

To :

2017 LABORATORY TESTING FEES

Effective from 1 April 2015, all Rates is subject to
Goods and Services Tax (GST) of 6%

Royal Malaysia Customs Department website at
www.gst.customs.gov.my

GST No.: **000669077504**

QUOTATION No. :-

Terms :-

Validity: **1 Year**

Date : **1/1/2017**

Item	Description	Test Reference	Unit	Quantity	Rate (RM)	Amount (RM)
1.0	Classification Tests					
1.1	Moisture Content	BS1377: 1990				
1.1.1	Oven-drying method - Accredited	- Part 2, Method 3.2	nr		5.00	
1.1.2	Speedy moisture tester	ASTM D4944, 1998	nr		20.00	
1.2	Liquid Limit (LL)	BS1377: 1990				
1.2.1	Cone-four point method	- Part 2, Method 4.3	set		60.00	
1.2.2	Cone-one point method	- Part 2, 4.4	nr		15.00	
1.2.3	Casagrande-four point method	- Part 2, 4.5	set		60.00	
1.2.4	Casagrande-one point method	- Part 2, 4.6	nr		15.00	
1.3	Plastic Limit (PL)	- Part 2, Method 5.3	nr		12.00	
1.4	Plasticity Index (PI) – derivation	- Part 2, 5.4	nr		3.00	
1.5	Linear Shrinkage (LS)	- Part 2, Method 6.5	nr		20.00	
1.6	Bulk Density	BS1377: 1990				
1.6.1	Linear measurement - Accredited	- Part 2, Method 7.2	nr		20.00	
1.6.2	Immersion in water	- Part 2, 7.3	nr		50.00	
1.6.3	Water displacement	- Part 2, 7.4	nr		50.00	
1.6.4	Dry Density (bulk & dry densities)	- Cl. 7.2.5 / 7.3.6 / 7.4.5	nr		25.00	
1.7	Particle Density (specific gravity)	BS1377: 1990				
1.7.1	Gas Jar	- Part 2, Method 8.2	nr		80.00	
1.7.2	Small pycnometer - Accredited	- Part 2, 8.3	nr		25.00	
1.8	Mass-Volume Relationship					
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	
1.9	Particle Size Distribution	BS1377: 1990				
1.9.1	Coarse grained - sieving	- Part 2, Method 9.2, 9.3	nr		20.00	
1.9.2	Fine grained-hydrometer + sieving	- Part 2, 9.2, 9.3, 9.5	nr		65.00	
1.9.3	Fine grained-hydrometer, natural state	- ditto - (Part 1, 7.4.5)	nr		150.00	
1.10	Soil Classification Group Index - BS	BS5930:1999	nr		15.00	
1.11	Logging UD samples and Photo		nr		160.00	
1.12	Provide small record samples		nr		20.00	
1.13	ASTM Soil Tests					
1.13.1	Casagrande-3 points LL, PL & PI	ASTM D 4318, Method A	nr		270.00	
1.13.2	Casagrande-1 point LL, PL & PI	ASTM D 4318, Method B	nr		180.00	
1.13.3	ASTM D 422-63 - Sieve Analysis	ASTM D 422	nr		100.00	
1.13.4	ASTM D 422-63 - hydrometer	ASTM D 422	nr		150.00	
1.13.5	Specific Gravity, volumetric flask 250ml	ASTM D 854	nr		100.00	

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2.0	Compaction-related Tests					
2.1	<u>2.5 kg Rammer - Accredited 2.1.1 to 2.1.4</u>	BS1377: 1990				
2.1.1	1.0 Litre mould (upto medium gravel)-1 No.	- Part 4, Method 3.3	nr		60.00	
2.1.2	2.3 Litre CBR mould (upto coarse gravel)-1 No.	- Part 4, 3.4	nr		70.00	
2.1.3	1 Litre mould-5 No. (DD vs MC)	- Part 4, 3.3	set		300.00	
2.1.4	2.3 Litre CBR mould-5 No. (DD vs MC)	- Part 4, 3.4	set		350.00	
2.1.5	CBR, unsoak-1 No.	- Part 4, Method 7.2	nr		80.00	
2.1.6	CBR, soak 4 days-1 No.	- Part 4, 7.3	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.	- Part 4, 7.2	set		400.00	
2.1.9	CBR, soak 4 days-5 No.	- Part 4, 7.3	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 - Accredited 2.2.1 to 2.2.4</u>	BS1377: 1990				
2.2.1	1.0 Litre mould (upto medium gravel)-1 No.	- Part 3, Method 3.5	nr		70.00	
2.2.2	2.3 Litre CBR mould (upto coarse gravel)-1 No.	- Part 4, 3.6	nr		80.00	
2.2.3	1 Litre mould-5 No. (DD vs MC)	- Part 4, 3.5	set		350.00	
2.2.4	2.3 Litre CBR mould-5 No. (DD vs MC)	- Part 4, 3.6	set		400.00	
2.2.5	CBR, unsoak-1 No.	- Part 4, Method 7.2	nr		90.00	
2.2.6	CBR, soak 4 days-1 No.	- Part 4, 7.3	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.	- Part 4, 7.2	set		450.00	
2.2.9	CBR, soak 4 days-5 No.	- Part 4, 7.3	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>					
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	
3.0	Direct Shear Test					
3.1	Drained Shearbox - Accredited 3.2.1 to 3.2.4	BS1377: 1990				
3.1.1	(60x60)mm, 3 specimens	- Part 7, Method 4	set		500.00	
3.1.2	(60x60)mm, 3 specimens- multi reversal	- Part 7, 4.5.5	set		900.00	
3.1.3	(100x100)mm, 3 specimens	- Part 7, 4	set		750.00	
3.1.4	(100x100)mm, 3 specimens - multi reversal	- Part 7, 4.5.5	set		1,350.00	
3.1.5	(300x300)mm, 3 specimens - outsourced	- Part 7, 5	set		-	outsourced
3.2	Drained Shearbox - Square & circular shape	American Standard				
3.2.1	60x60mm or Dia 60mm, 3 specimens	- ASTM D3080	set		600.00	
3.2.2	100x100mm or Dia 100mm, 3 specimens	- ASTM D3080	set		850.00	

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4.0	Total Stress Test					
4.1	Unconfined compression strength	BS1377: 1990				
4.1.1	38mm diameter, 1 specimen	- Part 7, Method 7.2	nr		25.00	
4.1.2	50mm diameter, 1 specimen	- Part 7, 7.2	nr		35.00	
4.1.3	70 / 72mm diameter, 1 specimen	- Part 7, 7.2	nr		50.00	
4.1.4	38mm diameter, 2 to 3 specimens	- Part 7, 7.2	set		70.00	
4.1.5	50mm diameter, 2 to 3 specimens	- Part 7, 7.2	set		100.00	
4.1.6	70 / 72mm diameter, 2 to 3 specimens	- Part 7, 7.2	set		140.00	
4.2	UU Triaxial without pwp	BS1377: 1990				
4.2.1	38mm diameter, 1 specimen	- Part 7, Method 8.4	nr		30.00	
4.2.2	50mm diameter, 1 specimen	- Part 7, 8.4	nr		50.00	
4.2.3	70 / 72mm diameter, 1 specimen	- Part 7, 8.4	nr		70.00	
4.2.4	38mm diameter, 2 to 3 specimens	- Part 7, 8.4	set		90.00	
4.2.5	50mm diameter, 2 to 3 specimens	- Part 7, 8.4	set		150.00	
4.2.6	70 / 72mm diameter, 2 to 3 specimens	- Part 7, 8.4	set		210.00	
5.0	Effective Stress Test - 3 machines per set					
5.1	UU Triaxial with pwp	K.H.Head, Vol.3				
5.1.1	38mm diameter, 2 to 3 specimens		set		600.00	
5.1.2	50mm diameter, 2 to 3 specimens		set		800.00	
5.1.3	70 / 72mm diameter, 2 to 3 specimens		set		1,000.00	
5.2	CU Triaxial (up to 3 days) - Accredited	BS1377: 1990				
5.2.1	38mm diameter, 1 specimen	- Part 8, Method 1~6 & 7	nr		200.00	
5.2.2	50mm diameter, 1 specimen	- Part 8, 1~6 & 7	nr		300.00	
5.2.3	70 / 72mm diameter, 1 specimen	- Part 8, 1~6 & 7	nr		400.00	
5.2.4	38mm diameter, 2 to 3 specimens	- Part 8, 1~6 & 7	set		550.00	
5.2.5	50mm diameter, 2 to 3 specimens	- Part 8, 1~6 & 7	set		850.00	
5.2.6	70 / 72mm diameter, 2 to 3 specimens	- Part 8, 1~6 & 7	set		1,100.00	
5.2.7	Additional days to Item 5.2		day		300.00	
NOTE	Example: Item 5.2.6 - for predominant CLAY	Pro-rated if <15 days	set		4,700.00	Upto 15days/set
5.3	CD Triaxial (up to 4 days)	BS1377: 1990				
5.3.1	38mm diameter, 1 specimen	- Part 8, Method 1~6 & 8	nr		300.00	
5.3.2	50mm diameter, 1 specimen	- Part 8, 1~6 & 8	nr		450.00	
5.3.3	70 / 72mm diameter, 1 specimen	- Part 8, 1~6 & 8	nr		550.00	
5.3.4	38mm diameter, 2 to 3 specimens	- Part 8, 1~6 & 8	set		850.00	
5.3.5	50mm diameter, 2 to 3 specimens	- Part 8, 1~6 & 8	set		1,300.00	
5.3.6	70 / 72mm diameter, 2 to 3 specimens	- Part 8, 1~6 & 8	set		1,600.00	
5.3.7	Additional days to Item 5.3		day		300.00	
NOTE	Example: Item 5.3.6 - for predominant CLAY	Pro-rated if <15 days	set		4,900.00	Upto 15days/set

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5.4	CU Cyclic Triaxial Test	ASTM D3999, 2011				
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 loading 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	
5.5	CAU Triaxial Test - Stress Path	ASTM D4767, 2011 & KH Head, Vol 3, 20.3				
5.5.1	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	
5.6	Extra over - Prepare test specimen for Items No.4 and No.5	BS1377: 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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Item	Description	Test Reference	Unit	Quantity	Rate (RM)	Amount (RM)
6.0	Compressibility Tests - Oedometer	BS1377: 1990				
6.1	<u>1-D Consolidation (up to 10 days) - Single Cycle</u>	- Part 5, Method 3				
6.1.1	7 loads and 3 unloads (with t90 graphs)	- Part 5, 3.5	nr		150.00	
6.1.2	Swelling pressure determination	- Part 5, 4.3	nr		200.00	
6.1.3	Measurement of swelling	- Part 5, 4.4	nr		360.00	
6.1.4	Settlement on saturation	- Part 5, 4.5	nr		360.00	
6.1.5	Secondary consolidation (with t90&t50 graphs)		nr		230.00	
6.2	<u>1-D Consolidation (up to 15 days) - Two Cycles</u>					
6.2.1	5 loads-2 unloads and 6 reloads-3 unloads	- Part 5, Method 3	nr		300.00	
6.2.3	Additional duration to Item 6.1 and 6.2		day		30.00	
NOTE	Example Item No 6.1.5 - RM150.00 (t90 graphs) + RM80.00 (t50 graphs)	1 cycle loads & unloads	-		230.00	
	Example Item No 6.1.5 + Extra over 1 day		-		260.00	
	Select Item No 6.2 and determine the extra days >15 days to add cost for additional duration (Item No 6.3).	2 cycles loads & unloads	-	Refer to items rate		
6.3	<u>1-D Swell or Settlement Potential of Soils</u>	ASTM D4546, 2003				
6.3.1	Free swell, heave % & swell pressure	- Method A	nr		400.00	
6.3.2	Heave % or settle % & swell pressure	- Method B	nr		250.00	
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, 2003	nr		600.00	
6.5	Measurement of Collapse Potential of Soils	ASTM D5333, 2003	nr		350.00	
6.6	Free swell index	IS 2720, Part XL, 1977	nr		400.00	
7.0	Permeability Tests	BS1377: 1990				
7.1	Constant Head Permeameter: non-cohesive soil	- Part 5, Method 5				
7.1.1	Sample size: 90mm x 195mm length		nr		350.00	
7.1.2	Sample size: 114mm x 296mm length		nr		650.00	
7.2	Falling Head Permeameter: cohesive soil	K.H.Head, Vol.2	nr		450.00	
7.3	Constant Head triaxial cell: cohesive soil	BS1377: 1990				
7.3.1	38mm diameter, 1 specimen	- Part 6, Method 6	nr		450.00	
7.3.2	50mm diameter, 1 specimen	- Part 6, 6	nr		550.00	
7.3.3	70 / 72mm diameter, 1 specimen	- Part 6, 6	nr		650.00	
7.4	Hydraulic Conductivity	ASTM D5084-2003				
7.4.1	38mm diameter, 1 specimen		nr		800.00	
7.4.2	50mm diameter, 1 specimen		nr		1,000.00	
7.4.3	70 / 72mm diameter, 1 specimen		nr		1,200.00	
7.5	Saturated Hydraulic Conductivity	ASTM F1815-2006				
7.5.1	Putting green and sports tuff root zones	- Methods A, B, C, D	nr		800.00	

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11.0	Rock / Aggregate Tests					
11.1	Sieve Analysis	BS812:1985, 103.1	nr		80.00	
11.2	Moisture Content	BS812:1990, 109	nr		25.00	
11.3	Aggregate relative density/water absorption	ASTM C127, 2001	nr		200.00	
11.4	Rock S.G. & absorption	ASTM D6473, 1999	nr		150.00	
11.5	Rock Compressive strength	ASTM D2938, 2002	nr		130.00	
11.6	Do- Y.Modulus	ASTM D3148, 2002	nr		300.00	
11.7	Do- Y.Modulus & Poisson Ratio	ASTM D3148, 2002	nr		450.00	
11.8	Rock Petrographic Analysis (ISRM)	ASTM C295, 2003	nr		-	Outsourced
11.9	Rock Point Load Index (D=Diameter or Depth)	ASTM D5371, 2002				
11.9.1	Cylindrical core, nominal D=50mm		nr		100.00	
11.9.2	Irregular lump (rectangular), L > 0.5D		nr		130.00	
11.10	Rock hardness by Rebound Hammer	ASTM D5873, 2000	nr		50.00	
11.11	Rebound Number of hardened concrete	ASTM C805, 2002	nr		50.00	
11.12	Crushing Value	BS812:1990, 110	nr		-	Outsourced
11.13	Ten Percent Fines	BS812:1990, 111	nr		-	Outsourced
11.14	Impact Value	BS812:1990, 112	nr		-	Outsourced
11.15	Abrasion Value	BS812:1990, 113	nr		-	Outsourced
11.16	Polished Stone Value	BS812:1989, 114	nr		-	Outsourced
11.17	Flakiness Index	BS812:1989, 105.1	nr		-	Outsourced
11.18	Elongation Index	BS812:1990, 105.2	nr		-	Outsourced
11.19	Angularity Number	BS812:1975, Part1, 7.5	nr		-	Outsourced
11.20	Soundness Test	ASTM C88, 1999	nr		-	Outsourced
11.21	Alkali Silica Reactivity	ASTM C289, 2003	nr		-	Outsourced
11.22	Organic Impurities	ASTM C40, 2004	nr		100.00	
11.23	Rock density		nr		80.00	
11.24	Rock specific gravity		nr		150.00	
12.0	Concrete					
12.1	Concrete core test, diameter 100mm	BS1881:1983, 120	nr		130.00	
12.2	Cut, trim and cap concrete core		nr		40.00	
12.3	Concrete cube test	BS1881:1983, 116	nr		7.00	
13.0	Effective/Apparent Viscosity					
13.1	Marsh funnel viscosity	ASTM D6910	nr		200.00	
14.0	Photograph					
14.1	Digital photo		nr		10.00	

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