

SOIL REPORT REVIEW CHECKLIST

PLOT NO.		DATE						
CONSULTANT		GEOTECHNICAL LAB						
SEC	S/N	ELEMENTS TO BE CHECKED	CONSULTANT			LABORATORY		
SUBMISSION			OK	NOT OK	N/A	OK	NOT OK	N/A
	1.	Revision number clearly shown, traceable changes in report, Geotechnical File number stated in the report.	<input type="checkbox"/>					
	2.	Detailed calculations (calculation methods with references)	<input type="checkbox"/>					
SCOPE AND DESIGN SUMMARY								
	3.	Design details provided by consultant for undertaking analysis	<input type="checkbox"/>					
	4.	Scope of investigation prior to carrying out investigation is adequate	<input type="checkbox"/>					
	5.	All risks & hazards are identified on site recommendations provided include satisfactory mitigation measures	<input type="checkbox"/>					
INVESTIGATION PROCEDURE								
	6.	Elevations and Coordinates measured and reported to the correct coordinate system	<input type="checkbox"/>					
	7.	Investigation carried out to the International and Local standard (EIAC)	<input type="checkbox"/>					
	8.	Investigation able to identify and classify accurately the stratigraphy	<input type="checkbox"/>					
	9.	Sufficient sampling and Lab testing undertaken	<input type="checkbox"/>					
	10.	In-Situ & Lab testing adequate to provide appropriate physical, chemical and engineering parameters	<input type="checkbox"/>					
GROUND CONDITIONS & GROUNDWATER CONDITION								
	11.	Correlation with local geotechnical desk study	<input type="checkbox"/>					
	12.	Presence of voids/cavities at the site	<input type="checkbox"/>					
	13.	Groundwater level accurately determined	<input type="checkbox"/>					
	14.	Aggressive nature of the ground identified and defined	<input type="checkbox"/>					
	15.	Thickness of Manmade ground / Fill correctly identified	<input type="checkbox"/>					
FACTAL REPORT PART								
SOIL / ROCK PROPERTIES FOR EACH LAYER								
	16.	SPT(N) Value	<input type="checkbox"/>					
	17.	Carbonate Content of Soil & Rock	<input type="checkbox"/>					
	18.	Rock Quality Designation (RQD)	<input type="checkbox"/>					
	19.	Unconfined Compressive Strength (UCS)	<input type="checkbox"/>					
	20.	Modulus of Elasticity/Young's modulus (YM)	<input type="checkbox"/>					
	21.	Permeability Parameters.	<input type="checkbox"/>					
	22.	Angle of Internal Friction (ϕ)	<input type="checkbox"/>					
	23.	Cohesion Values (c)	<input type="checkbox"/>					
	24.	Poisson's Ratio	<input type="checkbox"/>					
	25.	Bulk Density (wet/dry)	<input type="checkbox"/>					
INTERPRETATIVE REPORT PART								
POTENTIAL GEOTECHNICAL HAZARDS								
	29.	Soil Erodibility and Protection against Erosion	<input type="checkbox"/>					
	30.	Soil Corrosion	<input type="checkbox"/>					
	31.	Liquefaction Potential	<input type="checkbox"/>					
	32.	Collapse Potential	<input type="checkbox"/>					

GEOTECHNICAL DESIGN PARAMETERS						
33.	Evaluation of Soil/ Rock Parameters based on field an lab tests	<input type="checkbox"/>				
34.	Geotechnical Analytical Parameter Model	<input type="checkbox"/>				
35.	K_o , K_A & K_P (At Rest, Active & Passive Pressure)	<input type="checkbox"/>				
36.	Modulus of Elasticity (Vertical/Horizontal)	<input type="checkbox"/>				
FOUNDATION RECOMMENDATIONS						
A. Shallow & Raft Foundation						
38.	Allowable Bearing Capacity & Settlement (for specific footing size)	<input type="checkbox"/>				
39.	Modulus of Sub-Grade Reaction (K_s)	<input type="checkbox"/>				
B. Pile/ Deep Foundations						
40.	Pile Capacities - Compression & Tension	<input type="checkbox"/>				
41.	QS (Friction) and QB (End Bearing)	<input type="checkbox"/>				
43.	Single Pile Settlement	<input type="checkbox"/>				
44.	Vertical/ Horizontal Single Pile Stiffness	<input type="checkbox"/>				
46.	Horizontal/Vertical Modulus Subgrade (K_H/K_V)	<input type="checkbox"/>				
SEISMIC DESIGN PARAMETERS						
47.	Seismic Zone	<input type="checkbox"/>				
48.	Seismic Zone Factor (z)	<input type="checkbox"/>				
49.	Soil Profile Type	<input type="checkbox"/>				
50.	Seismic Coefficients (C_a & C_v)	<input type="checkbox"/>				
51.	Liquefaction Analysis	<input type="checkbox"/>				
GEOTECHNICAL CONSTRUCTION						
52.	Ground Water Control (Dewatering)	<input type="checkbox"/>				
53.	Excavation Side Slopes (for 1.2 meter only)	<input type="checkbox"/>				
54.	Specifications for Backfilling Material & Compaction Criteria	<input type="checkbox"/>				
PAVEMENT DESIGN (WITHIN THE PLOT)						
55.	Road/Pavement design parameters (CBR, base/sub-base etc.)	<input type="checkbox"/>				
GROUND SOIL IMPROVEMENT						
56.	Type and methodology for ground Improvement	<input type="checkbox"/>				
CONCRETE FOR GEOTECHNICAL WORKS						
57.	Cement Type	<input type="checkbox"/>				
58.	Design Sulphate Class	<input type="checkbox"/>				
APPENDICES						
59.	Site Plan & Borehole Location Plan	<input type="checkbox"/>				
60.	Borehole Logs	<input type="checkbox"/>				
61.	Geological/Geotechnical Cross Section Profiles (A3 format)	<input type="checkbox"/>				
62.	Photographs of Soil & Rock Samples	<input type="checkbox"/>				
63.	In-Situ & Laboratory Test Results	<input type="checkbox"/>				
64.	Liquefaction Analysis (Input and Output Graphs if any)	<input type="checkbox"/>				
65.	Standard References (if any)	<input type="checkbox"/>				

GEOTECHNICAL LAB & CONSULTANT DETAILS					
GEOTECHNICAL LABORATORY			CONSULTANT		
NAME	STAMP	NAME	STAMP	DESIGNATION	SIGNATURE & DATE