

Document Number: ENS-MES-BOM-0003
AREA 26 - EMERGENCY COOLING WATER CIVIL WORKS


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 Pr. Eng 20020227, M Eng (Structural)

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Bill of Quantities

Item	Bill description	Unit	Bill quantity	Rate	Amount
CIVIL & STRUCTURAL WORKS					
CONCRETE (STRUCTURAL)					
1	EXISTING CONCRETE FLOOR				
1.1.2	Existing concrete surface preparation Clean existing concrete floorslab to remove all loose materials, sand - water jet, brush	m2	110.00		
2.1	FORMWORK				
2.1.1	Vertical formwork for new 1120mm high bund walls with 25x25 corner chamfers	m2	54.00		
2.1.2	Vertical formwork for new plinths, sump	m2	2.50		
2.1.3	Vertical formwork for new 625mm high bund walls with 25x25 corner chamfers	m2	42.00		
2.1.4	Vertical formwork sides of ramp	m2	2.20		
3.1	REINFORCEMENT				
3.1.1	High Tensile Steel (Rate to include ordering from schedule, supply, delivered to site, fixed in position)				
3.1.1.1	Y10 diameter bars - Bund	kg	450		
3.1.1.2	Welded Mesh Reinforcement Ref 395 - Bund	kg	460		
3.1.1.3	Y10 diameter bars - Off loading Bund	kg	500		
3.1.1.4	Welded Mesh Reinforcement Ref 395 - Off loading Bund	kg	460		
4.1	CONCRETE				
4.1	Reinforced Concrete				
4.1.1	Concrete 25 MPa/19mm				
4.1.1.1	Concrete bund walls 1120mm high	m3	6.00		
4.1.1.2	Concrete bund floor and sump - 7m x 5m	m3	11.00		
4.1.1.3	Concrete plinths	m3	1.00		
4.1.1.4	Concrete off loading bund walls 625mm high	m3	5.00		
4.1.1.5	Concrete off loading bund floor - 11.6m x 5m	m3	12.00		
4.1.1.6	Concrete off loading ramp	m3	10.00		

5.1	STEELWORK				
5.1.1	Steelwork canopy over bund (Price to include workshop detailing and drawings, all bolts Gr8.8 required)				
	(a) 160 IPE columns, Grade 355JR	kg	500.00		
	(b) 250x75x20x2.5 Cold formed lipped channels	kg	240.00		
	(c) Hot rolled angle iron 50x50x4, Grade 355JR	kg	75.00		
	(d) 150x65x20x2.5 Cold formed lipped channels	kg	310.00		
5.1.2	Baseplates, cleats, brackets Grade 355JR	kg	160.00		
5.1.3	150mm x 150mm x 2.0mm box gutter galvanized including waterproofing	m	7.50		
5.1.4	100mm x 100mm galvanized downpipe	m	5.10		
5.1.5	M16 chemical anchors	No	37.00		
5.1.6	Sheeting, 0.58mm IBR 686 sheeting	m2	50.00		
5.1.7	Steelwork Staircase (Price to include workshop detailing and drawings, all bolts Gr8.8 required)				
	(a) PFC 180x70 channel, Grade 355JR	kg	140.00		
	(b) Flat bar, baseplates, Grade 355JR	kg	15.00		
5.1.8	RS40 Mentis Grating 40x4.5 stair treads	No	10.00		
5.1.9	Handrailing - 34mm OD, Ball and Tube Dwg NNDD-V-26-C-CARPOR-0001 sht 4 of 6		Lump Sum		
5.1.10	Corrosion protection of all steelwork to spec Dwg NNDD-V-26-C-CARPOR-0001 sht 2 of 6		Lump Sum		
5.1	MISCELLANEOUS WORKS				
5.1.1	Bund floor and bund walls inside area acid resistant epoxy flooring paint	m2	135.00		
TOTAL					