

**BAHAGIAN 3.3 : EARTHWORKS**

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	<b>Excavation</b> Strip top soil to a depth not exceeding 150 mm thk. Over area of the site directed by the S.O and stockpile for re-use.	m2			0.94	0.50 - 1.50			0.94	0.50 - 1.50
2	Excavate and stripping of top soil and unsuitable material to an average 500mm deep and stockpile for reuse or dispose off.	m2	6.60	3.50 - 12.00					6.60	3.50 - 12.00
3	Excavation; Unsuitable material, 1m depth of muds and siltation (Below the design bed level) including disposal to Contractor's own dumping ground	m3			14.13	9.00 - 25.00			14.13	9.00 - 25.00
4	Excavation; General; Earth; from formation levels and transport to fill area	m3			10.29	8.00 - 20.00			10.29	8.00 - 20.00
5	Excavation for proposed slope (cut-back slope) to the level and profile including compaction, backfilling and trimming. The excess excavated material shall be spread within the project site.	m3			4.29	2.50 - 5.50			4.29	2.50 - 5.50
6	Excavate from existing ground level to construction profile river channel.	m3			6.70	4.00 - 10.00			6.70	4.00 - 10.00

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7	General earth excavation from ground level to reduced site formation or up to pond invert levels including cutting to slopes, as shown on drawing, stockpile suitable material for other fill areas (as necessary), transport, place, spread and compact suitable stockpiled earth to fill areas and removal and disposal from site surplus excavated material to contractor own dumping site.	m3			12.41	6.00 - 18.00			12.41	6.00 - 18.00
8	Excavation, filling, leveling and compaction to the required section for structures using suitable excavated materials and including carting away to existing dumping ground within site.	m3					6.16	2.50 - 6.70	6.16	2.50 - 6.70
9	Excavate any material in bulk except rock and removal / disposal / cart away of the excess materials (spoil) to dumping / disposal sites.	m3	14.60	14.00 -19.00					14.60	14.00 -19.00
10	Excavation of earth material other than rock to construct river channel and transitions to the required depth river channel and transitions to the required depth	m3			3.10	2.40 - 4.50	3.33	1.50 - 8.00	3.22	1.50 - 8.00

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			PURATA (RM)	JULAT (RM)	PURATA (RM)	JULAT (RM)	PURATA (RM)	JULAT (RM)	PURATA (RM)	JULAT (RM)
11	Excavate from existing ground level not exceeding 2.5m deep, get out, part return, fill in, ram and remove surplus excavated materials from site	m3			12.60	10.00 - 18.00			12.60	10.00 - 18.00
12	Excavation to formation level for outlet drain including compaction, backfilling and trimming and spread the excess excavated material within the project site.	m3			5.95	4.00 - 10.00			5.95	4.00 - 10.00
13	Excavation including compaction, backfilling and trimming	m3			7.00	4.00 - 10.00			7.00	4.00 - 10.00
14	Excavate pit for pad footing maximum depth not exceeding 4.00m.	m3	21.90	15.00 - 30.00					21.90	15.00 - 30.00
15	Excavate trench for ground beams maximum depth not exceeding 1.00m.	m3	13.06	8.00 - 16.50					13.06	8.00 - 16.50
16	Excavate at Abuments, Approach Slabs, Piers and Stockpile for re-use or disposal to the Contractors own dumping ground.	m3					5.84	2.50 - 10.00	5.84	2.50 - 10.00

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			PURATA (RM)	JULAT (RM)	PURATA (RM)	JULAT (RM)	PURATA (RM)	JULAT (RM)	PURATA (RM)	JULAT (RM)
17	Excavation in rock and removal / disposal / cart away of the excess materials (spoil) to dumping / disposal sites.	m3	118.33	65.00 - 150.00					118.33	65.00 - 150.00
18	Excavation in rock material to construct river channel and transitions to the required depth river channel and transitions to the required depth	m3					78.57	60.00 - 150.00	78.57	60.00 - 150.00
19	<b>River Dredging</b> Supply and cart out dredging works in bulk except rock. Rates shall include all dredging works and subsequent removal / disposal / cart away of the excess materials (spoil) to dumping / disposal sites.	m3	25.10	17.00 - 40.00					25.10	17.00 - 40.00
20	<b>Desilting</b> Desilting existing drain and dispose off site to Contractor's own dump site.	m3			16.98	10.00 - 25.00			16.98	10.00 - 25.00
21	<b>Filling</b> 150mm thick bed of hardcore as described spread and levelled, well rammed and consolidated, watered and blinded with a layer of fine sand, well rolled in and finished to receive concrete (measured separately).	m2	15.02	10.00 - 24.00					15.02	10.00 - 24.00

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22	Supply and lay 300 mm thick compacted hardcore	m2			84.75	24.00 - 25.65			84.75	24.00 - 25.65
23	Provision and placement 50mm thick sand bedding	m2					2.70	2.00 - 4.00	2.70	2.00 - 4.00
24	Filling of suitable excavated material within site and lay to proposed inlet structure including compaction and trimming	m3			6.00	2.80 - 10.00	3.55	1.00 - 8.00	4.80	1.00 - 10.00
25	Filling; General; Imported material, 300mm thick crusher run	m2			15.80	6.00 - 21.80			15.80	6.00 - 21.80
26	Backfilling with imported material.	m3			18.50	10.00 - 26.00			18.50	10.00 - 26.00
27	Filling; Embankments; imported suitable material	m3			29.14	20.00 - 52.00	26.40	16.20 - 47.00	27.80	16.20 - 52.00
28	Supply , place and compact imported earth fill to construct bund	m3			13.07	10.00 - 15.00			13.07	10.00 - 15.00
29	Supply and place 250 mm thick compacted crusher run under outlet drain structure base slab	m3			71.03	65.00 - 80.00			71.03	65.00 - 80.00

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30	<b><u>Dispose Off Site</u></b> Dispose off unsuitable material to contractor dumping site	m2			17.75	16.25 - 20.00			17.75	16.25 - 20.00
31	Disposal of surplus and unsuitable materials to the designated dumping site.				3.01	1.50 - 6.00	5.20	3.50 - 11.00	4.105	1.50 - 11.00
32	Disposal of surplus and unsuitable materials 'to Contractor's own dumping ground less than 1 km of the site area.	m3					2.31	1.00 - 4.50	2.31	1.00 - 4.50
33	Disposal of surplus and unsuitable materials 'to Contractor's own dumping ground within 1 to 2 km of the site area.	m3					2.80	1.00 - 5.00	2.80	1.00 - 5.00
34	Disposal of surplus and unsuitable materials 'to Contractor's own dumping ground more than 2 km of the site area.	m3					3.19	1.00 - 6.00	3.19	1.00 - 6.00
35	<b><u>Filling ancillaries</u></b> Supply and lay geotextile Type KET24	m2			6.80	4.50 - 10.00			6.80	4.50 - 10.00
36	Supply and lay 1 layer of non-woven needle-punch geotextile with a nominal mass of 250 g/m2 .	m2					5.35	4.00 - 11.50	5.35	4.00 - 11.50

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37	Filling ancillaries; Geotextiles, between granular bedding and crusher run	m2			6.10	3.50 - 12.00			6.10	3.50 - 12.00
	<b>Landscaping</b>									
38	Supply and place close turfing	m2			4.90	2.50 - 7.30	5.91	2.50 - 15.20	5.35	2.50 - 15.20
39	Supply and plant turf in sods of 200 x 200 mm (minimum) from an approved source with 150mm thick consolidated selected top soil and peg in close turfing to all slope, benches, approach road shoulder and maintain until the end of Defects Liability Period.	m2					4.55	2.50 - 8.00	4.55	2.50 - 8.00
40	Erosion control; hydroseeding	m2			3.50	2.20 - 7.00			3.50	2.20 - 7.00