

BAHAGIAN 3.14 : DRAINAGE WORK (CLASS P)

BIL	KETERANGAN KERJA	UNIT	PURATA KADAR HARGA 2013 (RM)			
			KAWASAN UTARA	KAWASAN TENGAH	KAWASAN TIMUR	KESELURUHAN
DRAIN EXCAVATION						
1	Trench excavation for construction of new pipe culvert size 900 mm not exceeding 1.50m depth, get out and remove to a tip to be provided by the contractor away from the work site including backfilling of excavated material.	m3		10.00		10.00
2	Excavation for concrete drain commencing from existing ground surface to a depth and grade and dispose at contractor dumpsite.	m3		5.10		5.10
3	Trench excavation for construction of new box culvert size 1800 mm bottom width with 1800 mm depth not exceeding 2.50m depth, get out and remove to a tip to be provided by the contractor away from the work site including backfilling of excavated material.	m3	16.39			16.39
4	Excavate trenches in all material other than rock for precast box culvert, backfill and to remove all existing drain to Contractor's dumping ground within 5 km radius.	m3		6.30		6.30

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SURFACE DRAINS						
5	Construction and completion 50mm x 50mm gutter drain at both sides road on exposed surfaces, bedded, jointed and pointed in cement mortar (1:3) as directed by the S.O. <u>Supply transport, lay and joint precast concrete U drain including weepholes with filter materials and cement mortar grouting at joints.</u>	m		21.00		21.00
6	3000mm x 2100mm.	m		1,220.00		1,220.00
7	1800mm x 1500mm.	m		633.00		633.00
8	Supply, delivery and install RC 'U' drains without dry weather flow section sizes 500 mm bottom width with 1000 mm depth.	m		417.33		417.33
9	Outlet drains; 450 mm diameter concrete pipe including fittings. Rate to include bends, filter fabric and concrete surround.	m	191.53			191.53
10	Supply, delivery and install RC 'U' drains without dry weather flow section of the following sizes 1800 mm bottom width with 1800 mm depth.	m		1,157.08		1,157.08
SUBSURFACE DRAINS						
11	Supply and install 100 mm diameter of single wall HPDE Corrugated drainage subsoil pipe 1.5m length at 1.5 c/c as drainage system.	m		13.00		13.00

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CULVERTS						
	<u>Supply and install Precast Reinforced Concrete Pipe Culvert inclusive of spigot and socket jointing with rubble ring and backfilling of structure.</u>					
12	900mm diameter (Class Y)	m		250.00		250.00
13	1200mm diameter (Class Y)	m		350.00		350.00
14	1500mm diameter (Class Y)	m		525.00		525.00
15	1800mm diameter (Class Y)	m		727.00		727.00
16	1200 mm diameter single precast concrete pipe culvert, Hume Class 'L' or equivalent in standard length of 3.05 m.	no.		1,235.00		1,235.00
17	Supply, delivery and install 900mm RC pipe culvert c/w lids without dry weather flow section.	m		770.00		770.00
	<u>Supply and install Precast Reinforced Concrete Box Culvert :</u>					
18	1500mm x 1500mm	m		860.00		860.00
19	1800mm x 1500mm	m		970.00		970.00
20	1800mm x 1800mm	m	1373.39	1,300.00		1,336.70
21	3000mm x 2100mm	m		2,170.00		2,170.00
22	3300mm x 2100mm	m		2,300.00		2,300.00
23	Supply and lay well compacted sand bedding for culvert.	m3		62.30		62.30
24	Backfilling of culvert with suitable materials to section as shown in the drawing.	m3		4.50		4.50

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SUMPS						
	<u>Construction and completion brickwall sump on exposed surfaces, bedded, jointed and pointed in cement mortar (1:3) with Precast Compress Concrete Slab including all necessary excavation, formwork and painting for following sump:</u>					
25	3300mm x 3300 mm	no.		3,770.00		3,770.00
26	600mm x 450mm	no.		840.00		840.00
	<u>Construction and completion brickwall sump on exposed surfaces, bedded, jointed and pointed in cement mortar (1:3) with Heavy Duty M.S Grating including all trash screen to receive inlet and outlet drains :</u>					
27	2400mm x 2400mm	no.		2,970.00		2,970.00
28	1200mm x 1200mm	no.		1,440.00		1,440.00
29	900mm x 900mm	no.		1,150.00		1,150.00
30	600mm x 600mm	no.		800.00		800.00
	<u>Supply and construct cast insitu manholes including excavation, backfilling, bedding, formwork, concrete, reinforcement, pipe openings, galvanized iron grating with hinge, joint to existing drain and disposal of surplus material.</u>					
31	0.9m x 0.9m, invert depth not exceeding 1.5m.	no.		1,300.00		1,300.00
32	1.2m x 2.1m, invert depth not exceeding 1.5m.	no.		2,000.00		2,000.00

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33	Supply and construct 1050mm x 1050mm x 230mm thick brickwall manhole within high alumina cement render, R.C. base, inspection cover, C.I. Steps, etc to depth not exceeding 1.5m (internal dimension)Rate to include excavation, backfilling, compaction and disposal of surplus materials.	no.		1,133.33		1,133.33
FLAP GATE						
	<u>Supply, deliver and install HDPE Flap Gates as per manufacturer requirement and approved by S.O.</u>					
34	900mm diameter	no.		12,200.00		12,200.00
35	1200mm diameter	no.		15,700.00		15,700.00
36	1500mm diameter	no.		23,000.00		23,000.00
37	1800mm diameter	no.		29,000.00		29,000.00
38	1500mm x 1500mm square	no.		15,200.00		15,200.00
39	1800mm x 1800mm square	no.		30,500.00		30,500.00