

BAHAGIAN 3.5 : GEOTECHNICAL WORK (CLASS G)

BIL	KETERANGAN KERJA	UNIT	PURATA KADAR HARGA 2013 (RM)			
			KAWASAN UTARA	KAWASAN TENGAH	KAWASAN TIMUR	KESELURUHAN
RETAINING STRUCTURES						
1	<p><u>Gabion</u> 1.0 m x 1.0 m x 1.0 m rock-filled gabion with PVC-coated wire gauge size of 2.7 mm dia. as shown in the drawings. Rate to include for laying underwater. (Refer specification Clause 1.5-Drainage).</p>	m3		196.46		196.46
2	<p><u>Mattress</u> Supply and deliver Reno Mattress 6m x 1m x 0.23m thk.wire to BS 1052/1980 Heavily Galvanised to BS 443/1982 mesh size 80mm thk. and PVC coated.</p>	m3		100.00		100.00
3	<p>Installation of Reno Mattress 6m x 1m x 0.23 thk inclusive of stone size 150mm - 225mm.</p>	m2		28.52		28.52
4	<p>Supply and install Jumbo Mattress 500mm thk. core wire 2.7mm dia. wire to BS 1052/1980 Heavily Galvanised to BS 443/1982 Mesh size 80mm thk. and PVC coated or equivalent unit with stone infill 150mm - separator MXC 60 at the backfill. 225mm come with geotextile.</p>	m2		153.77		153.77
5	<p>Supply and install reinforcement mattress, coir fibre double netting, high strength 42kN/m x 42kN/m reinforcement tendons, secured w/J-rebar 12mmØ x 500mm(L) @ 1m ctr. laterally & longitudinally, top-soil, nutrient w/microb., w/grass seeding.</p>	m2		62.00		62.00
6	<p>Install top-berm anchor trench @ 300mm(W) x 500mm(D) Dig trench, secure mattress w/J-Rebar 12mm Ø x 500mm(L), close trench & compact.</p>	m2		10.00		10.00

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7	Supply and install high strength tie-back anchors onto mattress, include "set & lock" in place at 200kg "pull-out" strength at (1.5-2)m deep (approx.1unit per 2m ² area-mattress coverage.	no.		85.00		85.00
8	Supply and install of Sandfill Mattress Infill with sand as approved by S.O inclusive of trimming, cutting, handling, laying and jointing.	m2		75.00		75.00
9	Supply and install of Sandfill Mattress without sand infill inclusive of trimming, cutting, handling, laying and jointing.	m2		47.00		47.00
10	To construct top trenching work for sandfill mattress anchoring and backfill with compacted local material.	m		3.30		3.30
13	c) Approved Envirofelt CF400 - coconut fibres erosion control blanket (400g/m2) or equivalent.	m2		2.80		2.80
14	Supply and lay rip-rap stone size 300mm - 550mm diameter.	m3		78.00		78.00
15	Supply and lay 100mm thickness of 20mm to 50mm stones.	m3		66.50		66.50
16	Supply and lay armour rocks dia. 200mm to 500 mm rocks with 1.2 m minimum thickness for toe protection to the flood wall as specified in drawing and Specification.	m3		70.00		70.00

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17	Supply, deliver and lay armour rocks dia. 300mm to 550 mm rocks with minimum 1.5 m thickness as shown in the drawings or as directed by S.O. inclusive of all levelling, setting out, machineries and related works for necessary completion of the works.	m3		75.00		75.00
18	Supply and lay suitable rock materials or as primary armour layer with weights between 2.2 tonne to 3.6 tonne with 50% of the materials must be W50 > 2.9 tonne as specified.	m3			115.68	115.68
19	Supply and lay 30kg-40kg stones as armour layer.	m3			101.09	101.09
20	Supply and lay 200mm thick 10/50mm stone.	m2		35.00		35.00
21	Supply and lay 220kg-360kg stones as secondary armour layer as specified.	m3			104.49	104.49
22	Supply and lay 10kg-20kg stones as core materials	m3			85.59	85.59
23	Supply and lay rip-rap granatic rock with size 400mm to 600mm of minimum thickness of 1200mm.	m3		90.00		90.00
24	Supply and lay 225mm thk rubble pitching.	m2	102.00			102.00
25	Supply and Install Turf Reinforcement Mat (TRM) Type C350 or equivalent, inclusive of cutting, handling, laying and jointing.	m3		20.60		20.60

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26	<p><u>Reinforced Soil Wall</u></p> <p>Supply, deliver, erect and install of RS Wall components consisting of hexagonal shaped precast concrete panels, reinforcing bar, anchor blocks, joint fillers, cushion pads and fasteners.</p> <p><u>Supply and install precast concrete floodwall post-panel system as specified.</u></p>	m2		383.00		383.00
27	Wellguard RC Post (PT-9) or other approved and equivalent with minimum 9 m of length.	no.		3,310.00		3,310.00
28	Two panel of Wellguard RC Panel (W-23) or other approved and equivalent with minimum 3 m of length of each panel.	no.		1,370.00		1,370.00
29	Supply and lay 230mm thick 200/400mm cement Grouted stone.	m2		45.00		45.00