

To :

2019 LABORATORY TESTING FEES

Terms : **CASH**
Validity: **1 Year**
Date : **1/1/2019**
QUOTATION No.: -

Item	Description	Test Reference	Unit	Quantity	Rate (RM)	Amount (RM)
1.10.1	Soil Description	ASTM D2487			80.00	
1.0	Classification Tests					
1.13	ASTM Soil Tests					
1.13.1	Moisture content - Accredited	ASTM D2216	nr		40.00	
1.13.2	Speedy moisture tester	ASTM D4944	nr		20.00	
1.13.3	Density - Accredited	ASTM D7263	nr		40.00	
1.13.4	Specific gravity - Accredited	ASTM D854	nr		100.00	
1.13.5	Casagrande-3 points LL, PL & PI - Accredited	ASTM D4318, Method A	nr		270.00	
1.13.6	Casagrande-1 point LL, PL & PI - Accredited	ASTM D4318, Method B	nr		180.00	
1.13.7	Particle size distribution, sieve - Accredited	ASTM D6913/D6913M	nr		100.00	
1.13.8	Particle size distribution, hydrometer - Accredited	ASTM D7928	nr		150.00	
2.0	Compaction-related Tests					
2.4	2.5kg rammer, 1 Litre mould - Accredited	ASTM D698	set		600.00	
2.5	4.5kg rammer, 1 Litre mould - Accredited	ASTM D1557	set		700.00	
3.2	Drained Shearbox					
3.2.1	60x60mm / Dia 60mm, 3 specimens - Accredited	- ASTM D3080	set		1,000.00	
3.2.2	100x100mm / Dia 100mm, 3 specimens - Accredited	- ASTM D3080	set		1,600.00	
4.1	Unconfined compression test					
4.1.7	38/50/70mm dia, 1 size - 1 specimen - Accredited	ASTM D2166/2166M	nr		100.00	
4.1.8	38/50/70mm dia, 1 size - 3 specimens - Accredited	ASTM D2166/2166M	set		300.00	
4.2	UU Triaxial without pwp					
4.2.9	38/50/70mm dia, 1 size <700kPa - Accredited	ASTM D2850	nr		140.00	
4.2.10	38/50/70mm dia, 1 size >700<1400kPa - Accredited	ASTM D2850	nr		400.00	
4.2.11	38/50/70mm dia, 1 size >1400<3000kPa - Accredited	ASTM D2850	nr		600.00	
4.2.12	Remoulded specimen preparation for 4.2	ASTM D2850, Clause 6.4	nr		100.00	
5.2	CU Triaxial with pwp (up to 4 days)					
5.2.8	38/50/70mm dia, 1 size <1400kPa - Accredited	ASTM D4767	set		2,000.00	
5.2.9	38/50/70mm dia, 1 size >1400kPa - Accredited	ASTM D4767	set		3,500.00	
5.3	CD Triaxial with pwp (up to 4 days)					
5.3.8	38/50/70mm dia, 1 size <1400kPa - Accredited	ASTM D4767	set		3,000.00	
5.3.10	38/50/70mm dia, 1 size >1400kPa - Accredited	ASTM D4767	set		5,000.00	
5.2.7	Extra over Items 5.2 & 5.3 for duration over 4 days		day		300.00	
6.0	Compressibility Tests - Single Cycle					
6.2.2	Extra over Item 6.2.3 for duration over 10 days		day		30.00	
6.2.3	1-D consolidation, 1 cycle up to 10 days - Accredited	ASTM D2435/D2435M	nr		400.00	
5.4	CU Cyclic Triaxial Test	ASTM D3999				
5.4.1	Isotropic / anisotropic consolidation, single stage undrained cyclic loading on fine / coarse grained single soil specimen 70mm upto 1,500 cycles at 0.1 to 2 Hz frequency, incl. pwp measurement		nr		12,000.00	
5.4.2	Extra over Item 5.4.1, for additional cyclic loading stage per extra 1,500 cycles or part thereof		nr		3,500.00	
5.4.3	Extra over Item 5.4.1, for post cyclic monotonic loading stage, undrained		nr		2,000.00	

TOTAL :

SOILPRO TECHNICAL SERVICES SDN BHD

Wong

Dr Wong Kim Yuen, DBA (UniSA)
Managing Director

SAMPLING PLAN AND PROCEDURE

Soilpro do not conduct soil sampling. Customers delivering samples for test shall perform sampling according to the followings:

1. BS 5930: 2015, Clause 18 & 25,
2. MS 2038: 2006, Clause 4.3 & 4.4, or
3. Customers' sampling quality plan.

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5.5	Advance Triaxial Test - Stress Path	ASTM D4767 &				
5.5.1	CAU Anisotropic consolidation, single stage compression, stress path undrained test on fine grained single soil specimen 70mm	KH Head, Vol 3, 20.3	nr		4,000.00	
5.5.2	Ko consolidation for Item 5.5.1		nr		1,000.00	
5.5.3	Ko Consolidation- 50,100,200,400 kPa effective stress. Parameters: Ko, Poisson Ratio (derived) and Effective friction angle (derived)		nr		5,000.00	
6.2.2	Extra over Item 6.2.3 for duration over 10 days		day		30.00	
6.2.3	1-D consolidation, 1 cycle up to 10 days - Accredited	ASTM D2435/D2435M	nr		400.00	
6.2.4	1-D consolidation, 2 cycles up to 15 days - Accredited	ASTM D2435/D2435M	nr		550.00	
6.3	1-D Swell or Settlement - Accredited	ASTM D4546				
6.3.1	Free swell, heave % & swell pressure	- Method A	nr		400.00	
6.3.2	Heave % or settle % & swell pressure	- Method B	nr		400.00	
6.3.3	Prevent swell, swell pressure & precon pressure	- Method C	nr		400.00	
6.4	Expansion Index of Soils (Cell id - 101.9mm)	ASTM D4829	nr		600.00	
6.5	Measurement of Collapse Potential of Soils	ASTM D5333	nr		400.00	
7.0	Permeability Tests					
7.1.3	Constant Head Permeameter - Accredited	ASTM D2434	nr		1,000.00	
7.4	Hydraulic Conductivity	ASTM D5084				
7.4.1	38mm diameter, 1 specimen - Accredited		nr		1,000.00	
7.4.2	50mm diameter, 1 specimen - Accredited		nr		1,200.00	
7.4.3	70 / 72mm diameter, 1 specimen - Accredited		nr		1,400.00	
7.5	Saturated Hydraulic Conductivity	ASTM F1815-2006				
7.5.1	Putting green and sports tuff root zones	- Methods A, B, C, D	nr		1,000.00	
8.0	Other Total Stress Tests					
8.1	Hand vane shear, pilcon	ASTM WK54703	nr		25.00	
8.2	Pocket penetrometer	ASTM WK27337	nr		25.00	
10.1	Organic matter	BS 1377:1990, Part 3, 3	nr		45.00	Outsourced
10.3	Total/soluble sulphates (as SO ³)	BS 1377:1990, Part 3, 5	nr		40.00	Outsourced
10.5	Chloride content	BS 1377:1990, Part 3, 7	nr		40.00	Outsourced
10.7	pH value	BS 1377:1990, Part 3, 9	nr		25.00	Outsourced
10.9	Resistivity of soil or water - Accredited by Wenner 4-electrode method, large box (W-39.37mm x L-222.3mm x D-31.90mm)	ASTM G57	nr		400.00	
11.5	Rock Compressive strength - Accredited	ASTM D2938	nr		150.00	
11.6	Do- Y.Modulus - Accredited	ASTM D3148	nr		300.00	
11.7	Do- Y.Modulus & Poisson Ratio - Accredited	ASTM D3148	nr		450.00	
11.9	Rock Point Load Index - Accredited					
11.9.3	Core or block, set of 2 - ASTM E122, Clause 8	ASTM D5371	set		250.00	
11.9.4	Block, set of 2 - ASTM E122, Clause 8	ASTM D5371	set		300.00	
11.9.5	Core or block, set of 10 - D5371, Clause 7.2.1	ASTM D5371	set		1,200.00	
11.9.6	Irregular, set of 20 - D5371, Clause 7.2.2	ASTM D5371	set		2,400.00	

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