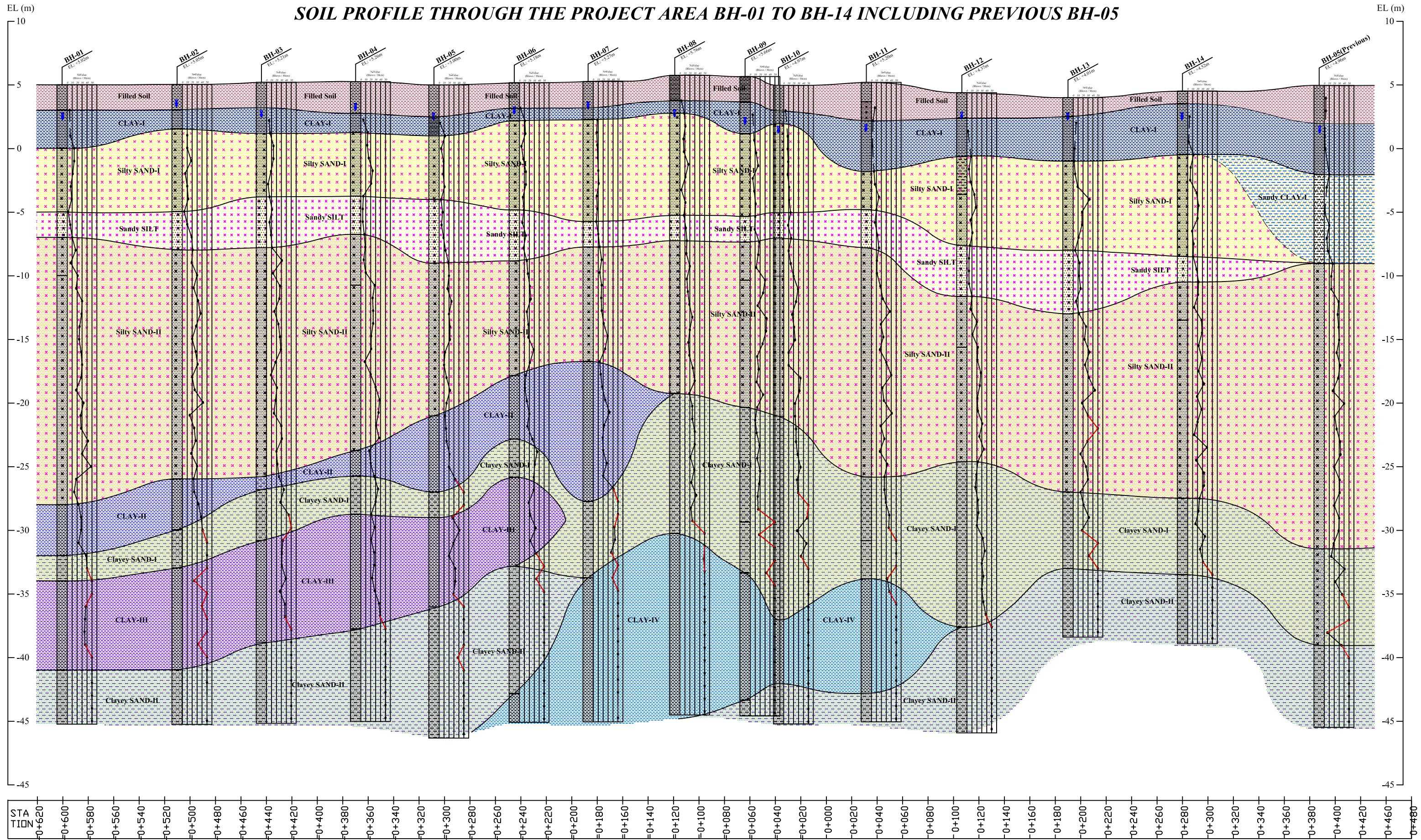


40UQK'RTQHNG

SOIL PROFILE THROUGH THE PROJECT AREA BH-01 TO BH-14 INCLUDING PREVIOUS BH-05



50 LABORATORY TEST RESULTS

SUMMARY OF SOIL TEST RESULTS

Project Name : Geological Survey on the supplement survey for Bago River Bridge Construction Project							
Borehole No. BH-01		Location : Thanlyin Chin Kat Road, Thaketa Township					
Sample No.		A-1	T-1	P-5	P-6	P-8	
Depth (m)		1.00 ~ 1.50	3.00 ~ 3.65	7.00 ~ 7.45	8.00 ~ 8.45	10.00 ~ 10.45	
Moisture Content		w %	22.49	32.86	26.48	32.47	35.18
Bulk Density		ρ_t g/cm ³	- -	1.887 1.866	- -	- -	- -
Atterberg's Limit	Liquid Limit	WL %	36.65	36.25	-	25.90	30.00
	Plastic Limit	WP %	18.92	24.98	-	18.33	20.61
	Plasticity Index	IP	17.73	11.27	-	7.57	9.39
Grain Size Analysis	Gravel, (76.20 ~ 4.75) mm	%	-	-	-	-	-
	Sand, (4.75 ~ 0.075) mm	%	11.20	0.80	88.13	51.43	26.76
	Silt, (0.075 ~ 0.005) mm	%	69.80	85.50	5.87	36.67	58.24
	Clay, (< 0.005 mm)	%	19.00	13.70	6.00	11.90	15.00
Specific Gravity of Soil		G _s (20°C)	2.652	2.683	2.692	2.681	2.690
Unconfined Compression	Unconfined Compressive Strength	q _u kN/m ²	- -	75.6 68.4	- -	- -	- -
		Failure Strain	ϵ_f %	- -	2.84 3.70	- -	- -
	E ₅₀	kN/m ²	- -	2572.1 2165.3	- -	- -	- -
			Sensitivity Ratio	-	1.656	-	-
	Direct Shear Test	Cohesion	C _{UU} kN/m ²	-	-	-	-
Phi Angle		ϕ_{UU} Degree	-	-	-	-	-
Unconsolidated Undrained Triaxial Compression Test	Cohesion	C _{UU} kN/m ²	-	-	-	-	-
	Phi Angle	ϕ_{UU} Degree	-	-	-	-	-
Consolidated Undrained Triaxial Compression Test (Measurement of Pore Pressure)	Cohesion	C' kN/m ²	-	-	-	-	-
	Phi Angle	ϕ' Degree	-	-	-	-	-
	Cohesion	C kN/m ²	-	-	-	-	-
	Phi Angle	ϕ Degree	-	-	-	-	-
Consolidation	Initial Void Ratio	e ₀	-	0.870	-	-	-
	Conso. Yield Stress	P _y kN/m ²	-	317.4	-	-	-
	Compression Index	C _c	-	0.240	-	-	-
Soil Classification (ASTM D 2487 - 06)	Group Symbol	CL	ML	SP-SM (or) SP-SC	SC	CL	
	Group Name	Lean clay	Silt	Poorly graded sand with silt (or) Poorly graded sand with clay (or silty clay)	Clayey sand	Lean clay with sand	
NOTE							
Data used for reference are shown by red color.							

SUMMARY OF SOIL TEST RESULTS

Project Name : Geological Survey on the supplement survey for Bago River Bridge Construction Project

Borehole No. BH-01 Location : Thanlyin Chin Kat Road, Thaketa Township

Sample No.		P-9	P-12	P-13	P-14	P-15
Depth (m)		11.00 ~ 11.45	14.00 ~ 14.45	15.00 ~ 15.45	16.00 ~ 16.45	17.00 ~ 17.45
Moisture Content w %		37.90	27.72	26.39	21.37	19.96
Bulk Density ρ_t g/cm ³		-	-	-	-	-
Atterberg's Limit	Liquid Limit WL %	27.73	-	-	-	-
	Plastic Limit WP %	24.62	-	-	-	-
	Plasticity Index IP	3.11	-	-	-	-
Grain Size Analysis	Gravel, (76.20 ~ 4.75) mm %	-	0.63	-	0.98	-
	Sand, (4.75 ~ 0.075) mm %	26.32	65.64	89.97	87.86	91.25
	Silt, (0.075 ~ 0.005) mm %	58.98	24.53	3.83	8.36	5.05
	Clay, (< 0.005 mm) %	14.70	9.20	6.20	2.80	3.70
Specific Gravity of Soil G _s (20°C)		2.677	2.652	2.679	2.662	2.660
Unconfined Compression	Unconfined Compressive Strength q _u kN/m ²	-	-	-	-	-
	Failure Strain ϵ_f %	-	-	-	-	-
	E ₅₀ kN/m ²	-	-	-	-	-
	Sensitivity Ratio	-	-	-	-	-
Direct Shear Test	Cohesion C _{UU} kN/m ²	-	-	-	-	-
	Phi Angle ϕ_{UU} Degree	-	-	-	-	-
Unconsolidated Undrained Triaxial Compression Test	Cohesion C _{UU} kN/m ²	-	-	-	-	-
	Phi Angle ϕ_{UU} Degree	-	-	-	-	-
Consolidated Undrained Triaxial Compression Test (Measurement of Pore Pressure)	Cohesion C' kN/m ²	-	-	-	-	-
	Phi Angle ϕ' Degree	-	-	-	-	-
	Cohesion C kN/m ²	-	-	-	-	-
	Phi Angle ϕ Degree	-	-	-	-	-
Consolidation	Initial Void Ratio e ₀	-	-	-	-	-
	Conso. Yield Stress P _y kN/m ²	-	-	-	-	-
	Compression Index C _c	-	-	-	-	-
Soil Classification (ASTM D 2487 - 06)	Group Symbol	ML	SM (or) SC	SP-SM (or) SP-SC	SP-SM (or) SP-SC	SP-SM (or) SP-SC
	Group Name	Silt with sand	Silty sand (or) Clayey sand	Poorly graded sand with silt (or) Poorly graded sand with clay (or silty clay)	Poorly graded sand with silt (or) Poorly graded sand with clay (or silty clay)	Poorly graded sand with silt (or) Poorly graded sand with clay (or silty clay)

NOTE

Data used for reference are shown by red color.

SUMMARY OF SOIL TEST RESULTS

Project Name : Geological Survey on the supplement survey for Bago River Bridge Construction Project

Borehole No. BH-01

Location : Thanlyin Chin Kat Road, Thaketa Township

Sample No.		P-18	P-27	P-33	P-37	P-44
Depth (m)		20.00 ~ 20.45	29.00 ~ 29.45	35.00 ~ 35.45	39.00 ~ 39.42	46.00 ~ 46.30
Moisture Content	w %	27.37	19.95	30.80	31.13	26.36
Bulk Density	ρ_t g/cm ³	-	-	-	-	-
Atterberg's Limit	Liquid Limit WL %	-	-	42.30	28.28	25.20
	Plastic Limit WP %	-	-	32.38	21.39	19.93
	Plasticity Index IP	-	-	9.92	6.89	5.27
Grain Size Analysis	Gravel, (76.20 ~ 4.75) mm %	1.11	-	-	-	-
	Sand, (4.75 ~ 0.075) mm %	69.13	89.80	28.24	35.02	65.48
	Silt, (0.075 ~ 0.005) mm %	14.55	4.00	65.76	62.28	30.82
	Clay, (< 0.005 mm) %	15.20	6.20	6.00	2.70	3.70
Specific Gravity of Soil	G _s (20°C)	2.688	2.666	2.685	2.712	2.662
Unconfined Compression	Unconfined Compressive Strength q_u kN/m ²	-	-	-	-	-
	Failure Strain ϵ_f %	-	-	-	-	-
	E ₅₀ kN/m ²	-	-	-	-	-
	Sensitivity Ratio	-	-	-	-	-
Direct Shear Test	Cohesion C _{UU} kN/m ²	-	-	-	-	-
	Phi Angle ϕ_{UU} Degree	-	-	-	-	-
Unconsolidated Undrained Triaxial Compression Test	Cohesion C _{UU} kN/m ²	-	-	-	-	-
	Phi Angle ϕ_{UU} Degree	-	-	-	-	-
Consolidated Undrained Triaxial Compression Test (Measurement of Pore Pressure)	Cohesion C' kN/m ²	-	-	-	-	-
	Phi Angle ϕ' Degree	-	-	-	-	-
	Cohesion C kN/m ²	-	-	-	-	-
	Phi Angle ϕ Degree	-	-	-	-	-
Consolidation	Initial Void Ratio e_0	-	-	-	-	-
	Conso. Yield Stress P _y kN/m ²	-	-	-	-	-
	Compression Index C _c	-	-	-	-	-
Soil Classification (ASTM D 2487 - 06)	Group Symbol	SM (or) SC	SW-SM (or) SW-SC	ML	CL- ML	SC - SM
	Group Name	Silty sand (or) Clayey sand	Well-graded sand with silt (or) Well-graded sand with clay (or silty clay)	Silt with sand	Sandy silty clay	Silty, clayey sand

NOTE

Data used for reference are shown by red color.



SUMMARY OF SOIL TEST RESULTS

Project Name : Geological Survey on the supplement survey for Bago River Bridge Construction Project

Borehole No. BH-01

Location : Thanlyin Chin Kat Road, Thaketa Township

Sample No.		P-47				
Depth (m)		49.00 ~ 49.22	~	~	~	~
Moisture Content		w %	21.05			
Bulk Density		ρ_t g/cm ³	-			
Atterberg's Limit	Liquid Limit	WL %	-			
	Plastic Limit	WP %	-			
	Plasticity Index	IP	-			
Grain Size Analysis	Gravel, (76.20 ~ 4.75) mm	%	-			
	Sand, (4.75 ~ 0.075) mm	%	89.87			
	Silt, (0.075 ~ 0.005) mm	%	7.43			
	Clay, (< 0.005 mm)	%	2.70			
Specific Gravity of Soil		G _s (20°C)	2.641			
Unconfined Compression	Unconfined Compressive Strength	q _u kN/m ²	-			
	Failure Strain	ϵ_f %	-			
	E ₅₀	kN/m ²	-			
	Sensitivity Ratio		-			
Direct Shear Test	Cohesion	C _{UU} kN/m ²	-			
	Phi Angle	ϕ_{UU} Degree	-			
Unconsolidated Undrained Triaxial Compression Test	Cohesion	C _{UU} kN/m ²	-			
	Phi Angle	ϕ_{UU} Degree	-			
Consolidated Undrained Triaxial Compression Test (Measurement of Pore Pressure)	Cohesion	C' kN/m ²	-			
	Phi Angle	ϕ' Degree	-			
	Cohesion	C kN/m ²	-			
	Phi Angle	ϕ Degree	-			
Consolidation	Initial Void Ratio	e ₀	-			
	Conso. Yield Stress	P _y kN/m ²	-			
	Compression Index	C _c	-			
Soil Classification (ASTM D 2487 - 06)	Group Symbol	SP-SM (or) SP-SC				
	Group Name	Poorly graded sand with silt (or) Poorly graded sand with clay (or silty clay)				

NOTE

Data used for reference are shown by red color.

SUMMARY OF SOIL TEST RESULTS

Project Name : Geological Survey on the supplement survey for Bago River Bridge Construction Project

Borehole No. BH-02		Location : Thanlyin Chin Kat Road, Thaketa Township						
Sample No.		A-2	P-2	P-4	P-6	P-7		
Depth (m)		2.00 ~ 2.50	5.00 ~ 5.45	7.00 ~ 7.45	9.00 ~ 9.45	10.00 ~ 10.45		
Moisture Content		w	%	31.30	26.10	28.19	29.63	35.32
Bulk Density		ρ_t	g/cm ³	-	-	-	-	-
Atterberg's Limit	Liquid Limit	WL	%	29.60	-	20.44	27.13	30.15
	Plastic Limit	WP	%	17.22	-	17.23	21.90	22.01
	Plasticity Index	IP		12.38	-	3.21	5.23	8.14
Grain Size Analysis	Gravel, (76.20 ~ 4.75) mm		%	-	-	-	-	-
	Sand, (4.75 ~ 0.075) mm		%	11.05	80.98	60.73	79.97	20.50
	Silt, (0.075 ~ 0.005) mm		%	68.85	16.02	34.27	18.03	64.40
	Clay, (< 0.005 mm)		%	20.10	3.00	5.00	2.00	15.10
Specific Gravity of Soil		G _s	(20°C)	2.647	2.687	2.691	2.667	2.661
Unconfined Compression	Unconfined Compressive Strength	q _u	kN/m ²	-	-	-	-	-
	Failure Strain	ϵ_f	%	-	-	-	-	-
	E ₅₀		kN/m ²	-	-	-	-	-
	Sensitivity Ratio			-	-	-	-	-
Direct Shear Test	Cohesion	C _{UU}	kN/m ²	-	-	-	-	-
	Phi Angle	ϕ_{UU}	Degree	-	-	-	-	-
Unconsolidated Undrained Triaxial Compression Test	Cohesion	C _{UU}	kN/m ²	-	-	-	-	-
	Phi Angle	ϕ_{UU}	Degree	-	-	-	-	-
Consolidated Undrained Triaxial Compression Test (Measurement of Pore Pressure)	Cohesion	C'	kN/m ²	-	-	-	-	-
	Phi Angle	ϕ'	Degree	-	-	-	-	-
	Cohesion	C	kN/m ²	-	-	-	-	-
	Phi Angle	ϕ	Degree	-	-	-	-	-
Consolidation	Initial Void Ratio	e ₀		-	-	-	-	-
	Conso. Yield Stress	P _y	kN/m ²	-	-	-	-	-
	Compression Index	C _c		-	-	-	-	-
Soil Classification (ASTM D 2487 - 06)		Group Symbol		CL	SM (or) SC	SM	SC-SM	CL
		Group Name		Lean clay	Silty sand (or) Clayey sand	Silty sand	Silty,Clayey sand	Lean clay with sand
NOTE								
Data used for reference are shown by red color.								

SUMMARY OF SOIL TEST RESULTS

Project Name : Geological Survey on the supplement survey for Bago River Bridge Construction Project

Borehole No. BH-02

Location : Thanlyin Chin Kat Road, Thaketa Township

Sample No.		P-9	P-10	P-13	P-16	P-23
Depth (m)		12.00 ~ 12.45	13.00 ~ 13.45	16.00 ~ 16.45	19.00 ~ 19.45	26.00 ~ 26.45
Moisture Content w %		31.07	23.35	24.31	19.72	27.71
Bulk Density ρ_t g/cm ³		-	-	-	-	-
Atterberg's Limit	Liquid Limit WL %	24.38	-	-	-	-
	Plastic Limit WP %	20.29	-	-	-	-
	Plasticity Index IP	4.09	-	-	-	-
Grain Size Analysis	Gravel, (76.20 ~ 4.75) mm %	-	2.78	-	0.40	-
	Sand, (4.75 ~ 0.075) mm %	48.05	76.46	80.12	91.13	88.05
	Silt, (0.075 ~ 0.005) mm %	48.05	11.46	15.18	2.77	5.95
	Clay, (< 0.005 mm) %	3.90	9.30	4.70	5.70	6.00
Specific Gravity of Soil G _s (20°C)		2.655	2.663	2.671	2.661	2.681
Unconfined Compression	Unconfined Compressive Strength q _u kN/m ²	-	-	-	-	-
	Failure Strain ϵ_f %	-	-	-	-	-
	E ₅₀ kN/m ²	-	-	-	-	-
	Sensitivity Ratio	-	-	-	-	-
Direct Shear Test	Cohesion C _{UU} kN/m ²	-	-	-	-	-
	Phi Angle ϕ_{UU} Degree	-	-	-	-	-
Unconsolidated Undrained Triaxial Compression Test	Cohesion C _{UU} kN/m ²	-	-	-	-	-
	Phi Angle ϕ_{UU} Degree	-	-	-	-	-
Consolidated Undrained Triaxial Compression Test (Measurement of Pore Pressure)	Cohesion C' kN/m ²	-	-	-	-	-
	Phi Angle ϕ' Degree	-	-	-	-	-
	Cohesion C kN/m ²	-	-	-	-	-
	Phi Angle ϕ Degree	-	-	-	-	-
Consolidation	Initial Void Ratio e ₀	-	-	-	-	-
	Conso. Yield Stress P _y kN/m ²	-	-	-	-	-
	Compression Index C _c	-	-	-	-	-
Soil Classification (ASTM D 2487 - 06)	Group Symbol	CL-ML	SM (or) SC	SM (or) SC	SP-SM (or) SP-SC	SP-SM (or) SP-SC
	Group Name	Sandy silty clay	Silty sand (or) Clayey sand	Silty sand (or) Clayey sand	Poorly graded sand with silt (or) Poorly graded sand with clay(or silty clay)	Poorly graded sand with silt (or) Poorly graded sand with clay(or silty clay)

NOTE

Data used for reference are shown by red color.

SUMMARY OF SOIL TEST RESULTS

Project Name : Geological Survey on the supplement survey for Bago River Bridge Construction Project

Borehole No. BH-02

Location : Thanlyin Chin Kat Road, Thaketa Township

Sample No.		P-28	P-31	P-38	P-44	
Depth (m)		31.00 ~ 31.45	34.00 ~ 34.45	41.00 ~ 41.45	47.00 ~ 47.35	~
Moisture Content w %		31.33	27.35	33.60	20.32	
Bulk Density ρ_t g/cm ³		-	-	-	-	
Atterberg's Limit	Liquid Limit WL %	35.51	25.39	50.35	-	
	Plastic Limit WP %	25.57	20.85	29.66	-	
	Plasticity Index IP	9.94	4.54	20.69	-	
Grain Size Analysis	Gravel, (76.20 ~ 4.75) mm %	-	-	-	1.80	
	Sand, (4.75 ~ 0.075) mm %	5.43	41.98	15.03	80.89	
	Silt, (0.075 ~ 0.005) mm %	86.58	51.22	77.28	10.61	
	Clay, (< 0.005 mm) %	8.00	6.80	7.70	6.70	
Specific Gravity of Soil G _s (20°C)		2.674	2.661	2.731	2.653	
Unconfined Compression	Unconfined Compressive Strength q _u kN/m ²	-	-	-	-	
	Failure Strain ϵ_f %	-	-	-	-	
	E ₅₀ kN/m ²	-	-	-	-	
	Sensitivity Ratio	-	-	-	-	
Direct Shear Test	Cohesion C _{UU} kN/m ²	-	-	-	-	
	Phi Angle ϕ_{UU} Degree	-	-	-	-	
Unconsolidated Undrained Triaxial Compression Test	Cohesion C _{UU} kN/m ²	-	-	-	-	
	Phi Angle ϕ_{UU} Degree	-	-	-	-	
Consolidated Undrained Triaxial Compression Test (Measurement of Pore Pressure)	Cohesion C' kN/m ²	-	-	-	-	
	Phi Angle ϕ' Degree	-	-	-	-	
	Cohesion C kN/m ²	-	-	-	-	
	Phi Angle ϕ Degree	-	-	-	-	
Consolidation	Initial Void Ratio e ₀	-	-	-	-	
	Conso. Yield Stress P _y kN/m ²	-	-	-	-	
	Compression Index C _c	-	-	-	-	
Soil Classification (ASTM D 2487 - 06)	Group Symbol	ML	CL-ML	MH	SM (or) SC	
	Group Name	Silt	Sandy silty clay	Elastic silt with sand	Silty sand (or) Clayey sand	

NOTE

Data used for reference are shown by red color.

SUMMARY OF SOIL TEST RESULTS

Project Name : Geological Survey on the supplement survey for Bago River Bridge Construction Project							
Borehole No. BH-03			Location : Thanlyin Chin Kat Road, Thaketa Township				
Sample No.			A-1	P-1	P-2	P-4	P-6
Depth (m)			1.00 ~ 1.50	3.00 ~ 3.45	4.00 ~ 4.45	6.00 ~ 6.45	8.00 ~ 8.45
Moisture Content w %			19.59	30.07	27.33	23.79	36.30
Bulk Density ρ_t g/cm ³			-	-	-	-	-
Atterberg's Limit	Liquid Limit WL %		33.60	35.31	-	-	-
	Plastic Limit WP %		18.16	23.95	-	-	-
	Plasticity Index IP		15.44	11.36	-	-	-
Grain Size Analysis	Gravel, (76.20 ~ 4.75) mm %		-	-	-	-	-
	Sand, (4.75 ~ 0.075) mm %		8.82	7.22	53.28	86.20	56.87
	Silt, (0.075 ~ 0.005) mm %		75.38	80.68	39.02	10.00	25.23
	Clay, (< 0.005 mm) %		15.80	12.10	7.70	3.80	17.90
Specific Gravity of Soil G _s (20°C)			2.655	2.676	2.667	2.732	2.655
Unconfined Compression	Unconfined Compressive Strength q _u kN/m ²		-	-	-	-	-
	Failure Strain ϵ_f %		-	-	-	-	-
	E ₅₀ kN/m ²		-	-	-	-	-
	Sensitivity Ratio		-	-	-	-	-
Direct Shear Test	Cohesion C _{UU} kN/m ²		-	-	-	-	-
	Phi Angle ϕ_{UU} Degree		-	-	-	-	-
Unconsolidated Undrained Triaxial Compression Test	Cohesion C _{UU} kN/m ²		-	-	-	-	-
	Phi Angle ϕ_{UU} Degree		-	-	-	-	-
Consolidated Undrained Triaxial Compression Test (Measurement of Pore Pressure)	Cohesion C' kN/m ²		-	-	-	-	-
	Phi Angle ϕ' Degree		-	-	-	-	-
	Cohesion C kN/m ²		-	-	-	-	-
	Phi Angle ϕ Degree		-	-	-	-	-
Consolidation	Initial Void Ratio e ₀		-	-	-	-	-
	Conso. Yield Stress P _y kN/m ²		-	-	-	-	-
	Compression Index C _c		-	-	-	-	-
Soil Classification (ASTM D 2487 - 06)		Group Symbol	CL	CL	SM (or) SC	SM (or) SC	SM (or) SC
		Group Name	Lean clay	Lean clay	Silty sand (or) Clayey sand	Silty sand (or) Clayey sand	Silty sand (or) Clayey sand
NOTE							
Data used for reference are shown by red color.							

SUMMARY OF SOIL TEST RESULTS

Project Name : Geological Survey on the supplement survey for Bago River Bridge Construction Project

Borehole No. BH-03

Location : Thanlyin Chin Kat Road, Thaketa Township

Sample No.		P-7	P-9	P-11	P-12	P-13
Depth (m)		9.00 ~ 9.45	11.00 ~ 11.45	13.00 ~ 13.45	14.00 ~ 14.45	15.00 ~ 15.45
Moisture Content w %		41.06	34.06	26.85	19.51	26.50
Bulk Density ρ_t g/cm ³		-	-	-	-	-
Atterberg's Limit	Liquid Limit WL %	25.72	22.64	18.05	-	-
	Plastic Limit WP %	14.43	19.15	14.87	-	-
	Plasticity Index IP	11.29	3.49	3.18	-	-
Grain Size Analysis	Gravel, (76.20 ~ 4.75) mm %	-	-	0.77	-	1.80
	Sand, (4.75 ~ 0.075) mm %	45.60	39.43	61.70	88.27	84.49
	Silt, (0.075 ~ 0.005) mm %	36.10	48.57	27.52	4.93	7.71
	Clay, (< 0.005 mm) %	18.30	12.00	10.00	6.80	6.00
Specific Gravity of Soil G _s (20°C)		2.676	2.669	2.665	2.661	2.686
Unconfined Compression	Unconfined Compressive Strength q _u kN/m ²	-	-	-	-	-
	Failure Strain ϵ_f %	-	-	-	-	-
	E ₅₀ kN/m ²	-	-	-	-	-
	Sensitivity Ratio	-	-	-	-	-
Direct Shear Test	Cohesion C _{UU} kN/m ²	-	-	-	-	-
	Phi Angle ϕ_{UU} Degree	-	-	-	-	-
Unconsolidated Undrained Triaxial Compression Test	Cohesion C _{UU} kN/m ²	-	-	-	-	-
	Phi Angle ϕ_{UU} Degree	-	-	-	-	-
Consolidated Undrained Triaxial Compression Test (Measurement of Pore Pressure)	Cohesion C' kN/m ²	-	-	-	-	-
	Phi Angle ϕ' Degree	-	-	-	-	-
	Cohesion C kN/m ²	-	-	-	-	-
	Phi Angle ϕ Degree	-	-	-	-	-
Consolidation	Initial Void Ratio e ₀	-	-	-	-	-
	Conso. Yield Stress P _y kN/m ²	-	-	-	-	-
	Compression Index C _c	-	-	-	-	-
Soil Classification (ASTM D 2487 - 06)	Group Symbol	CL	ML	SM	SP - SM (or) SP - SC	SM (or) SC
	Group Name	Sandy lean clay	Sandy silt	Silty sand	Poorly graded sand with silt (or) Poorly graded sand with clay (or silty clay)	Silty sand (or) Clayey sand

NOTE

Data used for reference are shown by red color.

SUMMARY OF SOIL TEST RESULTS

Project Name : Geological Survey on the supplement survey for Bago River Bridge Construction Project

Borehole No. BH-03

Location : Thanlyin Chin Kat Road, Thaketa Township

Sample No.		P-15	P-23	P-30	P-36	P-44
Depth (m)		17.00 ~ 17.45	25.00 ~ 25.45	32.00 ~ 32.45	38.00 ~ 38.45	46.00 ~ 46.33
Moisture Content w %		19.96	26.56	33.74	35.35	20.05
Bulk Density ρ_t g/cm ³		-	-	-	-	-
Atterberg's Limit	Liquid Limit WL %	-	-	31.65	45.95	-
	Plastic Limit WP %	-	-	21.31	24.41	-
	Plasticity Index IP	-	-	10.34	21.54	-
Grain Size Analysis	Gravel, (76.20 ~ 4.75) mm %	-	-	-	-	-
	Sand, (4.75 ~ 0.075) mm %	91.21	82.12	61.16	25.52	84.52
	Silt, (0.075 ~ 0.005) mm %	4.89	15.08	35.04	69.68	9.38
	Clay, (< 0.005 mm) %	3.90	2.80	3.80	4.80	6.10
Specific Gravity of Soil G _s (20°C)		2.661	2.674	2.692	2.757	2.662
Unconfined Compression	Unconfined Compressive Strength q _u kN/m ²	-	-	-	-	-
	Failure Strain ϵ_f %	-	-	-	-	-
	E ₅₀ kN/m ²	-	-	-	-	-
	Sensitivity Ratio	-	-	-	-	-
Direct Shear Test	Cohesion C _{UU} kN/m ²	-	-	-	-	-
	Phi Angle ϕ_{UU} Degree	-	-	-	-	-
Unconsolidated Undrained Triaxial Compression Test	Cohesion C _{UU} kN/m ²	-	-	-	-	-
	Phi Angle ϕ_{UU} Degree	-	-	-	-	-
Consolidated Undrained Triaxial Compression Test (Measurement of Pore Pressure)	Cohesion C' kN/m ²	-	-	-	-	-
	Phi Angle ϕ' Degree	-	-	-	-	-
	Cohesion C kN/m ²	-	-	-	-	-
	Phi Angle ϕ Degree	-	-	-	-	-
Consolidation	Initial Void Ratio e ₀	-	-	-	-	-
	Conso. Yield Stress P _y kN/m ²	-	-	-	-	-
	Compression Index C _c	-	-	-	-	-
Soil Classification (ASTM D 2487 - 06)	Group Symbol	SP - SM (or) SP - SC	SM - SC	SC	CL	SM (or) SC
	Group Name	Poorly graded sand with silt (or) Poorly graded sand with clay (or silty clay)	Silty sand (or) Clayey sand	Clayey sand	Lean clay with sand	Silty sand (or) Clayey sand

NOTE

Data used for reference are shown by red color.



SUMMARY OF SOIL TEST RESULTS

Project Name : Geological Survey on the supplement survey for Bago River Bridge Construction Project							
Borehole No. BH-04			Location : Thanlyin Chin Kat Road, Thaketa Township				
Sample No.			A-1	P-1	P-3	P-6	P-8
Depth (m)			1.00 ~ 1.50	3.00 ~ 3.45	5.00 ~ 5.45	8.00 ~ 8.45	10.00 ~ 10.45
Moisture Content w %			20.32	25.56	30.38	25.76	41.17
Bulk Density ρ_t g/cm ³			-	-	-	-	-
Atterberg's Limit	Liquid Limit WL %		30.23	-	25.10	-	36.38
	Plastic Limit WP %		18.88	-	23.18	-	19.06
	Plasticity Index IP		11.35	-	1.92	-	17.32
Grain Size Analysis	Gravel, (76.20 ~ 4.75) mm %		1.77	-	0.17	-	-
	Sand, (4.75 ~ 0.075) mm %		13.44	15.36	80.68	90.77	26.48
	Silt, (0.075 ~ 0.005) mm %		65.49	69.84	13.16	3.33	47.72
	Clay, (< 0.005 mm) %		19.30	14.80	6.00	5.90	25.80
Specific Gravity of Soil G _s (20°C)			2.664	2.678	2.682	2.683	2.681
Unconfined Compression	Unconfined Compressive Strength q _u kN/m ²		-	-	-	-	-
	Failure Strain ϵ_f %		-	-	-	-	-
	E ₅₀ kN/m ²		-	-	-	-	-
	Sensitivity Ratio		-	-	-	-	-
Direct Shear Test	Cohesion C _{UU} kN/m ²		-	-	-	-	-
	Phi Angle ϕ_{UU} Degree		-	-	-	-	-
Unconsolidated Undrained Triaxial Compression Test	Cohesion C _{UU} kN/m ²		-	-	-	-	-
	Phi Angle ϕ_{UU} Degree		-	-	-	-	-
Consolidated Undrained Triaxial Compression Test (Measurement of Pore Pressure)	Cohesion C' kN/m ²		-	-	-	-	-
	Phi Angle ϕ' Degree		-	-	-	-	-
	Cohesion C kN/m ²		-	-	-	-	-
	Phi Angle ϕ Degree		-	-	-	-	-
Consolidation	Initial Void Ratio e ₀		-	-	-	-	-
	Conso. Yield Stress P _y kN/m ²		-	-	-	-	-
	Compression Index C _c		-	-	-	-	-
Soil Classification (ASTM D 2487 - 06)		Group Symbol	CL	F	SM	SP - SM (or) SP - SC	CL
		Group Name	Lean clay with sand	Fined grained soil	Silty sand	Poorly graded sand with silt (or) Poorly graded sand with clay (or silty clay)	Lean clay with sand
NOTE							
Data used for reference are shown by red color.							

SUMMARY OF SOIL TEST RESULTS

Project Name : Geological Survey on the supplement survey for Bago River Bridge Construction Project

Borehole No. BH-04

Location : Thanlyin Chin Kat Road, Thaketa Township

Sample No.		P-9	P-11	P-13	P-16	P-22
Depth (m)		11.00 ~ 11.45	13.00 ~ 13.45	15.00 ~ 15.45	18.00 ~ 18.45	24.00 ~ 24.45
Moisture Content	w %	41.94	38.26	33.55	24.78	27.03
Bulk Density	ρ_t g/cm ³	-	-	-	-	-
Atterberg's Limit	Liquid Limit WL %	-	25.28	29.44	-	-
	Plastic Limit WP %	-	22.31	26.37	-	-
	Plasticity Index IP	-	2.97	3.07	-	-
Grain Size Analysis	Gravel, (76.20 ~ 4.75) mm %	-	-	-	-	0.90
	Sand, (4.75 ~ 0.075) mm %	13.30	38.15	52.32	87.40	86.65
	Silt, (0.075 ~ 0.005) mm %	69.70	48.05	41.18	7.10	7.14
	Clay, (< 0.005 mm) %	17.00	13.80	6.50	5.50	5.30
Specific Gravity of Soil	G _s (20°C)	2.662	2.663	2.678	2.673	2.675
Unconfined Compression	Unconfined Compressive Strength q_u kN/m ²	-	-	-	-	-
	Failure Strain ϵ_f %	-	-	-	-	-
	E ₅₀ kN/m ²	-	-	-	-	-
	Sensitivity Ratio	-	-	-	-	-
Direct Shear Test	Cohesion C_{UU} kN/m ²	-	-	-	-	-
	Phi Angle ϕ_{UU} Degree	-	-	-	-	-
Unconsolidated Undrained Triaxial Compression Test	Cohesion C_{UU} kN/m ²	-	-	-	-	-
	Phi Angle ϕ_{UU} Degree	-	-	-	-	-
Consolidated Undrained Triaxial Compression Test (Measurement of Pore Pressure)	Cohesion C' kN/m ²	-	-	-	-	-
	Phi Angle ϕ' Degree	-	-	-	-	-
	Cohesion C kN/m ²	-	-	-	-	-
	Phi Angle ϕ Degree	-	-	-	-	-
Consolidation	Initial Void Ratio e_0	-	-	-	-	-
	Conso. Yield Stress P_y kN/m ²	-	-	-	-	-
	Compression Index C_c	-	-	-	-	-
Soil Classification (ASTM D 2487 - 06)	Group Symbol	F	ML	SM	SM (or) SC	SM (or) SC
	Group Name	Fine grained soil	Sandy silt	Silty sand	Silty sand (or) Clayey sand	Silty sand (or) Clayey sand

NOTE

Data used for reference are shown by red color.

SUMMARY OF SOIL TEST RESULTS

Project Name : Geological Survey on the supplement survey for Bago River Bridge Construction Project

Borehole No. BH-04

Location : Thanlyin Chin Kat Road, Thaketa Township

Sample No.		P-32	P-43			
Depth (m)		34.00 ~ 34.45	45.00 ~ 45.34	~	~	~
Moisture Content w %		42.02	21.68			
Bulk Density ρ_t g/cm ³		-	-			
Atterberg's Limit	Liquid Limit WL %	60.83	-			
	Plastic Limit WP %	36.11	-			
	Plasticity Index IP	24.72	-			
Grain Size Analysis	Gravel, (76.20 ~ 4.75) mm %	-	-			
	Sand, (4.75 ~ 0.075) mm %	15.98	80.63			
	Silt, (0.075 ~ 0.005) mm %	75.93	13.87			
	Clay, (< 0.005 mm) %	8.10	5.50			
Specific Gravity of Soil G _s (20°C)		2.736	2.673			
Unconfined Compression	Unconfined Compressive Strength q _u kN/m ²	-	-			
	Failure Strain ϵ_f %	-	-			
	E ₅₀ kN/m ²	-	-			
	Sensitivity Ratio	-	-			
Direct Shear Test	Cohesion C _{UU} kN/m ²	-	-			
	Phi Angle ϕ_{UU} Degree	-	-			
Unconsolidated Undrained Triaxial Compression Test	Cohesion C _{UU} kN/m ²	-	-			
	Phi Angle ϕ_{UU} Degree	-	-			
Consolidated Undrained Triaxial Compression Test (Measurement of Pore Pressure)	Cohesion C' kN/m ²	-	-			
	Phi Angle ϕ' Degree	-	-			
	Cohesion C kN/m ²	-	-			
	Phi Angle ϕ Degree	-	-			
Consolidation	Initial Void Ratio e ₀	-	-			
	Conso. Yield Stress P _y kN/m ²	-	-			
	Compression Index C _c	-	-			
Soil Classification (ASTM D 2487 - 06)	Group Symbol	MH	SM (or) SC			
	Group Name	Elastic silt with sand	Silty sand (or) Clayey sand			

NOTE

Data used for reference are shown by red color.



SUMMARY OF SOIL TEST RESULTS

Project Name : Geological Survey on the supplement survey for Bago River Bridge Construction Project								
Borehole No. BH-05		Location : Thanlyin Chin Kat Road, Thaketa Township						
Sample No.		A-1	P-1	P-3	P-4	P-6		
Depth (m)		1.00 ~ 1.50	3.00 ~ 3.45	5.00 ~ 5.45	6.00 ~ 6.45	8.00 ~ 8.45		
Moisture Content		w	%	22.71	25.57	29.82	32.06	26.68
Bulk Density		ρ_t	g/cm ³	-	-	-	-	-
Atterberg's Limit	Liquid Limit	WL	%	39.35	-	-	25.01	-
	Plastic Limit	WP	%	19.30	-	-	18.88	-
	Plasticity Index	IP		20.05	-	-	6.13	-
Grain Size Analysis	Gravel, (76.20 ~ 4.75) mm		%	0.52	-	-	-	-
	Sand, (4.75 ~ 0.075) mm		%	9.47	47.15	49.90	84.12	82.73
	Silt, (0.075 ~ 0.005) mm		%	71.62	43.95	38.60	10.98	11.87
	Clay, (< 0.005 mm)		%	18.40	8.90	11.50	4.90	5.40
Specific Gravity of Soil		G _s	(20°C)	2.721	2.694	2.670	2.683	2.675
Unconfined Compression	Unconfined Compressive Strength	q _u	kN/m ²	-	-	-	-	-
	Failure Strain	ϵ_f	%	-	-	-	-	-
	E ₅₀		kN/m ²	-	-	-	-	-
	Sensitivity Ratio			-	-	-	-	-
Direct Shear Test	Cohesion	C _{UU}	kN/m ²	-	-	-	-	-
	Phi Angle	ϕ_{UU}	Degree	-	-	-	-	-
Unconsolidated Undrained Triaxial Compression Test	Cohesion	C _{UU}	kN/m ²	-	-	-	-	-
	Phi Angle	ϕ_{UU}	Degree	-	-	-	-	-
Consolidated Undrained Triaxial Compression Test (Measurement of Pore Pressure)	Cohesion	C'	kN/m ²	-	-	-	-	-
	Phi Angle	ϕ'	Degree	-	-	-	-	-
	Cohesion	C	kN/m ²	-	-	-	-	-
	Phi Angle	ϕ	Degree	-	-	-	-	-
Consolidation	Initial Void Ratio	e ₀		-	-	-	-	-
	Conso. Yield Stress	P _y	kN/m ²	-	-	-	-	-
	Compression Index	C _c		-	-	-	-	-
Soil Classification (ASTM D 2487 - 06)		Group Symbol		CL	F	F	SC - SM	SM (or) SC
		Group Name		Lean caly	Fine grained soil	Fine grained soil	Silty, clayey sand	Silty sand (or) Clayey sand
NOTE								
Data used for reference are shown by red color.								

SUMMARY OF SOIL TEST RESULTS

Project Name : Geological Survey on the supplement survey for Bago River Bridge Construction Project

Borehole No. BH-05

Location : Thanlyin Chin Kat Road, Thaketa Township

Sample No.		P-7	P-8	P-11	P-13	P-15
Depth (m)		9.00 ~ 9.45	10.00 ~ 10.45	13.00 ~ 13.45	151.00 ~ 15.45	17.00 ~ 17.45
Moisture Content w %		37.52	31.08	36.82	23.54	25.60
Bulk Density ρ_t g/cm ³		-	-	-	-	-
Atterberg's Limit	Liquid Limit WL %	28.76	-	32.90	-	-
	Plastic Limit WP %	20.17	-	25.30	-	-
	Plasticity Index IP	8.59	-	7.60	-	-
Grain Size Analysis	Gravel, (76.20 ~ 4.75) mm %	-	-	-	-	-
	Sand, (4.75 ~ 0.075) mm %	34.96	82.10	11.76	90.13	85.85
	Silt, (0.075 ~ 0.005) mm %	45.64	13.90	72.14	6.87	8.05
	Clay, (< 0.005 mm) %	19.40	4.00	16.10	3.00	6.10
Specific Gravity of Soil G _s (20°C)		2.656	2.694	2.661	2.681	2.654
Unconfined Compression	Unconfined Compressive Strength q _u kN/m ²	-	-	-	-	-
	Failure Strain ϵ_f %	-	-	-	-	-
	E ₅₀ kN/m ²	-	-	-	-	-
	Sensitivity Ratio	-	-	-	-	-
Direct Shear Test	Cohesion C _{UU} kN/m ²	-	-	-	-	-
	Phi Angle ϕ_{UU} Degree	-	-	-	-	-
Unconsolidated Undrained Triaxial Compression Test	Cohesion C _{UU} kN/m ²	-	-	-	-	-
	Phi Angle ϕ_{UU} Degree	-	-	-	-	-
Consolidated Undrained Triaxial Compression Test (Measurement of Pore Pressure)	Cohesion C' kN/m ²	-	-	-	-	-
	Phi Angle ϕ' Degree	-	-	-	-	-
	Cohesion C kN/m ²	-	-	-	-	-
	Phi Angle ϕ Degree	-	-	-	-	-
Consolidation	Initial Void Ratio e ₀	-	-	-	-	-
	Conso. Yield Stress P _y kN/m ²	-	-	-	-	-
	Compression Index C _c	-	-	-	-	-
Soil Classification (ASTM D 2487 - 06)	Group Symbol	CL	SM (or) SC	ML	SP - SM (or) SP - SC	SM (or) SC
	Group Name	Sandy lean clay	Silty sand (or) Clayey sand	Silt	Poorly graded sand with silt (or) Poorly graded sand with clay (or silty clay)	Silty sand (or) Clayey sand

NOTE

Data used for reference are shown by red color.

SUMMARY OF SOIL TEST RESULTS

Project Name : Geological Survey on the supplement survey for Bago River Bridge Construction Project

Borehole No. BH-05

Location : Thanlyin Chin Kat Road, Thaketa Township

Sample No.		P-17	P-27	P-30	P-34	P-46	
Depth (m)		19.00 ~ 19.45	29.00 ~ 29.45	32.00 ~ 32.43	36.00 ~ 36.45	48.00 ~ 48.35	
Moisture Content w %		22.53	32.02	29.50	36.85	21.21	
Bulk Density ρ_t g/cm ³		-	-	-	-	-	
Atterberg's Limit	Liquid Limit WL %	-	46.05	27.74	65.03	23.85	
	Plastic Limit WP %	-	24.85	21.46	21.03	17.59	
	Plasticity Index IP	-	21.20	6.28	44.00	6.26	
Grain Size Analysis	Gravel, (76.20 ~ 4.75) mm %	0.47	-	-	-	0.30	
	Sand, (4.75 ~ 0.075) mm %	85.72	1.78	60.97	3.90	81.28	
	Silt, (0.075 ~ 0.005) mm %	10.41	89.33	35.08	85.00	12.53	
	Clay, (< 0.005 mm) %	3.40	8.90	3.95	11.10	5.90	
Specific Gravity of Soil G _s (20°C)		2.665	2.706	2.702	2.768	2.632	
Unconfined Compression	Unconfined Compressive Strength q _u kN/m ²	-	-	-	-	-	
	Failure Strain ϵ_f %	-	-	-	-	-	
	E ₅₀ kN/m ²	-	-	-	-	-	
	Sensitivity Ratio	-	-	-	-	-	
Direct Shear Test	Cohesion C _{UU} kN/m ²	-	-	-	-	-	
	Phi Angle ϕ_{UU} Degree	-	-	-	-	-	
Unconsolidated Undrained Triaxial Compression Test	Cohesion C _{UU} kN/m ²	-	-	-	-	-	
	Phi Angle ϕ_{UU} Degree	-	-	-	-	-	
Consolidated Undrained Triaxial Compression Test (Measurement of Pore Pressure)	Cohesion C' kN/m ²	-	-	-	-	-	
	Phi Angle ϕ' Degree	-	-	-	-	-	
	Cohesion C kN/m ²	-	-	-	-	-	
	Phi Angle ϕ Degree	-	-	-	-	-	
Consolidation	Initial Void Ratio e ₀	-	-	-	-	-	
	Conso. Yield Stress P _y kN/m ²	-	-	-	-	-	
	Compression Index C _c	-	-	-	-	-	
Soil Classification (ASTM D 2487 - 06)		Group Symbol	SM (or) SC	CL	SC - SM	CH	SC - SM
		Group Name	Silty sand (or) Clayey sand	Lean clay	Silty, clayey sand	Fat clay	Silty, clayey sand

NOTE

Data used for reference are shown by red color.



SUMMARY OF SOIL TEST RESULTS

Project Name : Geological Survey on the supplement survey for Bago River Bridge Construction Project							
Borehole No. BH-06			Location : Thanlyin Chin Kat Road, Thaketa Township				
Sample No.			A-1	P-3	P-4	P-6	P-8
Depth (m)			1.00 ~ 1.50	4.00 ~ 4.45	5.00 ~ 5.45	7.00 ~ 7.45	9.00 ~ 9.45
Moisture Content w %			20.41	23.30	31.73	28.83	29.83
Bulk Density ρ_t g/cm ³			-	-	-	-	-
Atterberg's Limit	Liquid Limit WL %		36.42	20.24	-	-	20.53
	Plastic Limit WP %		19.57	13.44	-	-	13.76
	Plasticity Index IP		16.85	6.80	-	-	6.77
Grain Size Analysis	Gravel, (76.20 ~ 4.75) mm %		1.38	-	-	-	-
	Sand, (4.75 ~ 0.075) mm %		15.37	74.12	76.97	78.98	66.55
	Silt, (0.075 ~ 0.005) mm %		69.85	8.98	15.83	15.72	23.45
	Clay, (< 0.005 mm) %		13.40	16.90	7.20	5.30	10.00
Specific Gravity of Soil G _s (20°C)			2.688	2.694	2.669	2.679	2.685
Unconfined Compression	Unconfined Compressive Strength q _u kN/m ²		-	-	-	-	-
	Failure Strain ϵ_f %		-	-	-	-	-
	E ₅₀ kN/m ²		-	-	-	-	-
	Sensitivity Ratio		-	-	-	-	-
Direct Shear Test	Cohesion C _{UU} kN/m ²		-	-	-	-	-
	Phi Angle ϕ_{UU} Degree		-	-	-	-	-
Unconsolidated Undrained Triaxial Compression Test	Cohesion C _{UU} kN/m ²		-	-	-	-	-
	Phi Angle ϕ_{UU} Degree		-	-	-	-	-
Consolidated Undrained Triaxial Compression Test (Measurement of Pore Pressure)	Cohesion C' kN/m ²		-	-	-	-	-
	Phi Angle ϕ' Degree		-	-	-	-	-
	Cohesion C kN/m ²		-	-	-	-	-
	Phi Angle ϕ Degree		-	-	-	-	-
Consolidation	Initial Void Ratio e ₀		-	-	-	-	-
	Conso. Yield Stress P _y kN/m ²		-	-	-	-	-
	Compression Index C _c		-	-	-	-	-
Soil Classification (ASTM D 2487 - 06)		Group Symbol	CL	SC - SM	SM (or) SC	SM (or) SC	SC - SM
		Group Name	Lean clay with sand	Silty, clayey sand	Silty sand (or) Clayey sand	Silty sand (or) Clayey sand	Silty, clayey sand
NOTE							
Data used for reference are shown by red color.							

SUMMARY OF SOIL TEST RESULTS

Project Name : Geological Survey on the supplement survey for Bago River Bridge Construction Project

Borehole No. BH-06

Location : Thanlyin Chin Kat Road, Thaketa Township

Sample No.		P-9	P-12	P-15	P-17	P-20
Depth (m)		10.00 ~ 10.45	13.00 ~ 13.45	16.00 ~ 16.45	18.00 ~ 18.45	21.00 ~ 21.45
Moisture Content w %		34.06	38.05	21.85	23.07	23.45
Bulk Density ρ_t g/cm ³		-	-	-	-	-
Atterberg's Limit	Liquid Limit WL %	28.28	29.79	-	-	-
	Plastic Limit WP %	24.03	26.12	-	-	-
	Plasticity Index IP	4.25	3.67	-	-	-
Grain Size Analysis	Gravel, (76.20 ~ 4.75) mm %	-	-	-	0.38	-
	Sand, (4.75 ~ 0.075) mm %	48.60	36.90	89.37	83.09	75.82
	Silt, (0.075 ~ 0.005) mm %	45.20	53.10	3.73	10.43	17.28
	Clay, (< 0.005 mm) %	6.20	10.00	6.90	6.10	6.90
Specific Gravity of Soil G _s (20°C)		2.656	2.692	2.667	2.657	2.675
Unconfined Compression	Unconfined Compressive Strength q _u kN/m ²	-	-	-	-	-
	Failure Strain ϵ_f %	-	-	-	-	-
	E ₅₀ kN/m ²	-	-	-	-	-
	Sensitivity Ratio	-	-	-	-	-
Direct Shear Test	Cohesion C _{UU} kN/m ²	-	-	-	-	-
	Phi Angle ϕ_{UU} Degree	-	-	-	-	-
Unconsolidated Undrained Triaxial Compression Test	Cohesion C _{UU} kN/m ²	-	-	-	-	-
	Phi Angle ϕ_{UU} Degree	-	-	-	-	-
Consolidated Undrained Triaxial Compression Test (Measurement of Pore Pressure)	Cohesion C' kN/m ²	-	-	-	-	-
	Phi Angle ϕ' Degree	-	-	-	-	-
	Cohesion C kN/m ²	-	-	-	-	-
	Phi Angle ϕ Degree	-	-	-	-	-
Consolidation	Initial Void Ratio e ₀	-	-	-	-	-
	Conso. Yield Stress P _y kN/m ²	-	-	-	-	-
	Compression Index C _c	-	-	-	-	-
Soil Classification (ASTM D 2487 - 06)	Group Symbol	ML	ML	SP - SM (or) SP - SC	SM (or) SC	SM (or) SC
	Group Name	Sandy silt	Sandy silt	Poorly graded sand with silt (or) Poorly graded sand with clay (or silty clay)	Silty sand (or) Clayey sand	Silty sand (or) Clayey sand

NOTE

Data used for reference are shown by red color.

SUMMARY OF SOIL TEST RESULTS

Project Name : Geological Survey on the supplement survey for Bago River Bridge Construction Project							
Borehole No. BH-06		Location : Thanlyin Chin Kat Road, Thaketa Township					
Sample No.		P-26	P-33	P-41	P-48		
Depth (m)		27.00 ~ 27.45	34.00 ~ 34.45	42.00 ~ 42.35	49.00 ~ 49.27	~	
Moisture Content		w	%	32.39	39.27	20.63	29.43
Bulk Density		ρ_t	g/cm ³	-	-	-	-
Atterberg's Limit	Liquid Limit	WL	%	43.54	57.67	27.80	-
	Plastic Limit	WP	%	24.46	37.49	16.98	-
	Plasticity Index	IP		19.08	20.18	10.82	-
Grain Size Analysis	Gravel, (76.20 ~ 4.75) mm		%	-	-	-	-
	Sand, (4.75 ~ 0.075) mm		%	1.15	19.03	80.92	7.13
	Silt, (0.075 ~ 0.005) mm		%	86.85	73.13	11.13	86.88
	Clay, (< 0.005 mm)		%	12.00	7.85	7.95	6.00
Specific Gravity of Soil		G _s	(20°C)	2.686	2.713	2.616	2.686
Unconfined Compression	Unconfined Compressive Strength	q _u	kN/m ²	-	-	-	-
	Failure Strain	ϵ_f	%	-	-	-	-
	E ₅₀		kN/m ²	-	-	-	-
	Sensitivity Ratio			-	-	-	-
Direct Shear Test	Cohesion	C _{UU}	kN/m ²	-	-	-	-
	Phi Angle	ϕ_{UU}	Degree	-	-	-	-
Unconsolidated Undrained Triaxial Compression Test	Cohesion	C _{UU}	kN/m ²	-	-	-	-
	Phi Angle	ϕ_{UU}	Degree	-	-	-	-
Consolidated Undrained Triaxial Compression Test (Measurement of Pore Pressure)	Cohesion	C'	kN/m ²	-	-	-	-
	Phi Angle	ϕ'	Degree	-	-	-	-
	Cohesion	C	kN/m ²	-	-	-	-
	Phi Angle	ϕ	Degree	-	-	-	-
Consolidation	Initial Void Ratio	e ₀		-	-	-	-
	Conso. Yield Stress	P _y	kN/m ²	-	-	-	-
	Compression Index	C _c		-	-	-	-
Soil Classification (ASTM D 2487 - 06)		Group Symbol		CL	MH	SC	F
		Group Name		Lean clay	Elastic silt with sand	Clayey sand	Fine grained soil
NOTE							
Data used for reference are shown by red color.							

SUMMARY OF SOIL TEST RESULTS

Project Name : Geological Survey on the supplement survey for Bago River Bridge Construction Project								
Borehole No. BH-07		Location : Thanlyin Chin Kat Road, Thaketa Township						
Sample No.		A-2	P-1	P-3	P-5	P-7		
Depth (m)		2.00 ~ 2.45	3.00 ~ 3.45	5.00 ~ 5.45	7.00 ~ 7.45	9.00 ~ 9.45		
Moisture Content		w	%	21.68	25.11	30.59	26.41	34.38
Bulk Density		ρ_t	g/cm ³	-	-	-	-	-
Atterberg's Limit	Liquid Limit	WL	%	24.55	-	24.80	-	22.54
	Plastic Limit	WP	%	17.57	-	23.14	-	21.39
	Plasticity Index	IP		6.98	-	1.66	-	1.15
Grain Size Analysis	Gravel, (76.20 ~ 4.75) mm		%	-	-	-	-	-
	Sand, (4.75 ~ 0.075) mm		%	49.70	79.47	83.10	83.57	54.80
	Silt, (0.075 ~ 0.005) mm		%	37.30	13.63	12.00	11.63	34.70
	Clay, (< 0.005 mm)		%	13.00	6.90	4.90	4.80	10.50
Specific Gravity of Soil		G _s	(20°C)	2.658	2.661	2.691	2.677	2.676
Unconfined Compression	Unconfined Compressive Strength	q _u	kN/m ²	-	-	-	-	-
	Failure Strain	ϵ_f	%	-	-	-	-	-
	E ₅₀		kN/m ²	-	-	-	-	-
	Sensitivity Ratio			-	-	-	-	-
Direct Shear Test	Cohesion	C _{UU}	kN/m ²	-	-	-	-	-
	Phi Angle	ϕ_{UU}	Degree	-	-	-	-	-
Unconsolidated Undrained Triaxial Compression Test	Cohesion	C _{UU}	kN/m ²	-	-	-	-	-
	Phi Angle	ϕ_{UU}	Degree	-	-	-	-	-
Consolidated Undrained Triaxial Compression Test (Measurement of Pore Pressure)	Cohesion	C'	kN/m ²	-	-	-	-	-
	Phi Angle	ϕ'	Degree	-	-	-	-	-
	Cohesion	C	kN/m ²	-	-	-	-	-
	Phi Angle	ϕ	Degree	-	-	-	-	-
Consolidation	Initial Void Ratio	e ₀		-	-	-	-	-
	Conso. Yield Stress	P _y	kN/m ²	-	-	-	-	-
	Compression Index	C _c		-	-	-	-	-
Soil Classification (ASTM D 2487 - 06)		Group Symbol		CL - ML	SM (or) SC	SM	SM (or) SC	SM
		Group Name		Sandy silty clay	Silty sand (or) Clayey sand	Silty sand	Silty sand (or) Clayey sand	Silty sand
NOTE								
Data used for reference are shown by red color.								

SUMMARY OF SOIL TEST RESULTS

Project Name : Geological Survey on the supplement survey for Bago River Bridge Construction Project

Borehole No. BH-07

Location : Thanlyin Chin Kat Road, Thaketa Township

Sample No.		P-9	P-11	P-13	P-15	P-20
Depth (m)		11.00 ~ 11.45	13.00 ~ 13.45	15.00 ~ 15.45	17.00 ~ 17.45	22.00 ~ 22.45
Moisture Content w %		38.48	36.32	19.07	24.45	36.84
Bulk Density ρ_t g/cm ³		-	-	-	-	-
Atterberg's Limit	Liquid Limit WL %	29.81	27.04	-	-	18.71
	Plastic Limit WP %	23.31	22.90	-	-	15.61
	Plasticity Index IP	6.50	4.14	-	-	3.10
Grain Size Analysis	Gravel, (76.20 ~ 4.75) mm %	-	-	1.02	-	-
	Sand, (4.75 ~ 0.075) mm %	21.00	54.35	86.30	86.97	48.38
	Silt, (0.075 ~ 0.005) mm %	65.00	32.65	6.98	8.23	30.22
	Clay, (< 0.005 mm) %	14.00	13.00	5.70	4.80	21.40
Specific Gravity of Soil G _s (20°C)		2.653	2.695	2.650	2.686	2.678
Unconfined Compression	Unconfined Compressive Strength q _u kN/m ²	-	-	-	-	-
	Failure Strain ϵ_f %	-	-	-	-	-
	E ₅₀ kN/m ²	-	-	-	-	-
	Sensitivity Ratio	-	-	-	-	-
Direct Shear Test	Cohesion C _{UU} kN/m ²	-	-	-	-	-
	Phi Angle ϕ_{UU} Degree	-	-	-	-	-
Unconsolidated Undrained Triaxial Compression Test	Cohesion C _{UU} kN/m ²	-	-	-	-	-
	Phi Angle ϕ_{UU} Degree	-	-	-	-	-
Consolidated Undrained Triaxial Compression Test (Measurement of Pore Pressure)	Cohesion C' kN/m ²	-	-	-	-	-
	Phi Angle ϕ' Degree	-	-	-	-	-
	Cohesion C kN/m ²	-	-	-	-	-
	Phi Angle ϕ Degree	-	-	-	-	-
Consolidation	Initial Void Ratio e ₀	-	-	-	-	-
	Conso. Yield Stress P _y kN/m ²	-	-	-	-	-
	Compression Index C _c	-	-	-	-	-
Soil Classification (ASTM D 2487 - 06)	Group Symbol	ML	SM	SM (or) SC	SM (or) SC	ML
	Group Name	Silt with sand	Silty sand	Silty sand (or) Clayey sand	Silty sand (or) Clayey sand	Sandy silt

NOTE

Data used for reference are shown by red color.



SUMMARY OF SOIL TEST RESULTS

Project Name : Geological Survey on the supplement survey for Bago River Bridge Construction Project

Borehole No. BH-07		Location : Thanlyin Chin Kat Road, Thaketa Township				
Sample No.		P-23	P-34	P-40		
Depth (m)		25.00 ~ 25.45	36.00 ~ 36.45	42.00 ~ 42.35	~	~
Moisture Content		w	%	29.19	22.22	32.15
Bulk Density		ρ_t	g/cm ³	-	-	-
Atterberg's Limit	Liquid Limit	WL	%	44.35	31.50	40.98
	Plastic Limit	WP	%	25.14	18.62	30.97
	Plasticity Index	IP		19.21	12.88	10.01
Grain Size Analysis	Gravel, (76.20 ~ 4.75) mm		%	-	-	-
	Sand, (4.75 ~ 0.075) mm		%	29.36	80.69	24.68
	Silt, (0.075 ~ 0.005) mm		%	60.64	14.61	66.93
	Clay, (< 0.005 mm)		%	10.00	4.70	8.40
Specific Gravity of Soil		G _s (20°C)		2.677	2.636	2.665
Unconfined Compression	Unconfined Compressive Strength	q _u	kN/m ²	-	-	-
	Failure Strain	ϵ_f	%	-	-	-
	E ₅₀		kN/m ²	-	-	-
	Sensitivity Ratio			-	-	-
Direct Shear Test	Cohesion	C _{UU}	kN/m ²	-	-	-
	Phi Angle	ϕ_{UU}	Degree	-	-	-
Unconsolidated Undrained Triaxial Compression Test	Cohesion	C _{UU}	kN/m ²	-	-	-
	Phi Angle	ϕ_{UU}	Degree	-	-	-
Consolidated Undrained Triaxial Compression Test (Measurement of Pore Pressure)	Cohesion	C'	kN/m ²	-	-	-
	Phi Angle	ϕ'	Degree	-	-	-
	Cohesion	C	kN/m ²	-	-	-
	Phi Angle	ϕ	Degree	-	-	-
Consolidation	Initial Void Ratio	e ₀		-	-	-
	Conso. Yield Stress	P _y	kN/m ²	-	-	-
	Compression Index	C _c		-	-	-
Soil Classification (ASTM D 2487 - 06)	Group Symbol			CL	SC	ML
	Group Name			Lean clay with sand	Clayey sand	Silt with sand

NOTE

Data used for reference are shown by red color.



SUMMARY OF SOIL TEST RESULTS

Project Name : Geological Survey on the supplement survey for Bago River Bridge Construction Project							
Borehole No. BH-08			Location : Thanlyin Chin Kat Road, Thaketa Township				
Sample No.			P-1	P-3	P-5	P-8	P-10
Depth (m)			2.00 ~ 2.45	4.00 ~ 4.45	6.00 ~ 6.45	9.00 ~ 9.45	11.00 ~ 11.45
Moisture Content w %			25.84	24.77	31.23	37.08	33.26
Bulk Density ρ_t g/cm ³			-	-	-	-	-
Atterberg's Limit	Liquid Limit WL %		34.80	-	-	25.00	23.12
	Plastic Limit WP %		17.96	-	-	21.13	18.70
	Plasticity Index IP		16.84	-	-	3.87	4.42
Grain Size Analysis	Gravel, (76.20 ~ 4.75) mm %		-	1.58	-	-	-
	Sand, (4.75 ~ 0.075) mm %		16.65	61.39	75.67	50.57	44.95
	Silt, (0.075 ~ 0.005) mm %		56.85	28.23	17.13	35.73	38.95
	Clay, (< 0.005 mm) %		26.50	8.80	7.20	13.70	16.10
Specific Gravity of Soil G _s (20°C)			2.672	2.667	2.666	2.693	2.681
Unconfined Compression	Unconfined Compressive Strength q _u kN/m ²		-	-	-	-	-
	Failure Strain ϵ_f %		-	-	-	-	-
	E ₅₀ kN/m ²		-	-	-	-	-
	Sensitivity Ratio		-	-	-	-	-
Direct Shear Test	Cohesion C _{UU} kN/m ²		-	-	-	-	-
	Phi Angle ϕ_{UU} Degree		-	-	-	-	-
Unconsolidated Undrained Triaxial Compression Test	Cohesion C _{UU} kN/m ²		-	-	-	-	-
	Phi Angle ϕ_{UU} Degree		-	-	-	-	-
Consolidated Undrained Triaxial Compression Test (Measurement of Pore Pressure)	Cohesion C' kN/m ²		-	-	-	-	-
	Phi Angle ϕ' Degree		-	-	-	-	-
	Cohesion C kN/m ²		-	-	-	-	-
	Phi Angle ϕ Degree		-	-	-	-	-
Consolidation	Initial Void Ratio e ₀		-	-	-	-	-
	Conso. Yield Stress P _y kN/m ²		-	-	-	-	-
	Compression Index C _c		-	-	-	-	-
Soil Classification (ASTM D 2487 - 06)		Group Symbol	CL	SM (or) SC	SM (or) SC	SM	CL- ML
		Group Name	Lean clay with sand	Silty sand (or) Clayey sand	Silty sand (or) Clayey sand	Silty sand	Sandy silty clay
NOTE							
Data used for reference are shown by red color.							

SUMMARY OF SOIL TEST RESULTS

Project Name : Geological Survey on the supplement survey for Bago River Bridge Construction Project

Borehole No. BH-08

Location : Thanlyin Chin Kat Road, Thaketa Township

Sample No.		P-12	P-15	P-18	P-27	P-30
Depth (m)		13.00 ~ 13.45	16.00 ~ 16.45	19.00 ~ 19.45	28.00 ~ 28.45	31.00 ~ 31.45
Moisture Content w %		27.47	26.38	23.79	22.93	22.47
Bulk Density ρ_t g/cm ³		-	-	-	-	-
Atterberg's Limit	Liquid Limit WL %	-	-	22.45	32.72	32.05
	Plastic Limit WP %	-	-	18.64	18.90	19.02
	Plasticity Index IP	-	-	3.81	13.82	13.03
Grain Size Analysis	Gravel, (76.20 ~ 4.75) mm %	-	0.56	0.21	-	0.21
	Sand, (4.75 ~ 0.075) mm %	81.43	87.21	79.60	81.91	81.21
	Silt, (0.075 ~ 0.005) mm %	11.07	4.22	12.49	12.19	12.78
	Clay, (< 0.005 mm) %	7.50	8.00	7.70	5.90	5.80
Specific Gravity of Soil G _s (20°C)		2.677	2.674	2.665	2.636	2.641
Unconfined Compression	Unconfined Compressive Strength q _u kN/m ²	-	-	-	-	-
	Failure Strain ϵ_f %	-	-	-	-	-
	E ₅₀ kN/m ²	-	-	-	-	-
	Sensitivity Ratio	-	-	-	-	-
Direct Shear Test	Cohesion C _{UU} kN/m ²	-	-	-	-	-
	Phi Angle ϕ_{UU} Degree	-	-	-	-	-
Unconsolidated Undrained Triaxial Compression Test	Cohesion C _{UU} kN/m ²	-	-	-	-	-
	Phi Angle ϕ_{UU} Degree	-	-	-	-	-
Consolidated Undrained Triaxial Compression Test (Measurement of Pore Pressure)	Cohesion C' kN/m ²	-	-	-	-	-
	Phi Angle ϕ' Degree	-	-	-	-	-
	Cohesion C kN/m ²	-	-	-	-	-
	Phi Angle ϕ Degree	-	-	-	-	-
Consolidation	Initial Void Ratio e ₀	-	-	-	-	-
	Conso. Yield Stress P _y kN/m ²	-	-	-	-	-
	Compression Index C _c	-	-	-	-	-
Soil Classification (ASTM D 2487 - 06)	Group Symbol	SM (or) SC	SM (or) SC	SM	SC	SC
	Group Name	Silty sand (or) Clayey sand	Silty sand (or) Clayey sand	Silty sand	Clayey sand	Clayey sand

NOTE

Data used for reference are shown by red color.

SUMMARY OF SOIL TEST RESULTS

Project Name : Geological Survey on the supplement survey for Bago River Bridge Construction Project

Borehole No. BH-08

Location : Thanlyin Chin Kat Road, Thaketa Township

Sample No.		P-41				
Depth (m)		42.00 ~ 42.28	~	~	~	~
Moisture Content		w %	29.87			
Bulk Density		ρ_t g/cm ³				
Atterberg's Limit	Liquid Limit	WL %	37.08			
	Plastic Limit	WP %	28.11			
	Plasticity Index	IP	8.97			
Grain Size Analysis	Gravel, (76.20 ~ 4.75) mm	%	-			
	Sand, (4.75 ~ 0.075) mm	%	3.00			
	Silt, (0.075 ~ 0.005) mm	%	87.80			
	Clay, (< 0.005 mm)	%	9.20			
Specific Gravity of Soil		G _s (20°C)	2.690			
Unconfined Compression	Unconfined Compressive Strength	q _u kN/m ²	-			
	Failure Strain	ϵ_f %	-			
	E ₅₀	kN/m ²	-			
	Sensitivity Ratio		-			
Direct Shear Test	Cohesion	C _{UU} kN/m ²	-			
	Phi Angle	ϕ_{UU} Degree	-			
Unconsolidated Undrained Triaxial Compression Test	Cohesion	C _{UU} kN/m ²	-			
	Phi Angle	ϕ_{UU} Degree	-			
Consolidated Undrained Triaxial Compression Test (Measurement of Pore Pressure)	Cohesion	C' kN/m ²	-			
	Phi Angle	ϕ' Degree	-			
	Cohesion	C kN/m ²	-			
	Phi Angle	ϕ Degree	-			
Consolidation	Initial Void Ratio	e ₀	-			
	Conso. Yield Stress	P _y kN/m ²	-			
	Compression Index	C _c	-			
Soil Classification (ASTM D 2487 - 06)	Group Symbol		ML			
	Group Name		Silt			

NOTE

Data used for reference are shown by red color.



SUMMARY OF SOIL TEST RESULTS

Project Name : Geological Survey on the supplement survey for Bago River Bridge Construction Project							
Borehole No. BH-09			Location : Thanlyin Chin Kat Road, Thaketa Township				
Sample No.			A-1	T-1	P-3	P-4	P-5
Depth (m)			1.00 ~ 1.50	4.00 ~ 4.30	6.00 ~ 6.45	7.00 ~ 7.45	8.00 ~ 8.45
Moisture Content w %			21.15	32.61	30.21	25.81	33.33
Bulk Density ρ_t g/cm ³			- -	1.902 1.924	- -	- -	- -
Atterberg's Limit	Liquid Limit WL %		36.18	30.30	24.41	-	29.95
	Plastic Limit WP %		16.95	22.87	22.22	-	21.25
	Plasticity Index IP		19.23	7.43	2.19	-	8.70
Grain Size Analysis	Gravel, (76.20 ~ 4.75) mm %		0.17	-	-	-	-
	Sand, (4.75 ~ 0.075) mm %		43.04	28.88	60.92	86.02	32.40
	Silt, (0.075 ~ 0.005) mm %		44.89	61.62	30.98	9.28	50.80
	Clay, (< 0.005 mm) %		11.90	9.50	8.10	4.70	16.80
Specific Gravity of Soil G _s (20°C)			2.657	2.661	2.703	2.653	2.678
Unconfined Compression	Unconfined Compressive Strength q _u kN/m ²		-	47.2	-	-	-
			-	37.7	-	-	-
	Failure Strain ϵ_f %		-	7.99	-	-	-
			-	7.70	-	-	-
	E ₅₀ kN/m ²		-	627.6	-	-	-
		-	612.6	-	-	-	
Sensitivity Ratio			-	2.178	-	-	-
Direct Shear Test	Cohesion C _{UU} kN/m ²		-	-	-	-	-
	Phi Angle ϕ_{UU} Degree		-	-	-	-	-
Unconsolidated Undrained Triaxial Compression Test	Cohesion C _{UU} kN/m ²		-	-	-	-	-
	Phi Angle ϕ_{UU} Degree		-	-	-	-	-
Consolidated Undrained Triaxial Compression Test (Measurement of Pore Pressure)	Cohesion C' kN/m ²		-	-	-	-	-
	Phi Angle ϕ' Degree		-	-	-	-	-
	Cohesion C kN/m ²		-	-	-	-	-
	Phi Angle ϕ Degree		-	-	-	-	-
Consolidation	Initial Void Ratio e ₀		-	0.910	-	-	-
	Conso. Yield Stress P _y kN/m ²		-	240.6	-	-	-
	Compression Index C _c		-	0.234	-	-	-
Soil Classification (ASTM D 2487 - 06)		Group Symbol	CL	ML	SM	SM (or) SC	CL
		Group Name	Sandy lean clay	Silt with sand	Silty sand	Silty sand (or) Clayey sand	Sandy lean clay
NOTE							
Data used for reference are shown by red color.							

SUMMARY OF SOIL TEST RESULTS

Project Name : Geological Survey on the supplement survey for Bago River Bridge Construction Project

Borehole No. BH-09

Location : Thanlyin Chin Kat Road, Thaketa Township

Sample No.		P-7	P-9	P-10	P-11	P-13
Depth (m)		10.00 ~ 10.45	12.00 ~ 12.45	13.00 ~ 13.45	14.00 ~ 14.45	16.00 ~ 16.45
Moisture Content w %		29.93	34.01	20.52	30.16	21.11
Bulk Density ρ_t g/cm ³		-	-	-	-	-
Atterberg's Limit	Liquid Limit WL %	25.95	-	-	-	-
	Plastic Limit WP %	23.86	-	-	-	-
	Plasticity Index IP	2.09	-	-	-	-
Grain Size Analysis	Gravel, (76.20 ~ 4.75) mm %	-	-	-	-	0.78
	Sand, (4.75 ~ 0.075) mm %	70.88	27.60	89.76	76.57	84.14
	Silt, (0.075 ~ 0.005) mm %	23.12	58.50	4.44	17.23	8.88
	Clay, (< 0.005 mm) %	6.00	13.90	5.80	6.20	6.20
Specific Gravity of Soil G _s (20°C)		2.674	2.673	2.656	2.674	2.654
Unconfined Compression	Unconfined Compressive Strength q_u kN/m ²	-	-	-	-	-
	Failure Strain ϵ_f %	-	-	-	-	-
	E ₅₀ kN/m ²	-	-	-	-	-
	Sensitivity Ratio	-	-	-	-	-
Direct Shear Test	Cohesion C_{UU} kN/m ²	-	-	-	-	-
	Phi Angle ϕ_{UU} Degree	-	-	-	-	-
Unconsolidated Undrained Triaxial Compression Test	Cohesion C_{UU} kN/m ²	-	-	-	-	-
	Phi Angle ϕ_{UU} Degree	-	-	-	-	-
Consolidated Undrained Triaxial Compression Test (Measurement of Pore Pressure)	Cohesion C' kN/m ²	-	-	-	-	-
	Phi Angle ϕ' Degree	-	-	-	-	-
	Cohesion C kN/m ²	-	-	-	-	-
	Phi Angle ϕ Degree	-	-	-	-	-
Consolidation	Initial Void Ratio e_0	-	-	-	-	-
	Conso. Yield Stress P_y kN/m ²	-	-	-	-	-
	Compression Index C_c	-	-	-	-	-
Soil Classification (ASTM D 2487 - 06)	Group Symbol	SM	F	SW - SM (or) SW - SC	SM (or) SC	SM (or) SC
	Group Name	Silty sand	Fined grained soil	Well-graded sand with silt (or) Well-graded sand with clay (or silty clay)	Silty sand (or) Clayey sand	Silty sand (or) Clayey sand

NOTE

Data used for reference are shown by red color.

SUMMARY OF SOIL TEST RESULTS

Project Name : Geological Survey on the supplement survey for Bago River Bridge Construction Project

Borehole No. BH-09

Location : Thanlyin Chin Kat Road, Thaketa Township

Sample No.		P-15	P-22	P-25	P-28	P-34
Depth (m)		18.00 ~ 18.45	25.00 ~ 25.45	28.00 ~ 28.45	31.00 ~ 31.45	37.00 ~ 37.44
Moisture Content w %		26.07	23.71	26.42	27.16	22.11
Bulk Density ρ_t g/cm ³		-	-	-	-	-
Atterberg's Limit	Liquid Limit WL %	-	-	32.25	31.48	32.85
	Plastic Limit WP %	-	-	18.10	17.25	17.24
	Plasticity Index IP	-	-	14.15	14.23	15.61
Grain Size Analysis	Gravel, (76.20 ~ 4.75) mm %	-	0.74	-	0.23	0.90
	Sand, (4.75 ~ 0.075) mm %	84.15	89.22	72.02	69.96	69.80
	Silt, (0.075 ~ 0.005) mm %	9.65	5.94	16.18	17.61	21.51
	Clay, (< 0.005 mm) %	6.20	4.10	11.80	12.20	7.80
Specific Gravity of Soil G _s (20°C)		2.668	2.677	2.648	2.646	2.644
Unconfined Compression	Unconfined Compressive Strength q _u kN/m ²	-	-	-	-	-
	Failure Strain ϵ_f %	-	-	-	-	-
	E ₅₀ kN/m ²	-	-	-	-	-
	Sensitivity Ratio	-	-	-	-	-
Direct Shear Test	Cohesion C _{UU} kN/m ²	-	-	-	-	-
	Phi Angle ϕ_{UU} Degree	-	-	-	-	-
Unconsolidated Undrained Triaxial Compression Test	Cohesion C _{UU} kN/m ²	-	-	-	-	-
	Phi Angle ϕ_{UU} Degree	-	-	-	-	-
Consolidated Undrained Triaxial Compression Test (Measurement of Pore Pressure)	Cohesion C' kN/m ²	-	-	-	-	-
	Phi Angle ϕ' Degree	-	-	-	-	-
	Cohesion C kN/m ²	-	-	-	-	-
	Phi Angle ϕ Degree	-	-	-	-	-
Consolidation	Initial Void Ratio e ₀	-	-	-	-	-
	Conso. Yield Stress P _y kN/m ²	-	-	-	-	-
	Compression Index C _c	-	-	-	-	-
Soil Classification (ASTM D 2487 - 06)	Group Symbol	SM (or) SC	SP-SM (or) SP-SC	SC	SC	SC
	Group Name	Silty sand (or) Clayey sand	Poorly graded sand with silt (or) Poorly graded sand with clay (or silty clay)	Clayey sand	Clayey sand	Clayey sand

NOTE

Data used for reference are shown by red color.



SUMMARY OF SOIL TEST RESULTS

Project Name : Geological Survey on the supplement survey for Bago River Bridge Construction Project						
Borehole No. BH-09		Location : Thanlyin Chin Kat Road, Thaketa Township				
Sample No.		P-39	P-46			
Depth (m)		42.00 ~ 42.28	49.00 ~ 49.29	~	~	~
Moisture Content		w	%	20.29	20.29	
Bulk Density		ρ_t	g/cm ³			
Atterberg's Limit	Liquid Limit	WL	%	36.20	-	
	Plastic Limit	WP	%	27.98	-	
	Plasticity Index	IP		8.22	-	
Grain Size Analysis	Gravel, (76.20 ~ 4.75) mm		%	-	-	
	Sand, (4.75 ~ 0.075) mm		%	1.38	88.80	
	Silt, (0.075 ~ 0.005) mm		%	95.42	9.20	
	Clay, (< 0.005 mm)		%	3.20	2.00	
Specific Gravity of Soil		G _s (20°C)		2.708	2.656	
Unconfined Compression	Unconfined Compressive Strength	q _u	kN/m ²	-		
	Failure Strain	ϵ_f	%	-		
	E ₅₀		kN/m ²	-		
	Sensitivity Ratio			-		
Direct Shear Test	Cohesion	C _{UU}	kN/m ²	-		
	Phi Angle	ϕ_{UU}	Degree	-		
Unconsolidated Undrained Triaxial Compression Test	Cohesion	C _{UU}	kN/m ²	-		
	Phi Angle	ϕ_{UU}	Degree	-		
Consolidated Undrained Triaxial Compression Test (Measurement of Pore Pressure)	Cohesion	C'	kN/m ²	-		
	Phi Angle	ϕ'	Degree	-		
	Cohesion	C	kN/m ²	-		
	Phi Angle	ϕ	Degree	-		
Consolidation	Initial Void Ratio	e ₀		-		
	Conso. Yield Stress	P _y	kN/m ²	-		
	Compression Index	C _c		-		
Soil Classification (ASTM D 2487 - 06)	Group Symbol			ML	SP-SM (or) SP-SC	
	Group Name			Silt	Poorly graded sand with silt (or) Poorly graded sadrn with clay (or silty clay)	
NOTE						
Data used for reference are shown by red color.						

SUMMARY OF SOIL TEST RESULTS

Project Name : Geological Survey on the supplement survey for Bago River Bridge Construction Project							
Borehole No. BH-10		Location : Thanlyin Chin Kat Road, Thaketa Township					
Sample No.		T-1	P-3	P-5	P-7	P-10	
Depth (m)		3.00 ~ 3.60	5.00 ~ 5.45	7.00 ~ 7.45	9.00 ~ 9.45	12.00 ~ 12.45	
Moisture Content		w %	33.32	30.98	35.31	35.26	25.37
Bulk Density		ρ_t g/cm ³	1.819 1.840	- -	- -	- -	- -
Atterberg's Limit	Liquid Limit	WL %	28.98	-	25.42	24.30	-
	Plastic Limit	WP %	25.50	-	21.27	19.71	-
	Plasticity Index	IP	3.48	-	4.15	4.59	-
Grain Size Analysis	Gravel, (76.20 ~ 4.75) mm	%	-	-	-	-	-
	Sand, (4.75 ~ 0.075) mm	%	67.38	86.71	80.95	54.74	84.87
	Silt, (0.075 ~ 0.005) mm	%	28.12	7.50	13.95	28.76	7.63
	Clay, (< 0.005 mm)	%	4.50	5.80	5.10	16.50	7.50
Specific Gravity of Soil		G _s (20°C)	2.707	2.673	2.674	2.682	2.692
Unconfined Compression	Unconfined Compressive Strength	q_u kN/m ²	20.1 22.4	- -	- -	- -	- -
		Failure Strain	ϵ_f %	3.11 3.10	- -	- -	- -
	E ₅₀	kN/m ²	1035.9 1143.5	- -	- -	- -	- -
			Sensitivity Ratio	-	-	-	-
	Direct Shear Test	Cohesion	C_{UU} kN/m ²	-	-	-	-
Phi Angle		ϕ_{UU} Degree	-	-	-	-	-
Unconsolidated Undrained Triaxial Compression Test	Cohesion	C_{UU} kN/m ²	-	-	-	-	-
	Phi Angle	ϕ_{UU} Degree	-	-	-	-	-
Consolidated Undrained Triaxial Compression Test (Measurement of Pore Pressure)	Cohesion	C' kN/m ²	-	-	-	-	-
	Phi Angle	ϕ' Degree	-	-	-	-	-
	Cohesion	C kN/m ²	-	-	-	-	-
	Phi Angle	ϕ Degree	-	-	-	-	-
Consolidation	Initial Void Ratio	e_0	0.870	-	-	-	-
	Conso. Yield Stress	P_y kN/m ²	337.7	-	-	-	-
	Compression Index	C_c	0.174	-	-	-	-
Soil Classification (ASTM D 2487 - 06)		Group Symbol	SM	SM (or) SC	SC-SM	SC - SM	SM (or) SC
		Group Name	Silty sand	Silty sand (or) Clayey sand	Silty, clayey sand	Silty, clayey sand	Silty sand (or) Clayey sand
NOTE							
Data used for reference are shown by red color.							

SUMMARY OF SOIL TEST RESULTS

Project Name : Geological Survey on the supplement survey for Bago River Bridge Construction Project

Borehole No. BH-10

Location : Thanlyin Chin Kat Road, Thaketa Township

Sample No.		P-11	P-13	P-15	P-16	P-22
Depth (m)		13.00 ~ 13.45	15.00 ~ 15.45	17.00 ~ 17.45	18.00 ~ 18.45	24.00 ~ 24.45
Moisture Content w %		34.58	26.03	26.16	19.07	28.88
Bulk Density ρ_t g/cm ³		-	-	-	-	-
Atterberg's Limit	Liquid Limit WL %	27.06	20.71	-	-	18.80
	Plastic Limit WP %	23.39	18.09	-	-	16.65
	Plasticity Index IP	3.67	2.62	-	-	2.15
Grain Size Analysis	Gravel, (76.20 ~ 4.75) mm %	-	1.12	-	1.70	-
	Sand, (4.75 ~ 0.075) mm %	51.43	76.11	82.58	88.23	69.07
	Silt, (0.075 ~ 0.005) mm %	40.97	12.97	11.92	4.58	20.83
	Clay, (< 0.005 mm) %	7.60	9.80	5.50	5.50	10.10
Specific Gravity of Soil G _s (20°C)		2.677	2.675	2.674	2.655	2.703
Unconfined Compression	Unconfined Compressive Strength q _u kN/m ²	-	-	-	-	-
	Failure Strain ϵ_f %	-	-	-	-	-
	E ₅₀ kN/m ²	-	-	-	-	-
	Sensitivity Ratio	-	-	-	-	-
Direct Shear Test	Cohesion C _{UU} kN/m ²	-	-	-	-	-
	Phi Angle ϕ_{UU} Degree	-	-	-	-	-
Unconsolidated Undrained Triaxial Compression Test	Cohesion C _{UU} kN/m ²	-	-	-	-	-
	Phi Angle ϕ_{UU} Degree	-	-	-	-	-
Consolidated Undrained Triaxial Compression Test (Measurement of Pore Pressure)	Cohesion C' kN/m ²	-	-	-	-	-
	Phi Angle ϕ' Degree	-	-	-	-	-
	Cohesion C kN/m ²	-	-	-	-	-
	Phi Angle ϕ Degree	-	-	-	-	-
Consolidation	Initial Void Ratio e ₀	-	-	-	-	-
	Conso. Yield Stress P _y kN/m ²	-	-	-	-	-
	Compression Index C _c	-	-	-	-	-
Soil Classification (ASTM D 2487 - 06)	Group Symbol	SM	SM	SM (or) SC	SP - SM (or) SP - SC	SM
	Group Name	Silty sand	Silty sand	Silty sand (or) Clayey sand	Poorly graded sand with silt (or) Poorly graded sand with clay (or silty clay)	Silty sand

NOTE

Data used for reference are shown by red color.

SUMMARY OF SOIL TEST RESULTS

Project Name : Geological Survey on the supplement survey for Bago River Bridge Construction Project

Borehole No. BH-10

Location : Thanlyin Chin Kat Road, Thaketa Township

Sample No.		P-30	P-37	P-41	P-46	
Depth (m)		32.00 ~ 32.45	39.00 ~ 39.43	43.00 ~ 43.32	48.00 ~ 48.35	~
Moisture Content w %		26.40	14.09	23.16	23.42	
Bulk Density ρ_t g/cm ³		-	-	-	-	
Atterberg's Limit	Liquid Limit WL %	31.75	-	26.92	-	
	Plastic Limit WP %	19.85	-	20.18	-	
	Plasticity Index IP	11.90	-	6.74	-	
Grain Size Analysis	Gravel, (76.20 ~ 4.75) mm %	-	6.31	-	-	
	Sand, (4.75 ~ 0.075) mm %	69.98	83.84	56.12	86.88	
	Silt, (0.075 ~ 0.005) mm %	24.42	7.76	41.68	8.92	
	Clay, (< 0.005 mm) %	5.60	2.10	2.20	4.20	
Specific Gravity of Soil G _s (20°C)		2.646	2.647	2.687	2.653	
Unconfined Compression	Unconfined Compressive Strength q _u kN/m ²	-	-	-	-	
	Failure Strain ϵ_f %	-	-	-	-	
	E ₅₀ kN/m ²	-	-	-	-	
	Sensitivity Ratio	-	-	-	-	
Direct Shear Test	Cohesion C _{UU} kN/m ²	-	-	-	-	
	Phi Angle ϕ_{UU} Degree	-	-	-	-	
Unconsolidated Undrained Triaxial Compression Test	Cohesion C _{UU} kN/m ²	-	-	-	-	
	Phi Angle ϕ_{UU} Degree	-	-	-	-	
Consolidated Undrained Triaxial Compression Test (Measurement of Pore Pressure)	Cohesion C' kN/m ²	-	-	-	-	
	Phi Angle ϕ' Degree	-	-	-	-	
	Cohesion C kN/m ²	-	-	-	-	
	Phi Angle ϕ Degree	-	-	-	-	
Consolidation	Initial Void Ratio e ₀	-	-	-	-	
	Conso. Yield Stress P _y kN/m ²	-	-	-	-	
	Compression Index C _c	-	-	-	-	
Soil Classification (ASTM D 2487 - 06)	Group Symbol	SC	SP-SM (or) SP-SC	SC - SM	SM-SC	
	Group Name	Clayey sand	Poorly graded sand with silt (or) Poorly graded sand with clay (or silty clay)	Silty, clayey sand	Silty sand (or) Clayey sand	

NOTE

Data used for reference are shown by red color.



SUMMARY OF SOIL TEST RESULTS

Project Name : Geological Survey on the supplement survey for Bago River Bridge Construction Project							
Borehole No. BH-11			Location : Thanlyin Chin Kat Road, Thaketa Township				
Sample No.			P-1	T-1	T-2	P-4	P-6
Depth (m)			2.00 ~ 2.45	4.00 ~ 4.70	6.00 ~ 6.80	7.00 ~ 7.45	9.00 ~ 9.45
Moisture Content w %			22.92	41.39	39.31	32.01	30.89
Bulk Density ρ_t g/cm ³			-	1.773	1.824	-	-
			-	1.818	1.857	-	-
Atterberg's Limit	Liquid Limit WL %		-	33.55	29.91	26.27	26.32
	Plastic Limit WP %		-	17.59	24.11	22.57	23.28
	Plasticity Index IP		-	15.96	5.80	3.70	3.04
Grain Size Analysis	Gravel, (76.20 ~ 4.75) mm %		6.71	-	-	-	-
	Sand, (4.75 ~ 0.075) mm %		79.57	11.33	46.68	53.94	77.50
	Silt, (0.075 ~ 0.005) mm %		8.13	61.48	36.82	36.86	16.40
	Clay, (< 0.005 mm) %		5.60	27.20	16.50	9.20	6.10
Specific Gravity of Soil G _s (20°C)			2.657	2.694	2.678	2.687	2.680
Unconfined Compression	Unconfined Compressive Strength q _u kN/m ²		-	29.7	28.2	-	-
			-	29.6	32.0	-	-
	Failure Strain ϵ_f %		-	6.85	5.99	-	-
			-	8.00	6.50	-	-
	E ₅₀ kN/m ²		-	555.6	587.7	-	-
		-	522.2	511.9	-	-	
Sensitivity Ratio			-	-	-	-	-
Direct Shear Test	Cohesion C _{UU} kN/m ²		-	-	-	-	-
	Phi Angle ϕ_{UU} Degree		-	-	-	-	-
Unconsolidated Undrained Triaxial Compression Test	Cohesion C _{UU} kN/m ²		-	-	-	-	-
	Phi Angle ϕ_{UU} Degree		-	-	-	-	-
Consolidated Undrained Triaxial Compression Test (Measurement of Pore Pressure)	Cohesion C' kN/m ²		-	-	-	-	-
	Phi Angle ϕ' Degree		-	-	-	-	-
	Cohesion C kN/m ²		-	-	-	-	-
	Phi Angle ϕ Degree		-	-	-	-	-
Consolidation	Initial Void Ratio e ₀		-	0.920	0.930	-	-
	Conso. Yield Stress P _y kN/m ²		-	220.5	278.8	-	-
	Compression Index C _c		-	0.227	0.130	-	-
Soil Classification (ASTM D 2487 - 06)		Group Symbol	SM (or) SC	CL	ML	SM	SM
		Group Name	Silty sand (or) Clayey sand	Lean clay	Sandy silt	Silty sand	Silty sand
NOTE							
Data used for reference are shown by red color.							

SUMMARY OF SOIL TEST RESULTS

Project Name : Geological Survey on the supplement survey for Bago River Bridge Construction Project

Borehole No. BH-11

Location : Thanlyin Chin Kat Road, Thaketa Township

Sample No.		P-8	P-10	P-12	P-14	P-16
Depth (m)		11.00 ~ 11.45	13.00 ~ 13.45	15.00 ~ 15.45	17.00 ~ 17.45	19.00 ~ 19.45
Moisture Content w %		32.40	24.94	27.43	23.03	17.08
Bulk Density ρ_t g/cm ³		-	-	-	-	-
Atterberg's Limit	Liquid Limit WL %	22.70	-	-	-	-
	Plastic Limit WP %	18.79	-	-	-	-
	Plasticity Index IP	3.91	-	-	-	-
Grain Size Analysis	Gravel, (76.20 ~ 4.75) mm %	-	-	-	0.18	4.12
	Sand, (4.75 ~ 0.075) mm %	46.50	65.33	68.35	85.83	86.38
	Silt, (0.075 ~ 0.005) mm %	44.00	27.07	24.65	9.19	6.80
	Clay, (< 0.005 mm) %	9.50	7.60	7.00	4.80	2.70
Specific Gravity of Soil G _s (20°C)		2.695	2.666	2.653	2.665	2.656
Unconfined Compression	Unconfined Compressive Strength q _u kN/m ²	-	-	-	-	-
	Failure Strain ϵ_f %	-	-	-	-	-
	E ₅₀ kN/m ²	-	-	-	-	-
	Sensitivity Ratio	-	-	-	-	-
Direct Shear Test	Cohesion C _{UU} kN/m ²	-	-	-	-	-
	Phi Angle ϕ_{UU} Degree	-	-	-	-	-
Unconsolidated Undrained Triaxial Compression Test	Cohesion C _{UU} kN/m ²	-	-	-	-	-
	Phi Angle ϕ_{UU} Degree	-	-	-	-	-
Consolidated Undrained Triaxial Compression Test (Measurement of Pore Pressure)	Cohesion C' kN/m ²	-	-	-	-	-
	Phi Angle ϕ' Degree	-	-	-	-	-
	Cohesion C kN/m ²	-	-	-	-	-
	Phi Angle ϕ Degree	-	-	-	-	-
Consolidation	Initial Void Ratio e ₀	-	-	-	-	-
	Conso. Yield Stress P _y kN/m ²	-	-	-	-	-
	Compression Index C _c	-	-	-	-	-
Soil Classification (ASTM D 2487 - 06)	Group Symbol	ML	SM (or) SC	SM (or) SC	SM (or) SC	SP - SM (or) SP - SC
	Group Name	Sandy silt	Silty sand (or) Clayey sand	Silty sand (or) Clayey sand	Silty sand (or) Clayey sand	Poorly graded sand with silt (or) Poorly graded sand with silt (or silty clay)

NOTE

Data used for reference are shown by red color.

SUMMARY OF SOIL TEST RESULTS

Project Name : Geological Survey on the supplement survey for Bago River Bridge Construction Project

Borehole No. BH-11

Location : Thanlyin Chin Kat Road, Thaketa Township

Sample No.		P-21	P-30	P-34	P-39	P-46
Depth (m)		24.00 ~ 24.45	33.00 ~ 33.45	37.00 ~ 37.35	42.00 ~ 42.30	49.00 ~ 49.28
Moisture Content w %		25.54	17.98	11.50	32.67	24.79
Bulk Density ρ_t g/cm ³		-	-	-	-	-
Atterberg's Limit	Liquid Limit WL %	-	-	-	39.52	27.74
	Plastic Limit WP %	-	-	-	26.86	22.18
	Plasticity Index IP	-	-	-	12.66	5.56
Grain Size Analysis	Gravel, (76.20 ~ 4.75) mm %	-	-	22.03	-	-
	Sand, (4.75 ~ 0.075) mm %	82.40	83.57	66.13	36.18	62.13
	Silt, (0.075 ~ 0.005) mm %	12.30	8.53	9.85	59.72	33.87
	Clay, (< 0.005 mm) %	5.30	7.90	2.00	4.10	4.00
Specific Gravity of Soil G _s (20°C)		2.674	2.645	2.639	2.676	2.702
Unconfined Compression	Unconfined Compressive Strength q _u kN/m ²	-	-	-	-	-
	Failure Strain ϵ_f %	-	-	-	-	-
	E ₅₀ kN/m ²	-	-	-	-	-
	Sensitivity Ratio	-	-	-	-	-
Direct Shear Test	Cohesion C _{UU} kN/m ²	-	-	-	-	-
	Phi Angle ϕ_{UU} Degree	-	-	-	-	-
Unconsolidated Undrained Triaxial Compression Test	Cohesion C _{UU} kN/m ²	-	-	-	-	-
	Phi Angle ϕ_{UU} Degree	-	-	-	-	-
Consolidated Undrained Triaxial Compression Test (Measurement of Pore Pressure)	Cohesion C' kN/m ²	-	-	-	-	-
	Phi Angle ϕ' Degree	-	-	-	-	-
	Cohesion C kN/m ²	-	-	-	-	-
	Phi Angle ϕ Degree	-	-	-	-	-
Consolidation	Initial Void Ratio e ₀	-	-	-	-	-
	Conso. Yield Stress P _y kN/m ²	-	-	-	-	-
	Compression Index C _c	-	-	-	-	-
Soil Classification (ASTM D 2487 - 06)	Group Symbol	SM (or) SC	SM (or) SC	SP-SM (or) SP-SC	ML	SM
	Group Name	Silty sand (or) Clayey sand	Silty sand (or) Clayey sand	Poorly graded sand with silt and gravel (or) Poorly graded sand with clay and gravel (or silty clay and gravel)	Sandy silt	Silty sand

NOTE

Data used for reference are shown by red color.

SUMMARY OF SOIL TEST RESULTS

Project Name : Geological Survey on the supplement survey for Bago River Bridge Construction Project							
Borehole No. BH-12			Location : Thanlyin Chin Kat Road, Thaketa Township				
Sample No.			T-1	P-2	P-4	P-6	P-7
Depth (m)			4.00 ~ 4.80	5.00 ~ 5.45	7.00 ~ 7.45	9.00 ~ 9.45	10.00 ~ 10.45
Moisture Content w %			54.44	41.08	35.68	29.32	37.80
Bulk Density ρ_t g/cm ³			1.803 1.793	- -	- -	- -	- -
Atterberg's Limit	Liquid Limit WL %		55.55	-	23.43	27.08	27.68
	Plastic Limit WP %		22.34	-	19.30	24.59	16.52
	Plasticity Index IP		33.21	-	4.13	2.49	11.16
Grain Size Analysis	Gravel, (76.20 ~ 4.75) mm %		-	-	-	-	-
	Sand, (4.75 ~ 0.075) mm %		0.15	12.28	45.86	73.62	54.92
	Silt, (0.075 ~ 0.005) mm %		55.75	57.23	43.14	20.68	37.38
	Clay, (< 0.005 mm) %		44.10	30.50	11.00	5.70	7.70
Specific Gravity of Soil G _s (20°C)			2.694	2.705	2.697	2.697	2.685
Unconfined Compression	Unconfined Compressive Strength q _u kN/m ²		43.2 44.6	- -	- -	- -	- -
		Failure Strain ϵ_f %		13.46 13.10	- -	- -	- -
	E ₅₀		1042.7 1021.8	- -	- -	- -	- -
		Sensitivity Ratio		3.60	-	-	-
	Direct Shear Test	Cohesion C _{UU} kN/m ²		-	-	-	-
Phi Angle ϕ_{UU} Degree			-	-	-	-	-
Unconsolidated Undrained Triaxial Compression Test	Cohesion C _{UU} kN/m ²		-	-	-	-	-
	Phi Angle ϕ_{UU} Degree		-	-	-	-	-
Consolidated Undrained Triaxial Compression Test (Measurement of Pore Pressure)	Cohesion C' kN/m ²		-	-	-	-	-
	Phi Angle ϕ' Degree		-	-	-	-	-
	Cohesion C kN/m ²		-	-	-	-	-
	Phi Angle ϕ Degree		-	-	-	-	-
Consolidation	Initial Void Ratio e ₀		1.230	-	-	-	-
	Conso. Yield Stress P _y kN/m ²		75.903	-	-	-	-
	Compression Index C _c		0.379	-	-	-	-
Soil Classification (ASTM D 2487 - 06)		Group Symbol	CH	F	CL - ML	SM	SC
		Group Name	Fat clay	Fine grained soil	Sandy silty clay	Silty sand	Clayey sand
NOTE							
Data used for reference are shown by red color.							

SUMMARY OF SOIL TEST RESULTS

Project Name : Geological Survey on the supplement survey for Bago River Bridge Construction Project

Borehole No. BH-12

Location : Thanlyin Chin Kat Road, Thaketa Township

Sample No.		P-9	P-11	P-12	P-14	P-16	
Depth (m)		12.00 ~ 12.45	14.00 ~ 14.45	15.00 ~ 15.45	17.00 ~ 17.45	19.00 ~ 19.45	
Moisture Content w %		35.18	39.06	41.96	28.85	30.09	
Bulk Density ρ_t g/cm ³		-	-	-	-	-	
Atterberg's Limit	Liquid Limit WL %	29.70	34.25	32.82	20.33	-	
	Plastic Limit WP %	23.27	21.16	20.29	17.10	-	
	Plasticity Index IP	6.43	13.09	12.53	3.23	-	
Grain Size Analysis	Gravel, (76.20 ~ 4.75) mm %	-	-	-	2.04	-	
	Sand, (4.75 ~ 0.075) mm %	16.54	14.48	19.34	70.50	84.19	
	Silt, (0.075 ~ 0.005) mm %	71.56	66.32	60.56	17.96	11.61	
	Clay, (< 0.005 mm) %	11.90	19.20	20.10	9.50	4.20	
Specific Gravity of Soil G _s (20°C)		2.685	2.675	2.704	2.683	2.667	
Unconfined Compression	Unconfined Compressive Strength q _u kN/m ²	-	-	-	-	-	
	Failure Strain ϵ_f %	-	-	-	-	-	
	E ₅₀ kN/m ²	-	-	-	-	-	
	Sensitivity Ratio	-	-	-	-	-	
Direct Shear Test	Cohesion C _{UU} kN/m ²	-	-	-	-	-	
	Phi Angle ϕ_{UU} Degree	-	-	-	-	-	
Unconsolidated Undrained Triaxial Compression Test	Cohesion C _{UU} kN/m ²	-	-	-	-	-	
	Phi Angle ϕ_{UU} Degree	-	-	-	-	-	
Consolidated Undrained Triaxial Compression Test (Measurement of Pore Pressure)	Cohesion C' kN/m ²	-	-	-	-	-	
	Phi Angle ϕ' Degree	-	-	-	-	-	
	Cohesion C kN/m ²	-	-	-	-	-	
	Phi Angle ϕ Degree	-	-	-	-	-	
Consolidation	Initial Void Ratio e ₀	-	-	-	-	-	
	Conso. Yield Stress P _y kN/m ²	-	-	-	-	-	
	Compression Index C _c	-	-	-	-	-	
Soil Classification (ASTM D 2487 - 06)		Group Symbol	ML	CL	CL	SM	SM (or) SC
		Group Name	Silt with sand	Lean clay	Lean clay with sand	Silty sand	Silty sand (or) Clayey sand

NOTE

Data used for reference are shown by red color.



SUMMARY OF SOIL TEST RESULTS

Project Name : Geological Survey on the supplement survey for Bago River Bridge Construction Project

Borehole No. BH-12

Location : Thanlyin Chin Kat Road, Thaketa Township

Sample No.		P-21	P-34	P-42		
Depth (m)		24.00 ~ 24.45	37.00 ~ 37.45	45.00 ~ 45.38	~	~
Moisture Content w %		23.64	29.60	27.63		
Bulk Density ρ_t g/cm ³		-	-	-		
Atterberg's Limit	Liquid Limit WL %	-	30.69	29.38		
	Plastic Limit WP %	-	25.00	24.13		
	Plasticity Index IP	-	5.69	5.25		
Grain Size Analysis	Gravel, (76.20 ~ 4.75) mm %	-	-	-		
	Sand, (4.75 ~ 0.075) mm %	88.38	83.77	82.08		
	Silt, (0.075 ~ 0.005) mm %	5.62	11.03	14.22		
	Clay, (< 0.005 mm) %	6.00	5.20	3.70		
Specific Gravity of Soil G _s (20°C)		2.658	2.657	2.658		
Unconfined Compression	Unconfined Compressive Strength q _u kN/m ²	-	-	-		
	Failure Strain ϵ_f %	-	-	-		
	E ₅₀ kN/m ²	-	-	-		
	Sensitivity Ratio	-	-	-		
Direct Shear Test	Cohesion C _{UU} kN/m ²	-	-	-		
	Phi Angle ϕ_{UU} Degree	-	-	-		
Unconsolidated Undrained Triaxial Compression Test	Cohesion C _{UU} kN/m ²	-	-	-		
	Phi Angle ϕ_{UU} Degree	-	-	-		
Consolidated Undrained Triaxial Compression Test (Measurement of Pore Pressure)	Cohesion C' kN/m ²	-	-	-		
	Phi Angle ϕ' Degree	-	-	-		
	Cohesion C kN/m ²	-	-	-		
	Phi Angle ϕ Degree	-	-	-		
Consolidation	Initial Void Ratio e ₀	-	-	-		
	Conso. Yield Stress P _y kN/m ²	-	-	-		
	Compression Index C _c	-	-	-		
Soil Classification (ASTM D 2487 - 06)	Group Symbol	SP-SM (or) SP-SC	SM	SM		
	Group Name	Poorly graded sand with silt (or) Poorly graded sand with clay (or silty clay)	Silty sand	Silty sand		

NOTE

Data used for reference are shown by red color.

SUMMARY OF SOIL TEST RESULTS

Project Name : Geological Survey on the supplement survey for Bago River Bridge Construction Project								
Borehole No. BH-13		Location : Thanlyin Chin Kat Road, Thaketa Township						
Sample No.		P-1	D-1	P-3	P-5	P-6		
Depth (m)		2.00 ~ 2.45	3.00 ~ 3.80	5.00 ~ 5.45	7.00 ~ 7.45	8.00 ~ 8.45		
Moisture Content		w	%	29.50	32.56	26.44	32.70	24.45
Bulk Density		ρ_t	g/cm ³	-	1.869	-	-	-
				-	1.879	-	-	-
Atterberg's Limit	Liquid Limit	WL	%	-	34.80	-	21.23	-
	Plastic Limit	WP	%	-	21.49	-	18.65	-
	Plasticity Index	IP		-	13.31	-	2.58	-
Grain Size Analysis	Gravel, (76.20 ~ 4.75) mm		%	-	-	-	-	-
	Sand, (4.75 ~ 0.075) mm		%	4.72	8.53	64.28	66.90	77.55
	Silt, (0.075 ~ 0.005) mm		%	65.48	74.18	28.52	21.30	15.45
	Clay, (< 0.005 mm)		%	29.80	17.30	7.20	11.80	7.00
Specific Gravity of Soil		G _s	(20°C)	2.701	2.691	2.684	2.693	2.681
Unconfined Compression	Unconfined Compressive Strength	q _u	kN/m ²	-	58.2	-	-	-
				-	54.6	-	-	-
	Failure Strain	ϵ_f	%	-	6.86	-	-	-
				-	5.70	-	-	-
	E ₅₀		kN/m ²	-	1293.8	-	-	-
-				1326.2	-	-	-	
Sensitivity Ratio				-	2.547	-	-	-
Direct Shear Test	Cohesion	C _{UU}	kN/m ²	-	-	-	-	-
	Phi Angle	ϕ_{UU}	Degree	-	-	-	-	-
Unconsolidated Undrained Triaxial Compression Test	Cohesion	C _{UU}	kN/m ²	-	-	-	-	-
	Phi Angle	ϕ_{UU}	Degree	-	-	-	-	-
Consolidated Undrained Triaxial Compression Test (Measurement of Pore Pressure)	Cohesion	C'	kN/m ²	-	-	-	-	-
	Phi Angle	ϕ'	Degree	-	-	-	-	-
	Cohesion	C	kN/m ²	-	-	-	-	-
	Phi Angle	ϕ	Degree	-	-	-	-	-
Consolidation	Initial Void Ratio	e ₀		-	1.000	-	-	-
	Conso. Yield Stress	P _y	kN/m ²	-	171.4	-	-	-
	Compression Index	C _c		-	0.279	-	-	-
Soil Classification (ASTM D 2487 - 06)		Group Symbol		F	CL	SM (or) SC	SM	SM (or) SC
		Group Name		Fine grained soil	Lean clay	Silty sand (or) Clayey sand	Silty sand	Silty sand (or) Clayey sand
NOTE								
Data used for reference are shown by red color.								

SUMMARY OF SOIL TEST RESULTS

Project Name : Geological Survey on the supplement survey for Bago River Bridge Construction Project

Borehole No. BH-13

Location : Thanlyin Chin Kat Road, Thaketa Township

Sample No.		P-8	P-10	P-12	P-14	P-17
Depth (m)		10.00 ~ 10.45	12.00 ~ 12.45	14.00 ~ 14.45	16.00 ~ 16.45	19.00 ~ 19.45
Moisture Content w %		27.59	35.22	28.59	37.93	29.42
Bulk Density ρ_t g/cm ³		-	-	-	-	-
Atterberg's Limit	Liquid Limit WL %	-	31.55	-	34.65	-
	Plastic Limit WP %	-	22.39	-	23.11	-
	Plasticity Index IP	-	9.16	-	11.54	-
Grain Size Analysis	Gravel, (76.20 ~ 4.75) mm %	-	-	-	-	-
	Sand, (4.75 ~ 0.075) mm %	83.35	15.70	73.97	14.23	78.05
	Silt, (0.075 ~ 0.005) mm %	9.65	61.30	18.83	65.68	15.15
	Clay, (< 0.005 mm) %	7.00	23.00	7.20	20.10	6.80
Specific Gravity of Soil G _s (20°C)		2.674	2.669	2.669	2.668	2.663
Unconfined Compression	Unconfined Compressive Strength q _u kN/m ²	-	-	-	-	-
	Failure Strain ϵ_f %	-	-	-	-	-
	E ₅₀ kN/m ²	-	-	-	-	-
	Sensitivity Ratio	-	-	-	-	-
Direct Shear Test	Cohesion C _{UU} kN/m ²	-	-	-	-	-
	Phi Angle ϕ_{UU} Degree	-	-	-	-	-
Unconsolidated Undrained Triaxial Compression Test	Cohesion C _{UU} kN/m ²	-	-	-	-	-
	Phi Angle ϕ_{UU} Degree	-	-	-	-	-
Consolidated Undrained Triaxial Compression Test (Measurement of Pore Pressure)	Cohesion C' kN/m ²	-	-	-	-	-
	Phi Angle ϕ' Degree	-	-	-	-	-
	Cohesion C kN/m ²	-	-	-	-	-
	Phi Angle ϕ Degree	-	-	-	-	-
Consolidation	Initial Void Ratio e ₀	-	-	-	-	-
	Conso. Yield Stress P _y kN/m ²	-	-	-	-	-
	Compression Index C _c	-	-	-	-	-
Soil Classification (ASTM D 2487 - 06)	Group Symbol	SM (or) SC	CL	SM (or) SC	CL	SM (or) SC
	Group Name	Silty sand (or) Clayey sand	Lean clay with sand	Silty sand (or) Clayey sand	Lean clay	Silty sand (or) Clayey sand

NOTE

Data used for reference are shown by red color.

SUMMARY OF SOIL TEST RESULTS

Project Name : Geological Survey on the supplement survey for Bago River Bridge Construction Project

Borehole No. BH-13

Location : Thanlyin Chin Kat Road, Thaketa Township

Sample No.		P-25	P-30	P-37		
Depth (m)		27.00 ~ 27.45	32.00 ~ 32.45	39.00 ~ 39.30	~	~
Moisture Content w %		24.59	26.58	28.32		
Bulk Density ρ_t g/cm ³		-	-	-		
Atterberg's Limit	Liquid Limit WL %	-	-	30.80		
	Plastic Limit WP %	-	-	26.71		
	Plasticity Index IP	-	-	4.09		
Grain Size Analysis	Gravel, (76.20 ~ 4.75) mm %	0.56	-	-		
	Sand, (4.75 ~ 0.075) mm %	79.94	70.42	86.47		
	Silt, (0.075 ~ 0.005) mm %	13.61	22.38	11.43		
	Clay, (< 0.005 mm) %	5.90	7.20	2.10		
Specific Gravity of Soil G _s (20°C)		2.667	2.663	2.663		
Unconfined Compression	Unconfined Compressive Strength q _u kN/m ²	-	-	-		
	Failure Strain ϵ_f %	-	-	-		
	E ₅₀ kN/m ²	-	-	-		
	Sensitivity Ratio	-	-	-		
Direct Shear Test	Cohesion C _{UU} kN/m ²	-	-	-		
	Phi Angle ϕ_{UU} Degree	-	-	-		
Unconsolidated Undrained Triaxial Compression Test	Cohesion C _{UU} kN/m ²	-	-	-		
	Phi Angle ϕ_{UU} Degree	-	-	-		
Consolidated Undrained Triaxial Compression Test (Measurement of Pore Pressure)	Cohesion C' kN/m ²	-	-	-		
	Phi Angle ϕ' Degree	-	-	-		
	Cohesion C kN/m ²	-	-	-		
	Phi Angle ϕ Degree	-	-	-		
Consolidation	Initial Void Ratio e ₀	-	-	-		
	Conso. Yield Stress P _y kN/m ²	-	-	-		
	Compression Index C _c	-	-	-		
Soil Classification (ASTM D 2487 - 06)		Group Symbol	SM (or) SC	SM (or) SC	SM	
		Group Name	Silty sand (or) Clayey sand	Silty sand (or) Clayey sand	Silty sand	

NOTE

Data used for reference are shown by red color.

SUMMARY OF SOIL TEST RESULTS

Project Name : Geological Survey on the supplement survey for Bago River Bridge Construction Project							
Borehole No. BH-14			Location : Thanlyin Chin Kat Road, Thaketa Township				
Sample No.			A-1	T-1	P-3	P-5	P-7
Depth (m)			1.00 ~ 1.50	3.00 ~ 3.70	5.00 ~ 5.45	7.00 ~ 7.45	9.00 ~ 9.45
Moisture Content w %			29.48	33.28	27.51	32.89	28.30
Bulk Density ρ_t g/cm ³			- -	1.897 1.921	- -	- -	- -
Atterberg's Limit	Liquid Limit WL %		37.00	34.35	-	24.93	28.02
	Plastic Limit WP %		17.48	22.07	-	22.54	26.43
	Plasticity Index IP		19.52	12.28	-	2.39	1.59
Grain Size Analysis	Gravel, (76.20 ~ 4.75) mm %		-	-	-	-	-
	Sand, (4.75 ~ 0.075) mm %		30.80	3.83	74.25	65.54	76.70
	Silt, (0.075 ~ 0.005) mm %		47.70	72.98	19.05	20.26	17.80
	Clay, (< 0.005 mm) %		21.50	23.20	6.70	14.20	5.50
Specific Gravity of Soil G _s (20°C)			2.683	2.695	2.675	2.682	2.692
Unconfined Compression	Unconfined Compressive Strength q _u kN/m ²		-	88.6	-	-	-
			-	96.5	-	-	-
	Failure Strain ϵ_f %		-	4.82	-	-	-
			-	4.60	-	-	-
	E ₅₀ kN/m ²		-	2419.8	-	-	-
		-	2144.9	-	-	-	
Sensitivity Ratio			-	3.174	-	-	-
Direct Shear Test	Cohesion C _{UU} kN/m ²		-	-	-	-	-
	Phi Angle ϕ_{UU} Degree		-	-	-	-	-
Unconsolidated Undrained Triaxial Compression Test	Cohesion C _{UU} kN/m ²		-	-	-	-	-
	Phi Angle ϕ_{UU} Degree		-	-	-	-	-
Consolidated Undrained Triaxial Compression Test (Measurement of Pore Pressure)	Cohesion C' kN/m ²		-	-	-	-	-
	Phi Angle ϕ' Degree		-	-	-	-	-
	Cohesion C kN/m ²		-	-	-	-	-
	Phi Angle ϕ Degree		-	-	-	-	-
Consolidation	Initial Void Ratio e ₀		-	0.940	-	-	-
	Conso. Yield Stress P _y kN/m ²		-	261.4	-	-	-
	Compression Index C _c		-	0.257	-	-	-
Soil Classification (ASTM D 2487 - 06)		Group Symbol	CL	CL	SM (or) SC	SM	SM
		Group Name	Sandy lean clay	Lean clay	Silty sand (or) Clayey sand	Silty sand	Silty sand
NOTE							
Data used for reference are shown by red color.							

SUMMARY OF SOIL TEST RESULTS

Project Name : Geological Survey on the supplement survey for Bago River Bridge Construction Project

Borehole No. BH-14

Location : Thanlyin Chin Kat Road, Thaketa Township

Sample No.		P-9	P-11	P-13	P-15	P-17
Depth (m)		11.00 ~ 11.45	13.00 ~ 13.45	15.00 ~ 15.45	17.00 ~ 17.45	19.00 ~ 19.45
Moisture Content w %		31.50	33.78	25.98	27.05	19.53
Bulk Density ρ_t g/cm ³		-	-	-	-	-
Atterberg's Limit	Liquid Limit WL %	-	30.50	-	-	-
	Plastic Limit WP %	-	23.16	-	-	-
	Plasticity Index IP	-	7.34	-	-	-
Grain Size Analysis	Gravel, (76.20 ~ 4.75) mm %	-	-	-	-	0.38
	Sand, (4.75 ~ 0.075) mm %	52.94	25.92	64.93	83.16	89.15
	Silt, (0.075 ~ 0.005) mm %	32.26	56.08	20.37	7.24	4.47
	Clay, (< 0.005 mm) %	14.80	18.00	14.70	9.60	6.00
Specific Gravity of Soil G _s (20°C)		2.694	2.678	2.673	2.665	2.648
Unconfined Compression	Unconfined Compressive Strength q _u kN/m ²	-	-	-	-	-
	Failure Strain ϵ_f %	-	-	-	-	-
	E ₅₀ kN/m ²	-	-	-	-	-
	Sensitivity Ratio	-	-	-	-	-
Direct Shear Test	Cohesion C _{UU} kN/m ²	-	-	-	-	-
	Phi Angle ϕ_{UU} Degree	-	-	-	-	-
Unconsolidated Undrained Triaxial Compression Test	Cohesion C _{UU} kN/m ²	-	-	-	-	-
	Phi Angle ϕ_{UU} Degree	-	-	-	-	-
Consolidated Undrained Triaxial Compression Test (Measurement of Pore Pressure)	Cohesion C' kN/m ²	-	-	-	-	-
	Phi Angle ϕ' Degree	-	-	-	-	-
	Cohesion C kN/m ²	-	-	-	-	-
	Phi Angle ϕ Degree	-	-	-	-	-
Consolidation	Initial Void Ratio e ₀	-	-	-	-	-
	Conso. Yield Stress P _y kN/m ²	-	-	-	-	-
	Compression Index C _c	-	-	-	-	-
Soil Classification (ASTM D 2487 - 06)	Group Symbol	SM (or) SC	ML	SM (or) SC	SM (or) SC	SP-SM (or) SP-SC
	Group Name	Silty sand (or) Clayey sand	Silt with sand	Silty sand (or) Clayey sand	Silty sand (or) Clayey sand	Poorly graded sand with silt (or) Poorly graded sand with clay (or silty clay)

NOTE

Data used for reference are shown by red color.

SUMMARY OF SOIL TEST RESULTS

Project Name : Geological Survey on the supplement survey for Bago River Bridge Construction Project

Borehole No. BH-14

Location : Thanlyin Chin Kat Road, Thaketa Township

Sample No.		P-24	P-34	P-38		
Depth (m)		26.00 ~ 26.45	36.00 ~ 36.45	40.00 ~ 40.43	~	~
Moisture Content w %		26.82	30.29	22.73		
Bulk Density ρ_t g/cm ³		-	-	-		
Atterberg's Limit	Liquid Limit WL %	-	25.65	-		
	Plastic Limit WP %	-	17.26	-		
	Plasticity Index IP	-	8.39	-		
Grain Size Analysis	Gravel, (76.20 ~ 4.75) mm %	-	-	-		
	Sand, (4.75 ~ 0.075) mm %	88.53	42.14	82.97		
	Silt, (0.075 ~ 0.005) mm %	4.97	42.66	11.33		
	Clay, (< 0.005 mm) %	6.50	15.20	5.70		
Specific Gravity of Soil G _s (20°C)		2.687	2.683	2.657		
Unconfined Compression	Unconfined Compressive Strength q _u kN/m ²	-	-	-		
	Failure Strain ϵ_f %	-	-	-		
	E ₅₀ kN/m ²	-	-	-		
	Sensitivity Ratio	-	-	-		
Direct Shear Test	Cohesion C _{UU} kN/m ²	-	-	-		
	Phi Angle ϕ_{UU} Degree	-	-	-		
Unconsolidated Undrained Triaxial Compression Test	Cohesion C _{UU} kN/m ²	-	-	-		
	Phi Angle ϕ_{UU} Degree	-	-	-		
Consolidated Undrained Triaxial Compression Test (Measurement of Pore Pressure)	Cohesion C' kN/m ²	-	-	-		
	Phi Angle ϕ' Degree	-	-	-		
	Cohesion C kN/m ²	-	-	-		
	Phi Angle ϕ Degree	-	-	-		
Consolidation	Initial Void Ratio e ₀	-	-	-		
	Conso. Yield Stress P _y kN/m ²	-	-	-		
	Compression Index C _c	-	-	-		
Soil Classification (ASTM D 2487 - 06)	Group Symbol	SP-SM (or) SP-SC	CL	SM (or) SC		
	Group Name	Poorly graded sand with silt (or) Poorly graded sand with clay (or silty clay)	Sandy lean clay	Silty sand (or) Clayey sand		

NOTE

Data used for reference are shown by red color.

4. SOIL PROPERTY CHARTS

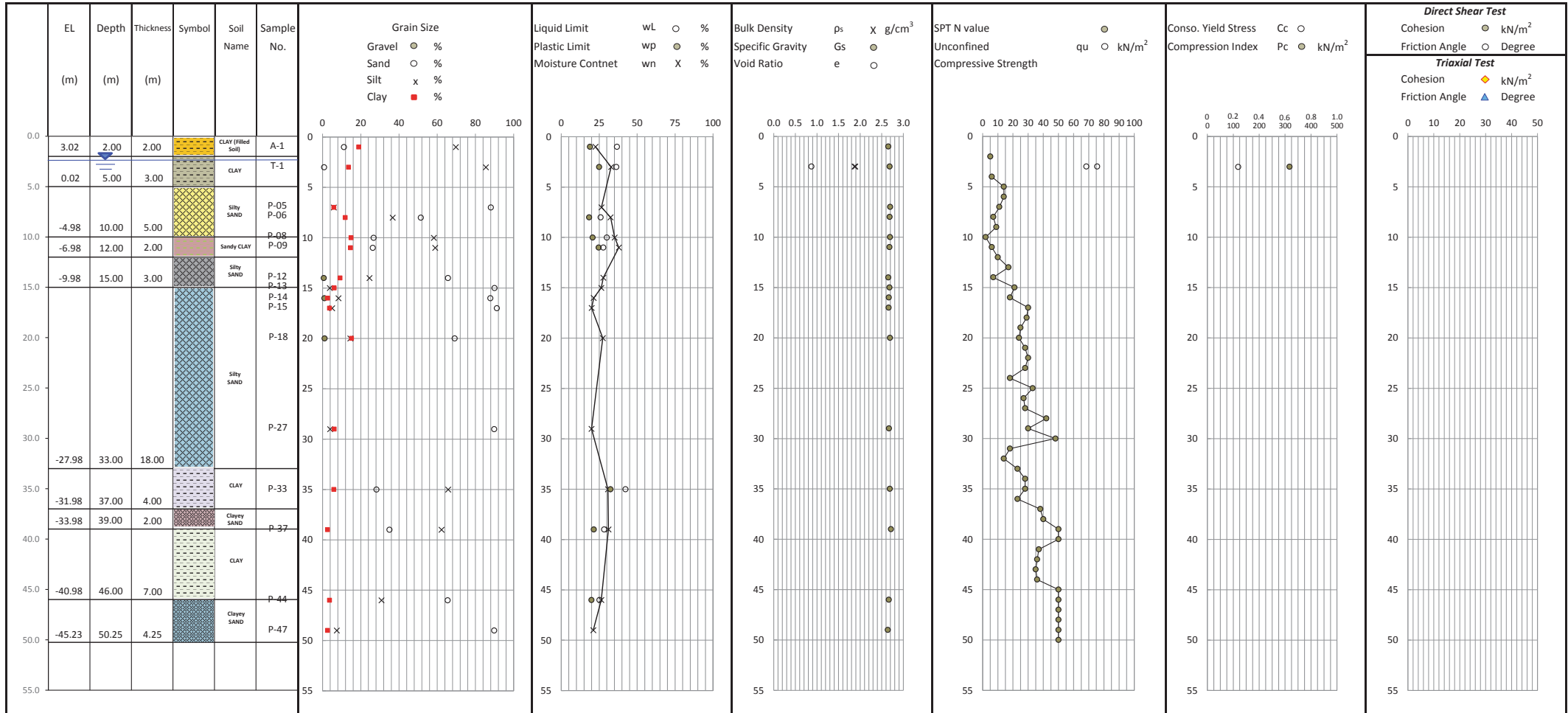
Soil Property Chart

PROJECT NAME : GEOLOGICAL SURVEY ON THE SUPPLEMENT SURVEY FOR BAGO RIVER BRIDGE CONSTRUCTION PROJECT
LOCATION : THANLYIN CHIN KAT ROAD, THAKETA TOWNSHIP.

BH-No. : BH-01

BH Elevation : EL: 5.02m

Water Table : 2.50m



Water table was measured after cleaning the hole

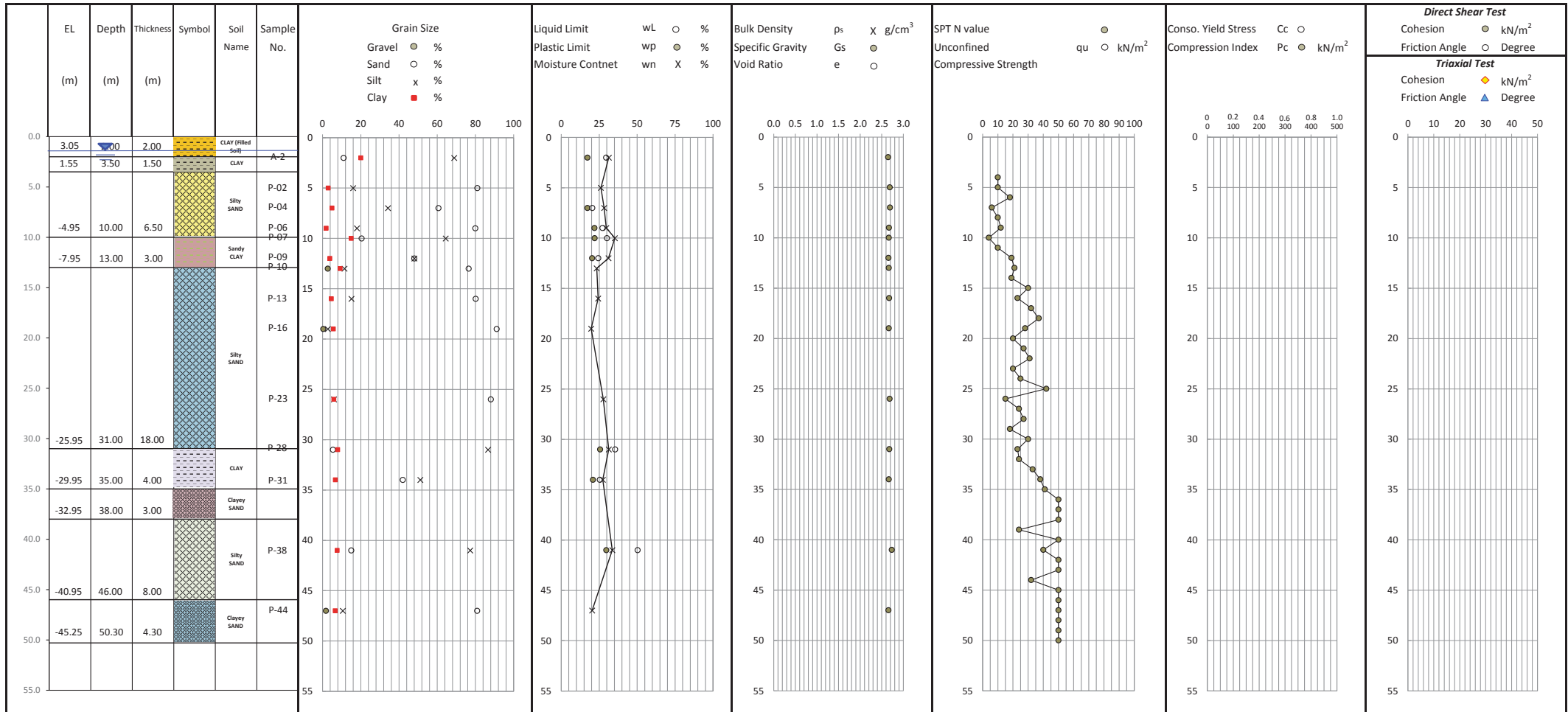
Soil Property Chart

PROJECT NAME : GEOLOGICAL SURVEY ON THE SUPPLEMENT SURVEY FOR BAGO RIVER BRIDGE CONSTRUCTION PROJECT
LOCATION : THANLYIN CHIN KAT ROAD, THAKETA TOWNSHIP.

BH-No. : BH-02

BH Elevation : EL: 5.05m

Water Table : 1.50m



Water table was measured after cleaning the hole

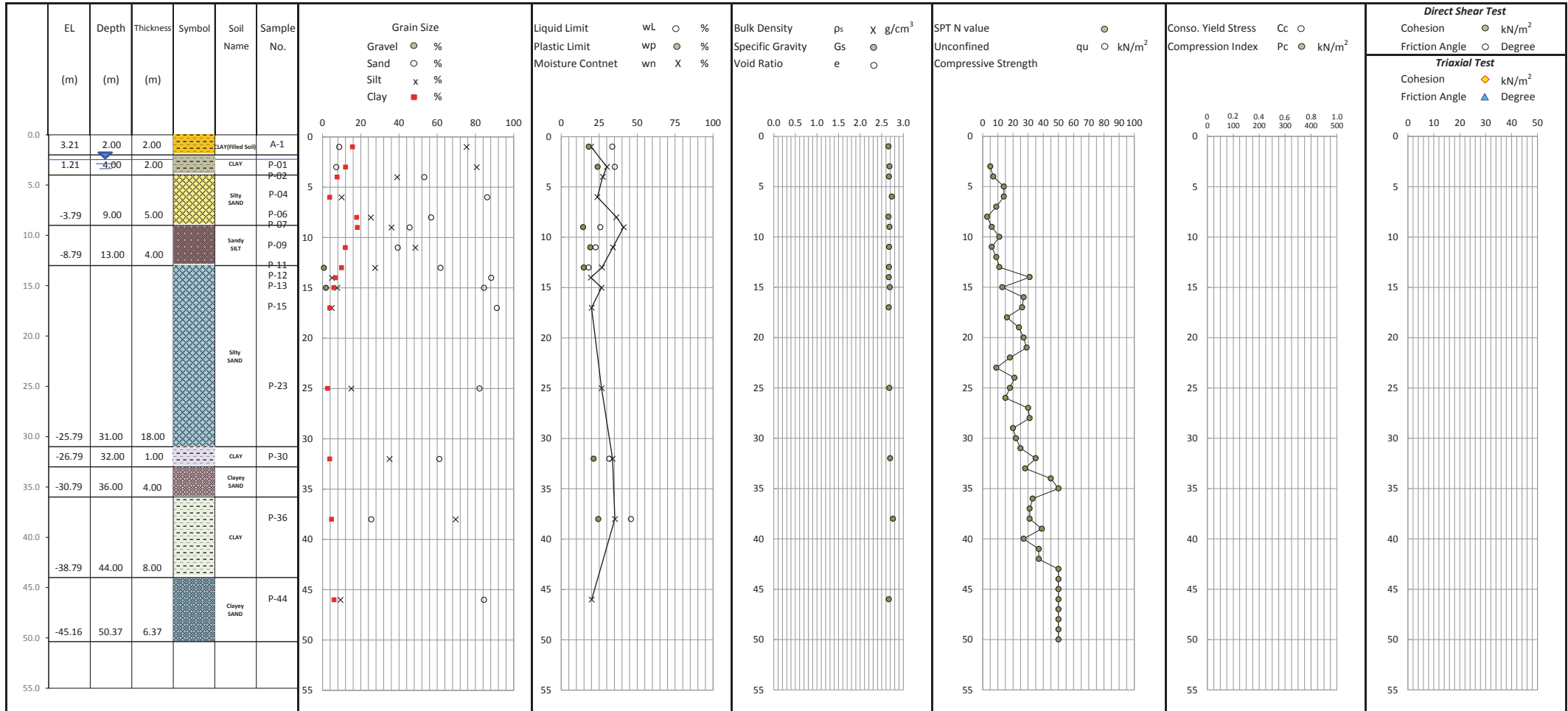
Soil Property Chart

PROJECT NAME : GEOLOGICAL SURVEY ON THE SUPPLEMENTAL SURVEY FOR BAGO RIVER BRIDGE CONSTRUCTION PROJECT
LOCATION : THANLYIN CHIN KAT ROAD, THAKETA TOWNSHIP.

BH-No. : BH-03

BH Elevation : EL: 5.21m

Water Table : 2.50m



✂ Water table was measured after cleaning the hole

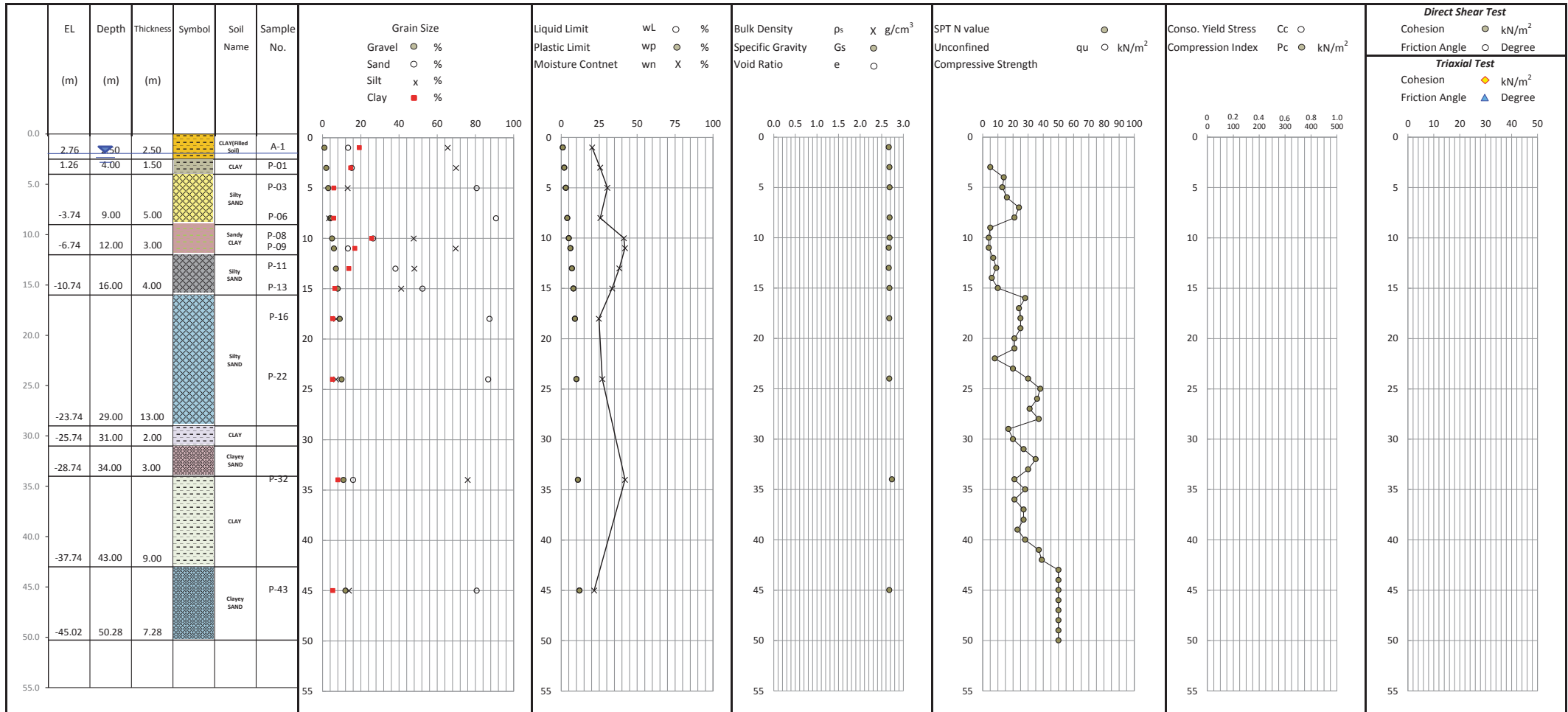
Soil Property Chart

PROJECT NAME : GEOLOGICAL SURVEY ON THE SUPPLEMENT SURVEY FOR BAGO RIVER BRIDGE CONSTRUCTION PROJECT
LOCATION : THANLYIN CHIN KAT ROAD, THAKETA TOWNSHIP.

BH-No. : BH-04

BH Elevation : EL: 5.26m

Water Table : 2.00m



Water table was measured after cleaning the hole

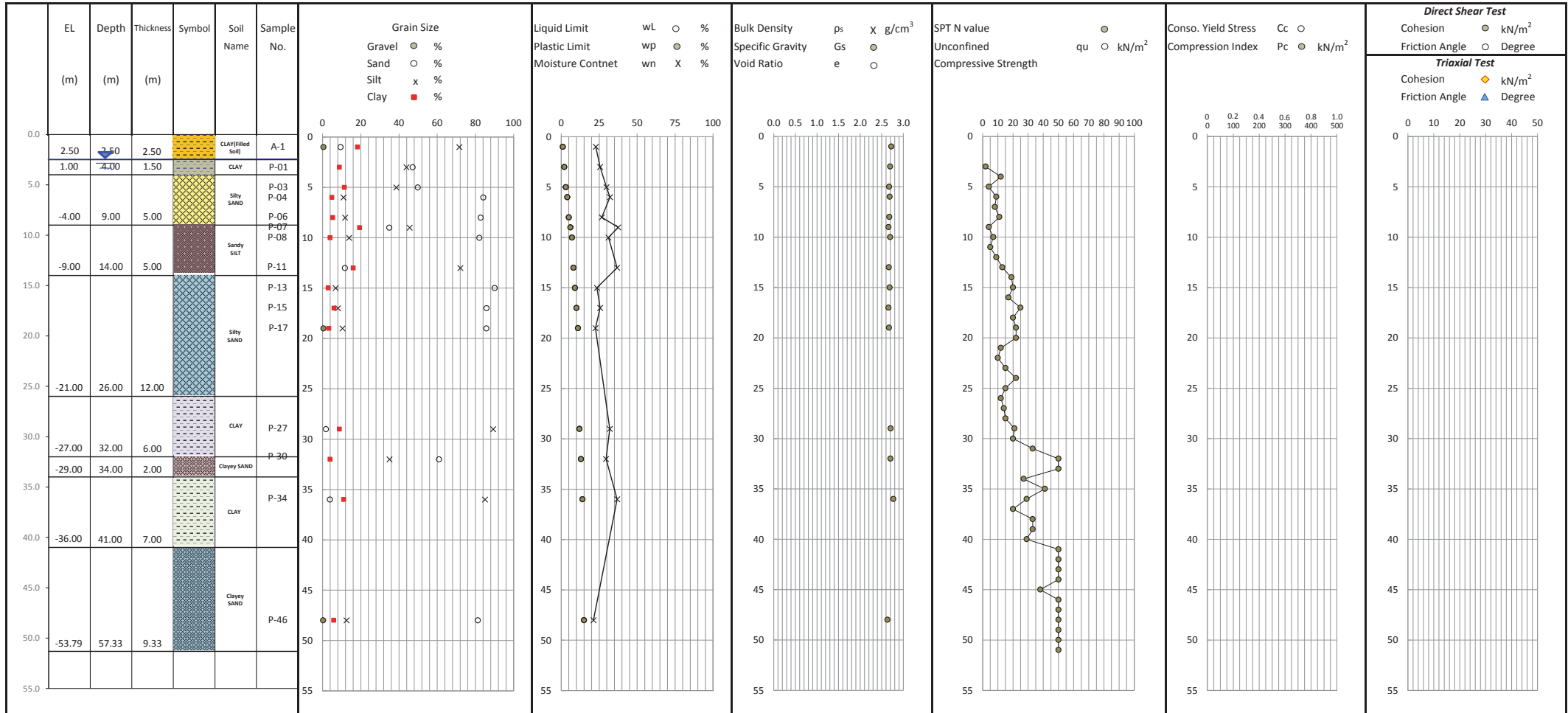
Soil Property Chart

PROJECT NAME : GEOLOGICAL SURVEY ON THE SUPPLEMENT SURVEY FOR BAGO RIVER BRIDGE CONSTRUCTION PROJECT
LOCATION : THANLYIN CHIN KAT ROAD, THAKETA TOWNSHIP.

BH-No. : BH-05

BH Elevation : EL: 5.00m

Water Table : 2.50m



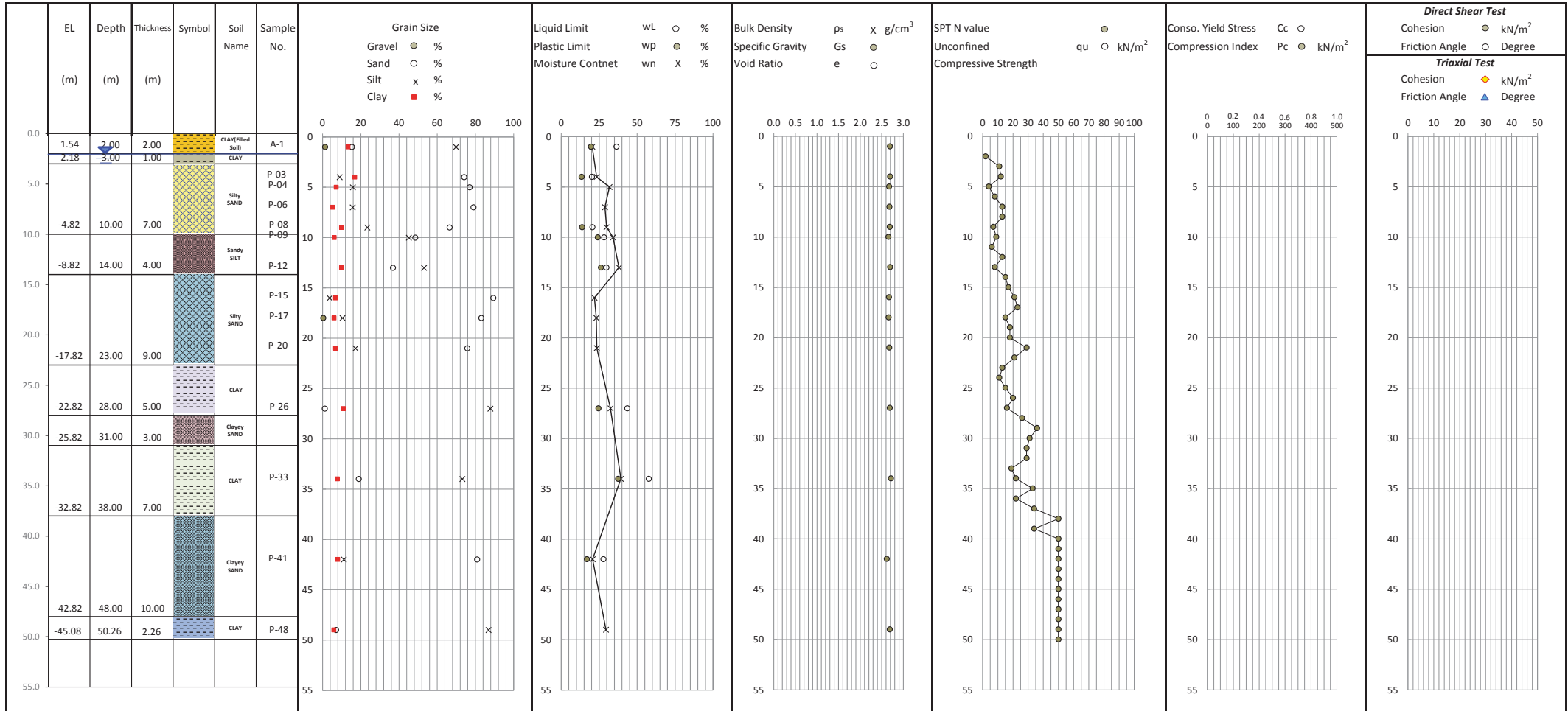
Soil Property Chart

PROJECT NAME : GEOLOGICAL SURVEY ON THE SUPPLEMENT SURVEY FOR BAGO RIVER BRIDGE CONSTRUCTION PROJECT
LOCATION : THANLYIN CHIN KAT ROAD, THAKETA TOWNSHIP.

BH-No. : BH-06

BH Elevation : **EL: 5.18m**

Water Table : 2.20m



Water table was measured after cleaning the hole

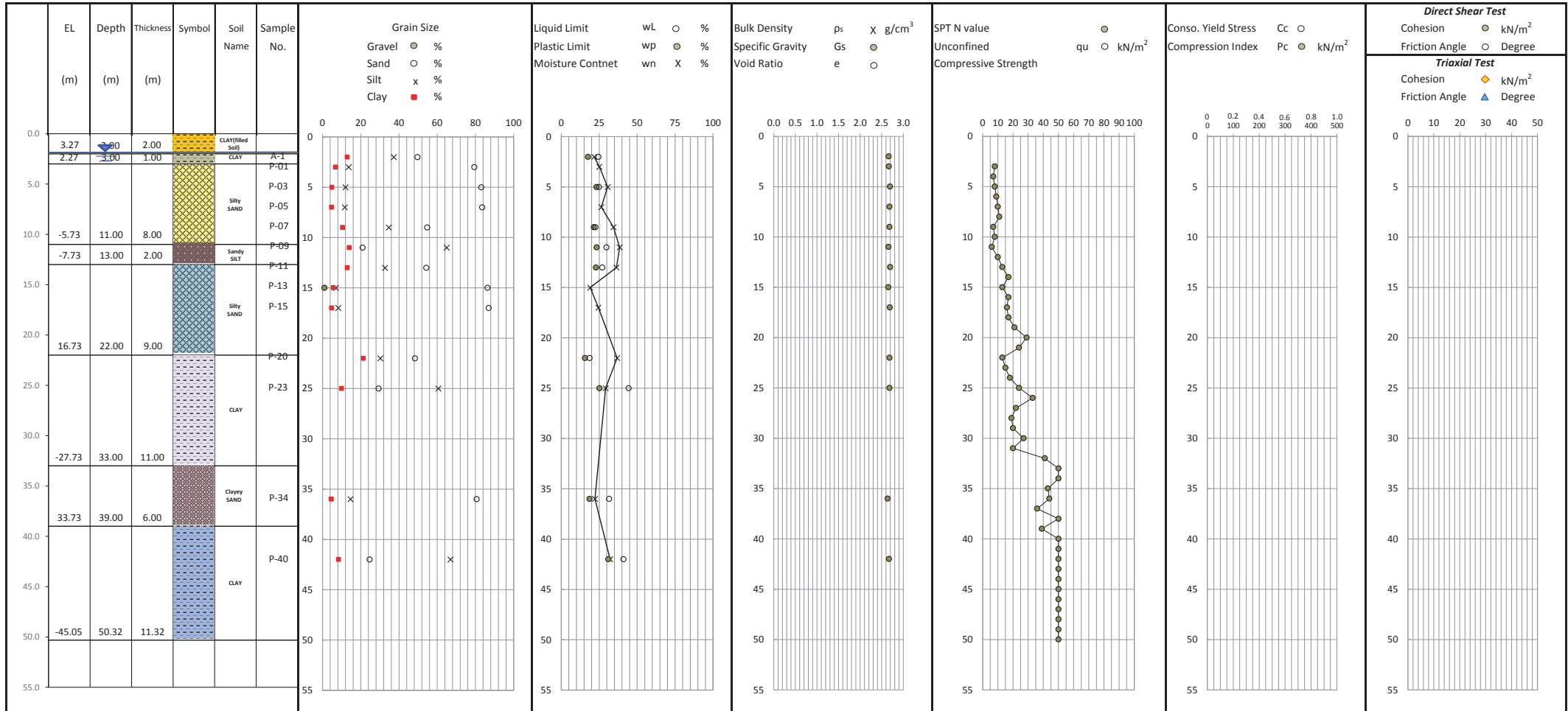
Soil Property Chart

PROJECT NAME : GEOLOGICAL SURVEY ON THE SUPPLEMENT SURVEY FOR BAGO RIVER BRIDGE CONSTRUCTION PROJECT
LOCATION : THANLYIN CHIN KAT ROAD, THAKETA TOWNSHIP.

BH-No. : BH-07

BH Elevation : **EL: 5.27m**

Water Table : 1.90m



Water table was measured after cleaning the hole

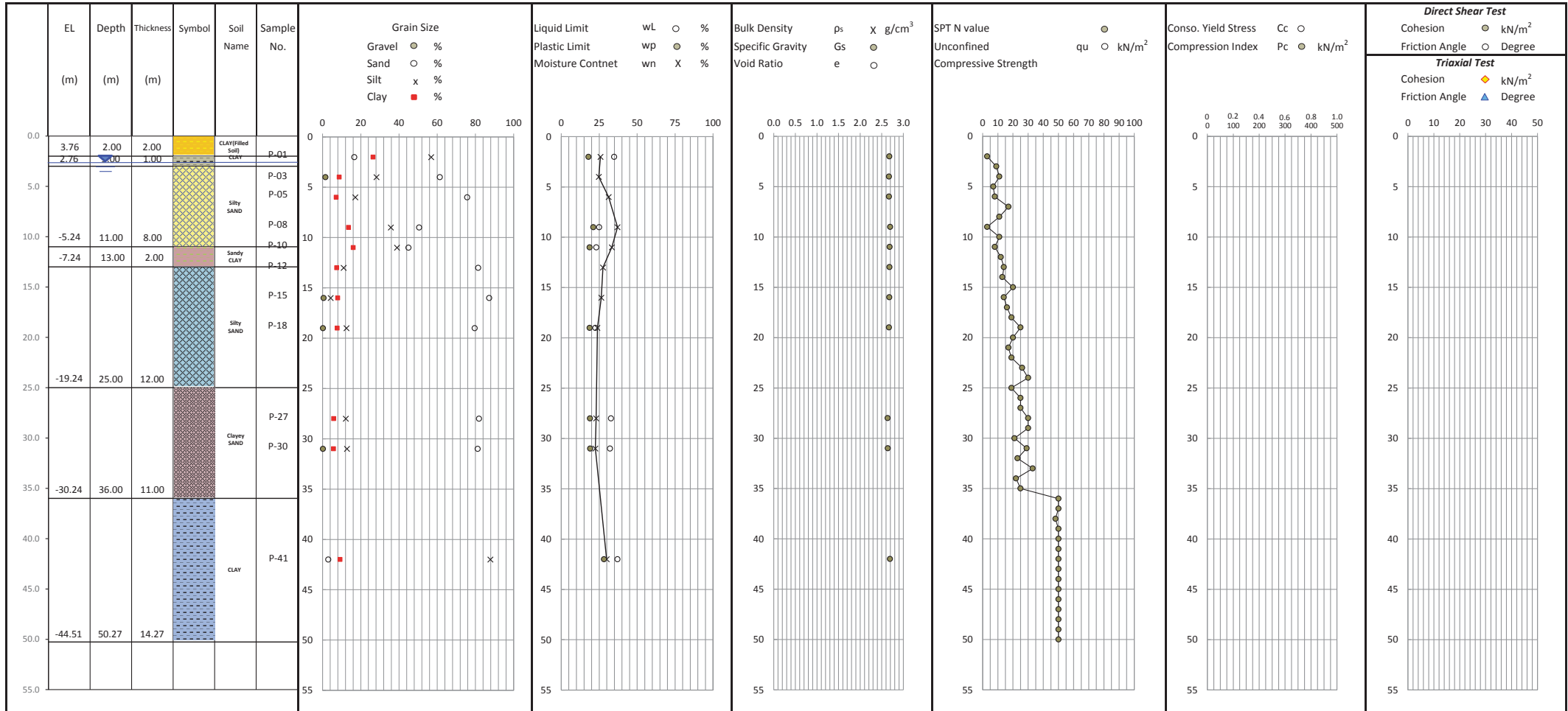
Soil Property Chart

PROJECT NAME : GEOLOGICAL SURVEY ON THE SUPPLEMENT SURVEY FOR BAGO RIVER BRIDGE CONSTRUCTION PROJECT
LOCATION : THANLYIN CHIN KAT ROAD, THAKETA TOWNSHIP.

BH-No. : BH-08

BH Elevation : EL: 5.76m

Water Table : 3.00m



✂ Water table was measured after cleaning the hole

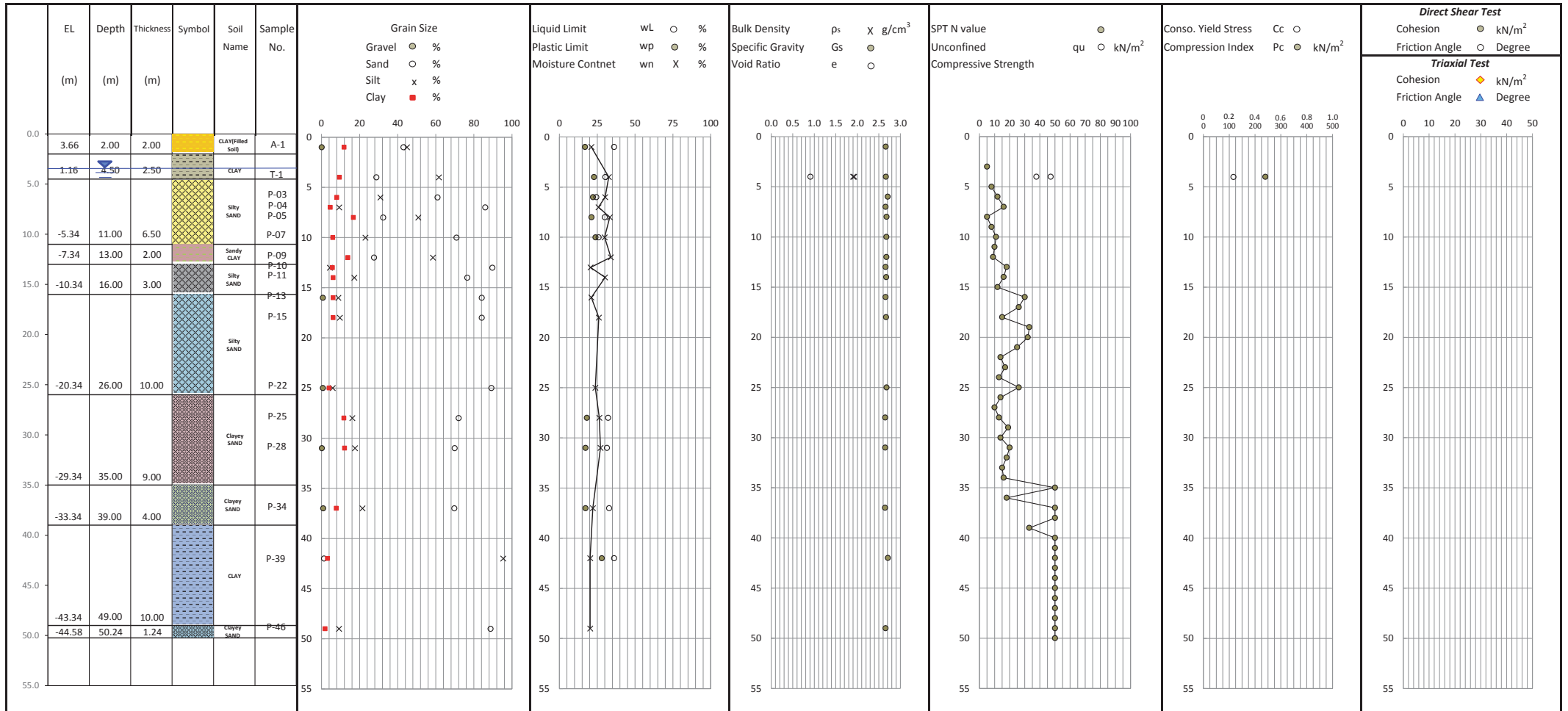
Soil Property Chart

PROJECT NAME : GEOLOGICAL SURVEY ON THE SUPPLEMENTARY SURVEY FOR BAGO RIVER BRIDGE CONSTRUCTION PROJECT
LOCATION : THANLYIN CHIN KAT ROAD, THAKETA TOWNSHIP.

BH-No. : BH-09

BH Elevation : EL: 5.66m

Water Table : 3.50m



Water table was measured after cleaning the hole

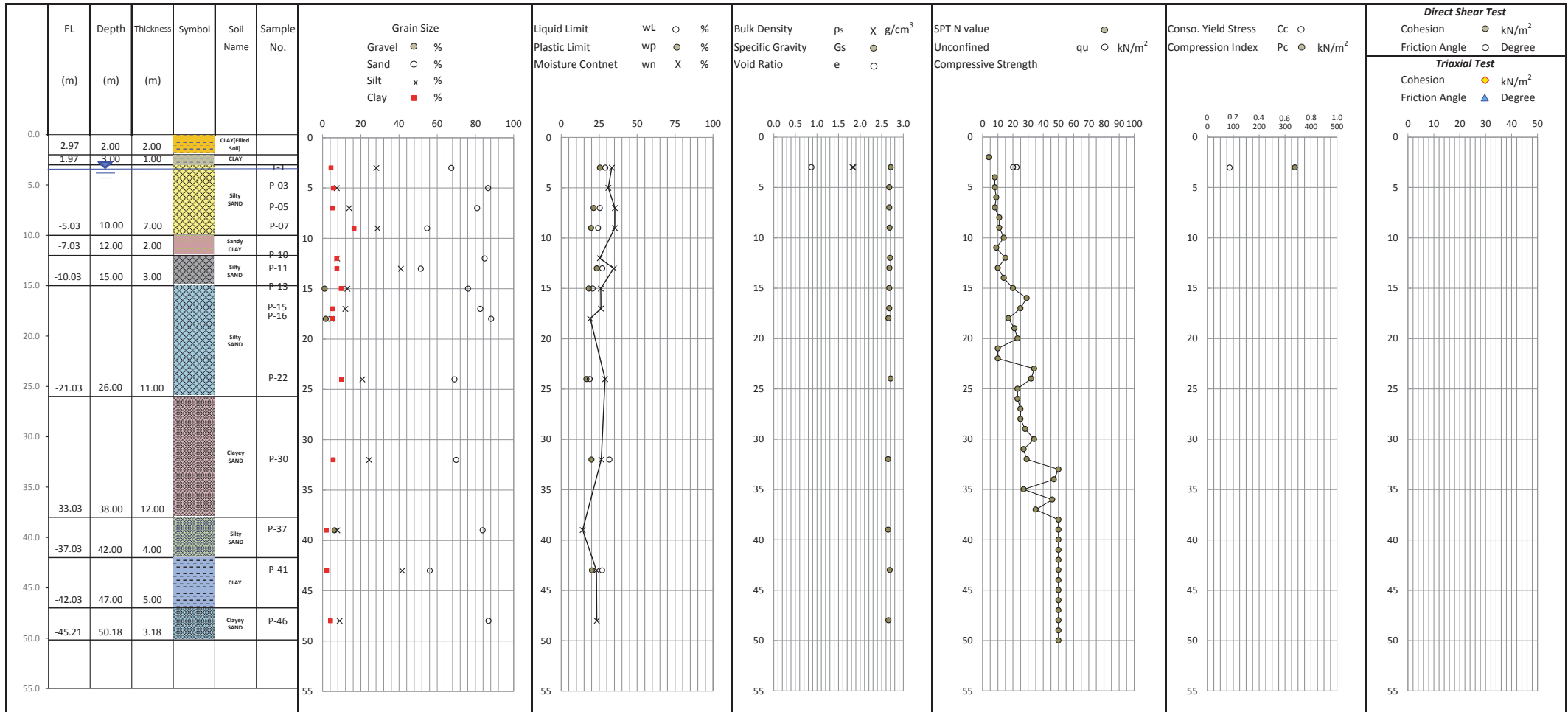
Soil Property Chart

PROJECT NAME : GEOLOGICAL SURVEY ON THE SUPPLEMENT SURVEY FOR BAGO RIVER BRIDGE CONSTRUCTION PROJECT
LOCATION : THANLYIN CHIN KAT ROAD, THAKETA TOWNSHIP.

BH-No. : BH-10

BH Elevation : EL: 4.97m

Water Table : 3.50m



Water table was measured after cleaning the hole

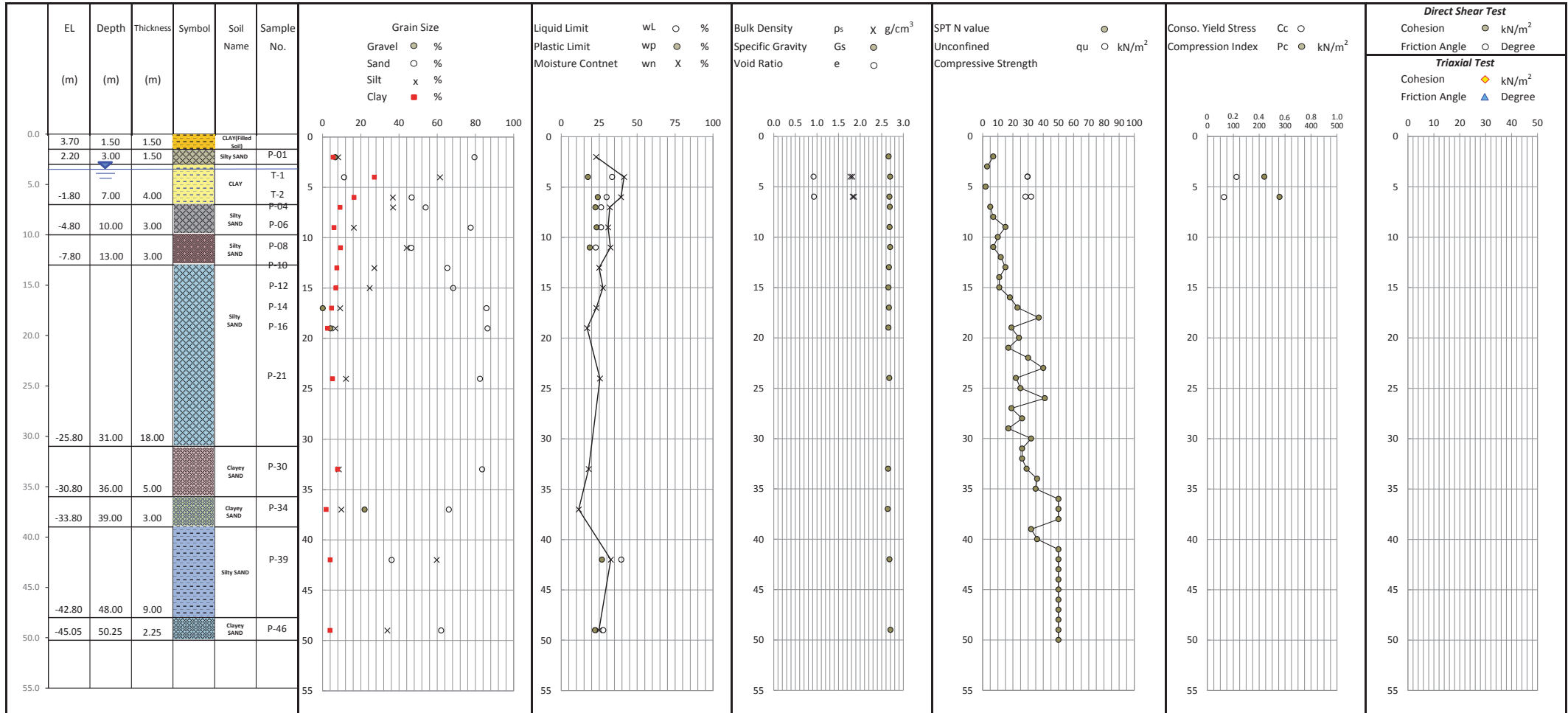
Soil Property Chart

PROJECT NAME : GEOLOGICAL SURVEY ON THE SUPPLEMENT SURVEY FOR BAGO RIVER BRIDGE CONSTRUCTION PROJECT
LOCATION : THANLYIN CHIN KAT ROAD, THAKETA TOWNSHIP.

BH-No. : BH-11

BH Elevation : EL: 5.20m

Water Table : 3.60m



Water table was measured after cleaning the hole

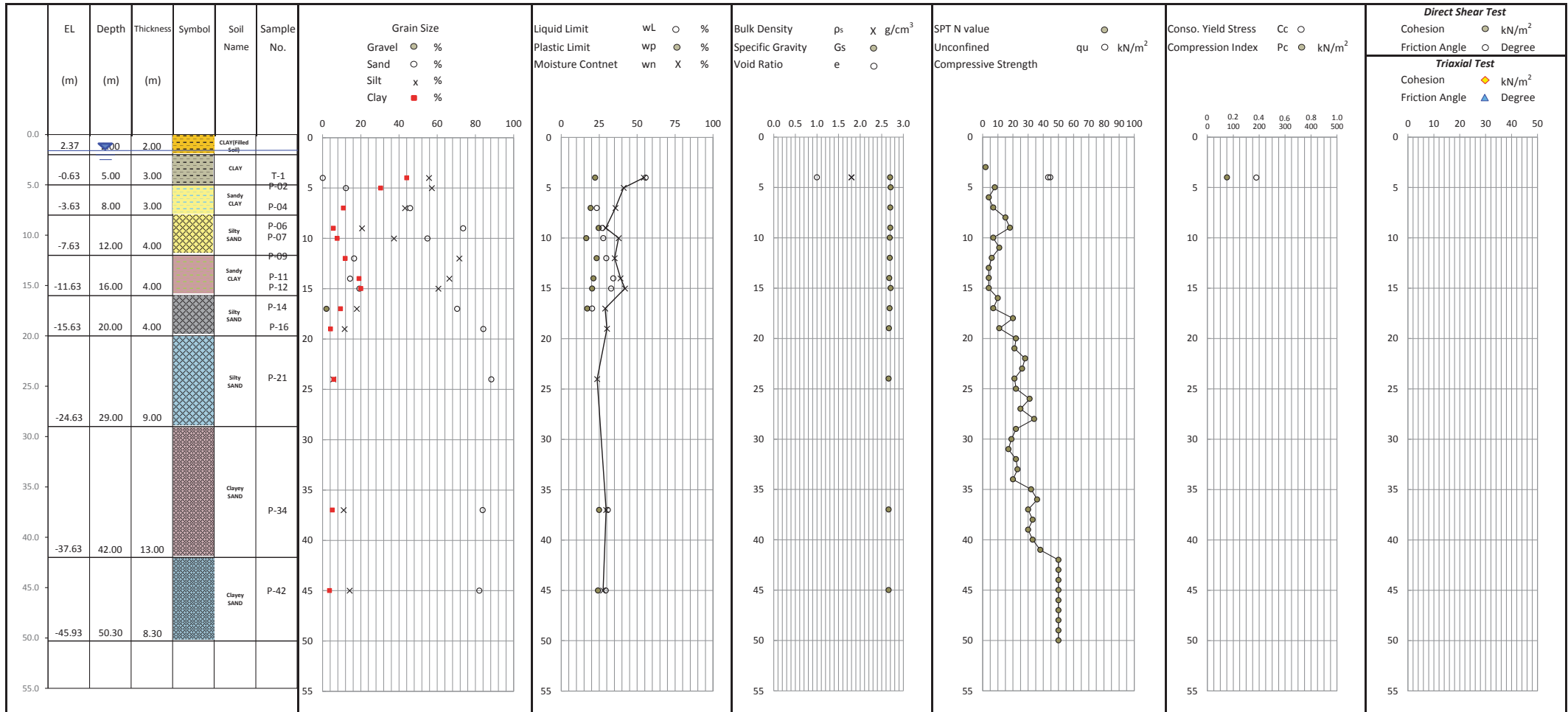
Soil Property Chart

PROJECT NAME : GEOLOGICAL SURVEY ON THE SUPPLEMENT SURVEY FOR BAGO RIVER BRIDGE CONSTRUCTION PROJECT
LOCATION : THANLYIN CHIN KAT ROAD, THAKETA TOWNSHIP.

BH-No. : BH-12

BH Elevation : EL: 4.37m

Water Table : 1.60m



Water table was measured after cleaning the hole

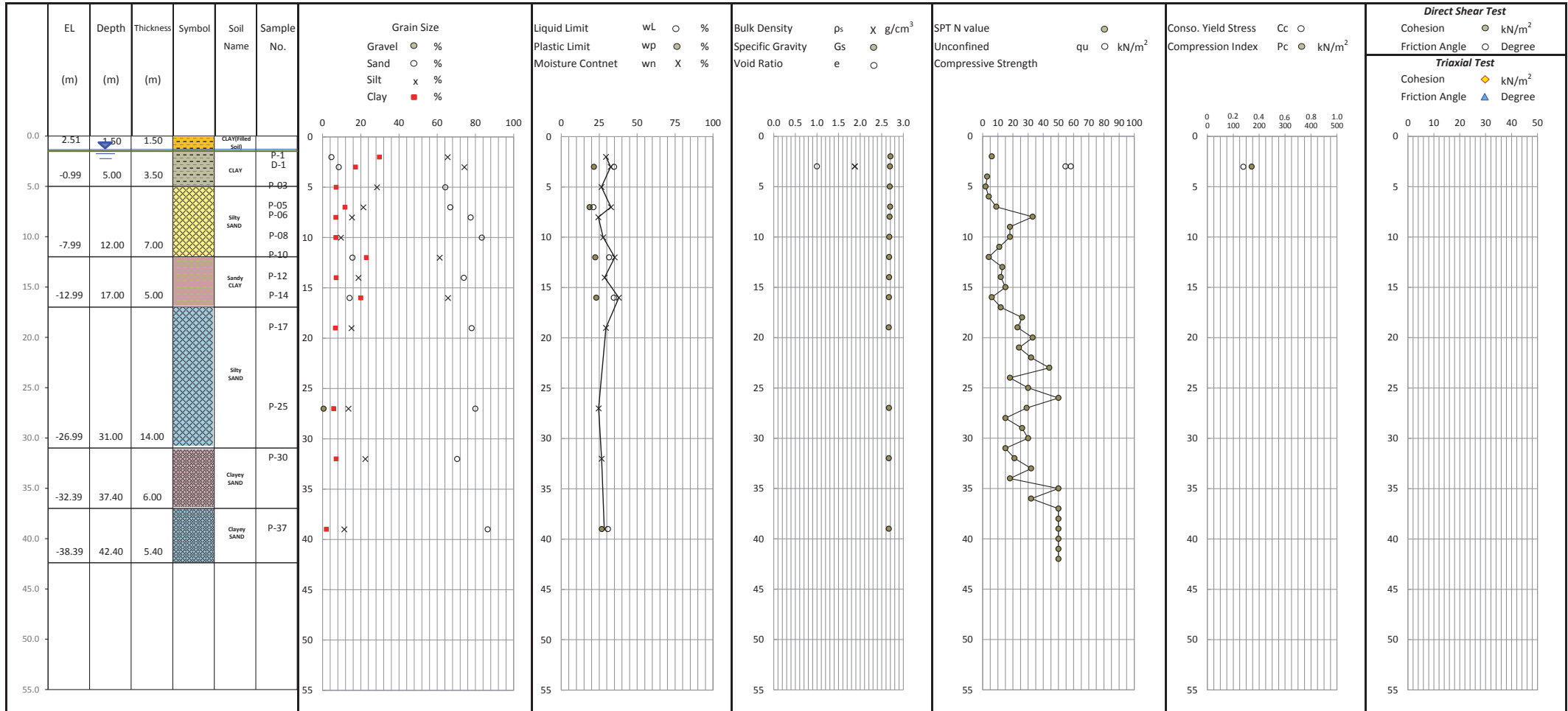
Soil Property Chart

PROJECT NAME : GEOLOGICAL SURVEY ON THE SUPPLEMENT SURVEY FOR BAGO RIVER BRIDGE CONSTRUCTION PROJECT
LOCATION : THANLYIN CHIN KAT ROAD, THAKETA TOWNSHIP.

BH-No. : BH-13

BH Elevation : **EL: 4.01m**

Water Table : 1.50m



Water table was measured after cleaning the hole

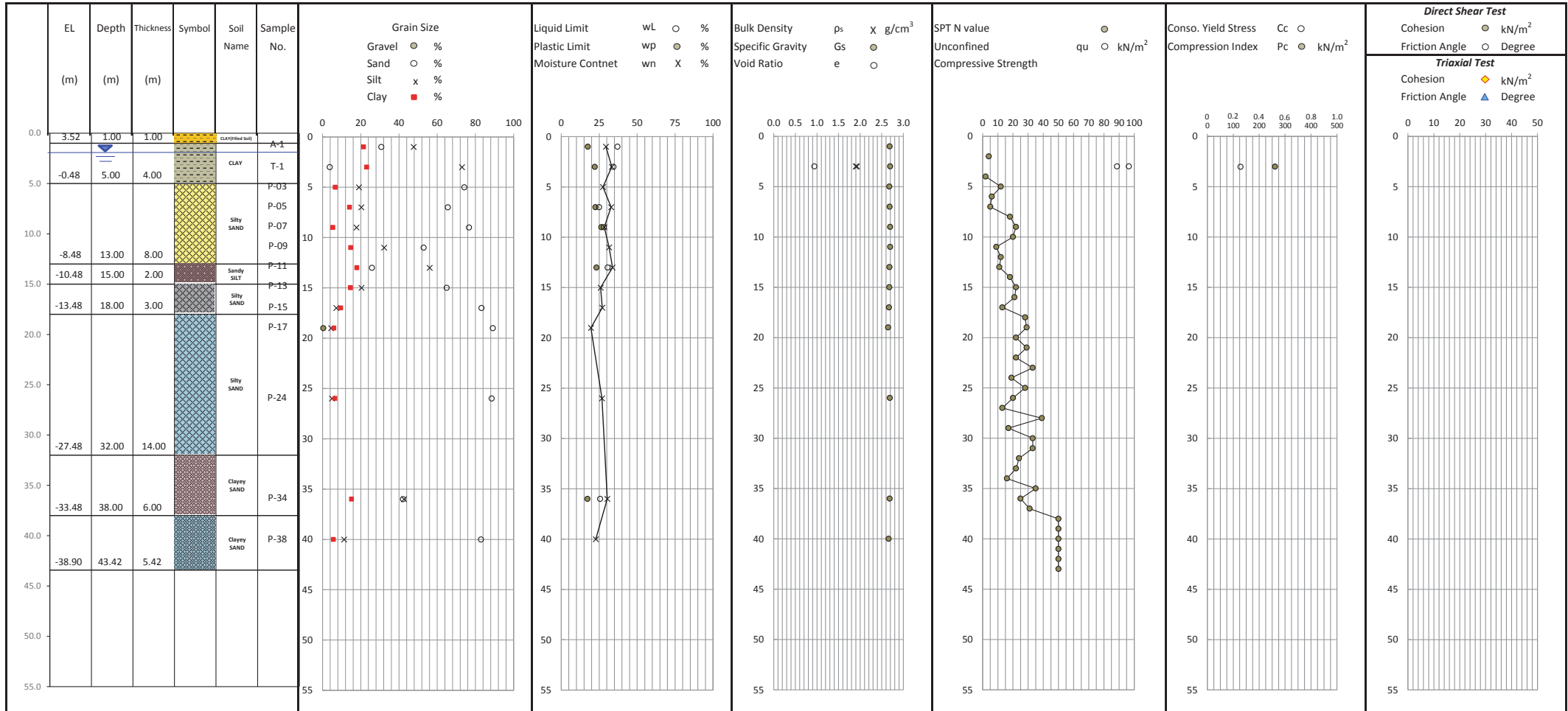
Soil Property Chart

PROJECT NAME : GEOLOGICAL SURVEY ON THE SUPPLEMENT SURVEY FOR BAGO RIVER BRIDGE CONSTRUCTION PROJECT
LOCATION : THANLYIN CHIN KAT ROAD, THAKETA TOWNSHIP.

BH-No. : BH-14

BH Elevation : EL: 4.52m

Water Table : 2.00m



✂ Water table was measured after cleaning the hole

5.POTENTIAL OF LIQUEFACTION

Judgment of Liquefaction (The guideline of Road Bridge Design)

Project Name : GEOLOGICAL SURVEY ON THE SUPPLEMENT SURVEY FOR THE PROJECT FOR CONSTRUCTION OF BAGO RIVER BRIDGE

Analysis point : BH-01

Design horizontal seismic intensity : 0.30 Groundwater level GL= -2.500m Unit weight of water (kN/m³): 10.000

No.	Depth (m)	Thickness	Layer name	N-value	σ_v (kN/m ²)	σ'_v (kN/m ²)	D50 (mm)	D10 (mm)	Ip	Fc (%)	γ_{t1} (kN/m ³)	γ_{t2} (kN/m ³)	R	L	FL
1		2.000	Filled Soil								18.000	18.000			
2	2.300	1.300	CLAY-I	5.0	41.400	18.400					18.000	18.000			
3	4.300	1.700	CLAY-I	6.0	77.400	34.400	0.0260	0.0020	11.27	99.20	18.000	18.000	7.175	0.631	11.363
4	5.300	0.800	Silty SAND-I	14.0	95.700	42.700	0.1660	0.0300	0.00	11.87	18.000	19.000	0.336	0.619	0.543
5	6.300	1.000	Silty SAND-I	14.0	114.700	51.700	0.1660	0.0300	0.00	11.87	18.000	19.000	0.312	0.603	0.518
6	7.300	1.000	Silty SAND-I	11.0	133.700	60.700	0.1660	0.0300	0.00	11.87	18.000	19.000	0.262	0.588	0.444
7	8.300	1.000	Silty SAND-I	7.0	152.700	69.700	0.0800	0.0030	7.57	48.57	18.000	19.000	0.281	0.575	0.489
8	9.300	1.200	Silty SAND-I	9.0	171.700	78.700	0.0500	0.0030	7.57	48.57	18.000	19.000	0.312	0.563	0.554
9	10.300	0.800	Sandy SILT	2.0	190.250	87.250	0.0390	0.0023	9.39	73.24	17.500	17.500	0.206	0.553	0.372
10	11.300	1.200	Sandy SILT	6.0	207.750	94.750	0.0450	0.0015	3.11	73.68	17.500	17.500	0.309	0.546	0.566
11	12.300	0.800	Silty SAND-II	10.0	225.400	102.400	0.1980	0.0060	0.00	33.73	17.000	18.000	0.269	0.539	0.500
12	13.300	1.000	Silty SAND-II	17.0	243.400	110.400	0.1980	0.0060	0.00	33.73	17.000	18.000	0.414	0.529	0.781
13	14.300	1.000	Silty SAND-II	7.0	261.400	118.400	0.1980	0.0060	0.00	33.73	17.000	18.000	0.221	0.520	0.424
14	15.300	1.000	Silty SAND-II	21.0	279.400	126.400	0.1800	0.0400	0.00	10.03	17.000	18.000	0.290	0.511	0.567
15	16.300	1.000	Silty SAND-II	18.0	297.400	134.400	0.3000	0.0400	0.00	11.16	17.000	18.000	0.265	0.502	0.529
16	17.300	1.000	Silty SAND-II	30.0	315.400	142.400	0.3300	0.1000	0.00	8.75	17.000	18.000	0.382	0.492	0.777
17	18.300	1.000	Silty SAND-II	29.0	333.400	150.400	0.3300	0.1000	0.00	8.75	17.000	18.000	0.343	0.482	0.710
18	19.300	1.200	Silty SAND-II	25.0	351.400	158.400	0.1800	0.0010	0.00	29.75	17.000	18.000	0.520	0.473	1.099

Liquefaction index : PL=26.422 Thickness of Liquefaction layer(m)=13.800

Judgment of Liquefaction (The guideline of Road Bridge Design)

Project Name : GEOLOGICAL SURVEY ON THE SUPPLEMENT SURVEY FOR THE PROJECT FOR CONSTRUCTION OF BAGO RIVER BRIDGE

Analysis point : BH-02

Design horizontal seismic intensity : 0.30 Groundwater level GL= -1.500m Unit weight of water (kN/m³): 10.000

No.	Depth (m)	Thickness	Layer name	N-value	σ_v (kN/m ²)	σ'_v (kN/m ²)	D50 (mm)	D10 (mm)	Ip	Fc (%)	γ_{t1} (kN/m ³)	γ_{t2} (kN/m ³)	R	L	FL
1		2.000	Filled Soil								18.000	18.000			
2		1.500	CLAY-I								18.000	18.000			
3	4.300	1.300	Silty SAND-I	10.0	78.200	35.200	0.1400	0.0019	0.00	19.02	18.000	19.000	0.303	0.623	0.486
4	5.300	1.000	Silty SAND-I	10.0	97.200	44.200	0.1400	0.0019	0.00	19.02	18.000	19.000	0.288	0.607	0.475
5	6.300	1.000	Silty SAND-I	18.0	116.200	53.200	0.1400	0.0019	0.00	19.02	18.000	19.000	0.768	0.593	1.294
6	7.300	1.000	Silty SAND-I	6.0	135.200	62.200	0.1100	0.0150	3.21	39.27	18.000	19.000	0.252	0.581	0.434
7	8.300	1.000	Silty SAND-I	10.0	154.200	71.200	0.1200	0.0520	5.23	20.03	18.000	19.000	0.262	0.569	0.461
8	9.300	1.200	Silty SAND-I	12.0	173.200	80.200	0.1200	0.0520	5.23	20.03	18.000	19.000	0.278	0.558	0.499
9	10.300	0.800	Sandy SILT	4.0	191.750	88.750	0.0340	0.0018	8.14	79.50	17.500	17.500	0.276	0.548	0.503
10	11.300	1.000	Sandy SILT	10.0	209.250	96.250	0.0740	0.0250	4.09	51.95	17.500	17.500	0.322	0.542	0.595
11	12.300	1.200	Sandy SILT	19.0	226.750	103.750	0.0740	0.0250	4.09	51.95	17.500	17.500	2.361	0.535	4.415
12	13.300	0.800	Silty SAND-II	21.0	244.400	111.400	0.2950	0.0060	0.00	20.76	17.000	18.000	0.398	0.527	0.756
13	14.300	1.000	Silty SAND-II	19.0	262.400	119.400	0.2950	0.0060	0.00	20.76	17.000	18.000	0.325	0.518	0.627
14	15.300	1.000	Silty SAND-II	30.0	280.400	127.400	0.1600	0.0240	0.00	19.88	17.000	18.000	1.006	0.509	1.977
15	16.300	1.000	Silty SAND-II	23.0	298.400	135.400	0.1600	0.0240	0.00	19.80	17.000	18.000	0.363	0.500	0.727
16	17.300	1.000	Silty SAND-II	32.0	316.400	143.400	0.3200	0.1100	0.00	8.47	17.000	18.000	0.436	0.490	0.890
17	18.300	1.000	Silty SAND-II	37.0	334.400	151.400	0.3200	0.1100	0.00	8.47	17.000	18.000	0.622	0.481	1.295
18	19.300	1.200	Silty SAND-II	28.0	352.400	159.400	0.3200	0.1100	0.00	8.47	17.000	18.000	0.317	0.471	0.672

Liquefaction index : PL=25.273 Thickness of Liquefaction layer(m)=12.300

Judgment of Liquefaction (The guideline of Road Bridge Design)

Project Name : GEOLOGICAL SURVEY ON THE SUPPLEMENT SURVEY FOR THE PROJECT FOR CONSTRUCTION OF BAGO RIVER BRIDGE

Analysis point : BH-03

Design horizontal seismic intensity : 0.30 Groundwater level GL= -2.500m Unit weight of water (kN/m³): 10.000

No.	Depth (m)	Thickness	Layer name	N-value	σ_v (kN/m ²)	σ'_v (kN/m ²)	D50 (mm)	D10 (mm)	Ip	Fc (%)	γ_{t1} (kN/m ³)	γ_{t2} (kN/m ³)	R	L	FL
1		2.000	Filled Soil								18.000	18.000			
2	3.300	2.000	CLAY-I	5.0	59.400	26.400	0.0300	0.0040	11.36	92.78	18.000	18.000	2.428	0.642	3.784
3	4.300	0.800	Silty SAND-I	7.0	77.700	34.700	0.0840	0.0095	0.00	46.72	18.000	19.000	0.332	0.628	0.528
4	5.300	1.000	Silty SAND-I	14.0	96.700	43.700	0.1500	0.0390	0.00	13.80	18.000	19.000	0.350	0.611	0.573
5	6.300	1.000	Silty SAND-I	14.0	115.700	52.700	0.1500	0.0390	0.00	13.80	18.000	19.000	0.321	0.596	0.539
6	7.300	1.000	Silty SAND-I	9.0	134.700	61.700	0.1500	0.0390	0.00	13.80	18.000	19.000	0.241	0.583	0.414
7	8.300	1.200	Silty SAND-I	3.0	153.700	70.700	0.1200	0.0010	0.00	43.13	18.000	19.000	0.190	0.571	0.332
8	9.300	0.800	Sandy SILT	6.0	172.250	79.250	0.0650	0.0023	11.29	44.40	17.500	17.500	0.248	0.561	0.442
9	10.300	1.000	Sandy SILT	11.0	189.750	86.750	0.0650	0.0023	11.29	44.40	17.500	17.500	0.337	0.555	0.607
10	11.300	1.000	Sandy SILT	6.0	207.250	94.250	0.0560	0.0015	3.49	50.57	17.500	17.500	0.249	0.548	0.454
11	12.300	1.200	Sandy SILT	9.0	224.750	101.750	0.0560	0.0015	3.49	50.57	17.500	17.500	0.291	0.540	0.539
12	13.300	0.800	Silty SAND-II	11.0	242.400	109.400	0.0190	0.0020	3.18	37.52	17.000	18.000	0.285	0.532	0.536
13	14.300	1.000	Silty SAND-II	31.0	260.400	117.400	0.3000	0.0230	0.00	11.73	17.000	18.000	0.698	0.523	1.335
14	15.300	1.000	Silty SAND-II	13.0	278.400	125.400	0.1500	0.0450	0.00	13.71	17.000	18.000	0.238	0.513	0.463
15	16.300	1.000	Silty SAND-II	27.0	296.400	133.400	0.3100	0.1000	0.00	8.79	17.000	18.000	0.347	0.504	0.688
16	17.300	1.000	Silty SAND-II	26.0	314.400	141.400	0.3100	0.1000	0.00	8.79	17.000	18.000	0.319	0.494	0.646
17	18.300	1.000	Silty SAND-II	16.0	332.400	149.400	0.1500	0.0450	0.00	13.71	17.000	18.000	0.249	0.484	0.514
18	19.300	1.200	Silty SAND-II	24.0	350.400	157.400	0.3100	0.1000	0.00	8.79	17.000	18.000	0.287	0.475	0.605

Liquefaction index : PL=30.616 Thickness of Liquefaction layer(m)=15.000

Judgment of Liquefaction (The guideline of Road Bridge Design)

Project Name : GEOLOGICAL SURVEY ON THE SUPPLEMENT SURVEY FOR THE PROJECT FOR CONSTRUCTION OF BAGO RIVER BRIDGE

Analysis point : BH-04

Design horizontal seismic intensity : 0.30 Groundwater level GL= -2.000m Unit weight of water (kN/m³): 10.000

No.	Depth (m)	Thickness	Layer name	N-value	σ_v (kN/m ²)	σ'_v (kN/m ²)	D50 (mm)	D10 (mm)	Ip	Fc (%)	γ_{t1} (kN/m ³)	γ_{t2} (kN/m ³)	R	L	FL
1		2.500	Filled Soil								18.000	18.000			
2	3.300	1.500	CLAY-I	5.0	59.400	26.400	0.0310	0.0029	11.35	84.64	18.000	18.000	1.221	0.642	1.904
3	4.300	0.800	Silty SAND-I	14.0	77.700	34.700	0.1400	0.0305	1.92	19.16	18.000	19.000	0.543	0.628	0.865
4	5.300	1.000	Silty SAND-I	13.0	96.700	43.700	0.1400	0.0305	1.92	19.16	18.000	19.000	0.368	0.611	0.603
5	6.300	1.000	Silty SAND-I	16.0	115.700	52.700	0.1400	0.0305	1.92	19.16	18.000	19.000	0.500	0.596	0.839
6	7.300	1.000	Silty SAND-I	24.0	134.700	61.700	0.1600	0.0850	0.00	9.23	18.000	19.000	0.925	0.583	1.585
7	8.300	1.200	Silty SAND-I	21.0	153.700	70.700	0.1600	0.0850	0.00	9.23	18.000	19.000	0.431	0.571	0.755
8	9.300	0.800	Sandy SILT	5.0	172.250	79.250	0.0200	0.0010	17.32	73.52	17.500	17.500			
9	10.300	1.000	Sandy SILT	4.0	189.750	86.750	0.0200	0.0010	17.32	73.52	17.500	17.500			
10	11.300	1.200	Sandy SILT	4.0	207.250	94.250	0.0360	0.0010	17.32	86.70	17.500	17.500			
11	12.300	0.800	Silty SAND-II	7.0	224.900	101.900	0.0560	0.0029	2.97	51.35	17.000	18.000	0.262	0.540	0.484
12	13.300	1.000	Silty SAND-II	9.0	242.900	109.900	0.0560	0.0029	2.97	51.35	17.000	18.000	0.286	0.531	0.540
13	14.300	1.000	Silty SAND-II	6.0	260.900	117.900	0.0780	0.0200	3.07	47.68	17.000	18.000	0.231	0.521	0.442
14	15.300	1.000	Silty SAND-II	10.0	278.900	125.900	0.0780	0.0200	3.07	47.68	17.000	18.000	0.282	0.512	0.550
15	16.300	1.000	Silty SAND-II	28.0	296.900	133.900	0.1600	0.0280	0.00	12.60	17.000	18.000	0.405	0.503	0.806
16	17.300	1.000	Silty SAND-II	24.0	314.900	141.900	0.1600	0.0280	0.00	12.60	17.000	18.000	0.312	0.493	0.634
17	18.300	1.000	Silty SAND-II	25.0	332.900	149.900	0.1600	0.0280	0.00	12.60	17.000	18.000	0.313	0.483	0.648
18	19.300	1.200	Silty SAND-II	25.0	350.900	157.900	0.1600	0.0280	0.00	12.60	17.000	18.000	0.305	0.474	0.644

Liquefaction index : PL=13.678 Thickness of Liquefaction layer(m)=12.000

Judgment of Liquefaction (The guideline of Road Bridge Design)

Project Name : GEOLOGICAL SURVEY ON THE SUPPLEMENT SURVEY FOR THE PROJECT FOR CONSTRUCTION OF BAGO RIVER BRIDGE

Analysis point : BH-05

Design horizontal seismic intensity : 0.30 Groundwater level GL= -3.500m Unit weight of water (kN/m³): 10.000

No.	Depth (m)	Thickness	Layer name	N-value	σ_v (kN/m ²)	σ'_v (kN/m ²)	D50 (mm)	D10 (mm)	Ip	Fc (%)	γ_{t1} (kN/m ³)	γ_{t2} (kN/m ³)	R	L	FL
1		2.500	Filled Soil								18.000	18.000			
2	3.300	1.500	CLAY-I	2.0							18.000	18.000			
3	4.300	0.800	Silty SAND-I	12.0	77.700	34.700	0.0750	0.0060	0.00	50.10	18.000	19.000	2.707	0.628	4.307
4	5.300	1.000	Silty SAND-I	4.0	96.700	43.700	0.0750	0.0060	0.00	50.10	18.000	19.000	0.244	0.611	0.399
5	6.300	1.000	Silty SAND-I	9.0	115.700	52.700	0.1600	0.0200	6.13	15.88	18.000	19.000	0.255	0.596	0.428
6	7.300	1.000	Silty SAND-I	8.0	134.700	61.700	0.1600	0.0200	6.13	15.88	18.000	19.000	0.233	0.583	0.400
7	8.300	1.200	Silty SAND-I	11.0	153.700	70.700	0.1500	0.0300	0.00	17.27	18.000	19.000	0.267	0.571	0.468
8	9.300	0.800	Sandy SILT	4.0	172.250	79.250	0.0400	0.0010	8.59	65.04	17.500	17.500	0.247	0.561	0.440
9	10.300	1.000	Sandy SILT	7.0	189.750	86.750	0.1500	0.0240	0.00	17.90	17.500	17.500	0.206	0.555	0.370
10	11.300	1.000	Sandy SILT	5.0	207.250	94.250	0.1500	0.0240	0.00	17.90	17.500	17.500	0.172	0.548	0.313
11	12.300	1.000	Sandy SILT	9.0	224.750	101.750	0.0440	0.0010	7.60	88.24	17.500	17.500	1.747	0.540	3.234
12	13.300	1.200	Sandy SILT	13.0	242.250	109.250	0.1500	0.0240	0.00	17.90	17.500	17.500	0.260	0.533	0.487
13	14.300	0.800	Silty SAND-II	19.0	259.900	116.900	0.2150	0.0750	0.00	9.87	17.000	18.000	0.282	0.524	0.537
14	15.300	1.000	Silty SAND-II	20.0	277.900	124.900	0.2150	0.0750	0.00	9.87	17.000	18.000	0.283	0.514	0.550
15	16.300	1.000	Silty SAND-II	17.0	295.900	132.900	0.2150	0.0750	0.00	9.87	17.000	18.000	0.255	0.505	0.506
16	17.300	1.000	Silty SAND-II	25.0	313.900	140.900	0.1600	0.0240	0.00	14.15	17.000	18.000	0.337	0.495	0.681
17	18.300	1.000	Silty SAND-II	20.0	331.900	148.900	0.2800	0.0360	0.00	13.81	17.000	18.000	0.279	0.485	0.574
18	19.300	1.200	Silty SAND-II	22.0	349.900	156.900	0.2800	0.0360	0.00	13.81	17.000	18.000	0.287	0.475	0.605

Liquefaction index : PL=30.361 Thickness of Liquefaction layer(m)=14.200

Judgment of Liquefaction (The guideline of Road Bridge Design)

Project Name : GEOLOGICAL SURVEY ON THE SUPPLEMENT SURVEY FOR THE PROJECT FOR CONSTRUCTION OF BAGO RIVER BRIDGE

Analysis point : BH-06

Design horizontal seismic intensity : 0.30 Groundwater level GL= -2.200m Unit weight of water (kN/m³): 10.000

No.	Depth (m)	Thickness	Layer name	N-value	σ_v (kN/m ²)	σ'_v (kN/m ²)	D50 (mm)	D10 (mm)	Ip	Fc (%)	γ_{t1} (kN/m ³)	γ_{t2} (kN/m ³)	R	L	FL
1		2.000	Filled Soil								18.000	18.000			
2	2.300	1.000	CLAY-I	2.0	41.400	18.400	0.0350	0.0029	16.85	83.25	18.000	18.000			
3	3.300	0.800	Silty SAND-I	11.0	59.700	26.700	0.1400	0.0100	6.80	25.88	18.000	19.000	0.479	0.638	0.751
4	4.300	1.000	Silty SAND-I	12.0	78.700	35.700	0.1400	0.0100	6.80	25.88	18.000	19.000	0.476	0.619	0.769
5	5.300	1.000	Silty SAND-I	5.0	97.700	44.700	0.1500	0.0160	0.00	23.03	18.000	19.000	0.215	0.604	0.356
6	6.300	1.000	Silty SAND-I	8.0	116.700	53.700	0.1500	0.0160	0.00	23.03	18.000	19.000	0.258	0.590	0.438
7	7.300	1.000	Silty SAND-I	13.0	135.700	62.700	0.1600	0.0180	0.00	21.02	18.000	19.000	0.319	0.578	0.552
8	8.300	1.000	Silty SAND-I	13.0	154.700	71.700	0.1600	0.0180	0.00	21.02	18.000	19.000	0.304	0.567	0.536
9	9.300	1.200	Silty SAND-I	7.0	173.700	80.700	0.1300	0.0050	6.77	33.45	18.000	19.000	0.243	0.556	0.437
10	10.300	0.800	Sandy SILT	9.0	192.250	89.250	0.7300	0.0120	4.25	51.40	17.500	17.500	0.306	0.546	0.560
11	11.300	1.000	Sandy SILT	6.0	209.750	96.750	0.0610	0.0050	3.67	63.10	17.500	17.500	0.272	0.540	0.503
12	12.300	1.000	Sandy SILT	13.0	227.250	104.250	0.7300	0.0120	4.25	51.40	17.500	17.500	0.436	0.533	0.817
13	13.300	1.200	Sandy SILT	8.0	244.750	111.750	0.7300	0.0120	4.25	51.40	17.500	17.500	0.270	0.526	0.514
14	14.300	0.800	Silty SAND-II	15.0	262.400	119.400	0.1950	0.0230	0.00	16.53	17.000	18.000	0.267	0.518	0.516
15	15.300	1.000	Silty SAND-II	17.0	280.400	127.400	0.1950	0.0230	0.00	16.53	17.000	18.000	0.278	0.509	0.547
16	16.300	1.000	Silty SAND-II	21.0	298.400	135.400	0.2500	0.0500	0.00	10.63	17.000	18.000	0.285	0.500	0.570
17	17.300	1.000	Silty SAND-II	23.0	316.400	143.400	0.2500	0.0500	0.00	10.63	17.000	18.000	0.293	0.490	0.598
18	18.300	1.000	Silty SAND-II	15.0	334.400	151.400	0.1950	0.0230	0.00	16.53	17.000	18.000	0.247	0.481	0.515
19	19.300	1.200	Silty SAND-II	18.0	352.400	159.400	0.1950	0.0230	0.00	16.53	17.000	18.000	0.266	0.471	0.564

Liquefaction index : PL=31.862 Thickness of Liquefaction layer(m)=17.000

Judgment of Liquefaction (The guideline of Road Bridge Design)

Project Name : GEOLOGICAL SURVEY ON THE SUPPLEMENT SURVEY FOR THE PROJECT FOR CONSTRUCTION OF BAGO RIVER BRIDGE

Analysis point : BH-07

Design horizontal seismic intensity : 0.30 Groundwater level GL= -1.900m Unit weight of water (kN/m³): 10.000

No.	Depth (m)	Thickness	Layer name	N-value	σ_v (kN/m ²)	σ'_v (kN/m ²)	D50 (mm)	D10 (mm)	Ip	Fc (%)	γ_{t1} (kN/m ³)	γ_{t2} (kN/m ³)	R	L	FL
1		2.000	Filled Soil								18.000	18.000			
2		1.000	CLAY-I								18.000	18.000			
3	3.300	0.800	Silty SAND-I	8.0	59.700	26.700	0.1500	0.0175	0.00	20.53	18.000	19.000	0.284	0.638	0.446
4	4.300	1.000	Silty SAND-I	7.0	78.700	35.700	0.1500	0.0370	1.66	16.90	18.000	19.000	0.246	0.619	0.397
5	5.300	1.000	Silty SAND-I	8.0	97.700	44.700	0.1500	0.0370	1.66	16.90	18.000	19.000	0.252	0.604	0.417
6	6.300	1.000	Silty SAND-I	9.0	116.700	53.700	0.1550	0.0165	0.00	16.43	18.000	19.000	0.256	0.590	0.434
7	7.300	1.000	Silty SAND-I	10.0	135.700	62.700	0.1550	0.0165	0.00	16.43	18.000	19.000	0.260	0.578	0.450
8	8.300	1.000	Silty SAND-I	11.0	154.700	71.700	0.1550	0.0165	0.00	16.43	18.000	19.000	0.264	0.567	0.466
9	9.300	1.000	Silty SAND-I	7.0	173.700	80.700	0.0760	0.0025	1.15	45.20	18.000	19.000	0.266	0.556	0.478
10	10.300	1.200	Silty SAND-I	8.0	192.700	89.700	0.0760	0.0025	1.15	45.20	18.000	19.000	0.275	0.545	0.504
11	11.300	0.800	Sandy SILT	6.0	211.250	98.250	0.0395	0.0024	6.50	69.00	17.500	17.500	0.289	0.536	0.539
12	12.300	1.200	Sandy SILT	10.0	228.750	105.750	0.0350	0.0024	6.50	69.00	17.500	17.500	0.515	0.529	0.973
13	13.300	0.800	Silty SAND-II	13.0	246.400	113.400	0.0800	0.0180	4.14	35.65	17.000	18.000	0.304	0.522	0.582
14	14.300	1.000	Silty SAND-II	17.0	264.400	121.400	0.1700	0.0500	0.00	13.03	17.000	18.000	0.272	0.513	0.530
15	15.300	1.000	Silty SAND-II	13.0	282.400	129.400	0.3300	0.0180	0.00	12.68	17.000	18.000	0.233	0.504	0.461
16	16.300	1.000	Silty SAND-II	17.0	300.400	137.400	0.1700	0.0500	0.00	13.03	17.000	18.000	0.262	0.496	0.528
17	17.300	1.000	Silty SAND-II	16.0	318.400	145.400	0.1700	0.0500	0.00	13.03	17.000	18.000	0.249	0.486	0.512
18	18.300	1.000	Silty SAND-II	17.0	336.400	153.400	0.1700	0.0500	0.00	13.03	17.000	18.000	0.252	0.477	0.528
19	19.300	1.200	Silty SAND-II	21.0	354.400	161.400	0.1700	0.0500	0.00	13.03	17.000	18.000	0.275	0.468	0.588

Liquefaction index : PL=36.447 Thickness of Liquefaction layer(m)=17.000

Judgment of Liquefaction (The guideline of Road Bridge Design)

Project Name : GEOLOGICAL SURVEY ON THE SUPPLEMENT SURVEY FOR THE PROJECT FOR CONSTRUCTION OF BAGO RIVER BRIDGE

Analysis point : BH-08

Design horizontal seismic intensity : 0.30 Groundwater level GL= -3.000m Unit weight of water (kN/m³): 10.000

No.	Depth (m)	Thickness	Layer name	N-value	σ_v (kN/m ²)	σ'_v (kN/m ²)	D50 (mm)	D10 (mm)	Ip	Fc (%)	γ_{t1} (kN/m ³)	γ_{t2} (kN/m ³)	R	L	FL
1		2.000	Filled Soil								18.000	18.000			
2	2.300	1.000	CLAY-I	3.0	41.400	18.400	0.0170	0.0010	16.84	83.35	18.000	18.000			
3	3.300	0.800	Silty SAND-I	9.0	59.700	26.700	0.1400	0.0150	0.00	24.33	18.000	19.000	0.322	0.638	0.506
4	4.300	1.000	Silty SAND-I	11.0	78.700	35.700	0.1200	0.0065	0.00	37.03	18.000	19.000	0.654	0.619	1.058
5	5.300	1.000	Silty SAND-I	7.0	97.700	44.700	0.1400	0.0150	0.00	24.33	18.000	19.000	0.254	0.604	0.422
6	6.300	1.000	Silty SAND-I	8.0	116.700	53.700	0.1400	0.0150	0.00	24.33	18.000	19.000	0.261	0.590	0.443
7	7.300	1.000	Silty SAND-I	17.0	135.700	62.700	0.1200	0.0065	0.00	37.03	18.000	19.000	1.843	0.578	3.187
8	8.300	1.000	Silty SAND-I	11.0	154.700	71.700	0.1200	0.0065	0.00	37.03	18.000	19.000	0.333	0.567	0.588
9	9.300	1.000	Silty SAND-I	3.0	173.700	80.700	0.0800	0.0040	3.87	49.43	18.000	19.000	0.194	0.556	0.350
10	10.300	1.200	Silty SAND-I	11.0	192.700	89.700	0.1200	0.0065	0.00	37.03	18.000	19.000	0.303	0.545	0.555
11	11.300	0.800	Sandy SILT	8.0	211.250	98.250	0.0650	0.0021	4.42	55.05	17.500	17.500	0.287	0.536	0.535
12	12.300	1.200	Sandy SILT	12.0	228.750	105.750	0.0650	0.0021	4.42	55.05	17.500	17.500	0.400	0.529	0.756
13	13.300	0.800	Silty SAND-II	14.0	246.400	113.400	0.1450	0.0180	0.00	18.57	17.000	18.000	0.268	0.522	0.513
14	14.300	1.000	Silty SAND-II	13.0	264.400	121.400	0.1450	0.0180	0.00	18.57	17.000	18.000	0.253	0.513	0.493
15	15.300	1.000	Silty SAND-II	20.0	282.400	129.400	0.1500	0.0145	3.81	20.49	17.000	18.000	0.323	0.504	0.641
16	16.300	1.000	Silty SAND-II	14.0	300.400	137.400	0.1750	0.0069	0.00	12.22	17.000	18.000	0.235	0.496	0.475
17	17.300	1.000	Silty SAND-II	16.0	318.400	145.400	0.1750	0.0069	0.00	12.22	17.000	18.000	0.247	0.486	0.507
18	18.300	1.000	Silty SAND-II	19.0	336.400	153.400	0.1500	0.0145	3.81	20.49	17.000	18.000	0.288	0.477	0.604
19	19.300	1.200	Silty SAND-II	25.0	354.400	161.400	0.1500	0.0145	3.81	20.49	17.000	18.000	0.352	0.468	0.751

Liquefaction index : PL=28.266 Thickness of Liquefaction layer(m)=15.000

Judgment of Liquefaction (The guideline of Road Bridge Design)

Project Name : GEOLOGICAL SURVEY ON THE SUPPLEMENT SURVEY FOR THE PROJECT FOR CONSTRUCTION OF BAGO RIVER BRIDGE

Analysis point : BH-09

Design horizontal seismic intensity : 0.30 Groundwater level GL= -3.500m Unit weight of water (kN/m³): 10.000

No.	Depth (m)	Thickness	Layer name	N-value	σ_v (kN/m ²)	σ'_v (kN/m ²)	D50 (mm)	D10 (mm)	Ip	Fc (%)	γ_{t1} (kN/m ³)	γ_{t2} (kN/m ³)	R	L	FL
1		2.000	Filled Soil								18.000	18.000			
2		1.500	CLAY-I								18.000	18.000			
3	4.300	1.000	CLAY-I	5.0	77.400	34.400	0.0620	0.0055	7.43	71.12	18.000	18.000	0.388	0.631	0.615
4	5.300	1.300	Silty SAND-I	8.0	96.200	43.200	0.0960	0.0120	2.09	29.12	18.000	19.000	0.285	0.615	0.463
5	6.300	1.000	Silty SAND-I	12.0	115.200	52.200	0.1000	0.0075	2.19	39.08	18.000	19.000	0.589	0.600	0.983
6	7.300	1.000	Silty SAND-I	16.0	134.200	61.200	0.1700	0.0280	0.00	13.98	18.000	19.000	0.347	0.586	0.593
7	8.300	1.000	Silty SAND-I	5.0	153.200	70.200	0.0500	0.0010	8.70	57.60	18.000	19.000	0.257	0.573	0.449
8	9.300	1.000	Silty SAND-I	8.0	172.200	79.200	0.0960	0.0120	2.09	29.12	18.000	19.000	0.250	0.561	0.445
9	10.300	1.200	Silty SAND-I	11.0	191.200	88.200	0.0960	0.0120	2.09	29.12	18.000	19.000	0.283	0.550	0.514
10	11.300	0.800	Sandy SILT	10.0	209.750	96.750	0.0540	0.0020	0.00	62.40	17.500	17.500	0.399	0.540	0.738
11	12.300	1.200	Sandy SILT	9.0	227.250	104.250	0.0540	0.0020	0.00	62.40	17.500	17.500	0.328	0.533	0.615
12	13.300	0.800	Silty SAND-II	18.0	244.900	111.900	0.3600	0.0500	0.00	10.24	17.000	18.000	0.278	0.526	0.530
13	14.300	1.000	Silty SAND-II	16.0	262.900	119.900	0.1300	0.0370	0.00	23.43	17.000	18.000	0.296	0.517	0.573
14	15.300	1.000	Silty SAND-II	12.0	280.900	127.900	0.1300	0.0370	0.00	23.43	17.000	18.000	0.252	0.508	0.495
15	16.300	1.000	Silty SAND-II	30.0	298.900	135.900	0.3600	0.0190	0.00	15.08	17.000	18.000	0.555	0.498	1.113
16	17.300	1.000	Silty SAND-II	26.0	316.900	143.900	0.3600	0.0190	0.00	15.08	17.000	18.000	0.357	0.489	0.730
17	18.300	1.000	Silty SAND-II	15.0	334.900	151.900	0.1700	0.0120	0.00	14.85	17.000	18.000	0.243	0.480	0.506
18	19.300	1.200	Silty SAND-II	33.0	352.900	159.900	0.3600	0.0190	0.00	15.08	17.000	18.000	0.527	0.470	1.120

Liquefaction index : PL=27.007 Thickness of Liquefaction layer(m)=14.300

Judgment of Liquefaction (The guideline of Road Bridge Design)

Project Name : GEOLOGICAL SURVEY ON THE SUPPLEMENT SURVEY FOR THE PROJECT FOR CONSTRUCTION OF BAGO RIVER BRIDGE

Analysis point : BH-10

Design horizontal seismic intensity : 0.30 Groundwater level GL= -3.500m Unit weight of water (kN/m³): 10.000

No.	Depth (m)	Thickness	Layer name	N-value	σ_v (kN/m ²)	σ'_v (kN/m ²)	D50 (mm)	D10 (mm)	Ip	Fc (%)	γ_{t1} (kN/m ³)	γ_{t2} (kN/m ³)	R	L	FL
1		2.000	Filled Soil								18.000	18.000			
2		1.000	CLAY-I								18.000	18.000			
3		0.500	Silty SAND-I								18.000	19.000			
4	4.300	1.300	Silty SAND-I	8.0	78.700	35.700	0.1600	0.0500	0.00	13.30	18.000	19.000	0.252	0.619	0.408
5	5.300	1.000	Silty SAND-I	8.0	97.700	44.700	0.1600	0.0500	0.00	13.30	18.000	19.000	0.242	0.604	0.401
6	6.300	1.000	Silty SAND-I	9.0	116.700	53.700	0.1500	0.0230	4.15	19.05	18.000	19.000	0.263	0.590	0.445
7	7.300	1.000	Silty SAND-I	8.0	135.700	62.700	0.1000	0.0230	4.15	19.05	18.000	19.000	0.240	0.578	0.415
8	8.300	1.000	Silty SAND-I	11.0	154.700	71.700	0.0840	0.0023	4.59	45.26	18.000	19.000	0.397	0.567	0.700
9	9.300	1.200	Silty SAND-I	11.0	173.700	80.700	0.0840	0.0023	4.59	45.26	18.000	19.000	0.359	0.556	0.645
10	10.300	0.800	Sandy SILT	14.0	192.250	89.250	0.0540	0.0020	0.00	62.40	17.500	17.500	1.704	0.546	3.119
11	11.300	1.200	Sandy SILT	9.0	209.750	96.750	0.0540	0.0020	0.00	62.40	17.500	17.500	0.343	0.540	0.634
12	12.300	0.800	Silty SAND-II	15.0	227.400	104.400	0.1900	0.0110	0.00	15.13	17.000	18.000	0.274	0.533	0.514
13	13.300	1.000	Silty SAND-II	10.0	245.400	112.400	0.0780	0.0090	3.60	48.57	17.000	18.000	0.294	0.524	0.560
14	14.300	1.000	Silty SAND-II	14.0	263.400	120.400	0.0780	0.0090	3.60	48.57	17.000	18.000	0.391	0.516	0.758
15	15.300	1.000	Silty SAND-II	20.0	281.400	128.400	0.1850	0.0051	2.62	22.77	17.000	18.000	0.340	0.507	0.671
16	16.300	1.000	Silty SAND-II	29.0	299.400	136.400	0.1700	0.0280	0.00	17.42	17.000	18.000	0.576	0.498	1.157
17	17.300	1.000	Silty SAND-II	25.0	317.400	144.400	0.1700	0.0280	0.00	17.42	17.000	18.000	0.360	0.488	0.737
18	18.300	1.000	Silty SAND-II	17.0	335.400	152.400	0.3450	0.0600	0.00	10.08	17.000	18.000	0.244	0.479	0.510
19	19.300	1.200	Silty SAND-II	21.0	353.400	160.400	0.1850	0.0051	2.62	22.77	17.000	18.000	0.309	0.470	0.659

Liquefaction index : PL=29.245 Thickness of Liquefaction layer(m)=14.700

Judgment of Liquefaction (The guideline of Road Bridge Design)

Project Name : GEOLOGICAL SURVEY ON THE SUPPLEMENT SURVEY FOR THE PROJECT FOR CONSTRUCTION OF BAGO RIVER BRIDGE

Analysis point : BH-11

Design horizontal seismic intensity : 0.30 Groundwater level GL= -3.600m Unit weight of water (kN/m³): 10.000

No.	Depth (m)	Thickness	Layer name	N-value	σ_v (kN/m ²)	σ'_v (kN/m ²)	D50 (mm)	D10 (mm)	Ip	Fc (%)	γ_{t1} (kN/m ³)	γ_{t2} (kN/m ³)	R	L	FL
1		3.000	Filled Soil								18.000	18.000			
2		0.500	CLAY-I								18.000	18.000			
3	5.300	3.500	CLAY-I	2.0	95.400	42.400	0.0270	0.0010	15.96	88.68	18.000	18.000			
4	7.300	0.800	Silty SAND-I	5.0	131.700	58.700	0.0800	0.0060	3.70	46.06	18.000	19.000	0.247	0.599	0.413
5	8.300	1.000	Silty SAND-I	7.0	150.700	67.700	0.0800	0.0060	3.70	46.06	18.000	19.000	0.278	0.585	0.476
6	9.300	1.200	Silty SAND-I	15.0	169.700	76.700	0.1100	0.0525	3.04	22.50	18.000	19.000	0.344	0.571	0.602
7	10.300	0.800	Sandy SILT	10.0	188.250	85.250	0.0700	0.0060	3.91	53.50	17.500	17.500	0.354	0.560	0.631
8	11.300	1.000	Sandy SILT	7.0	205.750	92.750	0.0700	0.0060	3.91	53.50	17.500	17.500	0.271	0.553	0.491
9	12.300	1.200	Sandy SILT	12.0	223.250	100.250	0.0700	0.0060	3.91	53.50	17.500	17.500	0.409	0.545	0.751
10	13.300	0.800	Silty SAND-II	15.0	240.900	107.900	0.2030	0.0090	0.00	34.67	17.000	18.000	0.351	0.536	0.655
11	14.300	1.000	Silty SAND-II	11.0	258.900	115.900	0.1750	0.0125	0.00	31.65	17.000	18.000	0.267	0.526	0.508
12	15.300	1.000	Silty SAND-II	11.0	276.900	123.900	0.1750	0.0125	0.00	31.65	17.000	18.000	0.262	0.517	0.508
13	16.300	1.000	Silty SAND-II	18.0	294.900	131.900	0.4150	0.0800	0.00	9.50	17.000	18.000	0.263	0.507	0.520
14	17.300	1.000	Silty SAND-II	23.0	312.900	139.900	0.2200	0.0373	0.00	13.99	17.000	18.000	0.312	0.497	0.627
15	18.300	1.000	Silty SAND-II	37.0	330.900	147.900	0.2200	0.0373	0.00	13.99	17.000	18.000	0.989	0.487	2.032
16	19.300	1.200	Silty SAND-II	19.0	348.900	155.900	0.4150	0.0800	0.00	9.50	17.000	18.000	0.256	0.477	0.536

Liquefaction index : PL=18.475 Thickness of Liquefaction layer(m)=12.000

Judgment of Liquefaction (The guideline of Road Bridge Design)

Project Name : GEOLOGICAL SURVEY ON THE SUPPLEMENT SURVEY FOR THE PROJECT FOR CONSTRUCTION OF BAGO RIVER BRIDGE

Analysis point : BH-12

Design horizontal seismic intensity : 0.30 Groundwater level GL= -1.600m Unit weight of water (kN/m³): 10.000

No.	Depth (m)	Thickness	Layer name	N-value	σ_v (kN/m ²)	σ'_v (kN/m ²)	D50 (mm)	D10 (mm)	Ip	Fc (%)	γ_{t1} (kN/m ³)	γ_{t2} (kN/m ³)	R	L	FL
1		2.000	Filled Soil								18.000	18.000			
2	3.300	3.000	CLAY-I	2.0	59.400	26.400	0.0062	0.0010	33.21	99.85	18.000	18.000			
3	5.300	0.800	Silty SAND-I	8.0	95.700	42.700	0.0140	0.0010	0.00	87.73	18.000	19.000	8.905	0.619	14.388
4	6.300	1.000	Silty SAND-I	4.0	114.700	51.700	0.0670	0.0043	4.13	54.14	18.000	19.000	0.244	0.603	0.404
5	7.300	1.000	Silty SAND-I	7.0	133.700	60.700	0.0670	0.0043	4.13	54.14	18.000	19.000	0.303	0.588	0.515
6	8.300	1.000	Silty SAND-I	15.0	152.700	69.700	0.0346	0.0036	2.49	26.38	18.000	19.000	0.422	0.575	0.733
7	9.300	1.000	Silty SAND-I	18.0	171.700	78.700	0.0346	0.0036	2.49	26.38	18.000	19.000	0.607	0.563	1.078
8	10.300	1.000	Silty SAND-I	7.0	190.700	87.700	0.0808	0.0082	11.16	45.08	18.000	19.000	0.260	0.552	0.472
9	11.300	1.200	Silty SAND-I	11.0	209.700	96.700	0.0808	0.0082	11.16	45.08	18.000	19.000	0.321	0.540	0.594
10	12.300	0.800	Sandy SILT	6.0	228.250	105.250	0.0346	0.0036	6.43	83.46	17.500	17.500	0.346	0.531	0.653
11	13.300	1.000	Sandy SILT	4.0	245.750	112.750	0.0220	0.0023	13.09	85.52	17.500	17.500	0.274	0.523	0.523
12	14.300	1.000	Sandy SILT	4.0	263.250	120.250	0.0220	0.0023	13.09	85.52	17.500	17.500	0.270	0.516	0.523
13	15.300	1.200	Sandy SILT	4.0	280.750	127.750	0.0225	0.0019	12.53	80.66	17.500	17.500	0.256	0.508	0.505
14	16.300	0.800	Silty SAND-II	10.0	298.400	135.400	0.1600	0.0060	3.23	27.46	17.000	18.000	0.236	0.500	0.472
15	17.300	1.000	Silty SAND-II	7.0	316.400	143.400	0.1600	0.0060	3.23	27.46	17.000	18.000	0.197	0.490	0.402
16	18.300	1.000	Silty SAND-II	20.0	334.400	151.400	0.1600	0.0285	0.00	15.81	17.000	18.000	0.283	0.481	0.589
17	19.300	1.200	Silty SAND-II	11.0	352.400	159.400	0.1600	0.0285	0.00	15.81	17.000	18.000	0.208	0.471	0.441

Liquefaction index : PL=21.005 Thickness of Liquefaction layer(m)=13.200

Judgment of Liquefaction (The guideline of Road Bridge Design)

Project Name : GEOLOGICAL SURVEY ON THE SUPPLEMENT SURVEY FOR THE PROJECT FOR CONSTRUCTION OF BAGO RIVER BRIDGE

Analysis point : BH-13

Design horizontal seismic intensity : 0.30 Groundwater level GL= -1.500m Unit weight of water (kN/m³): 10.000

No.	Depth (m)	Thickness	Layer name	N-value	σ_v (kN/m ²)	σ'_v (kN/m ²)	D50 (mm)	D10 (mm)	Ip	Fc (%)	γ_{t1} (kN/m ³)	γ_{t2} (kN/m ³)	R	L	FL
1		1.500	Filled Soil								18.000	18.000			
2	2.300	1.800	CLAY-I	6.0	41.400	18.400	0.0120	0.0014	13.31	95.28	18.000	18.000	13.217	0.652	20.281
3	4.300	1.700	CLAY-I	3.0	77.400	34.400	0.0260	0.0017	13.31	91.47	18.000	18.000	0.336	0.631	0.531
4	5.300	0.800	Silty SAND-I	2.0	95.700	42.700	0.0910	0.0120	0.00	35.72	18.000	19.000	0.166	0.619	0.268
5	6.300	1.000	Silty SAND-I	4.0	114.700	51.700	0.0910	0.0120	0.00	35.72	18.000	19.000	0.213	0.603	0.353
6	7.300	1.000	Silty SAND-I	9.0	133.700	60.700	0.0980	0.0026	2.58	33.10	18.000	19.000	0.291	0.588	0.495
7	8.300	1.000	Silty SAND-I	33.0	152.700	69.700	0.1200	0.0371	0.00	22.45	18.000	19.000	18.389	0.575	31.957
8	9.300	1.000	Silty SAND-I	18.0	171.700	78.700	0.1300	0.0500	0.00	16.65	18.000	19.000	0.373	0.563	0.662
9	10.300	1.000	Silty SAND-I	18.0	190.700	87.700	0.1300	0.0500	0.00	16.65	18.000	19.000	0.342	0.552	0.621
10	11.300	1.200	Silty SAND-I	11.0	209.700	96.700	0.0980	0.0026	2.58	33.10	18.000	19.000	0.285	0.540	0.528
11	12.300	0.800	Sandy SILT	4.0	228.250	105.250	0.0290	0.0010	9.16	84.30	17.500	17.500	0.276	0.531	0.520
12	13.300	1.000	Sandy SILT	13.0	245.750	112.750	0.1060	0.0200	0.00	26.03	17.500	17.500	0.278	0.523	0.531
13	14.300	1.000	Sandy SILT	12.0	263.250	120.250	0.1060	0.0200	0.00	26.03	17.500	17.500	0.262	0.516	0.509
14	15.300	1.000	Sandy SILT	15.0	280.750	127.750	0.1060	0.0200	0.00	26.03	17.500	17.500	0.287	0.508	0.565
15	16.300	1.200	Sandy SILT	6.0	298.250	135.250	0.0305	0.0010	11.54	85.78	17.500	17.500	0.314	0.500	0.629
16	17.300	0.800	Silty SAND-II	12.0	315.900	142.900	0.1480	0.0136	0.00	21.95	17.000	18.000	0.240	0.491	0.488
17	18.300	1.000	Silty SAND-II	26.0	333.900	150.900	0.1480	0.0136	0.00	21.95	17.000	18.000	0.435	0.482	0.902
18	19.300	1.200	Silty SAND-II	23.0	351.900	158.900	0.1480	0.0136	0.00	21.95	17.000	18.000	0.333	0.472	0.705

Liquefaction index : PL=31.367 Thickness of Liquefaction layer(m)=15.700

Judgment of Liquefaction (The guideline of Road Bridge Design)

Project Name : GEOLOGICAL SURVEY ON THE SUPPLEMENT SURVEY FOR THE PROJECT FOR CONSTRUCTION OF BAGO RIVER BRIDGE

Analysis point : BH-14

Design horizontal seismic intensity : 0.30 Groundwater level GL= -2.000m Unit weight of water (kN/m³): 10.000

No.	Depth (m)	Thickness	Layer name	N-value	σ_v (kN/m ²)	σ'_v (kN/m ²)	D50 (mm)	D10 (mm)	Ip	Fc (%)	γ_{t1} (kN/m ³)	γ_{t2} (kN/m ³)	R	L	FL
1		1.000	Filled Soil								18.000	18.000			
2		1.000	CLAY-I								18.000	18.000			
3	2.300	1.300	CLAY-I	4.0	41.400	18.400	0.0310	0.0018	19.52	69.20	18.000	18.000			
4	4.300	1.700	CLAY-I	2.0	77.400	34.400	0.0220	0.0010	12.28	96.18	18.000	18.000	0.281	0.631	0.445
5	5.300	0.800	Silty SAND-I	12.0	95.700	42.700	0.1060	0.0200	0.00	25.75	18.000	19.000	0.404	0.619	0.653
6	6.300	1.000	Silty SAND-I	6.0	114.700	51.700	0.0950	0.0018	2.39	34.46	18.000	19.000	0.252	0.603	0.418
7	7.300	1.000	Silty SAND-I	5.0	133.700	60.700	0.0950	0.0018	2.39	34.46	18.000	19.000	0.225	0.588	0.382
8	8.300	1.000	Silty SAND-I	18.0	152.700	69.700	0.1060	0.0200	1.59	23.30	18.000	19.000	0.628	0.575	1.091
9	9.300	1.000	Silty SAND-I	22.0	171.700	78.700	0.1060	0.0200	1.59	23.30	18.000	19.000	1.208	0.563	2.145
10	10.300	1.000	Silty SAND-I	20.0	190.700	87.700	0.1060	0.0200	1.59	23.30	18.000	19.000	0.591	0.552	1.071
11	11.300	1.000	Silty SAND-I	9.0	209.700	96.700	0.0800	0.0014	0.00	47.06	18.000	19.000	0.288	0.540	0.533
12	12.300	1.200	Silty SAND-I	12.0	228.700	105.700	0.0800	0.0014	0.00	37.06	18.000	19.000	0.301	0.529	0.569
13	13.300	0.800	Sandy SILT	11.0	247.250	114.250	0.0330	0.0010	7.34	74.08	17.500	17.500	0.928	0.520	1.786
14	14.300	1.200	Sandy SILT	18.0	264.750	121.750	0.0330	0.0010	7.34	74.06	17.500	17.500	10.915	0.512	21.301
15	15.300	0.800	Silty SAND-II	22.0	282.400	129.400	0.1450	0.0010	0.00	35.07	17.000	18.000	0.737	0.504	1.461
16	16.300	1.000	Silty SAND-II	21.0	300.400	137.400	0.1450	0.0010	0.00	35.07	17.000	18.000	0.532	0.496	1.073
17	17.300	1.000	Silty SAND-II	13.0	318.400	145.400	0.2450	0.0056	0.00	16.84	17.000	18.000	0.235	0.486	0.483
18	18.300	1.000	Silty SAND-II	28.0	336.400	153.400	0.3300	0.0680	0.00	10.47	17.000	18.000	0.328	0.477	0.687
19	19.300	1.200	Silty SAND-II	29.0	354.400	161.400	0.3300	0.0680	0.00	10.47	17.000	18.000	0.328	0.468	0.701

Liquefaction index : PL=22.478 Thickness of Liquefaction layer(m)=9.900