

BAHAGIAN 3.1 : ENVIRONMENTAL PROTECTION AND ENHANCEMENT

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	Supply and placement of approved Zink Coated Mattress thickness 230mm and stone size 70-100mm, with double twisted steel wire and PVC coated mesh for riverbank protection	m2			50.82	28.00 - 75.00			50.82	28.00 - 75.00
2	Supply and lay Zinc Coated caged hardcore matterss of 230mm thickness filled with stone size 120-250mm or equivalent	m2			50.02	28.00 - 75.00			50.02	28.00 - 75.00
3	Supply and install 1ft x 1ft x 1ft Media Concrete Block combined with necessary Effeective Microorganism (EM).	no.			160.94	120.00 - 200.00			160.94	120.00 - 200.00
4	Retaining structures; rock filled gabion mattress; Green mattress 230mm thick inclusive of 6" x 9" rock, top soil, all as per Engineer's requirements	m2			202.15	150.00 - 230.00			202.15	150.00 - 230.00

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5	To design, supply and deliver of GPT Vortex Type (3.0m diameter size) with non blocking self cleaning circular screen type in accordance to Manual Saliran Mesra Alam "MASMA" inclusive of all necessary structures and accessories such as chamber sumps, access lids, stainless steel screen, poly basket etc as per detail drawing and instruction of S.O.	no.			336,095.26	168,831.50 - 510,000.00			336,095.26	168,831.50 - 510,000.00
6	To install and construct & complete GPT Vortex Type (3.0m diameter size), testing and commisioning, main and supplementary structures and accessories including all temporary strutting, excavation and removal of access excavated earth, backfill and aggregate, insitu reinforced concrete where necessary and join to existing drain section to manufacturer's specification and reinstatement of existing landscape to orginal condition.	no.			77,866.00	30,450.00 - 150,000.00			77,866.00	30,450.00 - 150,000.00
7	Supply and install oil retention buffer plate made from SS 304 material	no.			2,663.60	2,000.00 - 3,850.00			2,663.60	2,000.00 - 3,850.00
8	Supply and install oil skimmer unit c/w 45 gal. oil drum	no.			27,223.00	24,000.00 - 29,500.00			27,223.00	24,000.00 - 29,500.00

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	<p>Gross Pollutant Traps (GPT) Interceptor Type Design, supply and install 3 in 1 system gross pollutant trap (GPT) including all material, labour, plants complete with 3 unit stainless steel rubbish basket with 1000mm height, 1 unit stainless steel oil trap basket with geo textile filter, 1 set mild steel sump cover and High-density polyethylene (HDPE) material main body with profile wall for protection and built in compartment for rubbish basket and oil trap as specified and other associated works.</p> <p>Design, supply and construct complete GPT structures and accessories, including excavation and removal of access excavated earth, backfill and aggregate, insitu reinforced concrete where necessary and join to existing drain section to manufacturer's specification and reinstatement existing landscape to original condition.</p>									
9	Diameter 1500mm	no.			95,708.10	79,068.50 - 107,272.00			95,708.10	79,068.50 - 107,272.00
10	Diameter 1800mm	no.			118,355.40	104,139.00 - 128,000.00			118,355.40	104,139.00 - 128,000.00
11	Diameter 2400mm	no.			124,148.25	105,103.25 - 142,000.00			124,148.25	105,103.25 - 142,000.00

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12	Diameter 3000mm	no.			134,926.80	107,996.00 - 165,000.00			134,926.80	107,996.00 - 165,000.00
13	Monitoring and Maintenance To undertake monthly monitoring and maintenance of GPT Interceptor Type for 1 year period after project handover/contract finish either using Lift Basket Method or Vacuum Education.	month			5,162.20	2,537.50 - 7,923.50			5,162.20	2,537.50 - 7,923.50
14	To undertake monthly monitoring and maintenance of GPT Vortex Type for 1 year period after project handover/contract finish either using Lift Basket Method or Vacuum Education.	month			2,896.20	1,828.50 - 4,000.00			2,896.20	1,828.50 - 4,000.00
15	Biomedia Caging Supply and install FRP Caging with size 45.0m(L) x 30.0m(W) x 1.0m(D) for placing of Biomedia Ball	sum			109,064.00	20,000.00 - 219,420.00			109,064.00	20,000.00 - 219,420.00
16	Biomedia Ball To supply 3 inch diameter round shaped bio media ball	unit			0.72	0.50 - 0.90			0.72	0.50 - 0.90

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17	Air Supply To supply Fine Bubble Diffuser complete with 80 mm dia UPVC Class 7 distribution pipe, support bracket and anchoring.	no.			103.18	81.00 - 120.00			103.18	81.00 - 120.00
18	Supply and connect static mixer for chemical-sludge re-activation chamber at 100mm diameter at ATS Control Room.	no.			45,158.00	5,000.00 - 97,520.00			45,158.00	5,000.00 - 97,520.00
19	Supply and install Polimer Coated Polyester Netcages	m2			156.00	132.00 - 200.00			156.00	132.00 - 200.00
20	To supply plastic bottle or equivalent (450m3) max. size ; opening ; 40mm diameter, 120mm length	no.			0.60	0.15 - 3.00			0.60	0.15 - 3.00
21	Supply and install 3 in 1 system gross pollutant trap Model 1200 (SOLID Interceptor or equivalent) complete with 3 unit stainless steel rubbish basket, 1 unit stainless steel oil trap basket with geotextile filter, 1 set mild steel sump cover and High-density polyethylene material main body with profile wall for protection and built in compartment for rubbish basket and oil trap	no.			88,330.00	75,718.80 - 100,000.00			88,330.00	75,718.80 - 100,000.00

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22	Supply and install gross pollutant trap Model 2400 (SOLID Interceptor or equivalent) including all material, labour, plants, etc. as per drawing or as directed by the S.O. This system must be 3 in 1 system that can trap and stored rubbish and oil from stormwater	no.			123,083.00	93,885.00 - 150,000.00			123,083.00	93,885.00 - 150,000.00
23	Supply and install gross pollutant trap Model 3000 (SOLID Interceptor or equivalent) including all material, labour, plants, etc. as per drawing or as directed by the S.O. This system must be 3 in 1 system that can trap and stored rubbish and oil from stormwater	no.			152,254.00	99,110.00 - 200,000.00			152,254.00	99,110.00 - 200,000.00