

Client :EtheKwini Municipality

Contract No. :WS 7780

Description :Southern wtw - Concrete Rehabilitation of the Low-Level Storage Tank 1 and Construction of an Electrical Substation and Meter Room

Item No	Clause	Description	Unit	Qty	Rate	Amount
		SECTION 1: PRELIMINARY & GENERAL				
	SABS 1200A	FIXED CHARGE ITEMS				
1,1	8.3.1	Contractual requirements	Sum	1		
1.2	8.3.2	Establishment of facilities on site:				
	8.3.2.1	Facilities for Engineer (SABS 1200AB)				
1.2.1	PSA.5.2	Provision of office for the Engineers representative including ablution facilities	Sum	1		
1.3	8.3.2.2	Facilities for Contractor:				
1.3.1		Offices, storage sheds, fencing, security etc.	Sum	1		
1.3.2		Ablution and latrine facilities	Sum	1		
1.3.3		Water supplies, electric power and communications, dealing with water and access	Sum	1		
1.3.4		Tools and equipment	Sum	1		
1.3.5		Construction plant	Sum	1		
1.3.6	8.3.3	Other fixed charge obligations	Sum	1		
1.3.7	8.3.4	Remove all site establishment on completion	Sum	1		
1.4		Existing Services:				
1.4.1	PSA.7	Proving of existing underground services to depth exceeding 0,0m but not exceeding 1,5m and area not exceeding 1m ²	No	2		
1.5		General Safety, Safety Plan, Monitoring and Review:				
		The sum shall include all costs necessary in complying with the Occupational Health & Safety Act (1998 as amended) and the Construction Regulation 2014 and the eThekweni Municipality Health & Safety Specifications for initial costs and on-going costs as the works proceed	Sum	1		
		Sub-Total Carried Forward				

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SECTION 1: PRELIMINARY & GENERAL (CONTINUED)						
Sub Total brought forward						
TIME RELATED ITEMS						
1.6	SABS 1200A 8.4.1	Contractual requirements	Sum	1		
1.7	8.4.2	Operate and maintain facilities on site				
	8.4.2.1	Facilities for Engineer for duration of contract (SABS 1200AB)				
1.7.1	PS.3.2	Provision of office and ablution facilities for the Engineers Representative	weeks	60		
1.8		Facilities for Contractor for duration of of the contract				
1.8.1		Office, storage sheds, fencing, etc.	weeks	60		
1.8.2	PS.9	Provision of security on site to guard against any disruption of the works throughout the duration of the contract.	weeks	60		
1.8.3		Ablution and latrine facilities	weeks	60		
1.8.4		Water supplies, electric power and communications, dealing with water and access	weeks	60		
1.8.5		Tools and equipment	weeks	60		
1.8.6		Construction plant	weeks	60		
1.9	8.4.3	Supervision for duration of construction	weeks	60		
1.10	8.4.4	Company and head office overhead costs	weeks	60		
1.11	8.4.5	Other time-related obligations	weeks	60		
1.12		Cost of samples and contractor's preliminary and site control testing	Sum	1		
Sub-Total Carried to Forward						

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		SECTION 1: PRELIMINARY & GENERAL (CONTINUED)				
		Sub Total brought forward				
	SABS 1200A	TIME RELATED ITEMS CONTINUED				
		SUMS STATED PROVISIONALLY BY THE ENGINEER				
1.13	8,5	Acceptance testing by Engineer	PC Sum	1		R 10 000,00
1.14		Excavate and investigate leak in outfall channel / pipe and carry out in-situ repair to prevent further environmental hazard and investigate and repair / replace air valves and chambers to sea outfall pipeline	PC Sum	1		R 10 000 000,00
1.15		Contractors mark-up on item 1.14	%			
1.16		ISD fascilitator	PC Sum	1		R 600 000,00
1.17		Contractors mark-up on item 1.16	%			
1.19		MISCELLANEOUS				
1.19.1		Contractors cost for CPG management for duration of sub-contract	Sum			
1.19.2	C1.2.3.6	Allowance for excepted risks	Day	30		
1.19.3		Allow for the following items which the tenderer considers to be omitted and requires to be priced separately				
		a)	Sum			
		b)	Sum			
		c)	Sum			
		Total Section 1 Carried to Summary				

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Item No	Clause	Description	Unit	Qty	Rate	Amount
		SECTION 2: CONCRETE REHABILITATION TO TANK 1				
	SANS 1200 A 8,8	<u>GENERAL</u> <u>TEMPORARY WORKS</u>				
2,1	8.8.1	Temporary access to: Access, including all temporary ramps, scaffolding, walkways, cranes, ladders, gates, access control, laydown areas, platforms and reinstatement to original state	Sum	1		
2,2		Emptying of Tank 1 (Volume: 10 MI) The rate shall include for the access, isolation, emptying and disposing, desludging, cleaning and 5 grams per litre sodium hypochlorite solution disinfection of the tank walls and floor. All water is to be transferred into the tank discharge point. The rate shall include for all plant and equipment to remove fluids and loose sludge. The preparation of the tank by high pressure water jetting is measured elsewhere. Sludge shall be disposed at hazardous landfill, disposal of sludge off-site is measured separately. All solids (incl. debris, building rubble) and waste material shall be disposed at an approved tip.	Sum	1		
	SANS 1200C 8.2.1	<u>SITE CLEARANCE</u> Clear and Grub				
2,3		The rate shall include for the removal of plant growth and hardened sludge to depths of 300mm from the tank floor by means of hand excavation and shall also include the removal of fluids and loose wet sludge. The rate shall include for the handling of removed material from the tank floor for disposal.	Sum	1		
	8.2.9	Transport materials and debris to specified sites and dump Material to be disposed of at an approved tip.				
2,4		a) Hazardous Waste	m ³	12		
2,5		b) General Waste	m ³	12		
		Sub-Total carried Forward				

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Item No	Clause	Description	Unit	Qty	Rate	Amount
		SECTION 2: CONCRETE REHABILITATION TO TANK 1 (CONTINUED)				
		Sub Total brought forward				
	SABS 1200 DA	Earthworks (Small Works)				
2,6	8.3.1b	Excavate by hand in all materials and backfill and compact for working space around perimeter of tank.	m ³	85		
	PST.1	Part Spec: Removal of sealant and joint filler from existing joints				
2,7	PST.1.1	Strip and remove existing sealant and joint filler to a depth of 20mm to vertical joints in tank wall up to 4.5m high and dispose at an approved tip.	m	155		
2,8	PST.1.2	Strip and remove existing sealant and joint filler to a depth of 100mm to horizontal joints in tank floor and dispose at an approved tip.	m	850		
	PST.2	Part Spec: Cleaning and preparation of concrete surfaces prior to further work				
2,9	PST.2.2	Preparation of vertical tapered wall surfaces and overflow / outlet boxes, including high pressure water jetting, for cementitious crack-bridging waterproofing & application of moisture barrier.	m ²	1300		
2,10	PST.2.2	Preparation of tank floor, including high pressure jetting, for application of a sprayed repair mortar.	m ²	2550		
		Part Spec: Local Repairs to Damaged Areas of Existing Sprayed Concrete Layer				
		Removal of debonded sprayed concrete layer (Provisional)				
2,11	PST.2.3	Perform tap test with hammer to identify de-bonded sprayed concrete layer and up to 4.5m high.	m ²	1100		
2,12	PST.2.4	Mark out and remove de-bonded sprayed concrete layer up to 25mm thick, and up to 4.5m high, and dispose at the approved tip	m ²	150		
		Surface preparation of concrete				
2,13	PST.2.5	Scabbling of area of concrete to receive repair mortar up to 4.5m high	m ²	150		
		Sub-Total carried Forward				

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		SECTION 2: CONCRETE REHABILITATION TO TANK 1 (CONTINUED)				
		Sub Total brought forward				
	PST.3	Surface Repair of concrete				
2,14	PST.3.2	Local repairs to damaged sprayed concrete on vertical face of walls, up to 4.5m high, using a high performance, calcium aluminate sprayed repair mortar applied to nominal thickness of 25mm.	m ²	150		
2,15	PST.3.2	Extra over item 2.14 for work undertaken at night (Provisional)	m ²	150		
2,16	PST.3.3	Curing of sprayed repair mortar to walls	m ²	150		
	PST.3	Part Spec: Sprayed repair mortar protection of concrete substrate to floor				
		Scheduled formwork items				
2,17	PST.3.1	Narrow width formwork to floor panels	m	850		
2,18	PST.3.2	Place high performance, calcium aluminate sprayed repair mortar applied to nominal thickness of 25mm	m ²	2550		
2,19	PST.3.2	Extra over item 2.18 for work undertaken at night (Provisional)	m ²	2500		
2,20	PST.3.3	Curing of sprayed repair mortar to floor	m ²	2550		
	PST.4	Part Spec: Waterproofing to top of walls, internal and external wall surfaces (earth face)				
2,21	PST.4.1	Waterproofing with cementitious crack-bridging slurry	m ²	250		
2,22	PST.4.1	Extra over item 2.21 for work undertaken at night (Provisional)	hrs	100		
2,23	PST.4.2	Protection of slurry	m ²	250		
	PST.5	Part Spec: Abrasion and chemical resistant coating on vertical face of walls and overflow / outlet boxes				
2,24	PST.5.1	Apply moisture barrier in 2 coats to total thickness of 3mm	m ²	1050		
		Sub-Total carried Forward				

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		SECTION 2: CONCRETE REHABILITATION TO TANK 1 (CONTINUED)				
		Sub Total brought forward				
2,25	PST.5.1	Extra over item 2.24 for work undertaken at night (Provisional)	hrs	400		
2,26	PST.5.2	Protection and curing of moisture barrier coating	m ²	1050		
2,27	PST.5.3	Application of primer	m ²	1050		
2,28	PST.5.3	Extra over item 2.27 for work undertaken at night (Provisional)	hrs	400		
2,29	PST.5.4	Application of highly chemical resistant coating system in 3 coats	m ²	1050		
2,30	PST.5.4	Extra over item 2.29 for work undertaken at night (Provisional)	hrs	400		
2,31	PST.5.5	Protection of coating system	m ²	1050		
	PST.6	Part Spec: Repair of flexible joints between structural elements				
2,32	PST.6.1	Preparation of vertical joints in wall up to 4.5m in height	m	155		
2,33	PST.6.3	Joint sealing (20x10mm deep) vertical joints in wall	m	155		
	PST.6	Part Spec: New flexible joints between repair mortar to align with existing joints in floor				
2,34	PST.6.2	Preparation of the joint including 10mm Jointex joint former with 10x10mm tear-off strip or approved equal.	m	850		
2,35	PST.6.3	Joint sealing (10x10mm deep) joints in floor	m	850		
		Additional allowance due to rain delays				
2,36		Work stoppage (Provisional) NB! Rate to include for all associated P&G costs	days	30		
2,37		Cleaning out of tank of rain water and debris in order to continue with repair work (Provisional)	No	4		
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		SECTION 2: CONCRETE REHABILITATION TO TANK 1 (CONTINUED)				
		Sub Total brought forward				
2,38		MISCELLANEOUS				
2.38.1		Allow for the following items which the tenderer considers to be omitted and requires to be priced separately				
		a)	Sum			
		b)	Sum			
		c)	Sum			
		Total Section 2 Carried to Summary				

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Item No	Clause	Description	Unit	Qty	Rate	Amount
		<u>SECTION 3: NEW ELECTRICAL SUBSTATION AND METER ROOM</u>				
3.1	SABS 1200C	<u>SITE CLEARANCE</u>				
3.1.1	8.2.8	Break out and remove existing P.C barrier kerb and dispose at an approved tip	m	50		
3.1.2	8.2.8	Saw cut existing asphalt road edge, break out and remove 300mm width of asphalt and dispose at an approved tip	m	30		
3.1.3	8.2.1	Cut down and remove tree and dispose at garden refuse site, incl.de-stumping. Tree height not exceeding 3m and with trunk girth not exceeding 200mm	No	1		
3.1.4	8.2.8	Remove p.c. cover and splay from swmh and dispose at the approved tip site.	No	1		
		Total Section 3.1 carried to summary				

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Item No	Clause	Description	Unit	Qty	Rate	Amount
		<u>SECTION 3: NEW ELECTRICAL SUBSTATION AND METER ROOM CONTINUED:</u>				
3.2	SABS 1200D	<u>EARTHWORKS:</u>				
3.2.1	8.3.2 PSD	Excavate fill material (up to 1m depth) in order to reveal natural ground level and dispose on site within a free haul distance of 1km. NB! Material is contaminated with sewage screenings.	m³	550		
3.2.2	PSD	Extra over for taking spot levels and determining the depth of contaminated fill to be removed to the approval of the engineer.	Sum	1		
	8.3.3	<u>Excavate for restricted foundations, footings and cable trenches in all materials and use for backfill, embankment</u>				
3.2.3		Excavation for strip footing and cable trench	m³	120		
3.2.4		Stockpiling of surplus material from excavations	m³	70		
3.2.5		Backfilling to excavations etc.	m³	50		
	8.3.4	<u>Importation of Materials</u>				
		<u>Extra over for importation of materials from commercial sources or from borrow pits</u>				
3.2.6		Placing and compaction of G6 material produced from crusher run, in layer of 150mm to 95% Mod AASHTO, to strip footings and cable trench	m³	25		
3.2.7		Placing and compaction of G6 quality material in layers of 200mm to 95% Mod AASHTO, under floor slab	m³	65		
3.2.8		Placing and compaction of material from stockpile in layers of 200mm to 93% Mod AASHTO, to form earth platform and embankment	m³	70		
3.2.9		Placing and compaction of suitably imported material in layers of 200mm to 93% Mod AASHTO, to form earth platform and embankment	m³	10		
		Sub-Total Carried Forward				

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Item No	Clause	Description	Unit	Qty	Rate	Amount
		<u>SECTION 3: NEW ELECTRICAL SUBSTATION AND METER ROOM CONTINUED:</u>				
		Sub-Total brought forward				
3.2	SABS 1200D	<u>EARTHWORKS (CONTINUED):</u>				
3.2.10		Placing and compaction of G6 material produced from crusher run, in layer of 150mm to 95% Mod AASHTO, under floor slab	m ³	12		
3.2.11		Topsoiling to depth of 150mm, incl. down embankments	m ²	120		
		<u>Soil poisoning</u>				
3.2.12		Under floor	m ²	130		
		Total Section 3.2 carried to summary				

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Item No	Clause	Description	Unit	Qty	Rate	Amount
SECTION 3: NEW ELECTRICAL SUBSTATION AND METER ROOM CONTINUED:						
PLUMBING AND DRAINAGE						
SABS 1200DB EARTHWORKS: (PIPE TRENCHES)						
3.3.1	8.3.2(a)	Excavate by hand and backfill in all materials for 110 Ø pipe where pipe depth is over 0,0m and not exceeding 1,5m. Dispose of surplus/unsuitable material on site	m	20		
SABS 1200LC CABLE DUCTS						
3.3.2	8.2.2	Excavate in all materials for trenches up to 1,5m deep, backfill, compact, and dispose of surplus material on site. Width of trench: 800mm	m	7		
3.3.3	8.2.2	Excavate in all materials for trenches up to 1,5m deep, backfill, compact, and dispose of surplus material on site. Width of trench: 400mm	m	7		
3.3.4	8.2.5	Supply, lay, joint, bed and prove 8 x 160 Ø HD uPVC ducts, with end caps and steel draw wire, for electrical cables	m	7		
3.3.5	8.2.5	Supply, lay, joint, bed and prove 2 x 160 Ø and 2 x 100 Ø HD uPVC ducts, with end caps and steel draw wire, for electrical cables	m	8		
SABS 1200LD SEWERS						
3.3.6	8.2.1	Supply, lay, joint, bed and test 110 Ø HD uPVC pipe	m	20		
3.3.7	8.2.2	Extra over for 110 Ø x 90 deg. bend	No	2		
3.3.8	8.2.2	Extra over for 110 Ø swept Tee junction	No	1		
3.3.9	8.2.2	Extra over for 110 Ø x 90 deg. bend	No	2		
3.3.10	8.2.2	Extra over for 110 Ø PVC stormwater outlet with grid cast into cable trench base	No	3		
Sub-Total Carried Forward						

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		SECTION 3: NEW ELECTRICAL SUBSTATION AND METER ROOM CONTINUED:				
		Sub-Total brought forward				
		PLUMBING AND DRAINAGE (CONTINUED):				
		SEWERS (CONTINUED):				
3.3	SABS 1200LD					
3.3.11	PS.LD.1	Extra over for wrapping pipe in 50mm thick x 1m long polystyrene and encasing in 150mm concrete for width of building foundation	No	3		
3.3.12	PS.LD.2	Excavate for and construct stormwater soakpit size: 1.5m x 1.5m x 1.5m filled with 26mm aggregate, wrapped in Bidim U14 geofabric with min. 200mm laps, and compact to 500mm above soakpit. Surplus excavated material to be spoiled on site	No	1		
		STORMWATER DRAINAGE				
3.3.13	SABS 1200LE 8.2.8	Modify existing stormwater inlet manhole to receive 450 x 600 heavy duty cast iron grating and frame set into R.C cover slab, all as per detail on the drawing	Sum	1		
		Total Section 3.3 Carried to Summary				

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		<u>SECTION 3: NEW ELECTRICAL SUBSTATION AND METER ROOM CONTINUED:</u>				
3.4		<u>ROADWORKS AND PAVING</u>				
	SABS 1200DM	EARTHWORKS (ROADS, SUBGRADE)				
3.4.1	8.2.1	Cut to fill subgrade, for asphalt paving, to road box level & compact to 95% Mod AASHTO	m ³	15		
3.4.2	8.2.1	Excavate subgrade for asphalt paving to road box level & spread on site within 100m of work area	m ³	25		
3.4.3	8.3.3	Trim and prepare road box and lay sub-base for asphalt paving area with G6 material imported from a commercial source, to 125mm finished thickness and compacted to 95% Mod AASHTO	m ³	30		
3.4.4	8.3.3	Construct sub-base for new asphalt paving area with G2 crushed stone layer imported from a commercial source, to 125mm finished thickness and compacted to 98% Mod AASHTO density	m ³	30		
	SABS 1200MH	ASPHALT BASE AND SURFACING				
3.4.5	8.5.3 8.5.4	Supply and lay 40mm thick asphalt layer from 9.5mm continuously graded asphalt (mix 'A'), incl. tack coat	m ²	225		
	SABS 1200MK	KERBING AND CHANNELLING				
3.4.6	8.2.1	Excavate for and backfill to construct Fig. 6 precast concrete barrier kerb, incl. 250mm wide x 90mm thick x 20 Mpa concrete base, 20mm mortar bed and haunching.	m	12		
3.4.7	8.2.1	Extra over for Fig. 6 kerb layed in a curve	m	5		
3.4.8	8.2.1	Excavate for and backfill to construct Fig. 6 precast concrete mountable kerb, incl. 330mm wide x 150mm thick x 20 Mpa concrete base, 20mm mortar bed and haunching and 10mm sealed exp. joints at 6m ctrs.	m	40		
		Sub-Total Carried Forward				

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		<u>SECTION 3: NEW ELECTRICAL SUBSTATION AND METER ROOM CONTINUED:</u>				
		Sub-Total brought forward				
		<u>ROADWORKS AND PAVING (CONTINUED):</u>				
		<u>KERBING AND CHANNELLING (CONTINUED):</u>				
	SABS 1200MK					
3.4						
3.4.9	8.2.1	Extra over for mountable kerb layed in a curve	m	15		
3.4.10	8.2.1	Extra over for mountable / barrier insitu transition kerb	m	2		
3.4.11		P.C. PAVERS Supply and lay 500 x 500 x 50 precast concrete pavers with grouted joints on 20mm compacted river sand on poisoned soil. Pavers to slope away from building to 1:50 fall.	m ²	35		
		Total Section 3.4 Carried to Summary				

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		<u>SECTION 3: NEW ELECTRICAL SUBSTATION AND METER ROOM CONTINUED:</u>				
3.5	SABS 1200G	<u>CONCRETE (STRUCTURAL)</u>				
	8,2	<u>SCHEDULED FORMWORK ITEMS</u>				
	8.2.1	<u>Rough</u>				
3.5.1		Sides of strip footings, floor slab edges and trench foundation	m ²	65		
	8.2.2	<u>Smooth</u>				
3.5.2		Soffits of slabs not exceeding 3.5m high above ground	m ²	135		
3.5.3		Extra over for soffit of eaves cantilever	m ²	20		
	8.2.5	<u>Narrow widths</u>				
3.5.4		Edges, ends and reveals not exceeding 300mm high or wide	m	64		
3.5.5		Extra over for formation of 30mm roof edge upstand	m	64		
3.5.6		20mm Chamfer to exposed concrete edges	m	130		
3.5.7		15mm Half round drip notch to edge of slab soffit	m	61		
3.5.8		100x100 Pockets formed with polystyrene in concrete floor slab at trench edge	No	150		
	8,3	<u>SCHEDULED REINFORCEMENT ITEMS</u>				
	8.3.1	<u>Steel bars</u>				
3.5.9		High tensile of varying diameters	t	3		
	8.3.2	<u>High tensile welded mesh</u>				
3.5.10		Mesh reinforcement ref. 245	m ²	101		
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		<u>SECTION 3: NEW ELECTRICAL SUBSTATION AND METER ROOM CONTINUED:</u>				
		Sub-Total brought forward				
3.5	SABS 1200G	<u>CONCRETE (STRUCTURAL) CONTINUED:</u>				
	8.4	<u>SCHEDULED CONCRETE ITEMS</u>				
	8.4.3	<u>Strength concrete, grade 30 Mpa / 19mm</u>				
3.5.11		Strip footings and trench foundation	m ³	25		
3.5.12		Floor slab and door steps	m ³	16		
3.5.13		Roof slab	m ³	30		
	8.4.4	<u>Unformed surface finishes</u>				
3.5.14		Wood floated finish to foundations, surface beds, steps and roof slab.	m ²	350		
	8.5	<u>JOINTS</u>				
3.5.15		Place 2 layers of 3 ply malthoid to form slip joint at roof slab / brick wall interface of 220 wall	m	61		
3.5.16	PSB.5.2	350 micron PVC underlay to floor slabs	m ²	100		
		Total Section 3.5 carried to summary				

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		<u>SECTION 3: NEW ELECTRICAL SUBSTATION AND METER ROOM CONTINUED:</u>				
3,6	SABS 1200HA	STRUCTURAL STEELWORK (SUNDRY ITEMS)				
	8.3.1	<u>SCHEDULED ITEMS</u>				
3.6.1		HDGMS 30 x 30 x 5 angle with 50 x 3 flat. x 100 long split fishtail anchors welded at 400 centres cast into concrete	m	70		
3.6.2		Extra over for mitre cut and fillet weld at corners	No	8		
3.6.3	PSB.7.1	HDGMS single door to fit opening size: 1.05m wide x 2.4m high and as detailed on the drawing	No	3		
3.6.4	PSB.7.1	HDGMS double door to fit opening size: 1.65m wide x 2.4m high and as detailed on the drawing	No	3		
3.6.5	PSB.7.1	HDGMS double door to fit opening size: 2.05m wide x 2.4m high and as detailed on the drawing	No	1		
		Total Section 3.6 carried to summary				

Client :EtheKwini Municipality

Contract No. :WS 7780

Description :Southern wtw - Concrete Rehabilitation of the Low-Level Storage Tank 1 and Construction of an Electrical Substation and Meter Room

Item No	Clause	Description	Unit	Qty	Rate	Amount
		<u>SECTION 3: NEW ELECTRICAL SUBSTATION AND METER ROOM CONTINUED:</u>				
3.7		BUILDING WORK				
		STRUCTURE				
3.7.1	PSB.4.8	220mm brickwork in load bearing engineering bricks incl. bag and tar coat between skins	m ²	345		
3.7.2	PSB.4.8	Extra over item for load bearing engineering brick roller course at roof eaves level with neatly struct flush jointing to form slip joint for roof slab seating	m	70		
3.7.3	PSB.4.8	Extra over brickwork item for "Firelight Satin" (FBX) facebrick in external 110mm skin by "Corobrik"	m ²	180		
3.7.4	PSB.4.8	220mm brickwork in load bearing engineering bricks to cable trench	m ²	65		
3.7.5	PSB.4.8	110mm brickwork in load bearing engineering bricks to cable trench	m ²	15		
3.7.6	PSB.4.9	Galvanised steel brickforce in 220 walls	m	1300		
3.7.7	PSB.4.9	Galvanised steel brickforce in 110 walls	m	200		
3.7.8	PSB.5.1	375 micron DPC to 220 walls	m	85		
3.7.9	PSB.6	Plastering internally on brick walls including window and door heads & reveals etc. and application of necessary sealers and plaster primer	m ²	275		
3.7.10		Prepare concrete floor and and place 50mm thick 3:1 sand/cement granolithic floor screed to min. tolerances, incl. turning down at door thresholds	m ²	130		
3.7.11		Prepare concrete floor of trench and and place 3:1 sand/cement screed to falls. Average thickness of 100mm.	m ²	25		
		Sub-Total Carried Forward				

Client :EtheKwini Municipality

Contract No. :WS 7780

Description :Southern wtw - Concrete Rehabilitation of the Low-Level Storage Tank 1 and Construction of an Electrical Substation and Meter Room

Item No	Clause	Description	Unit	Qty	Rate	Amount
		<u>SECTION 3: NEW ELECTRICAL SUBSTATION AND METER ROOM CONTINUED:</u>				
		Sub-Total brought forward				
3.7		BUILDING WORK CONTINUED				
		STRUCTURE (CONTINUED):				
3.7.12	PSB.9	Prepare internal ceiling soffit, apply undercoat and two finishing coats of a good quality mid sheen, washable and steam resistant paint	m ²	130		
3.7.13	PSB.9	Prepare internal walls, apply undercoat and two finishing coats of a good quality mid sheen, washable and steam resistant paint	m ²	275		
3.7.14	PSB.8.1	Prepare concrete roof, place and shape 3:1 sand / cement screed to falls. Average thickness of 80mm.	m ²	170		
3.7.15	PSB.8.2	One layer Derbigum SP4 waterproofing membrane, with 75mm side laps and 100mm end laps, sealed to primed surface to falls and crossfalls by torch-fusion finished with one coat of aluminium primer followed by two coats aluminium paint. Installation to be by an approved contractor under a ten year guarantee.	m ²	170		
3.7.16		Supply everything necessary for a natural annodised aluminium ventilation louvre grille with vermin proof, stainless steel mesh (10 x 10 aperture). Incl. silicone seal against brickwork externally. Brickwork opening size: 1.5m wide x 0.7m high	No	1		
		Total Section 3.7 Carried to Summary				

Client :EtheKwini Municipality

Contract No. :WS 7780

Description :Southern wtw - Concrete Rehabilitation of the Low-Level Storage Tank 1 and Construction of an Electrical Substation and Meter Room

Item No	Clause	Description	Unit	Qty	Rate	Amount
3.8		<u>SECTION 3: NEW ELECTRICAL SUBSTATION AND METER ROOM CONTINUED:</u>				
		ELECTRICAL WORK				
3.8.1	PSE.1	Provide and install complete electrical light fittings, switches, DB, plug points, conduits, ducts, wiring and earthing requirements as specified on the project drawing under points 6 and 8 of the construction notes. NB! All conduits to be chased in the walls, cast into the floor and roof slab as necessary. The electrical installations are as follows, but are not limited to: a. Six-way distribution board: 3 no. b. 16 A switched socket outlet: 6 no. c. Two way light switch: 4 no. d. Light switch: 3 no. e. 1200 mm Flourescent, double tube light fittings (40 W rating): 12 no. f. Earth bar: 4 no. g. Earth mat as required	Sum			
		Total Section 3.8 Carried to Summary				
3.9		MISCELLANEOUS				
3.9.1		Allow for the following items which the tenderer considers to be omitted and requires to be priced separately				
		a)	Sum			
		b)	Sum			
		c)	Sum			
		Total Section 3.9 Carried to Summary				

Client :Ethekewini Municipality

Contract No. :WS 7780

Description :Southern wtw - Concrete Rehabilitation of the Low-Level Storage Tank 1 and Construction of an Electrical Substation and Meter Room

Item No	Clause	Description	Unit	Qty	Rate	Amount
		SECTION 4: DAYWORKS				
		<u>Labour</u>				
4.1		Foreman	hr	20		
4.2		Skilled	hr	30		
4.3		Semi-skilled	hr	40		
4.4		Unskilled	hr	60		
		<u>Plant (Large) - rate only</u>				
4.5		TLB - 50 kw	hr	10		xxxxxxx
4.6		Tip truck	hr	20		xxxxxxx
4.7		Tip truck (double diff) - 10m ³	hr	20		xxxxxxx
		<u>Others (Contractor to specify) - rate only</u>				
4.8		a)	xxx	0		xxxxxxx
4.9		b)	xxx	0		xxxxxxx
4.10		c)	xxx	0		xxxxxxx
		<u>Plant (small)</u>				
4.11		Vibrating roller (Bomag 60 or similar)	hr	10		
4.12		Plate compactor	hr	20		
4.13		Water pump - 80mm (fuel driven)	hr	50		
		<u>Others (Contractor to specify) - rate only</u>				
4.14		a)	xxx	0		xxxxxxx
4.15		b)	xxx	0		xxxxxxx
4.16		c)	xxx	0		xxxxxxx
		Total Section 4 carried to summary				

Client :EtheKwini Municipality
 Contract No. :WS 7780
 Description :Southern wtw - Concrete Rehabilitation of the Low-Level Storage Tank 1 and Construction of an Electrical Substation and Meter Room

Section	Description	Amount
	SUMMARY OF BILL OF QUANTITIES	
SECTION 1:	PRELIMINARY AND GENERAL	
SECTION 2:	CONCRETE REHABILITATION TO TANK 1	
SECTION 3:	NEW ELECTRICAL SUBSTATION AND METER ROOM	
SECTION 3.1:	SITE CLEARANCE	
SECTION 3.2:	EARTHWORKS	
SECTION 3.3:	PLUMBING AND DRAINAGE	
SECTION 3.4:	ROADWORKS AND PAVING	
SECTION 3.5:	CONCRETE (STRUCTURAL)	
SECTION 3.6:	STRUCTURAL STEELWORK (SUNDRY ITEMS)	
SECTION 3.7:	BUILDING WORK	
SECTION 3.8:	ELECTRICAL WORK	
SECTION 3.9:	MISCELLANEOUS	
SECTION 4:	DAYWORKS	
	SUB TOTAL	
	VALUE ADDED TAX (15%)	
	TOTAL	

SIGNED ON BEHALF OF THE TENDERER.....

DATE:.....