

BAHAGIAN 3.5 : GEOTECHNICAL WORK (CLASS G)

Kawasan Utara - Perlis, Kedah, Pulau Pinang dan Perak
 Kawasan Tengah - Wilayah Persekutuan Kuala Lumpur, Melaka, Negeri Sembilan,
 Selangor dan Johor
 Kawasan Timur - Pahang, Terengganu dan Kelantan

BIL	KETERANGAN KERJA	UNIT	KAWASAN UTARA		KAWASAN TENGAH		KAWASAN TIMUR		KESELURUHAN	
			PURATA (RM)	JULAT (RM)	PURATA (RM)	JULAT (RM)	PURATA (RM)	JULAT (RM)	PURATA (RM)	JULAT (RM)
1	Slope trimming for base preparation to receive slope revetment materials and turfing.	m2			1.72	1.00 - 5.00			1.72	1.00 - 5.00
2	Supply and install Wellguard RC Post (PT-12) or other approved and equivalent with minimum 12 m length.	no.			3,400.00	3,900.00 - 8,850.00			3,400.00	3,900.00 - 8,850.00
3	Supply and install Wellguard RC Panel (W-23) or other approved and equivalent with decorative panel with minimum 3 m of length.	no.			1,135.00	1,000.00 - 3,000.00			1,135.00	1,000.00 - 3,000.00
	<u>RETAINING STRUCTURE</u>									
4	Supply and install of Reinforced Soil Wall components consisting of hexagonal shaped precast concrete panels, reinforcing bar, anchor blocks, joint fillers, cushion pads and fasteners.	m2			250.94	100.00 - 299.40			250.94	100.00 - 299.40
5	Pull out test on reinforcing strips	no.			1,468.87	500.00 - 2,500.00			1,468.87	500.00 - 2,500.00
6	To design and construct modular block retaining wall average 2.5m high (Keystone or equivalent) including foundation, subsoil drainage, capping unit and any other necessary works as per manufacturer requirements.	m2			343.03	160.00 - 600.00			343.03	160.00 - 600.00

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7	Supply and lay 0.5m x 0.5m (120-250mm stone size) filled gabion.	no.			124.18	70.00 - 150.00			124.18	70.00 - 150.00
8	Supply and lay 1m x 1m x 1m of approved PVC coated gabion.	no.			72.00	60.00 - 80.00			72.00	60.00 - 80.00
9	Supply and lay 1.0m x 1.0m x 1.0m (120-250mm stone size) filled gabion.	no.			209.18	140.00 - 340.00			209.18	140.00 - 340.00
10	Supply and place 150mm - 250mm granite stone inside the gabion.	m3			98.57	95.00 - 115.00			98.57	95.00 - 115.00
	<u>SURFACE PROTECTION</u>									
11	Supply, deliver and install the Sand Filled Mattress with minimum weight of 180kg/m ² including all necessary works for proper completion .	m2			56.58	25.00 - 77.00			56.58	25.00 - 77.00
12	Supply and lay 230 mm thick Stone-filled Mattress of stone size 70-100mm wrapped in Zinc and PVC coated double twisted wire mesh.	m2			72.86	65.00-85.00			72.86	65.00-85.00

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13	Supply and lay 230 mm thick Zinc Coated Stone-filled Mattress (Reno Mattress or other equal equivalent) of stone size 120-250mm.	m2			54.00	25.00 - 90.00			54.00	25.00 - 90.00
14	Supply and lay 230 mm thick Maccaferri Reno Mattress P8/2.7 filled with stones 70mm-100mm stone size (Zinc + PVC coated) or equivalent	m2			56.00	26.80 - 90.00			56.00	26.80 - 90.00
15	Maccaferri Biomat or equivalent.	m2			34.90	18.00 - 55.00			34.90	18.00 - 55.00
16	Supply and lay rip rap gravel (size 150-200mm).	m3			95.50	54.00-238.00			95.50	54.00-238.00
17	Supply and lay rip-rap granatic rock with size 400mm to 600mm of minimum thickness of 1200mm.	m3			53.25	35.70 - 80.00			53.25	35.70 - 80.00
18	Supply and lay rip-rap granatic rock with size 400mm to 600mm of minimum thickness of 800mm with cement grouted.	m3			80.46	35.80 - 126.90			80.46	35.80 - 126.90
19	Supply and lay rip rap gravel (size 200-300mm)	m3			61.20	25.00 - 180.00			61.20	25.00 - 180.00
20	200mm thick filter bedding materials.	m2	13.63	10.00 - 15.00						

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21	Supply and lay 100mm thickness of 20mm to 50mm stones.	m3			57.11	40.60 - 70.00			57.11	40.60 - 70.00
22	Supply and lay river stone boulder (size 250mm-450mm)	m3			90.65	50.00 - 300.00			90.65	50.00 - 300.00
23	400mm thick Gravel of 10mm-20mm Stone Sizes	m3			52.80	20.00 - 100.00			52.80	20.00 - 100.00
24	400mm thick Gravel of 50mm-150mm Stone Sizes	m3			60.00	25.00 - 120.00			60.00	25.00 - 120.00
25	Supply and place 225mm thick rubble pitching including cement mortar (1:3) to be constructed as shown in the drawing.	m2			32.25	20.00 - 35.00			32.25	20.00 - 35.00