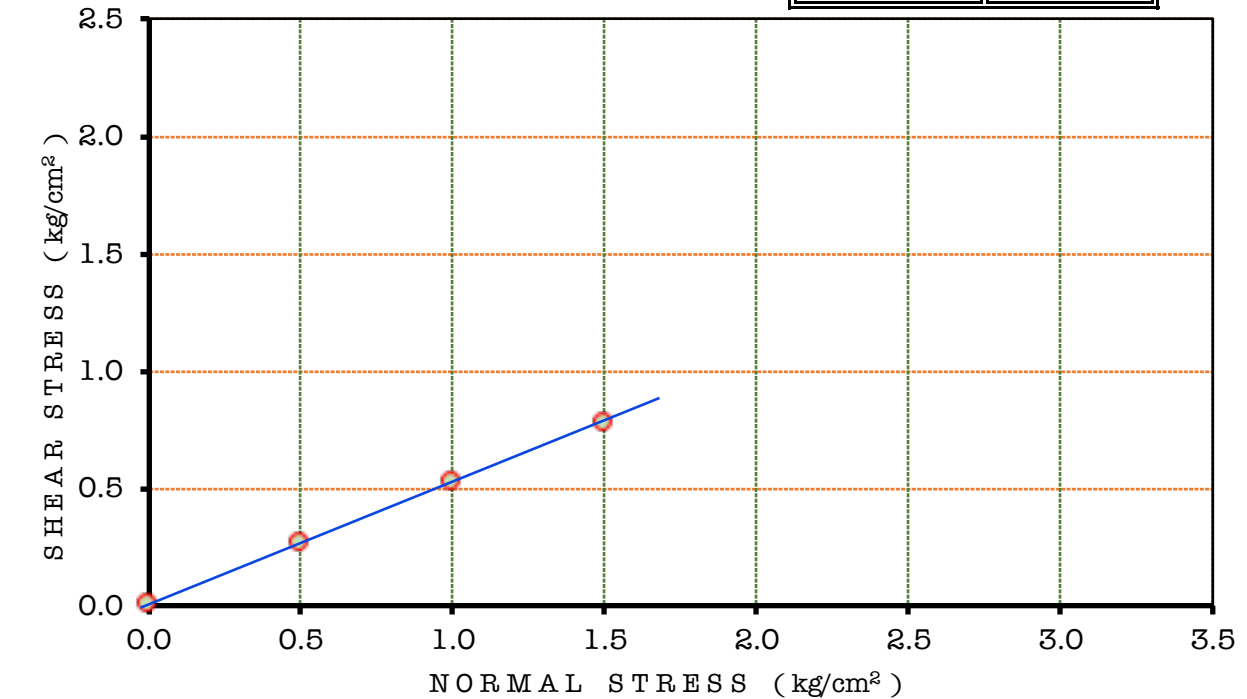
Depth of Sample ,m		39.00	
Cohesion	Kg/cm ²	0.00	
Angle of Internal Friction (φ)	Degree	35.70	



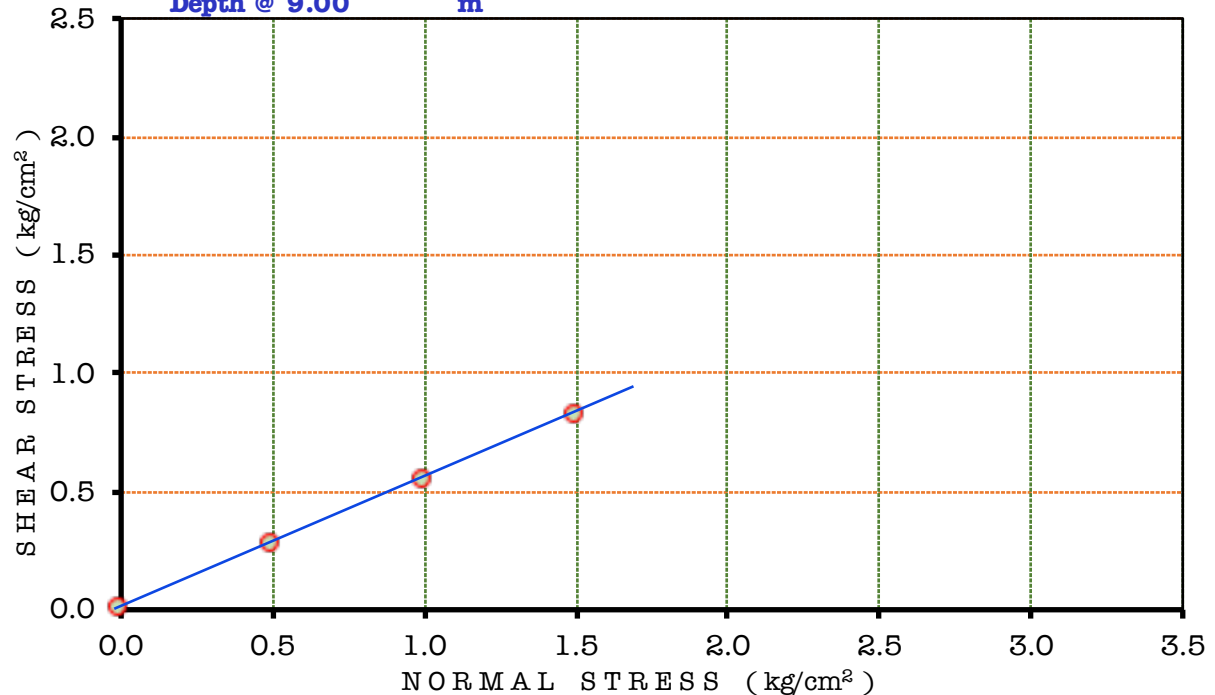
Depth @ 6.00 m

BH.NO

4



Depth @ 9.00 m



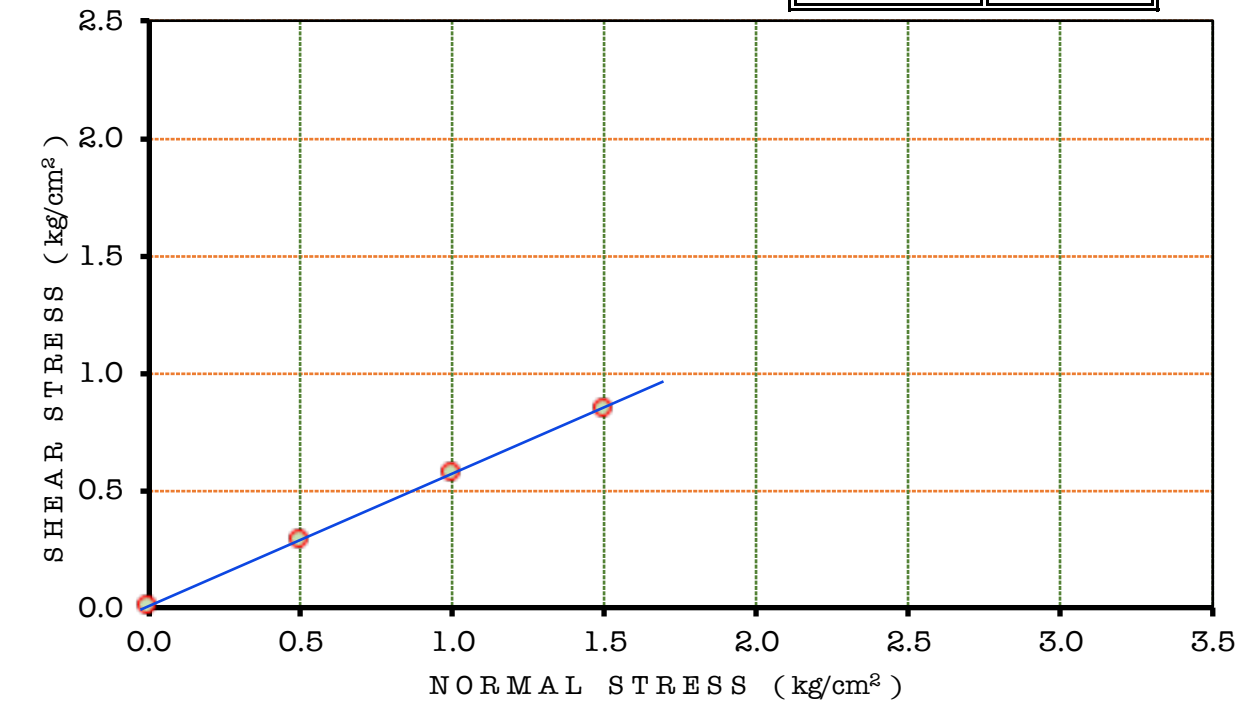
Depth of Sample ,m		6.00	9.00
Cohesion	Kg/cm ²	0.02	0.00
Angle of Internal Friction (φ)	Degree	27.40	28.60



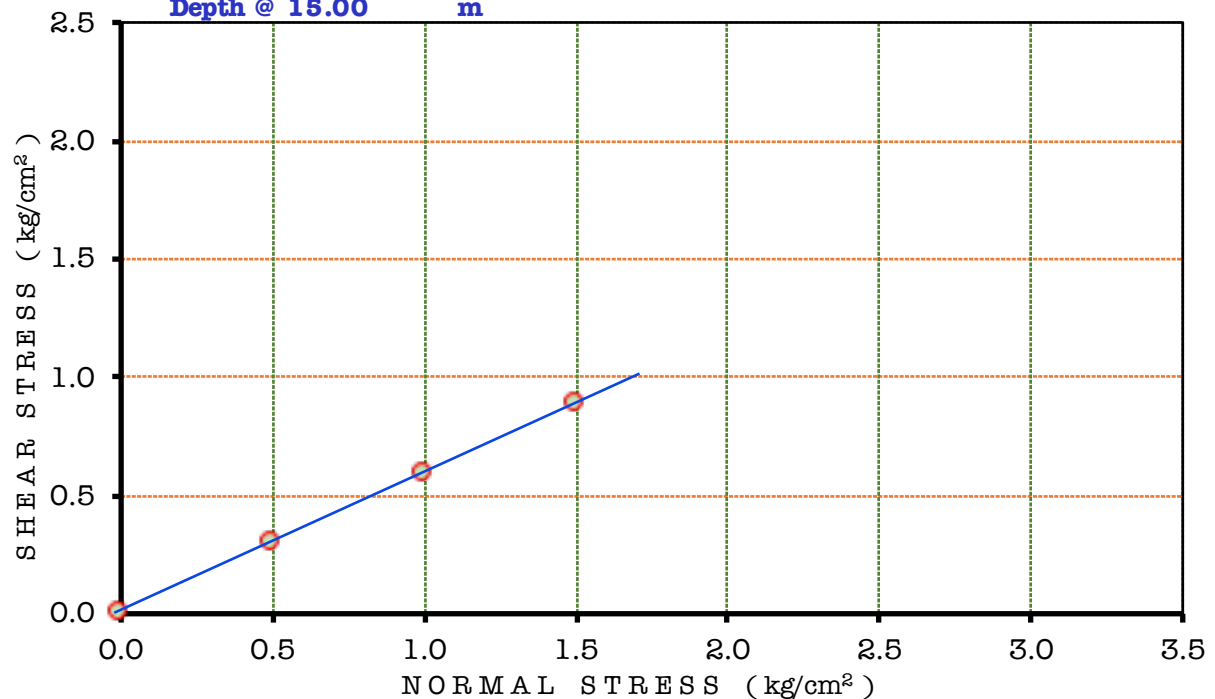
Depth @ 12.00 m

BH.NO

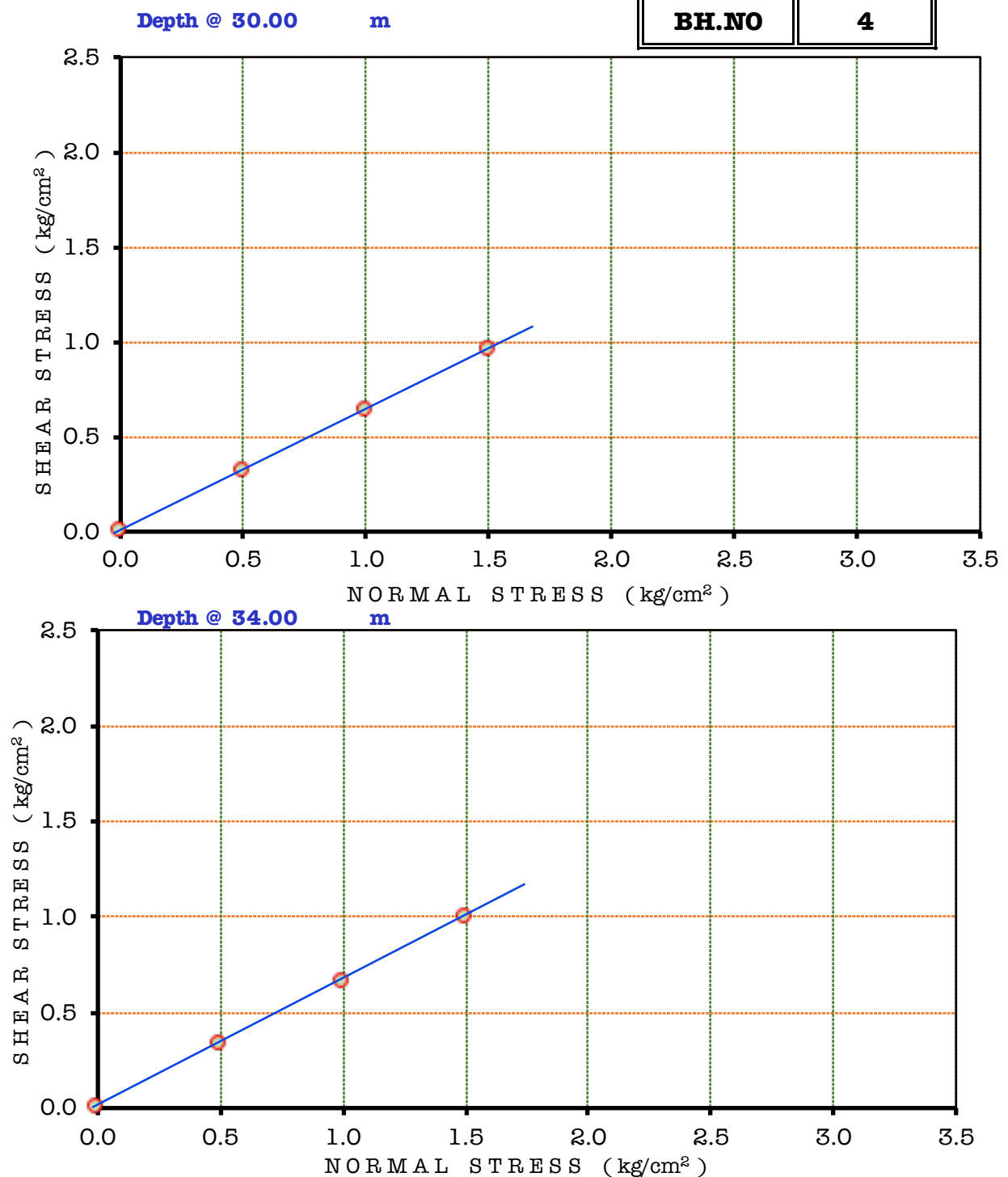
4



Depth @ 15.00 m



Depth of Sample ,m		12.00	15.00
Cohesion	Kg/cm ²	0.00	0.00
Angle of Internal Friction (φ)	Degree	29.40	30.40



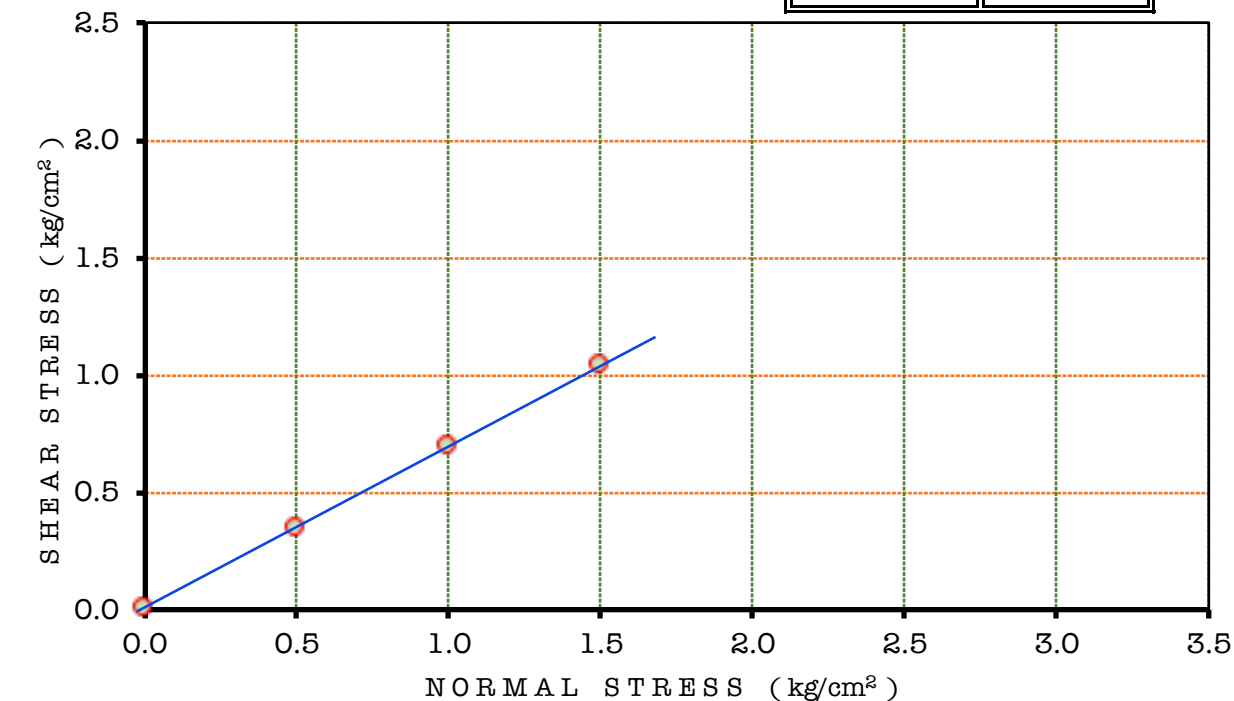
Depth of Sample ,m		30.00	34.00
Cohesion	Kg/cm ²	0.00	0.00
Angle of Internal Friction (ϕ)	Degree	32.50	33.50



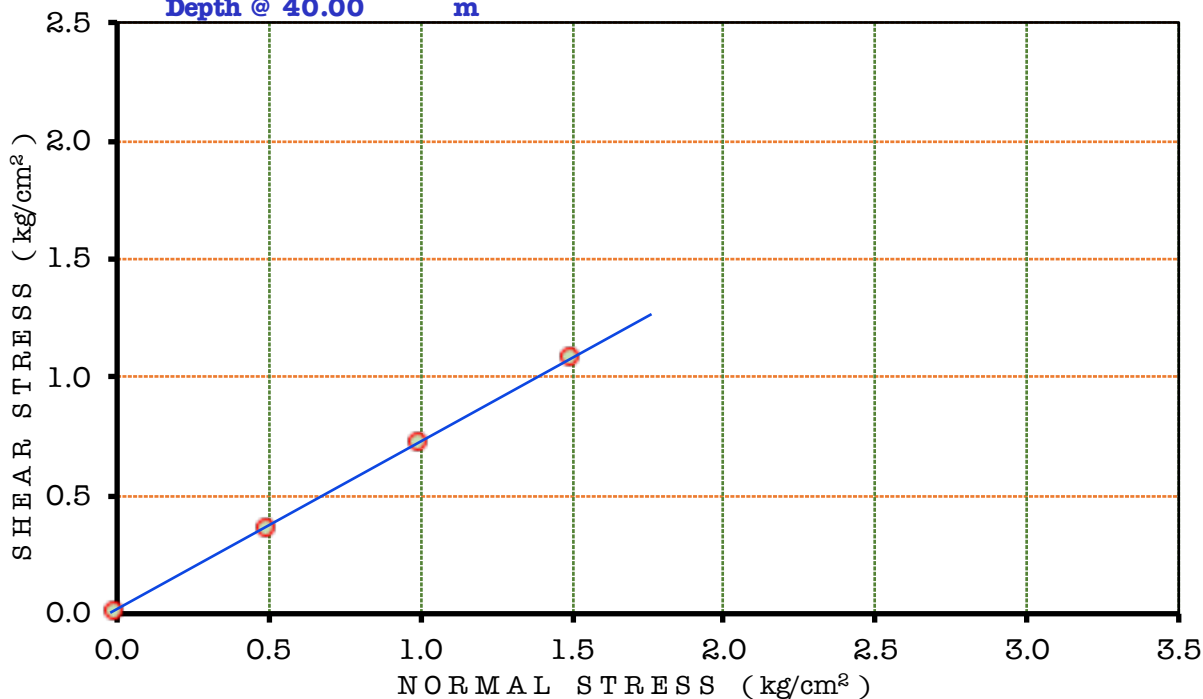
Depth @ **37.00** m

BH.NO

4



Depth @ **40.00** m



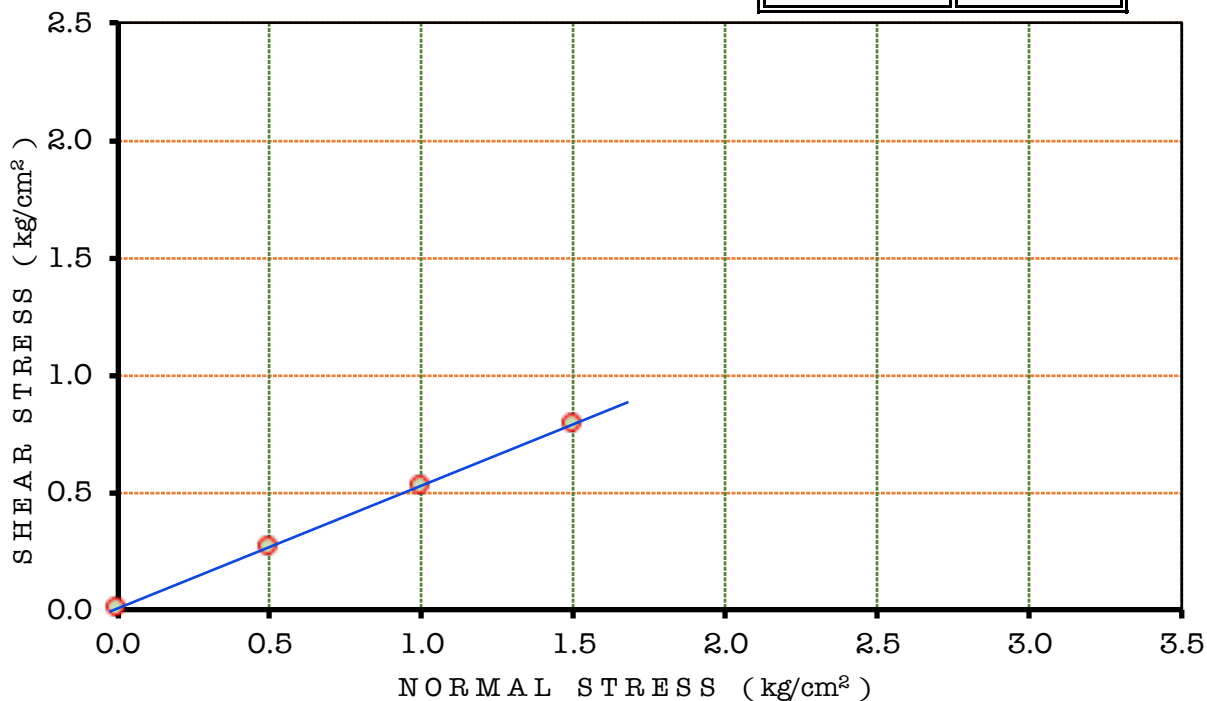
Depth of Sample ,m		37.00	40.00
Cohesion	Kg/cm ²	0.00	0.00
Angle of Internal Friction (φ)	Degree	34.60	35.50



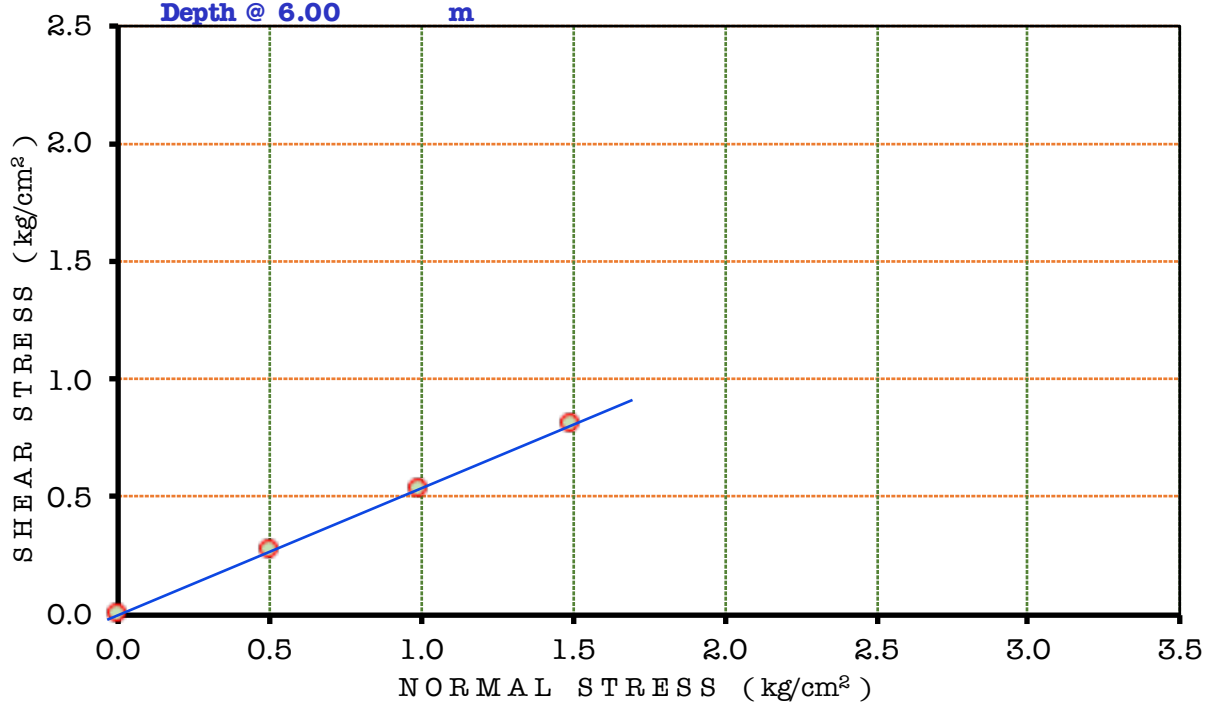
Depth @ 3.00 m

BH.NO

5



Depth @ 6.00 m



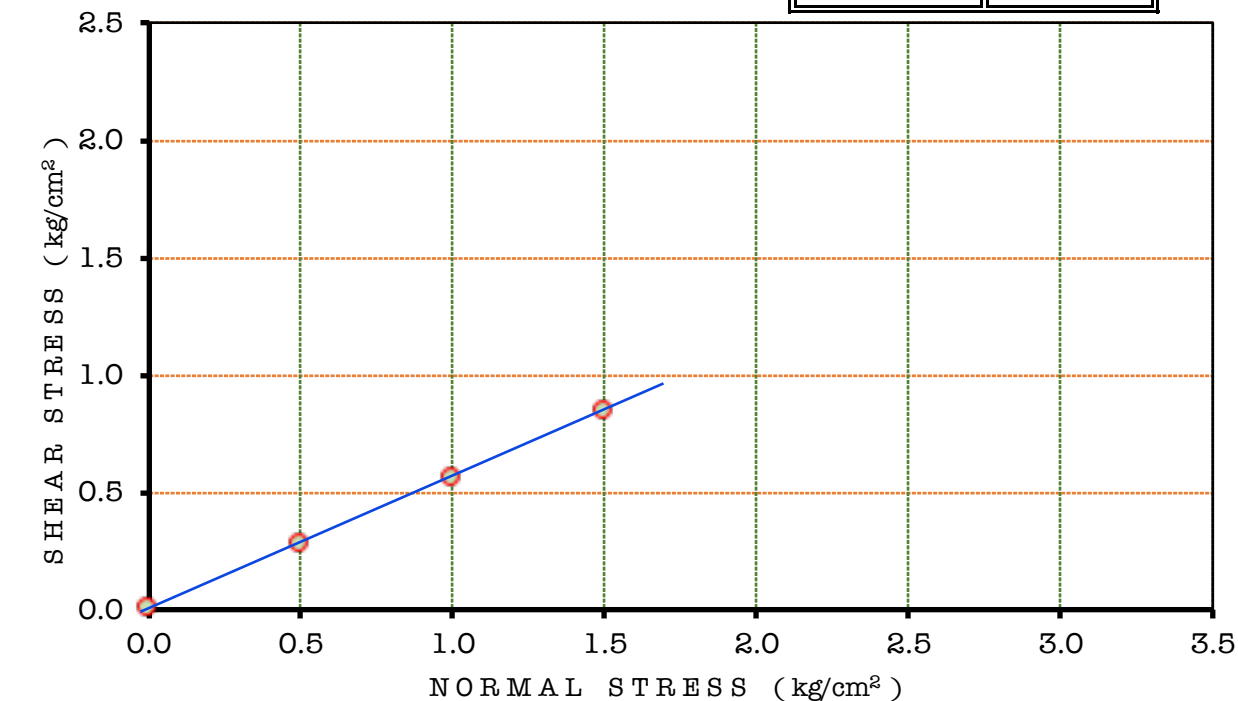
Depth of Sample ,m		3.00	6.00
Cohesion	Kg/cm ²	0.02	0.00
Angle of Internal Friction (φ)	Degree	27.60	28.20



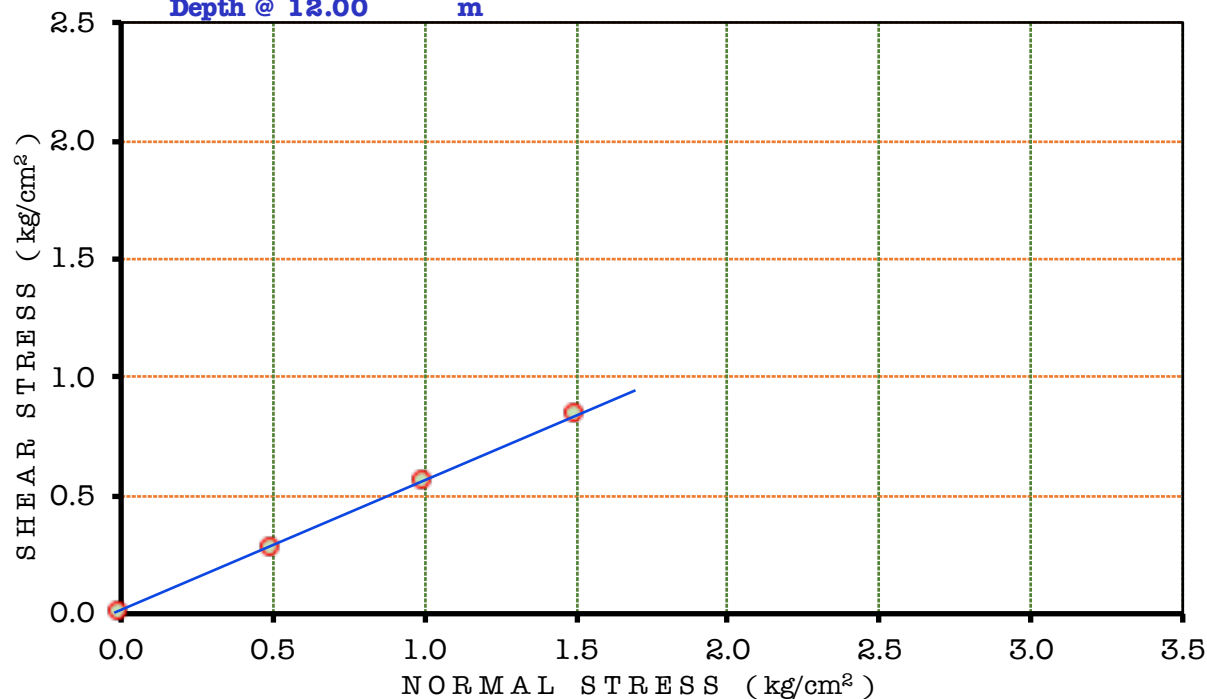
Depth @ 9.00 m

BH.NO

5



Depth @ 12.00 m



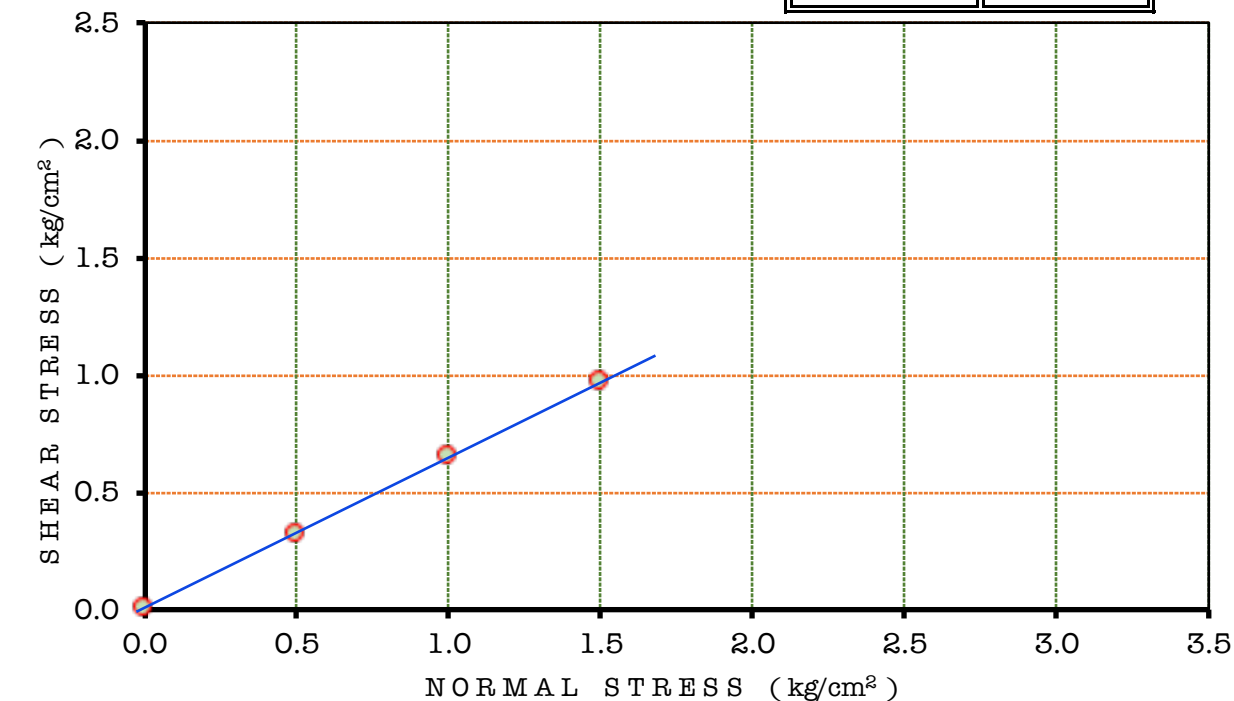
Depth of Sample ,m		9.00	12.00
Cohesion	Kg/cm ²	0.00	0.00
Angle of Internal Friction (φ)	Degree	29.20	29.30



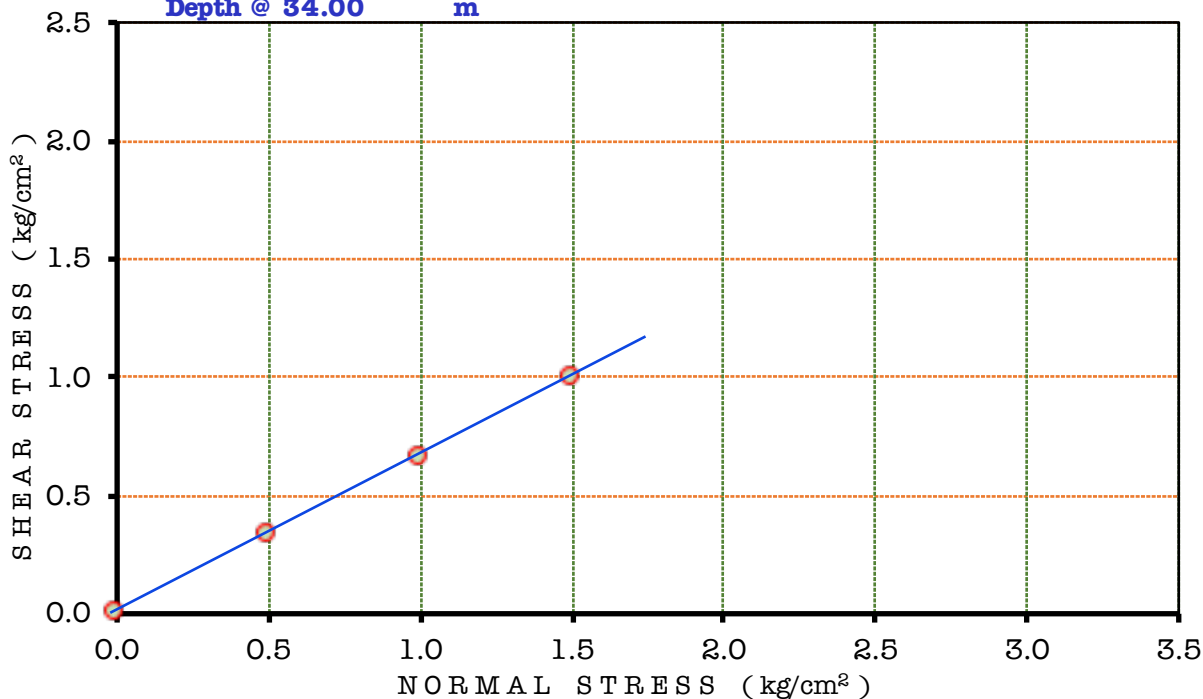
Depth @ 30.00 m

BH.NO

5



Depth @ 34.00 m



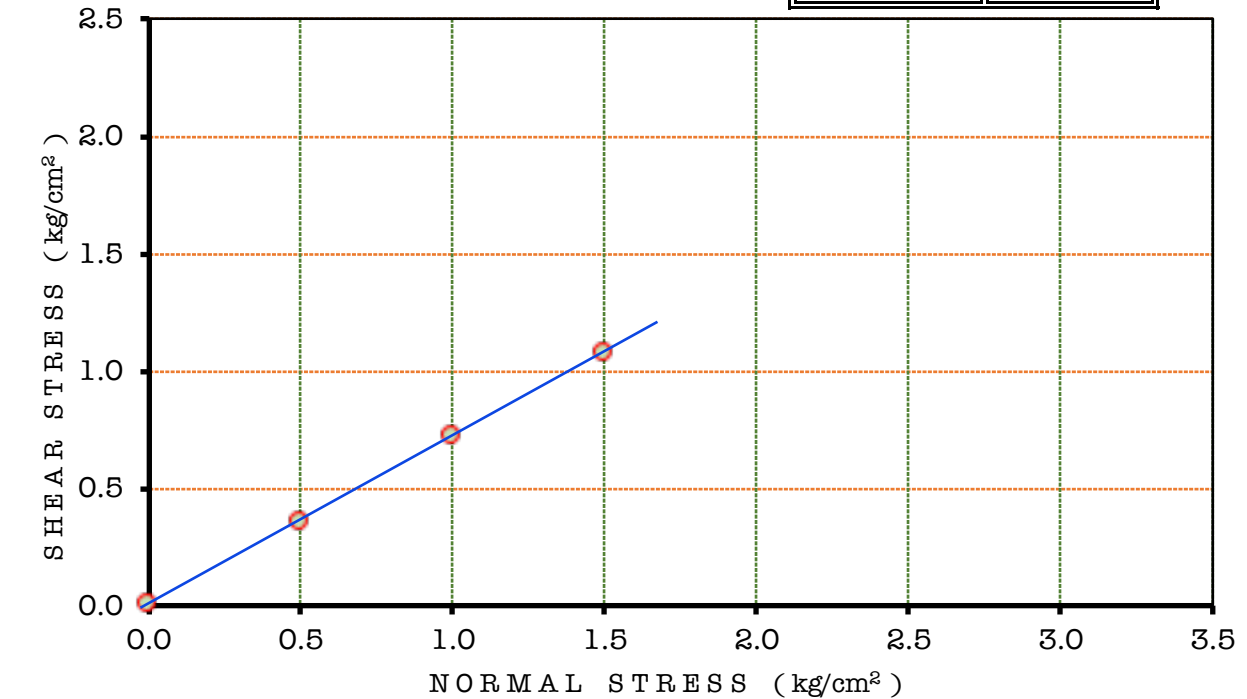
Depth of Sample ,m		30.00	34.00
Cohesion	Kg/cm ²	0.00	0.00
Angle of Internal Friction (φ)	Degree	32.80	33.50



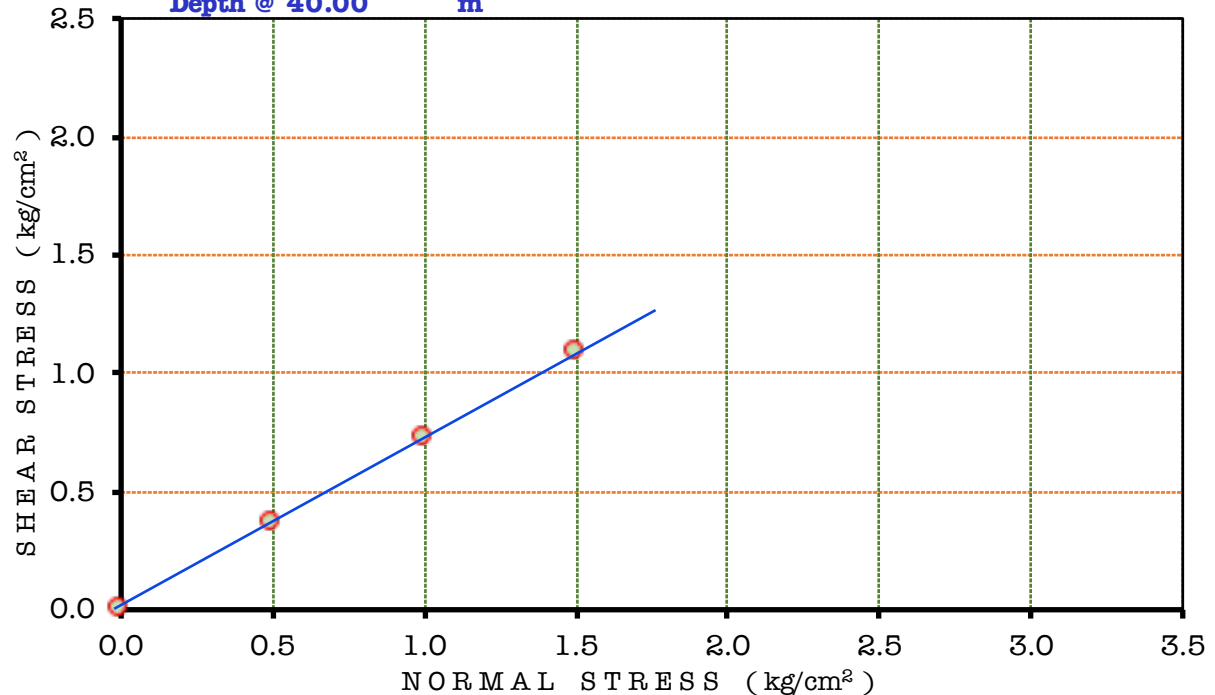
Depth @ **37.00** m

BH.NO

5



Depth @ **40.00** m



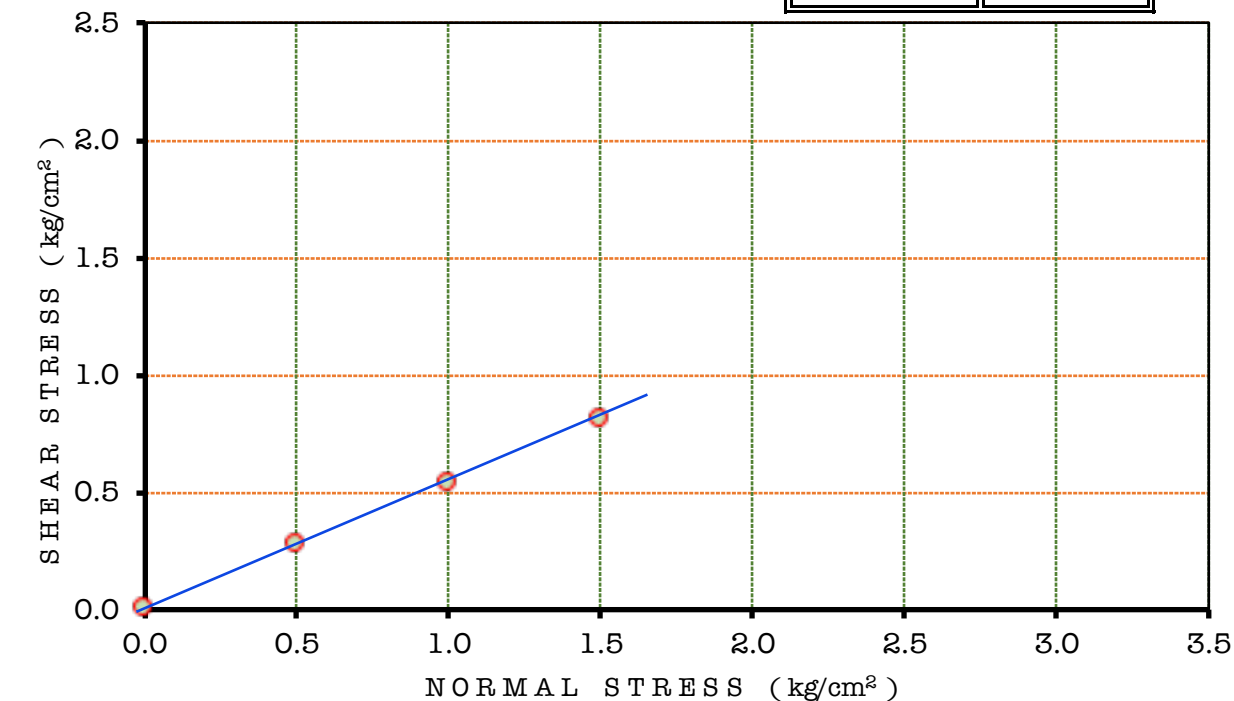
Depth of Sample ,m		37.00	40.00
Cohesion	Kg/cm ²	0.00	0.00
Angle of Internal Friction (φ)	Degree	35.50	35.80



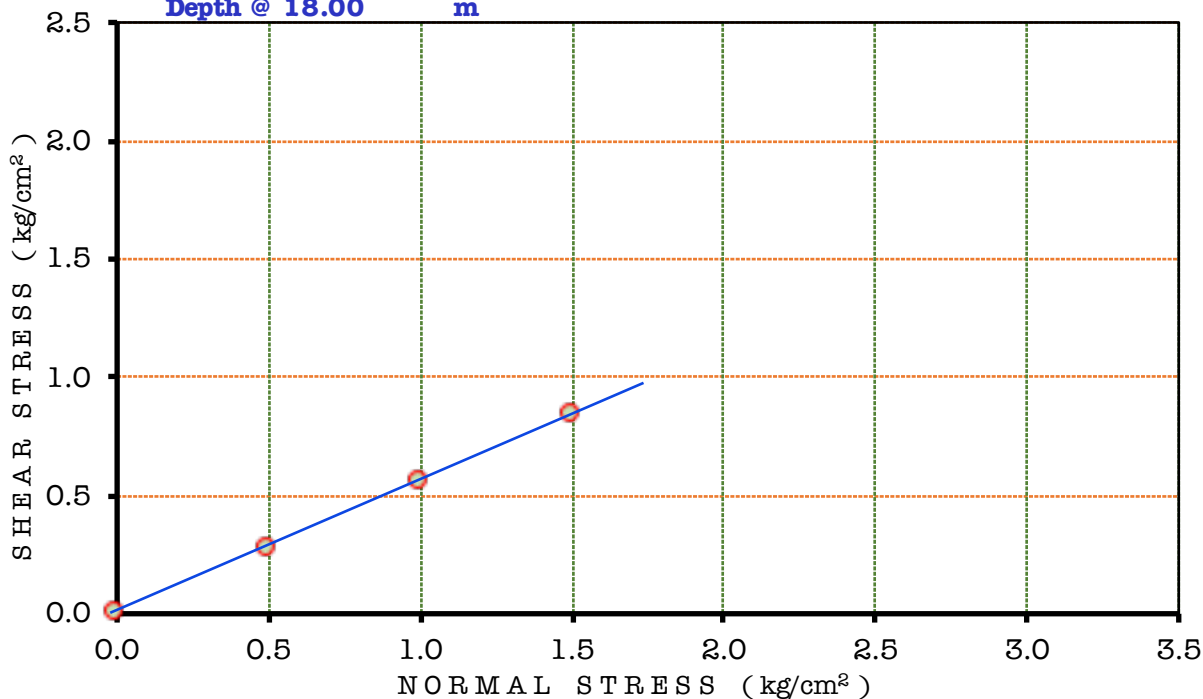
Depth @ 15.00 m

BH.NO

6



Depth @ 18.00 m



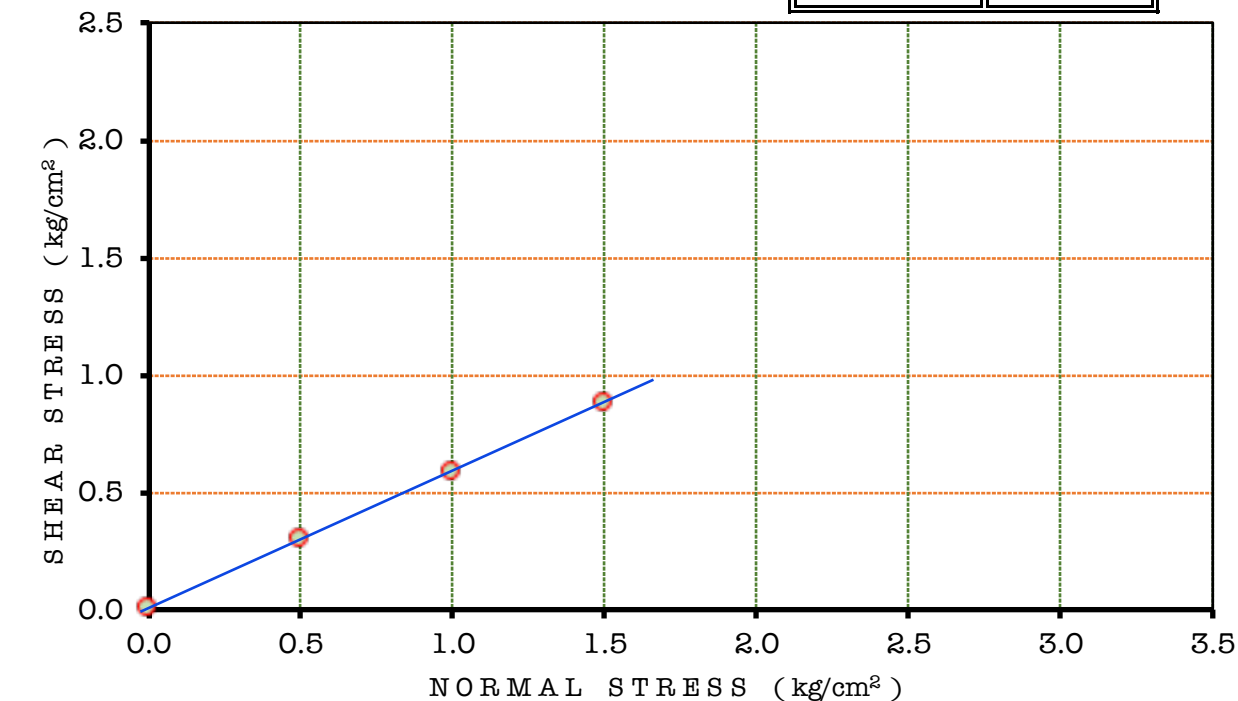
Depth of Sample ,m		15.00	18.00
Cohesion	Kg/cm ²	0.00	0.00
Angle of Internal Friction (φ)	Degree	28.30	29.20



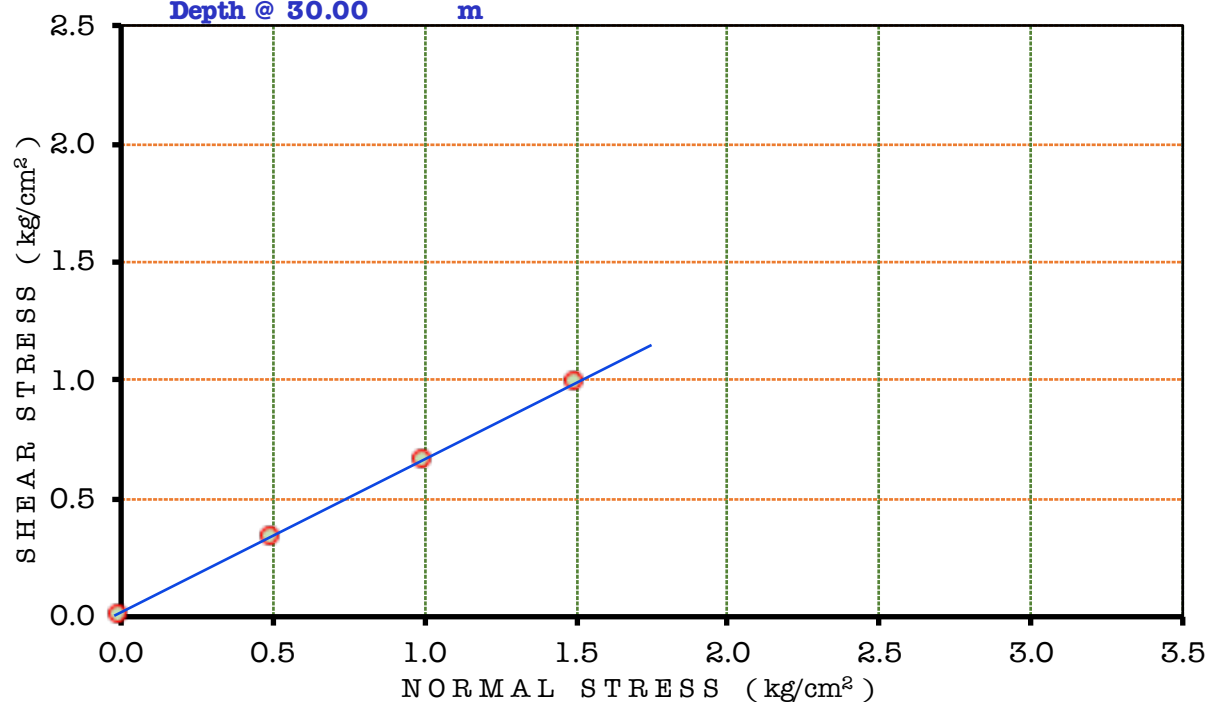
Depth @ 21.00 m

BH.NO

6



Depth @ 30.00 m



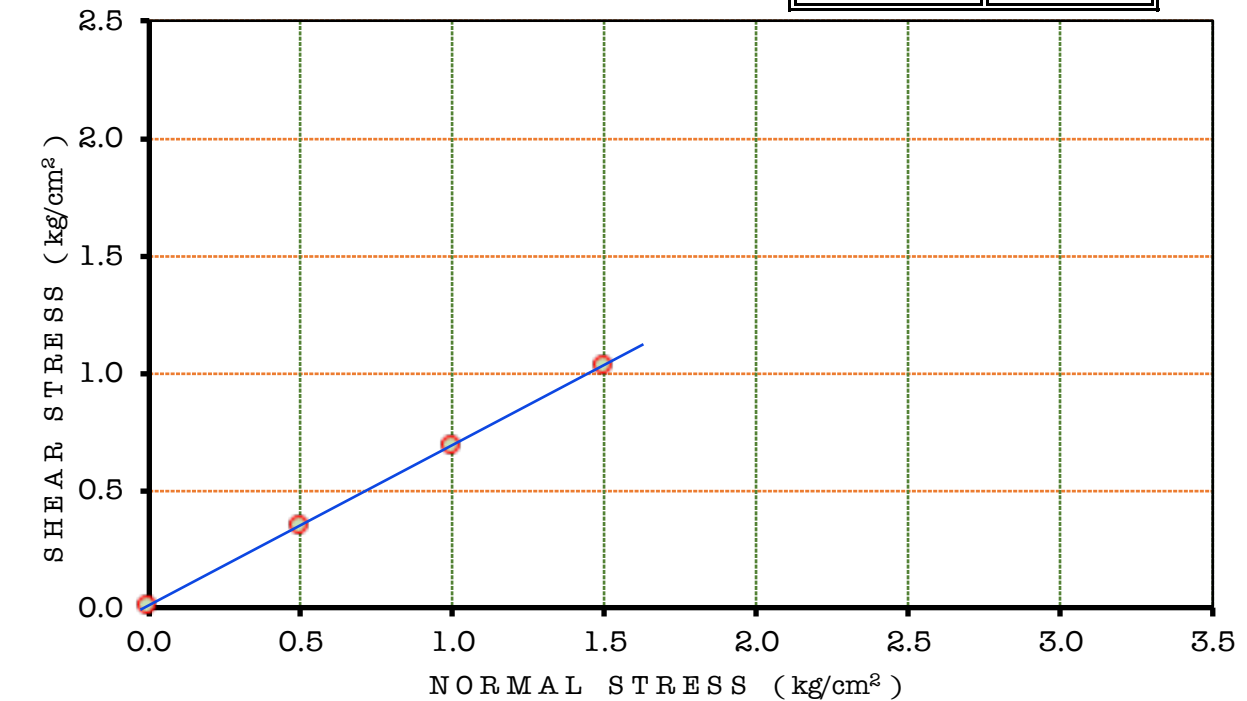
Depth of Sample ,m		21.00	30.00
Cohesion	Kg/cm ²	0.00	0.00
Angle of Internal Friction (φ)	Degree	30.20	33.30



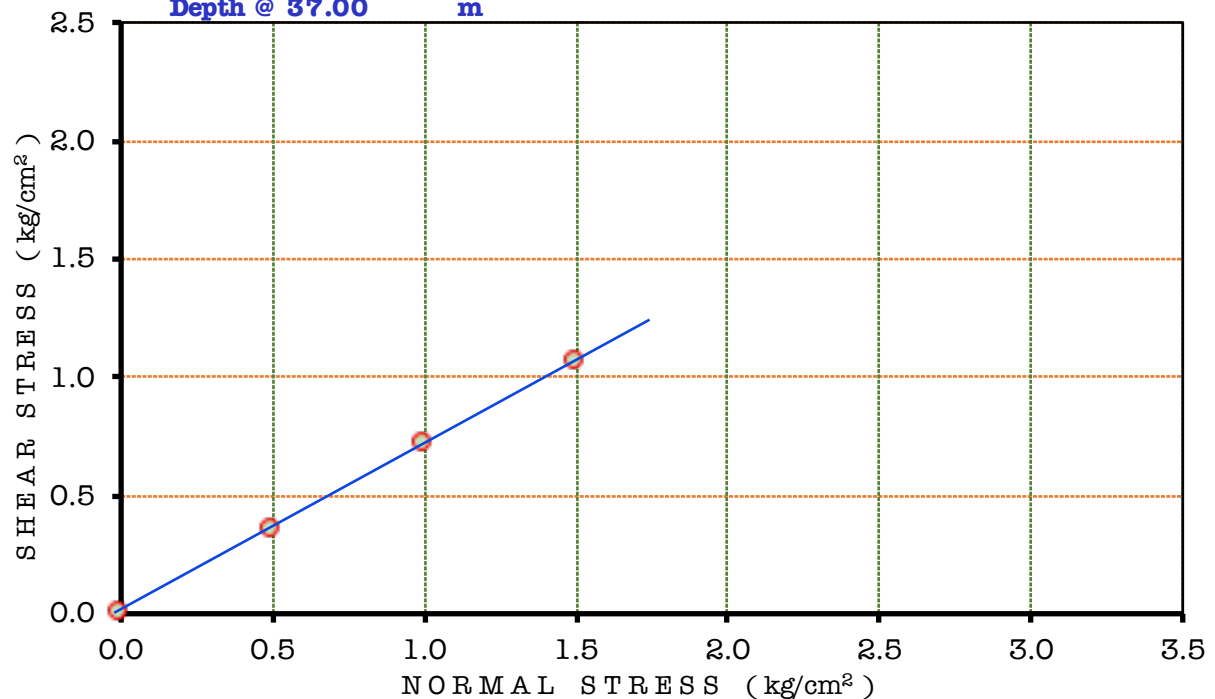
Depth @ **34.00** m

BH.NO

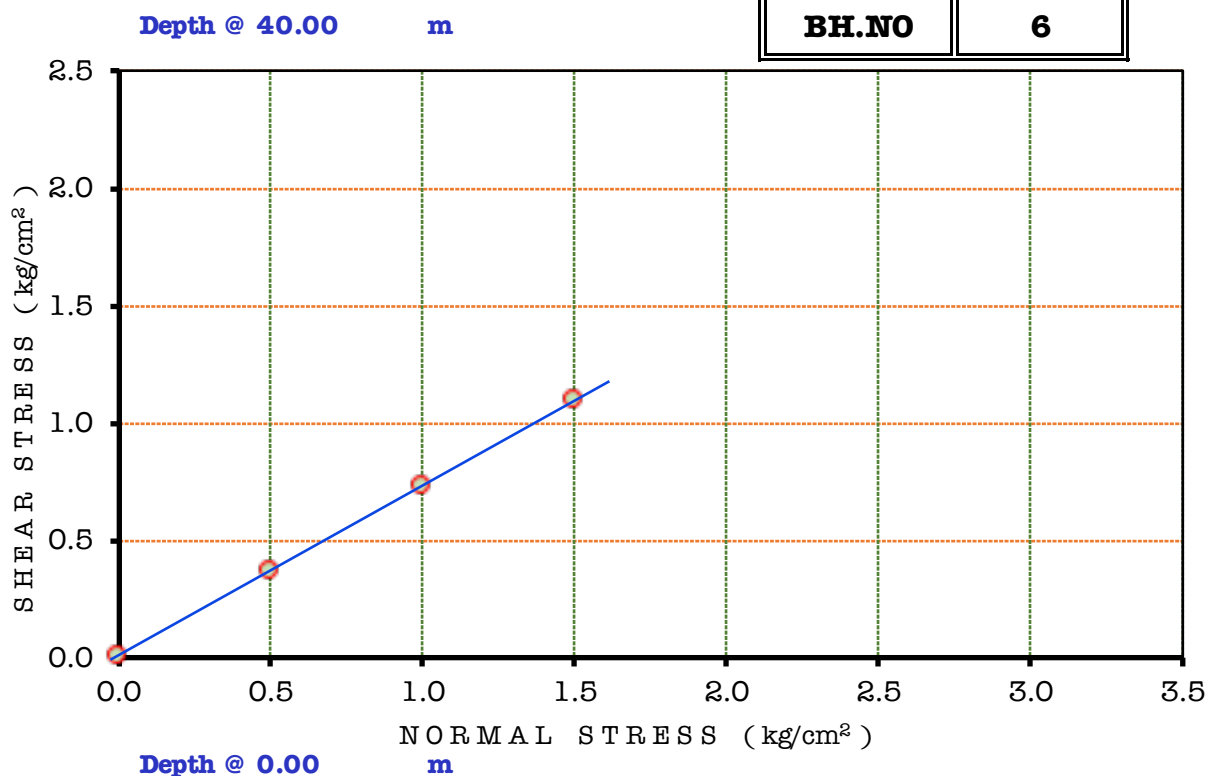
6



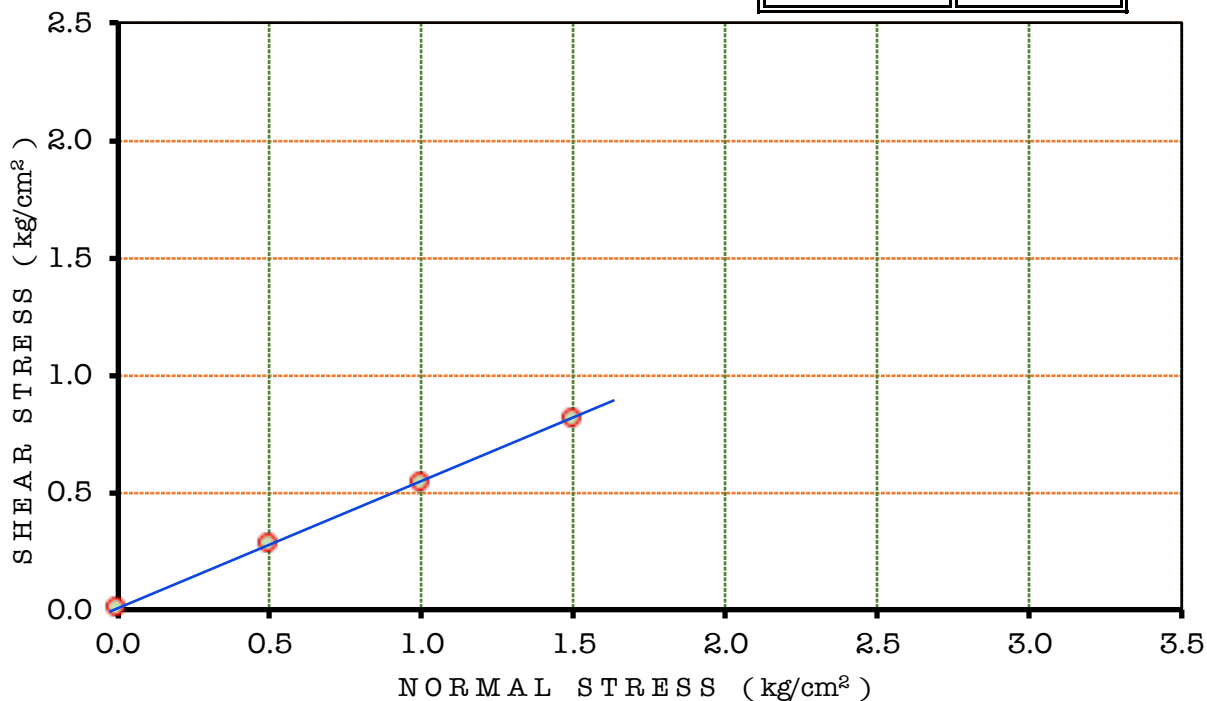
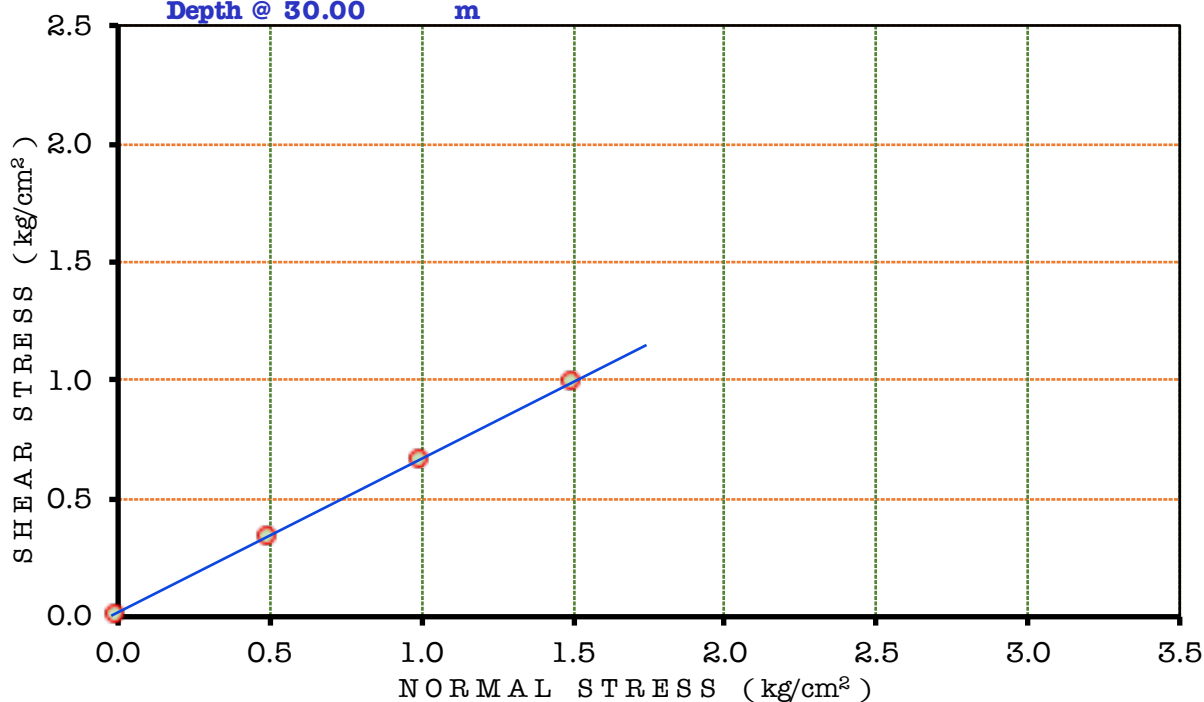
Depth @ **37.00** m



Depth of Sample ,m		34.00	37.00
Cohesion	Kg/cm ²	0.00	0.00
Angle of Internal Friction (φ)	Degree	34.20	35.40



Depth of Sample ,m		40.00	
Cohesion	Kg/cm ²	0.00	
Angle of Internal Friction (φ)	Degree	36.00	

**MEDINI****GEO ENGINEERING SERVICES****DIRECT SHEAR GRAPHS****Depth @ 7.50 m****BH.NO****7****Depth @ 30.00 m**

Depth of Sample ,m		7.50	30.00
Cohesion	Kg/cm ²	0.00	0.00
Angle of Internal Friction (φ)	Degree	28.30	33.20