

To :

**2018 LABORATORY TESTING FEES**

Effective from 1 June 2018, Goods and Services

Tax- **GST** is zeroised ( 0% )

Soilpro GST No.: 000669077504

Terms : **CASH**

Validity: **1 Year**

Date : **1/6/2018**

QUOTATION No.: -

Item	Description	Test Reference	Unit	Quantity	Rate (RM)	Amount (RM)
<b>1.0</b>	<b>Classification Tests</b>					
<b>1.1</b>	<b>Moisture Content</b>	BS 1377:1990 / MS 1056:2013				
1.1.1	Oven-drying method - <b>Accredited</b>	- Part 2,3.2 / Part 2,4.2	nr		5.00	
<b>1.2</b>	<b>Liquid Limit (LL)</b>	BS 1377:1990 / MS 1056:2013				
1.2.1	Cone-four point method - <b>Accredited</b>	- Part 2,4.3 / Part 2,5.3	set		60.00	
1.2.2	Cone-one point method - <b>Accredited</b>	- Part 2,4.4 / Part 2,5.4	nr		15.00	
1.2.3	Casagrande-four point method - <b>Accredited</b>	- Part 2,4.5 / Part 2,5.5	set		60.00	
1.2.4	Casagrande-one point method - <b>Accredited</b>	- Part 2,4.6 / Part 2,5.6	nr		15.00	
<b>1.3</b>	<b>Plastic Limit (PL)</b> - <b>Accredited</b>	- Part 2,5.3 / Part 2,6.3	nr		12.00	
<b>1.4</b>	<b>Plasticity Index (PI)</b> - <b>Accredited</b>	- Part 2,5.4 / Part 2,6.4	nr		3.00	
<b>1.5</b>	<b>Linear Shrinkage (LS)</b> - <b>Accredited</b>	- Part 2,6.5 / Part 2,7.5	nr		20.00	
<b>1.6</b>	<b>Bulk Density</b>	BS 1377:1990 / MS 1056:2013				
1.6.1	Linear measurement - <b>Accredited</b>	- Part 2,7.2 / Part 2,8.2	nr		20.00	
1.6.2	Immersion in water	- Part 2,7.3 / Part 2,8.3	nr		50.00	
1.6.3	Water displacement	- Part 2,7.4 / Part 2,8.4	nr		50.00	
1.6.4	<b>Dry Density (bulk &amp; dry)</b>		nr		25.00	
<b>1.7</b>	<b>Particle Density (specific gravity)</b>	BS 1377:1990 / MS 1056:2013				
1.7.1	Gas Jar - <b>Accredited</b>	- Part 2,8.2 / Part 2,9.2	nr		80.00	
1.7.2	Small pycnometer - <b>Accredited</b>	- Part 2,8.3 / Part 2,9.3	nr		25.00	
<b>1.8</b>	<b>Mass-Volume Relationship</b>					
1.8.1	Void ratio		nr		40.00	
1.8.2	Submerged Unit Weight		nr		45.00	
1.8.3	Unit Weight		nr		25.00	
1.8.4	Porosity		nr		50.00	
<b>1.9</b>	<b>Particle Size Distribution</b>	BS 1377:1990 / MS 1056:2013				
1.9.1	Coarse grained - sieving - <b>Accredited</b>	-Pt 2,9.2-9.3 / Pt 2,10.2-10.3	nr		20.00	
1.9.2	Fine grained - sieving+hydrometer - <b>Accredited</b>	-ditto- & Pt 2,9.5 / Pt 2,10.5	nr		65.00	
1.9.3	Fine grained-hydrometer, natural state	-ditto-	nr		150.00	
<b>1.10</b>	<b>Soil Classification Group Index - BS</b>	BS 5930:2015	nr		15.00	
<b>1.11</b>	<b>Logging UD samples and Photo</b>		nr		160.00	
<b>1.12</b>	<b>Provide small record samples</b>		nr		20.00	
<b>1.13</b>	<b>ASTM Soil Tests</b>	<b>American Standard</b>				
1.13.1	Moisture content - <b>Accredited</b>	ASTM D2216	nr		40.00	
1.13.2	Speedy moisture tester	ASTM D4944	nr		20.00	
1.13.3	Density - <b>Accredited</b>	ASTM D7263	nr		40.00	
1.13.4	Specific gravity - <b>Accredited</b>	ASTM D854	nr		100.00	
1.13.5	Casagrande-3 points LL, PL & PI - <b>Accredited</b>	ASTM D4318, Method A	nr		270.00	
1.13.6	Casagrande-1 point LL, PL & PI - <b>Accredited</b>	ASTM D4318, Method B	nr		180.00	
1.13.7	Particle size distribution, sieve - <b>Accredited</b>	ASTM D6913/D6913M	nr		100.00	
1.13.8	Particle size distribution, hydrometer - <b>Accredited</b>	ASTM D7928	nr		150.00	

TOTAL :

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Item	Description	Test Reference	Unit	Quantity	Rate (RM)	Amount (RM)
<b>2.0</b>	<b>Compaction-related Tests</b>					
2.1	<u>2.5 kg Rammer</u>	BS 1377:1990 / MS 1056:2013				
2.1.1	1.0 Litre mould (< medium gravel) -1 No. - <b>Accredited</b>	- Part 4,3.3 / Part 4,4.3	nr		60.00	
2.1.2	2.3 Litre CBR (< coarse gravel) -1 No. - <b>Accredited</b>	- Part 4,3.4 / Part 4,4.4	nr		70.00	
2.1.3	1.0 Litre mould - 5 No. (DD vs MC) - <b>Accredited</b>	- Part 4,3.3 / Part 4,4.3	set		300.00	
2.1.4	2.3 Litre CBR mould - 5 No. (DD vs MC) - <b>Accredited</b>	- Part 4,3.4 / Part 4,4.4	set		350.00	
2.1.5	CBR, unsoak - 1 No. - <b>Accredited</b>	- Part 4,7.2 / Part 4,8.2	nr		80.00	
2.1.6	CBR, soak 4 days - 1 No. - <b>Accredited</b>	- Part 4,7.3 / Part 4,8.3	nr		100.00	
2.1.7	CBR, top unsoak/bottom soak 4 days - 1 No	-	nr		90.00	
2.1.8	CBR, unsoak - 5 No. - <b>Accredited</b>	- Part 4,7.2 / Part 4,8.2	set		400.00	
2.1.9	CBR, soak 4 days - 5 No. - <b>Accredited</b>	- Part 4,7.3 / Part 4,8.3	set		450.00	
2.1.10	CBR, top unsoak/bottom soak 4 days - 5 No	-	set		500.00	
2.2	<u>4.5 kg Rammer</u>	BS 1377:1990 / MS 1056:2013				
2.2.1	1.0 Litre mould (< medium gravel) -1 No. - <b>Accredited</b>	- Part 4,3.5 / Part 4,4.5	nr		70.00	
2.2.2	2.3 Litre CBR (< coarse gravel) -1 No. - <b>Accredited</b>	- Part 4,3.6 / Part 4,4.6	nr		80.00	
2.2.3	1.0 Litre mould - 5 No. (DD vs MC) - <b>Accredited</b>	- Part 4,3.5 / Part 4,4.5	set		350.00	
2.2.4	2.3 Litre CBR mould - 5 No. (DD vs MC) - <b>Accredited</b>	- Part 4,3.6 / Part 4,4.6	set		400.00	
2.2.5	CBR, unsoak - 1 No. - <b>Accredited</b>	- Part 4,7.2 / Part 4,8.2	nr		90.00	
2.2.6	CBR, soak 4 days - 1 No. - <b>Accredited</b>	- Part 4,7.3 / Part 4,8.3	nr		110.00	
2.2.7	CBR, top unsoak/bottom soak 4 days - 1 No	-	nr		100.00	
2.2.8	CBR, unsoak - 5 No. - <b>Accredited</b>	- Part 4,7.2 / Part 4,8.2	set		450.00	
2.2.9	CBR, soak 4 days - 5 No. - <b>Accredited</b>	- Part 4,7.3 / Part 4,8.3	set		500.00	
2.2.10	CBR, top unsoak/bottom soak 4 days - 5 No	-	set		550.00	
2.3	<u>Maximum and Minimum Densities</u>	BS 1377:1990				
2.3.1	Maximum density of sands	- Part 4,4.2	nr		250.00	
2.3.2	Maximum density of gravelly soils	- Part 4,4.3	nr		250.00	
2.3.3	Minimum density of sands	- Part 4,4.4	nr		200.00	
2.3.4	Minimum density of gravelly soils	- Part 4,4.5	nr		200.00	
2.3.5	Bulk and dry density by linear measurement	- Part 2,3.2 & 7.2	nr		50.00	
2.3.6	Density index (relative density)	- Part 4,4.6	set		500.00	
2.3.7	Vibrating hammer	- Part 4,3.7	set		500.00	
<b>3.0</b>	<b>Direct Shear Test</b>					
3.1	<b>Drained Shearbox</b>	BS 1377:1990 / MS 1056:2013				
3.1.1	(60x60)mm, 3 specimens - <b>Accredited</b>	- Part 7,4 / Part 7,5	set		500.00	
3.1.2	(60x60)mm, 3 specimens-multi reversal - <b>Accredited</b>	- Part 7,4.5.5 / Part 7,5.5.5	set		1,200.00	
3.1.3	(100x100)mm, 3 specimens - <b>Accredited</b>	- Part 7,4 / Part 7,5	set		750.00	
3.1.4	(100x100)mm, 3 specimens-multi reversal - <b>Accredited</b>	- Part 7,4.5.5 / Part 7,5.5.5	set		1,400.00	
3.1.5	(300x300)mm, 3 specimens	- Part 7,5	set		-	outsourced
3.2	<b>Drained Shearbox</b>	<b>American Standard</b>				
3.2.1	60x60mm/Dia 60mm, 3 specimens - <b>Accredited</b>	- ASTM D3080	set		1,000.00	
3.2.2	100x100mm/Dia 100mm, 3 specimens - <b>Accredited</b>	- ASTM D3080	set		1,600.00	

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Item	Description	Test Reference	Unit	Quantity	Rate (RM)	Amount (RM)
<b>4.0</b>	<b>Total Stress Test</b>					
4.1	Unconfined compression strength	BS 1377:1990 / MS 1056:2013				
4.1.1	38mm dia., 1 specimen - <b>Accredited</b>	- Part 7,7.2 / Part 7,8.2	nr		25.00	
4.1.2	50mm dia., 1 specimen - <b>Accredited</b>	- Part 7,7.2 / Part 7,8.2	nr		35.00	
4.1.3	70 / 72mm dia., 1 specimen - <b>Accredited</b>	- Part 7,7.2 / Part 7,8.2	nr		50.00	
4.1.4	38mm dia., 2 to 3 specimens - <b>Accredited</b>	- Part 7,7.2 / Part 7,8.2	set		70.00	
4.1.5	50mm dia., 2 to 3 specimens - <b>Accredited</b>	- Part 7,7.2 / Part 7,8.2	set		100.00	
4.1.6	70 / 72mm dia., 2 to 3 specimens - <b>Accredited</b>	- Part 7,7.2 / Part 7,8.2	set		140.00	
4.2	<b>UU Triaxial without pwp</b>	BS 1377:1990 / MS 1056:2013				
4.2.1	38mm dia., 1 nr - cell pressure <700kPa - <b>Accredited</b>	- Part 7,8.4 / Part 7,9.4	nr		30.00	
4.2.2	50mm dia., 1 nr - cell pressure <700kPa - <b>Accredited</b>	- Part 7,8.4 / Part 7,9.4	nr		50.00	
4.2.3	70mm dia., 1 nr - cell pressure <700kPa - <b>Accredited</b>	- Part 7,8.4 / Part 7,9.4	nr		70.00	
4.2.4	38mm dia., 2 to 3 specimens <700kPa - <b>Accredited</b>	- Part 7,8.4 / Part 7,9.4	set		90.00	
4.2.5	50mm dia., 2 to 3 specimens <700kPa - <b>Accredited</b>	- Part 7,8.4 / Part 7,9.4	set		150.00	
4.2.6	70mm dia., 2 to 3 specimens <700kPa - <b>Accredited</b>	- Part 7,8.4 / Part 7,9.4	set		210.00	
4.2.7	38/50/70mm dia, 1 nr >700<1400kPa - <b>Accredited</b>	- Part 7,8.4 / Part 7,9.4	nr		200.00	
4.2.8	38/50/70mm dia, 1 nr >1400<3000kPa - <b>Accredited</b>	- Part 7,8.4 / Part 7,9.4	nr		300.00	
<b>5.0</b>	<b>Effective Stress Test - 3 machines per set</b>					
5.1	<b>UU Triaxial with pwp</b>	K.H.Head, Vol.3				
5.1.1	38mm dia., 2 to 3 specimens		set		600.00	
5.1.2	50mm dia., 2 to 3 specimens		set		900.00	
5.1.3	70 / 72mm dia., 2 to 3 specimens		set		1,200.00	
5.2	<b>CU Triaxial (up to 4 days)</b>	BS 1377:1990 / MS 1056:2013				
5.2.1	38mm dia., 1 specimen - <b>Accredited</b>	- Pt 8,1-7 / Pt 8,1-9	nr		200.00	
5.2.2	50mm dia., 1 specimen - <b>Accredited</b>	- Pt 8,1-7 / Pt 8,1-9	nr		300.00	
5.2.3	70 / 72mm dia., 1 specimen - <b>Accredited</b>	- Pt 8,1-7 / Pt 8,1-9	nr		400.00	
5.2.4	38mm dia., 2 to 3 specimens - <b>Accredited</b>	- Pt 8,1-7 / Pt 8,1-9	set		550.00	
5.2.5	50mm dia., 2 to 3 specimens - <b>Accredited</b>	- Pt 8,1-7 / Pt 8,1-9	set		850.00	
5.2.6	70 / 72mm dia., 2 to 3 specimens - <b>Accredited</b>	- Pt 8,1-7 / Pt 8,1-9	set		1,100.00	
5.2.7	Additional days to Item 5.2		day		300.00	
<b>NOTE</b>	<b>Example: Item 5.2.6 - for predominant CLAY</b>	Pro-rated if <15 days	set		4,700.00	Upto 15days/set
5.3	<b>CD Triaxial (up to 4 days)</b>	BS 1377:1990 / MS 1056:2013				
5.3.1	38mm dia., 1 specimen - <b>Accredited</b>	- Pt 8,1-6&8 / Pt 8,1-8&10	nr		300.00	
5.3.2	50mm dia., 1 specimen - <b>Accredited</b>	- Pt 8,1-6&8 / Pt 8,1-8&10	nr		450.00	
5.3.3	70 / 72mm dia., 1 specimen - <b>Accredited</b>	- Pt 8,1-6&8 / Pt 8,1-8&10	nr		550.00	
5.3.4	38mm dia., 2 to 3 specimens - <b>Accredited</b>	- Pt 8,1-6&8 / Pt 8,1-8&10	set		850.00	
5.3.5	50mm dia., 2 to 3 specimens - <b>Accredited</b>	- Pt 8,1-6&8 / Pt 8,1-8&10	set		1,300.00	
5.3.6	70 / 72mm dia., 2 to 3 specimens - <b>Accredited</b>	- Pt 8,1-6&8 / Pt 8,1-8&10	set		1,600.00	
5.3.7	Additional days to Item 5.3		day		300.00	
<b>NOTE</b>	<b>Example: Item 5.3.6 - for predominant CLAY</b>	Pro-rated if <15 days	set		4,900.00	Upto 15days/set

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Item	Description	Test Reference	Unit	Quantity	Rate (RM)	Amount (RM)
<b>5.4</b>	<b>CU Cyclic Triaxial Test</b>	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		16,000.00	
5.4.2	Extra over Item 5.4.1, for additional cyclic stage per extra 1,500 cycles or part thereof		nr		4,500.00	
5.4.3	Extra over Item 5.4.1, for post cyclic monotonic loading stage, undrained		nr		2,500.00	
<b>5.5</b>	<b>Advance Triaxial Test - Stress Path</b>	ASTM D4767 & KH Head, Vol 3, 20.3				
5.5.1	CAU Anisotropic consolidation, single stage compression, stress path undrained test on fine grained single soil specimen 70mm		nr		4,800.00	
5.5.2	Ko consolidation for Item 5.5.1		nr		1,200.00	
5.5.3	Ko Consolidation- 50,100,200,400 kPa effective stress. Parameters: Ko, Poisson Ratio (derived) and Effective friction angle (derived)		nr		6,000.00	
<b>5.6</b>	<b>Extra over - Prepare test specimen for Items No.4 and No.5</b>	BS 1377:1990 - Part 7, 8.3.3.2 (c)				
5.6.1	Remould / reconstitute from undisturbed or block sample at natural moisture and density:					
5.6.1.1	38 to 72mm diameter, 1 specimen		nr		50.00	
5.6.1.2	38 to 72mm diameter, 3 specimens		set		150.00	
5.6.2	Remould / reconstitute from disturbed bulk sample at specified moisture and density based on compaction (Item No.2) or compactive effort:					
5.6.2.1	38 to 72mm diameter, 1 specimen		nr		100.00	
5.6.2.2	38 to 72mm diameter, 3 specimens		set		300.00	
5.6.3	Soil lathe trimming from undisturbed block					
5.6.3.1	38 to 72mm diameter, 1 specimen		nr		150.00	
5.6.3.2	38 to 72mm diameter, 3 specimens		set		400.00	

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<b>6.0</b>	<b>Compressibility Tests - Oedometer</b>	BS 1377:1990 / MS 1056:2013				
6.1	<b>1-D Consolidation (up to 10 days) - Single Cycle</b>	- Part 5,3 / Part 5,4				
6.1.1	7 loads and 3 unloads (with t90 graphs) - <b>Accredited</b>	- Part 5,3,5 / Part 5,4,5	nr		150.00	
6.1.2	Swelling pressure determination - <b>Accredited</b>	- Part 5,4,3 / Part 5,5,3	nr		200.00	
6.1.3	Measurement of swelling - <b>Accredited</b>	- Part 5,4,4 / Part 5,5,4	nr		360.00	
6.1.4	Settlement on saturation - <b>Accredited</b>	- Part 5,4,5 / Part 5,5,5	nr		360.00	
6.1.5	Secondary loading (with t90&t50) - <b>Accredited</b>	- Part 5,3,5 / Part 5,4,5	nr		230.00	
6.2	<b>1-D Consolidation (up to 15 days) - Two Cycles</b>					
6.2.1	5 loads - 2 unloads & 6 reloads - 3 unloads - <b>Accredited</b>	- Part 5,3 / Part 5,4	nr		300.00	
6.2.2	Additional duration to Item 6.1 and 6.2		day		30.00	
<b>NOTE</b>	<b>Example Item No 6.1.5 - RM150.00 (t90 graphs) + RM80.00 (t50 graphs)</b>	1 cycle loads & unloads	-		230.00	
	<b>Example Item No 6.1.5 + Extra over 1 day</b>		-		260.00	
	<b>Select Item No 6.2 and determine the extra days &gt;15 days to add cost for additional duration (Item No 6.3).</b>	2 cycles loads & unloads	-	Refer to items rate		
6.3	<b>1-D Swell or Settlement</b>	ASTM D4546				
6.3.1	Free swell, heave % & swell pressure - <b>Accredited</b>	- Method A	nr		400.00	
6.3.2	Heave % or settle % & swell pressure - <b>Accredited</b>	- Method B	nr		250.00	
6.3.3	Prevent swell & swell pressure - <b>Accredited</b>	- 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		360.00	
6.6	Free swell index	IS 2720, Part XL, 1977	nr		400.00	
<b>7.0</b>	<b>Permeability Tests</b>	BS 1377:1990 / MS 1056:2013				
7.1	<b>Constant Head Permeameter: non-cohesive soil</b>	- Part 5,5 / Part 5,6				
7.1.1	Sample size: 90mm x 195mm - <b>Accredited</b>		nr		400.00	
7.1.2	Sample size: 114mm x 296mm - <b>Accredited</b>		nr		650.00	
7.2	<b>Falling Head Permeameter: cohesive soil</b>	K.H.Head, Vol.2	nr		900.00	
7.3	<b>Constant Head triaxial cell: cohesive soil</b>	BS 1377:1990 / MS 1056:2013				
7.3.1	38mm diameter, 1 specimen - <b>Accredited</b>	- Part 6,6 / Part 6,7	nr		500.00	
7.3.2	50mm diameter, 1 specimen - <b>Accredited</b>	- Part 6,6 / Part 6,7	nr		600.00	
7.3.3	70 / 72mm diameter, 1 specimen - <b>Accredited</b>	- Part 6,6 / Part 6,7	nr		700.00	
7.4	<b>Hydraulic Conductivity</b>	ASTM D5084				
7.4.1	38mm diameter, 1 specimen - <b>Accredited</b>		nr		1,000.00	
7.4.2	50mm diameter, 1 specimen - <b>Accredited</b>		nr		1,200.00	
7.4.3	70 / 72mm diameter, 1 specimen - <b>Accredited</b>		nr		1,400.00	
7.5	<b>Saturated Hydraulic Conductivity</b>	ASTM F1815-2006				
7.5.1	Putting green and sports tuff root zones	- Methods A, B, C, D	nr		1,000.00	

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Soil properties applied to geotechnical engineering

# QUOTATION

## SOILPRO TECHNICAL SERVICES SDN BHD

16 Jalan TIB-1/17, Taman Industri Bolton, 68100 Batu Caves, Selangor, Malaysia.

Tel: 603-6188 6975 Fax: 603-6185 5903 eMail: labtest@soilpro.com.my

Company No.: 380315-T

URL: http://soilpro.com.my



MS ISO/IEC 17025 TESTING SAMM NO. 728



QR Code Accredited Current Scope

To :

### 2018 LABORATORY TESTING FEES

Effective from 1 June 2018, Goods and Services

Tax- GST is zeroised ( 0% )

Soilpro GST No.: 000669077504

Terms : **CASH**

Validity: **1 Year**

Date : **1/6/2018**

QUOTATION No.: -

Item	Description	Test Reference	Unit	Quantity	Rate (RM)	Amount (RM)
<b>8.0</b>	<b>Other Total Stress Tests</b>					
8.1	Hand vane shear, pilcon	ASTM WK54703	nr		25.00	
8.2	Pocket penetrometer	ASTM WK27337	nr		25.00	
<b>9.0</b>	<b>Durability/Dispersibility Tests</b>	BS 1377:1990 / MS 1056:2013				
9.1	Pinhole Method - <b>Accredited</b>	- Part 5,6.2 / Part 5,7.2	nr		500.00	
9.2	Crumb Method - <b>Accredited</b>	- Part 5,6.3 / Part 5,7.3	nr		400.00	
9.3	Dispersion Method- Double Hydrometer - <b>Accredited</b>	- Part 5,6.4 / Part 5,7.4	nr		200.00	
9.4	Emerson Test (same as item 9.2) - <b>Accredited</b>	AS1289.3.8.1	nr		400.00	
<b>10.0</b>	<b>Soil/water Chemical Tests</b>	BS 1377:1990				
10.1	<u>Outsourced Accredited Laboratory</u>					
10.1.1	Organic matter - <b>Accredited</b>	- Part 3,3	nr		60.00	Outsourced
10.1.2	Total/soluble sulphates (as SO <sup>3</sup> ) - <b>Accredited</b>	- Part 3,5	nr		60.00	Outsourced
10.1.3	Chloride - <b>Accredited</b>	- Part 3,7	nr		60.00	Outsourced
10.1.4	pH value - <b>Accredited</b>	- Part 3,9	nr		40.00	Outsourced
10.2	<u>Outsourced Non-accredited Laboratory</u>					
10.2.1	Organic matter	- Part 3,3	nr		45.00	Outsourced
10.2.2	Loss on Ignition	- Part 3,4	nr		80.00	Outsourced
10.2.3	Total/soluble sulphates (as SO <sup>3</sup> )	- Part 3,5	nr		40.00	Outsourced
10.2.4	Carbonate	- Part 3,6	nr		100.00	Outsourced
10.2.5	Chloride	- Part 3,7	nr		40.00	Outsourced
10.2.6	Total dissolved solids	- Part 3,8	nr		50.00	Outsourced
10.2.7	Sulphide/sulfide (SO <sup>2-</sup> )		nr		80.00	Outsourced
10.3	<u>Soilpro Laboratory</u>					
10.3.1	pH value	- Part 3,9	nr		25.00	
10.3.2	Total suspended solids	APHA 2540D	nr		40.00	
10.3.3	Resistivity of soil or water - <b>Accredited</b> by Wenner 4-electrode method, large box (W-39.37mm x L-222.3mm x D-31.90mm)	ASTM G57	nr		400.00	
10.3.4	Calcium carbonate (Calcite) - qualitative	AS 1289.3.8.1	nr		100.00	
10.3.5	Calcium sulfate (Gypsum) - qualitative	AS 1289.3.8.1	nr		100.00	

TOTAL :

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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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Item	Description	Test Reference	Unit	Quantity	Rate (RM)	Amount (RM)
<b>11.0</b>	<b>Rock / Aggregate Tests</b>					
11.1	Sieve Analysis - <b>Accredited</b>	BSEN 933-1:2012	nr		80.00	
11.2	Moisture Content	BS 812:1990, 109	nr		25.00	
11.3	Aggregate relative density/water absorption	ASTM C127	nr		200.00	
11.4	Rock S.G. & absorption	ASTM D6473	nr		150.00	
11.5	Rock Compressive strength - <b>Accredited</b>	ASTM D2938	nr		150.00	
11.6	Do- Y.Modulus - <b>Accredited</b>	ASTM D3148	nr		300.00	
11.7	Do- Y.Modulus & Poisson Ratio - <b>Accredited</b>	ASTM D3148	nr		450.00	
11.8	Rock Petrographic Analysis (ISRM)	ASTM C295	nr		-	Outsourced
11.9	Rock Point Load Index - <b>Accredited</b>					
11.9.1	Cylindrical core, 1 specimen	AS 4133.4.1	nr		125.00	
11.9.2	Block or irregular, 1 specimen	AS 4133.4.1	nr		150.00	
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	
11.10	Rock hardness by Rebound	ASTM D5873	nr		100.00	
11.11	Rebound Number of hardened	ASTM C805	nr		100.00	
11.12	Crushing Value	BS 812:1990, 110	nr		200.00	
11.13	Ten Percent Fines	BS 812:1990, 111	nr		-	Outsourced
11.14	Impact Value	BS 812:1990, 112	nr		-	Outsourced
11.15	Abrasion Value	BS 812:1990, 113	nr		-	Outsourced
11.16	Polished Stone Value	BS 812:1989, 114	nr		-	Outsourced
11.17	Flakiness Index	BS EN 933-3:2012	nr		100.00	
11.18	Elongation Index	BS 812:1990, 105.2	nr		-	Outsourced
11.19	Angularity Number	BS 812:1975, Part1, 7.5	nr		-	Outsourced
11.20	Soundness Test	ASTM C88	nr		-	Outsourced
11.21	Alkali Silica Reactivity	ASTM C289	nr		-	Outsourced
11.22	Organic Impurities	ASTM C40	nr		100.00	
11.23	Rock density		nr		80.00	
11.24	Rock specific gravity		nr		150.00	
<b>12.0</b>	<b>Concrete</b>					
12.1	Concrete core test, diameter	BS 1881:1983, 120	nr		130.00	
12.2	Cut, trim and cap concrete core		nr		40.00	
12.3	Concrete cube test	BS 1881:1983, 116	nr		7.00	
<b>13.0</b>	<b>Effective/Apparent Viscosity</b>					
13.1	Marsh funnel viscosity	ASTM D6910	nr		200.00	
<b>14.0</b>	<b>Photograph</b>					
14.1	Digital photo	-	nr		10.00	

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