

BAHAGIAN 3.4 : EARTHWORK (CLASS F)

BIL	KETERANGAN KERJA	UNIT	PURATA KADAR HARGA 2013 (RM)			
			KAWASAN UTARA	KAWASAN TENGAH	KAWASAN TIMUR	KESELURUHAN
EXCAVATION						
1	Topsoil of average depth of 150mm and disposed to the Contractor's dumpsite as approved by the Engineer/S.O./P.D.	m2	0.90	2.00		1.45
2	Topsoil of average depth of 150mm and stockpile for re-use as top soil for turfing.	m2	0.77	2.60		1.69
3	Excavate existing ground level to construct river channels to the alignment, levels, width and slopes as shown in the Contract plan and stockpile suitable excavated material for the construction of river bund.	m3	5.24	3.60		4.42
4	Excavate from proposed river bed level to the alignment, levels, width and slopes as shown in the Contract plan for installation rip rap toe protection works and stockpile suitable excavated material for the construction of river bund.	m3	3.81	4.55		4.18
5	Excavate below formation level to a maximum depth not more than of 1.0m of unsuitable material and dispose off to contractor's own dump site.	m3		4.20		4.20
6	Excavation of river section from river bed level to the required channel profile.	m3		3.45		3.45
7	Excavate and dispose off site the surplus or unsuitable excavated material to Contractor's own dump site. Contractor to get approval from relevant athorities and S.O for dump site.	m3		3.70		3.70

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8	Excavate unsuitable material below formation level to a depth of maximum 1m.	m3		7.40		7.40
9	Excavate construction pit to the required level for the construction of control gate. Rate shall include manual excavation of 300mm to the final formation invert level. The excavated material shall be partly return as backfilling material. Excess excavated material shall be disposed offsite to contractor own dumping ground.	m3		5.20		5.20
10	Excavate in rock profile river channel and dispose off site the excavated rock to contractor's own dump site.	m3		63.00		63.00
11	Excavate in rock material by controlled blasting, suitable rocks to be used at the surface protection area.	m3	33.15			33.15
12	Excavate in rock material by hydraulic rock breaker, suitable rocks to be used at the surface protection area.	m3	39.27			39.27
13	Dispose off site the surplus or unsuitable excavated material to contractor's own dump site. Contractor to get approval from relevant athorities and S.O for dump site.	m3		6.80		6.80
FILLING						
14	Filling; Compacted suitable excavated material to form bund include compaction, and additional filling necessitated by settlement or penetration into underlying material as applicable.	m3		4.11		4.11

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15	Construction of river bunds and banks using suitable excavated material inclusive of transport, backfilling, spreading and compaction to a minimum compaction of 90% MDD.	m3		5.00		5.00
16	Handle, transport, spread and level 75mm thick local top soil including trimming, level and grading of slope.	m2		3.28		3.28
17	Fill, spread, grade and compact imported suitable material from Contractor's own source.	m3		27.00		27.00
18	Filling; Imported material from Contactor's own source to form bund include compaction, and additional filling necessitated by settlement or penetration into underlying material as applicable.	m3		14.25		14.25
19	Filling with imported material to construct 3.0m wide x 4.5m high bund rising; compact in layers to finished ground level.	m3		20.51		20.51
20	Imported sand as backfill material to a depth of maximum 0.5m.	m3		40.00		40.00
21	Filling; one layer of 600 mm thick sand.	m2		24.00		24.00
22	Supply, lay and compact 225mm thick imported lateritic.	m2		7.50		0.00 7.50
23	Supply, fill, spread, level and compact granular backfill.	m3		38.75		38.75
24	Supply, lay and compact crusher run on road crossing over river bund.	m3		63.00		63.00
25	Supply and spread crusher run inclusive compaction.	m3		61.54		61.54
26	50 mm thick compacted quarry dust.	m2		4.50		4.50

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27	Filling; to structure; sand bedding behind wing wall 300mm thick.	m3	41.89			41.89
28	Supply and fill Suitable granular backfill material inclusive compaction.	m3		36.74		36.74
FILLING ANCILLARIES						
29	Supply and lay non-woven geotextile Type TS50 or equivalent.	m2		5.80		5.80
30	Supply and lay non-woven needle punch geotextile KET28 or equivalent as specified in drawing and Specification.	m2		5.50		5.50
31	Supply and place non-woven geotextile TS20/KET9 or equivalent as filter layer to the sand drainage blanket.	m2		5.00		5.00
32	Approved high strength woven geotextile with short term tensile strength of 100kN/m (PEC100) or equivalent.	m2		9.00		9.00
33	Supply and lay reinforced geotextile type PEC 200.	m2		15.40		15.40
34	Supply and lay geotextile type WX 200/50 or equivalent.	m2		10.50		10.50
35	Supply and lay high strength geotextiles (WG600 or equivalent) as specified.	m2	9.47			9.47

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LANDSCAPING						
36	To supply, spread and lay close turfing inclusive of trimming, level, grading of slope, 75mm thick top soil and necessary pegging, soil watering, weeding and tending until establishment, all as prescribed to slope.	m2		3.80	4.20	4.00
37	Close turfing to flat and sloping surface complete with 50mm thick black vegetable soil including watering, rolling, weeding, tending additional fertilizer until satisfactorily established within the duration of the Contract.	m2	4.78	4.80		4.79
38	Hydroseeding with selected grass species and inclusive of approved fertilizer, necessary soil watering, weeding and tending until establishment, all as prescribed to slope.	m2		3.60		3.60
39	Provide hydroseeding type <i>Brachiaria Decumbens Seeds</i> (Signal Grass) or equivalent to the surface area of reinforced geobag slope as specified in drawing.	m2		3.00		3.00