BAHAGIAN : 3.0 - KOS ITEM-ITEM KERJA
SUB-BAHAGIAN : 3.6 - METALWORKS

Kawasan A - Perlis, Kedah & P. Pinang	Kawasan D - Johor
Kawasan B - Perak	Kawasan E - Pahang
Kawasan C - WP.KL.,Selangor N. Sembilan & Melaka	Kawasan F - Terengganu & Kelantan

BIL.	KETERANGAN KERJA	UNIT	KAWASAN A		KAWASAN B		KAWASAN C		KAWASAN D		KAWASAN E		KAWASAN F		KESELURUHAN	
			JULAT (RM)	PURATA (RM)	JULAT (RM)	PURATA (RM)	JULAT (RM)	PURATA (RM)	JULAT (RM)	PURATA (RM)	JULAT (RM)	PURATA (RM)	JULAT (RM)	PURATA (RM)	JULAT (RM)	PURATA (RM)
1	Supply, deliver, fix and paint galvanised M.S guardrailling to R. C wall including all necessary fittings and bolting.	M	75.00 - 180.00	127.50	-	-	-	-	-	-	-	-	-	-	75.00 - 180.00	127.50
	Universal Beam															
2	Structural works as described, factory primed with one coat of ICI grey green zinc chromate primer including all labour, materials and appliances in shop and site connection, drilling steel, hoisting and fixing in position touching up primer after erection and finish with one undercoat of ICI micaceous oxide (MIO) and two finishing coats of ICI alkyd gloss paint as described on all exposed surfaces of steel works :															
a	610 mm x 305 mm x 179 kg/m universal beam.	Kg	-	3.50	-	-	-	-	-	-	-	-	-	-	-	3.50
b	M24 x 300 mm long anchor bolt	No.	-	34.00	-	-	-	-	-	-	-	-	-	-	-	34.00
c	19 mm x 75 mm studs, fixed in position.	No.	-	25.00	-	-	-	-	-	-	-	-	-	-	-	25.00

::metal

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SUB-BAHAGIAN : 3.6 - METALWORKS

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Kawasan C - WP.KL.,Selangor N. Sembilan & Melaka	Kawasan F - Terengganu & Kelantan

BIL.	KETERANGAN KERJA	UNIT	KAWASAN A		KAWASAN B		KAWASAN C		KAWASAN D		KAWASAN E		KAWASAN F		KESELURUHAN	
			JULAT (RM)	PURATA (RM)	JULAT (RM)	PURATA (RM)	JULAT (RM)	PURATA (RM)	JULAT (RM)	PURATA (RM)	JULAT (RM)	PURATA (RM)	JULAT (RM)	PURATA (RM)	JULAT (RM)	PURATA (RM)
3	Supply and fix into position mild steel grille consisting of mild steel bars/plates, angle irons and/or flat irons all welded together including painting and bolting to concrete and including mild steel angle seating for :															
a	600 mm Dia. Constant Head Orifice Offtake, overall size 1150 mm x 970 mm.	No.	-	290.00	-	-	-	-	-	-	-	-	-	-	-	290.00
b	900 mm Dia. Constant Head Orifice Offtake, overall size 1270 mm x 970 mm.	No.	-	360.00	-	-	-	-	-	-	-	-	-	-	-	360.00
c	600 mm Dia. Irrigation Control Cum-Crossing, overall size 1160 mm x 635 mm.	No.	-	290.00	-	-	-	-	-	-	-	-	-	-	-	290.00
d	600 mm Dia. Under Drainage Culvert overall size 1160 mm x 635 mm.	No.	-	210.00	-	-	-	-	-	-	-	-	-	-	-	210.00
e	Division Box overall size 990 mm x 795 mm.	No.	-	210.00	-	-	-	-	-	-	-	-	-	-	-	210.00

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Kawasan C - WP.KL.,Selangor N. Sembilan & Melaka	Kawasan F - Terengganu & Kelantan

BIL.	KETERANGAN KERJA	UNIT	KAWASAN A		KAWASAN B		KAWASAN C		KAWASAN D		KAWASAN E		KAWASAN F		KESELURUHAN	
			JULAT (RM)	PURATA (RM)	JULAT (RM)	PURATA (RM)	JULAT (RM)	PURATA (RM)	JULAT (RM)	PURATA (RM)	JULAT (RM)	PURATA (RM)	JULAT (RM)	PURATA (RM)	JULAT (RM)	PURATA (RM)
4	Supply and fix mild steel orrifice gate including screwdown device and seats, locking device consists of galvanised M.S chain and 60 mm brass padlock gate frame and stiffeners, guide and top rails, spindle and brackets, welding, bolting and painting :															
a	600 mm Dia. Constant Head Orifice Offtake, overall size 650 mm x 750 mm.	No.	-	700.00	-	-	-	-	-	-	-	-	-	-	-	700.00
b	900 mm Dia. Constant Head Orifice Offtake, overall size 975 mm x 1050 mm.	No.	-	1,350.00	-	-	-	-	-	-	-	-	-	-	-	1,350.00
c	600 mm Dia. Irrigation Control Cum-Crossing, overall size 1270 mm x 825 mm.	No.	-	700.00	-	-	-	-	-	-	-	-	-	-	-	700.00
d	600 mm Dia. Irrigation Gated Check overall size 670 mm x 710 mm.	No.	-	700.00	-	-	-	-	-	-	-	-	-	-	-	700.00
5	Supply and fix adjustable weir for Division Box including screwdown device and seats, locking device consists of galvanised M.S chain and 60 mm brass padlock gate frame and stiffeners, guide and top rails, spindle and brackets, weiding, bolting and painting :															
a	600 mm wide.	No.	-	900.00	-	-	-	-	-	-	-	-	-	-	-	900.00
b	900 mm wide	No.	-	1,800.00	-	-	-	-	-	-	-	-	-	-	-	1,800.00

BAHAGIAN : 3.0 - KOS ITEM-ITEM KERJA
SUB-BAHAGIAN : 3.6 - METALWORKS

Kawasan A - Perlis, Kedah & P. Pinang	Kawasan D - Johor
Kawasan B - Perak	Kawasan E - Pahang
Kawasan C - WP.KL.,Selangor N. Sembilan & Melaka	Kawasan F - Terengganu & Kelantan

BIL.	KETERANGAN KERJA	UNIT	KAWASAN A		KAWASAN B		KAWASAN C		KAWASAN D		KAWASAN E		KAWASAN F		KESELURUHAN	
			JULAT (RM)	PURATA (RM)	JULAT (RM)	PURATA (RM)	JULAT (RM)	PURATA (RM)	JULAT (RM)	PURATA (RM)	JULAT (RM)	PURATA (RM)	JULAT (RM)	PURATA (RM)	JULAT (RM)	PURATA (RM)
6	Supply, deliver, install complete and commission galvanised M.S screwdown gate of nominal dimensions 1.80 m x 1.80 m. including manual operated hoist device complete with all necessary guides appurtenances and painting for the proper installation, functioning and operation	Set	-	-	-	15,000.00	-	-	-	-	-	-	-	-	-	15,000.00
7	Supply, deliver, handle and fix aluminium flap gate including the supply and fixing of reinforced concrete counterbalance weights for 1500 mm x 1500 mm opening	Set	-	-	-	16,000.00	-	-	-	-	-	-	-	-	-	16,000.00
8	Supply, fabricate and deliver to site 1500 mm x 1500 mm flap gate with aluminium guide complete with accessories	Set	-	-	-	-	-	19,800.00	-	-	-	-	-	-	-	19,800.00
9	Supply, fabricate and deliver to site and install one set galvanised M.S flap gate and other necessary materials to complete a 600 mm drainage control flap gate.	No.	-	-	-	-	-	1,000.00	-	-	-	-	-	-	-	1,000.00
10	Mild steel grating comprising of mild steel frame and painted with one coat of metallic undercoat and two coats of finish coat:															
a	1500 mm x 1100 mm	No	-	-	-	-	-	-	-	-	-	-	-	471.00	-	471.00
b	1700 mm x 1600 mm	No	-	-	-	-	-	-	-	-	-	-	-	550.00	-	550.00
c	1900 mm x 1900 mm	No.	-	-	-	-	-	-	-	-	-	-	-	600.00	-	600.00
d	3820 mm x 3820 mm	No	-	-	-	-	-	-	-	-	-	-	-	2,000.00	-	2,000.00

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SUB-BAHAGIAN : 3.6 - METALWORKS

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Kawasan B - Perak	Kawasan E - Pahang
Kawasan C - WP.KL.,Selangor N. Sembilan & Melaka	Kawasan F - Terengganu & Kelantan

BIL.	KETERANGAN KERJA	UNIT	KAWASAN A		KAWASAN B		KAWASAN C		KAWASAN D		KAWASAN E		KAWASAN F		KESELURUHAN	
			JULAT (RM)	PURATA (RM)	JULAT (RM)	PURATA (RM)	JULAT (RM)	PURATA (RM)	JULAT (RM)	PURATA (RM)	JULAT (RM)	PURATA (RM)	JULAT (RM)	PURATA (RM)	JULAT (RM)	PURATA (RM)
11	Mild steel grating comprising of mild steel frame and painted with one coat of metallic undercoat and two coats of finish coat:															
a	1900 mm x 1900 mm in heavy duty	No	-	-	-	-	-	-	-	-	-	-	630.00	-	630.00	630.00
b	2200 mm x 2200 mm in heavy duty	No.	-	-	-	-	-	-	-	-	-	-	750.00	-	750.00	750.00
c	2500 mm x 2500 mm in heavy duty	No.	-	-	-	-	-	-	-	-	-	-	780.00	-	780.00	780.00
12	Supply, deliver, fix and paint galvanised M.S handrailling to R. C wall including all necessary fittings and bolting.	M	50.00 - 80.00	65.00	-	42.00	-	-	-	-	-	-	-	-	42.00 - 80.00	53.50
13	Ditto of M.S handrail on both sides of concrete channel including all other necessary associated works.	M	-	-	-	-	75.00 - 112.00	92.33	-	-	-	-	-	-	75.00 - 112.00	92.33
14	Supply and fix 100 mm M.S tube handrail complete with galvanized cast iron post.	M	-	-	-	-	-	-	-	-	-	70.00	-	-	70.00	70.00
15	Supply, fabricate and install 40 mm diameter G.I pipe handrail.	M	-	-	-	-	-	-	50.00 - 65.00	58.33				50.00 - 65.00	58.33	
16	Supply, fabricate and install RHS handrailing including painting.	M	-	-	-	-	50.00 - 95.00	72.50	-	-	-	-	-	50.00 - 95.00	72.50	-
17	Supply, deliver and install 40 mm dia. hot dip galvanized iron handrail including joints and holding down bolts.	M	-	-	-	-	-	100.00	-	-	-	-	-	-	100.00	-

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BIL.	KETERANGAN KERJA	UNIT	KAWASAN A		KAWASAN B		KAWASAN C		KAWASAN D		KAWASAN E		KAWASAN F		KESELURUHAN	
			JULAT (RM)	PURATA (RM)	JULAT (RM)	PURATA (RM)	JULAT (RM)	PURATA (RM)	JULAT (RM)	PURATA (RM)	JULAT (RM)	PURATA (RM)	JULAT (RM)	PURATA (RM)	JULAT (RM)	PURATA (RM)
18	12 mm Diameter M.S dowel bars for connection between abutments and approach slab.	No.	-	20.00	-	-	-	-	-	-	-	-	-	-	-	20.00
19	Supply and fix into position 100 mm x 225 mm, 6 mm thick MS angle as ring seat for pump intake structures including anchor bolt and painting.	No.	-	300.00	-	-	-	-	-	-	-	-	-	-	-	300.00
20	Supply and fix 6 mm thick size 1500 mm x 700 mm MS chequred plate covering including all seating bolting and painting.	No.	-	-	-	250.00	-	-	-	-	-	-	-	-	-	250.00
21	Supply and fix 200 mm x 200 mm x 10 mm thick mild steel plate and 4 nos. mild steel bolt c/w nut and washers.		-	-	-	-	-	-	-	5.00	-	-	-	-	-	5.00
22	Supply, fabricate and install mild steel staircase including painting.	No.	-	-	-	-	-	500.00	-	-	-	-	-	-	-	500.00
23	190 mm x 3 mm Thick copper strip.	M	-	-	-	-	-	-	-	-	-	-	-	50.00	-	50.00
24	200 mm x 6 mm Thick lead sheet.	M	-	-	-	-	-	-	-	-	-	-	-	87.00	-	87.00

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BIL.	KETERANGAN KERJA	UNIT	KAWASAN A		KAWASAN B		KAWASAN C		KAWASAN D		KAWASAN E		KAWASAN F		KESELURUHAN	
			JULAT (RM)	PURATA (RM)	JULAT (RM)	PURATA (RM)	JULAT (RM)	PURATA (RM)	JULAT (RM)	PURATA (RM)	JULAT (RM)	PURATA (RM)	JULAT (RM)	PURATA (RM)	JULAT (RM)	PURATA (RM)
25	Take delivery, transport handle and fix in position 3600 mm x 4200 mm aluminium roller gates complete with gate guides including all accessories including painting of all aluminium and steel with 2 coats approved red lead primer with 2 coats of finished paint of approved colour.	Set	-	-	-	20,000.00	-	-	-	-	-	-	-	-	-	20,000.00
26	Ditto gate hoist, diesel operated hydraulic power system for hoisting the gates including all accessories, such as all steel cables and reinforced concrete for balance system and painting as specified.	Set	-	-	-	9,000.00	-	-	-	-	-	-	-	-	-	9,000.00
27	Allow for testing and commissioning of the tidal control gates including gate hoist and the diesel operated hydraulic power system.	L.S	-	-	-	2,122.50	-	-	-	-	-	-	-	-	-	2,122.50

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