

Unit Quantity Rate Amount

SECTION NO. 4

BILL NO. 3

TURNSTILE AND GATE MOTORS

SLIDING GATE MOTORS AND TURNSTILE

The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades (1999 Edition)

SUPPLEMENTARY PREAMBLES

1. All prices for equipment shall be for supply and final fixing in place.
2. This bill must be priced in conjunction with the drawing and specifications documents.
3. Unless otherwise stated elsewhere, all rates shall be fixed for the duration of the contract.
4. Escalation : Refer to Main Contract

Tenderers are referred to the specifications, for the full descriptions of the following items which are to be read and priced in conjunction with the said specification and drawings

MOTORS, TURNSILES

Descriptions shall be deemed to include complete installation for full and sfae functionality

Preliminary and General

The tenderer shall include at least the following in their price for Preliminary and General in the main BOQ

1. Allowance for associated costs to comply with conditions of contract -Time based, variable value based and fixed amount)
2. Preparation of shop and as-built drawings
3. testing and commissioning
4. 12-month maintenance, service and guarantee after practical handover, and including retuning and final major service on 12th month of the service period.
5. Training of building management and service personnel, as specified
6. Compliance with OHASA 1993 and Construction Regulations 4(1) (a)
7. Provision of compliance certificates
8. Original and copies of operating and maintenance manuals as specified
9. Scaffolding and ladders

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Bill No. 3

Turnstile And Gate Motors

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		Unit	Quantity	Rate	Amount
<u>SLIDING GATE MOTORS:</u>					
1	Motor as specified complete with rack - supply and installation	No	2		
2	Open/close control station located in central commanders office complete with wiring and termination	No	1		
3	25mm PVC conduit run underground to control station at central commanders office	m	150		
4	Remotes	No	5		
5	600 deep x 300mm wide trench for 25 conduit in natural earth and backfilled and compacted to 90% MOD AASHTO	m	70		
<u>TURNSTILE</u>					
6	Supply of complete turnstile as specified	No	1		
7	Installation of turnstile including coordination with other services (commissioning and testing included in the preliminaries and general in the main BOQ)	Item			
8	25mm PVC conduit run underground to override control station at central commanders office	m	150		
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TURNSTILE AND GATE MOTORS
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Amount

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South African Police Service
Ntshongwe Police Station

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		Unit	Quantity	Rate	Amount
SECTION NO. 5					
BILL NO. 1					
EXTERNAL WORKS					
(CPAP WORK GROUP NO. 154 UNLESS OTHERWISE STATED)					
SITEWORKS					
REMOVAL OF TREES ETC					
Cutting down and removing, grubbing up roots and filling in holes					
1	Tree exceeding 500mm and not exceeding 1000mm girth	No	15		
2	Tree exceeding 1000mm and not exceeding 1500mm girth	No	20		
3	Tree exceeding 1500mm and not exceeding 2000mm girth	No	6		
4	Tree exceeding 2000mm and not exceeding 2500mm girth	No	4		
5	Tree exceeding 2500mm and not exceeding 3000mm girth	No	1		
6	Tree exceeding 3000mm and not exceeding 3500mm girth	No	1		
7	Tree exceeding 3500mm and not exceeding 4000mm girth	No	2		
8	Tree exceeding 4000mm and not exceeding 4500mm girth	No	1		
SITE CLEARANCE, ETC					
9	Digging up and removing rubbish, debris, vegetation, hedges, shrubs and trees not exceeding 200mm girth, bush, etc. with an including carting away off site. (LI)	m ²	13 699		
BULK EXCAVATION, EXCAVATION, FILLING, ETC					
Open face excavation in soft material over sloping site not exceeding 2m deep.					
10	In bulk excavation to reduce levels and cut and form platform, including setting aside for later re-use or removal. (LI)	m ³	2 093		
Extra over bulk excavation in soft material for excavation in					
11	Soft rock. (LI)	m ³	209		
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External Works					

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		Unit	Quantity	Rate	Amount
12	Hard rock	m ³	105		
	<u>Extra over all excavation for carting away</u>				
13	Surplus material from excavation and/or stock piles on site to a dumping site to be located by the Contractor	m ³	2 093		
	<u>Risk of collapse of excavations</u>				
14	Sides of bulk excavations not exceeding 1,5m deep. (LI)	m ²	330		
	<u>Keeping excavations free of water</u>				
15	Keep bulk excavations free of water by pumping or bailing (allowance per m3 of excavation)	Item			
	<u>Earth filling obtained from excavations and/or prescribed stock piles on site laid in layers not exceeding 150mm thick and compacted to 95% Mod AASHTO density, including the costs of testing</u>				
16	Over site	m ³	2 104		
	<u>Imported Fill</u>				
17	Filling of G7 engineered material supplied by the contractor, compacted to 93% Mod AASHTO density	m ³	11		
	<u>Excavation in earth not exceeding 2m deep</u>				
18	Reduce Levels	m ³	172		
	<u>EXCAVATIONS ETC OTHER THAN BULK</u>				
19	Trenches	m ³	32		
20	Holes	m ³	180		
	<u>Extra over excavation in earth for excavation in:</u>				
21	Soft rock. (LI)	m ³	384		
22	Hard rock	m ³	19		
	<u>Extra over all excavations for carting away</u>				
23	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor	m ³	85		
	<u>Risk of collapse of excavations</u>				
24	Sides of excavations not exceeding 1,5m deep	m ²	504		
	<u>Keeping excavations free of water</u>				
25	Keeping excavations free of water other than subterranean water	Item			

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		Unit	Quantity	Rate	Amount
<u>FILLING ETC OTHER THAN BULK</u>					
<u>Earth filling obtained from the excavations and/or prescribed stock piles on site</u>					
26	Backfilling. (LI)	m ³	46		
<u>Filling of natural gravel material G5 supplied by the contractor, compacted to 93% Mod AASHTO density</u>					
27	Backfilling to trenches, holes, etc	m ³	144		
<u>Coarse river sand filling supplied by the contractor</u>					
28	Under surface beds. (LI)	m ³	34		
<u>Compaction of surfaces</u>					
29	Compaction of ground surface under floors etc. including scarifying for a depth of 150mm, adding G7 material where necessary and compacting to 95% Mod AASHTO density	m ²	606		
<u>Prescribed density tests on filling</u>					
30	Modified AASHTO Density test	No	9		
31	'Natural California Bearing' Ratio test	No	4		
32	'Road Indicator' test	No	4		
33	"Field Density" test including "Optimum Moisture Content" (four readings per test)	No	4		
<u>SOIL POISONING</u>					
<u>An approved anti-termite soil poison applied by a Registered Pest Control Company and guaranteed against termite infestation for Five (5) years all in accordance with SANS 10400</u>					
34	Under floors etc. including forming and poisoning shallow furrows against foundation walls etc., filling in furrows and ramming (LI)	m ²	7 916		
35	To bottoms and sides of trenches. (LI)	m ²	515		
<u>UNREINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u>					
<u>15MPa/19mm concrete</u>					
36	Surface blinding under footings and bases	m ³	21		
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		Unit	Quantity	Rate	Amount
<u>REINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u>					
<u>25MPa/19mm concrete</u>					
37	Bases, plinths, etc.	m ³	71		
38	Surface Beds	m ³	7		
39	Strip footings	m ³	29		
40	Apron Slabs	m ³	46		
<u>REINFORCED CONCRETE CAST ON/IN FORMWORK</u>					
<u>25MPa/19mm concrete</u>					
41	Columns in foundations (Provisional)	m ³	7		
<u>30MPa/19mm concrete</u>					
42	Slabs including beams and inverted beams	m ³	13		
<u>CONCRETE SUNDRIES</u>					
<u>Finishing top surfaces of concrete smooth with a power float</u>					
43	Surface beds, slabs, etc	m ²	461		
<u>Finishing top surfaces of concrete smooth with a wood float</u>					
44	Surface beds, slabs, etc	m ²	244		
<u>TEST CUBES</u>					
<u>Test cubes</u>					
45	Making and testing 150 x 150 x 150mm concrete strength test cube (Provisional)	Sets	72		
<u>ROUGH FORMWORK (DEGREE OF ACCURACY II)</u>					
<u>(CPAP WORK GROUP NO. 111)</u>					
<u>Rough formwork to sides</u>					
46	Bases	m ²	18		
47	Columns in foundations	m ²	8		
<u>SMOOTH FORMWORK (DEGREE OF ACCURACY II)</u>					
<u>(CPAP WORK GROUP NO. 111)</u>					
<u>Smooth formwork to sides</u>					
48	Edges, risers, ends and reveals not exceeding 300mm high or wide. (LI)	m	382		

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		Unit	Quantity	Rate	Amount
	<u>Smooth formwork to soffits</u>				
49	Slabs propped up not exceeding 3.5m high. (LI)	m ²	19		
	<u>MOVEMENT JOINTS ETC</u>				
	<u>Expansion joints with 10mm thick polystyrene joint filler between vertical concrete and brick surfaces</u>				
50	Not exceeding 300mm high to edges of brick walls	m	500		
	<u>Saw-cut joints</u>				
51	3 x 45mm Saw-cut joints in top of concrete, reamed out to 8mm	m	141		
	<u>REINFORCEMENT</u>				
	<u>Mild steel reinforcement to structural concrete work</u>				
52	10mm diameter bars	Tonnes	5.01		
	<u>High tensile steel reinforcement to structural concrete work</u>				
53	10mm diameter bars	Tonnes	0.65		
54	12mm diameter bars	Tonnes	1.49		
55	16mm diameter bars	Tonnes	3.00		
56	20mm diameter bars	Tonnes	0.06		
	<u>Fabric reinforcement</u>				
57	Type 193 fabric reinforcement in concrete surface beds etc	m ²	395		
	<u>BRICKWORK IN FOUNDATIONS</u>				
	<u>Brickwork of "Corobrik" or equally approved NFX bricks (14 MPa nominal compressive strength) in class II mortar in loadbearing walls etc.</u>				
58	One brick walls, bagged and sealed. (LI)	m ²	82		
	<u>BRICKWORK IN SUPERSTRUCTURE</u>				
	<u>Brickwork of "Corobrik" or equally approved NFX bricks (14 MPa nominal compressive strength) in class II mortar in loadbearing walls etc.</u>				
59	One brick walls, bagged and sealed. (LI)	m ²	36		
	<u>BRICKWORK SUNDRIES</u>				
	<u>Bagging of 1:3 cement and sand mixture</u>				
60	On concrete walls, columns, etc. including removing ridges, irregularities, etc. (LI)	m ²	60		

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		Unit	Quantity	Rate	Amount
<u>MOVEMENT JOINTS, ETC</u>					
<u>Two layers "Malthoid" in slip joints between horizontal concrete and brick surfaces including cement mortar bed</u>					
61	Not exceeding 300mm wide. (LI)	m	20		
<u>2.5mm Galvanised brick reinforcement</u>					
62	150mm Wide reinforcement built in horizontally. (LI)	m	300		
<u>FACE BRICKWORK</u>					
<u>"Corobrik Roan Satin FBX" or equally approved face bricks to be constructed in stack bond with recessed horizontal and vertical joints</u>					
63	Extra over brickwork for face brickwork in foundations (Provisional) (LI)	m ²	164		
<u>DAMPPROOFING OF WALLS AND FLOORS</u>					
<u>One layer 250 micron green polyethylene waterproof sheeting (SANS 952-1985 type C) sealed at laps with PVC self-adhesive tape</u>					
64	Under surface beds. (LI)	m ²	742		
<u>SEALING STRIPS, JOINT SEALANTS, ETC</u>					
<u>Two-part grey polysulphide sealing compound including backing cord, bond breaker, primer, etc.</u>					
65	8 x 13mm In saw cut joints in floors. (LI)	m	141		
66	8 x 13mm In vertical expansion joints including raking out expansion joint filler as necessary. (LI)	m	500		
<u>HOT-DIPPED GALVANISED STEEL COLUMNS AND BEAMS</u>					
<u>Hot-dipped galvanised I-section beams</u>					
67	203mm x 133mm x 25kg/m I-Section Beams	Tonnes	3.76		
<u>Hot-dipped galvanised parallel flanged channel</u>					
68	180mm x 70mm Parallel flange channel stringer	Tonnes	4.81		
69	100mm x 50mm Parallel flange channel stringer	Tonnes	1.53		
70	200mm x 75mm Parallel flange channel beam	Tonnes	2.60		
<u>Hot-dipped galvanised square hollow section posts</u>					
71	120mm x 120mm x 4mm Square hollow section post	Tonnes	2.95		
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		Unit	Quantity	Rate	Amount
	<u>Hot-dipped galvanised circular hollow section posts</u>				
72	72mm x 3.2mm Circular hollow section post	Tonnes	0.09		
	<u>Hot-dipped galvanised baseplates, Endplates, etc</u>				
73	320 x 220 x 12mm Baseplate with and including four holes for bolts and welded to post	No	26.00		
74	350 x 400 x 16mm Baseplate with and including four holes for bolts and welded to post and 4No 140 x 350 x 6mm stiffener plates 1100mm high	No	2.00		
	<u>BOLTS, FASTENERS, ETC</u>				
	<u>Bolts and fasteners</u>				
75	M12 anchor bolts including washers	No	112		
76	M16 anchor bolts including washers	No	8		
	<u>HOT-DIPPED GALVANISED FLAG POLES, ETC.</u>				
	<u>Flagpole</u>				
77	7500mm high x 76mm diameter x3.2mm thick galvanised mild steel pivot fixed flag pole complete with end cap, stainless steel pulley for flag chord, stainless steel cleats, sleeve connection brackets, base plate, etc. Fixed to reinforced concrete base (base elsewhere measured) with and including M12 stainless steel bolts all as per drawing No. 2301-AR-552-A	No	2		
	<u>The following in purpose made hot dipped galvanised frame roof cover</u>				
78	Purpose made open courtyard pergola overall size 3380 x 1198mm wide formed of 60 x 60 x 6mm thick angle iron framing and filled in with and including 50 x 50 x 3mm thick angle iron at approximately 132mm centres, with and including all necessary bolts, plates, fixings, etc. all as per Engineers drawing No. D848-6000-018 Rev C	No	30		
	<u>FIBREGLASS MESH PANELS</u>				
	<u>Fibreglass grating</u>				
79	38 x 38mm Fibreglass grating including frames, fixing, etc.	m²	11		

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		Unit	Quantity	Rate	Amount
<u>The following in Water Tanks</u>					
<u>Support Tower for Steel Tank</u>					
80	Design, manufacture and install 15m high standard prefabricated tank support tower with platform and safety railing to support a 4L x 3W x 3H panel pressed sectional steel tank, with and including all necessary piping, fittings, bolts, fixing etc all as per engineers drawing no. (D848-52-5250 REV No. 0)	No	1		
<u>Steel Tank</u>					
81	Supply & install on support tower one sectional steel tank assembled from pressed sectional steel panels complete with 50mm inlet, 100mm outlet, 80mm overflow & 80mm drain, all flanged, and lockable access hatch, with and including all necessary bolts, fittings etc all as per engineers drawing no. (D848-52-5250 REV No. 0)	No	1		
<u>STORMWATER DRAINAGE</u>					
<u>Storm water channels</u>					
82	1000mm Wide x 150mm thick overall mesh reinforced concrete "Trapezoidal" shaped stormwater channels of 30MPa/19mm concrete construction, "Trapezoidal" shaped channel to be 250mm deep at centre, and with and including excavations to reach the required depth, soft rock and hard rock excavations, risk of collapse, cart away, ref 245 mesh reinforcement, 250 micron "Consol" Plastic Gunplas black or equally approved waterproof sheeting and including rough formwork (Degree of Accuracy III) not exceeding 300mm high to all vertical edges of channels. Channels to be cast in 1000mm long panels with and including 10mm bitumen impregnated fibreboard joints between adjacent panels and between channels and adjacent brick or concrete surfaces, with and including approved joint sealant to all joints, the whole to have a wood floated finish all as per drawing D848-52-4001(1/3) (LI)	m	211		
83	Extra over for angles, intersections, ends, dressing into sides of catchpits, etc. (LI)	No	2		
<u>uPVC Class 34 pipes</u>					
84	200mm Pipes laid in and including trenches not exceeding 1m deep including excavations, extra over for soft, intermediate, hard rock, backfilling, risk of collapse, soil poisoning, etc. (LI)	m	93		
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		Unit	Quantity	Rate	Amount
85	200mm Pipes laid in and including trenches exceeding 1m deep and not exceeding 2m deep including excavations, extra over for soft, intermediate, hard rock, backfilling, risk of collapse, soil poisoning, etc. (LI)	m	298		
86	315mm Pipes laid in and including trenches not exceeding 1m deep including excavations, extra over for soft, intermediate, hard rock, backfilling, risk of collapse, soil poisoning, etc. (LI)	m	8		
87	315mm Pipes laid in and including trenches exceeding 1m deep and not exceeding 2m deep including excavations, extra over for soft, intermediate, hard rock, backfilling, risk of collapse, soil poisoning, etc. (LI)	m	155		
88	450mm Pipes laid in and including trenches exceeding 1m deep and not exceeding 2m deep including excavations, extra over for soft, intermediate, hard rock, backfilling, risk of collapse, soil poisoning, etc. (LI)	m	20		
Precast Concrete Pipe					
89	450mm Concrete pipes laid in and including trenches not exceeding 1m deep including excavations, extra over for soft, intermediate, hard rock, backfilling, risk of collapse, soil poisoning, etc. (LI)	m	111		
Sundries					
90	Extra only over backfill for selected earth filling from the excavations in back filling with an approved imported fine granular filling to 300mm below top of trench and 500mm bedding of compacted selected non cohesive granular material. (LI)	m³	1 017		
Testing					
91	Allow for testing all the stormwater drains as directed by the Engineer and re-testing after replacing any defective work to his satisfaction. The Contractor is to provide all testing apparatus and labour and is to follow the instruction of the Engineer implicitly	Item			
<u>The following in precast catchpits, manholes, etc of 150mm thick 30 MPa/ 19mm concrete base, precast concrete cover, one brick walls in NFX hardburnt clay bricks rendered internally, and including 3:1 cement benching, excavations, backfilling, risk of collapse, compaction, extra over for soft, intermediate and hard rock and carting away, etc</u>					
92	Catchpit overall size 1020 x 1020mm and not exceeding 1000mm deep internally, with rebated opening for cast iron cover and frame (elsewhere measured) (LI)	No	7		

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		Unit	Quantity	Rate	Amount
93	Catchpit overall size 1020 x 1020mm and exceeding 1000mm and not exceeding 1250mm deep internally, with rebated opening for cast iron cover and frame (elsewhere measured) (LI)	No	10		
94	Catchpit overall size 1020 x 1020mm and exceeding 1250mm and not exceeding 1500mm deep internally, with rebated opening for cast iron cover and frame (elsewhere measured). (LI)	No	9		
95	Catchpit overall size 1020 x 1020mm and exceeding 1500mm and not exceeding 1750mm deep internally, with rebated opening for cast iron cover and frame (elsewhere measured). (LI)	No	4		
96	Catchpit overall size 1020 x 1020mm and exceeding 1750mm and not exceeding 2000mm deep internally, with rebated opening for cast iron cover and frame (elsewhere measured). (LI)	No	3		
97	Storm water grid inlet size approximately 6000mm Long x 800mm wide x 875mm high, of 200mm thick 30MPa / 19mm concrete base, 200mm concrete walls reinforced with Mesh 245, including 25mm screed to falls with and including 50 x 4,5mm standard galvanised mild steel mentis grating on and including 60 x 60 x 6mm L-shape hot dipped galvanised fish tail lug cast into top of concrete walls. (LI)	No	1		
<u>Gratings, covers, etc</u>					
98	600 x 600mm "Saint Gobain" or equally approved heavy duty cast iron cover and frame. (LI)	No	33		
<u>SOIL DRAINAGE</u>					
<u>uPVC Class 34 pipes</u>					
99	110mm Pipes laid in and including trenches not exceeding 1m deep including excavations, extra over for soft, intermediate, hard rock, risk of collapse, soil poisoning, etc. (LI)	m	258		
100	110mm Pipes laid in and including trenches exceeding 1m deep and not exceeding 2m deep including excavations, extra over for soft, intermediate, hard rock, risk of collapse, soil poisoning, etc. (LI)	m	138		
<u>Extra over uPVC Class 34 pipes for fittings</u>					
101	110mm Junction. (LI)	No	2		
102	110mm Rodding eye. (LI)	No	10		

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		Unit	Quantity	Rate	Amount
	<u>Pipe excavation sundries</u>				
103	Extra only over selected for earth filling from the excavations in back filling with an approved imported fine granular filling to 300mm below top of trench	m³	141		
	<u>GULLIES</u>				
104	"Type 8" or equally approved rectangular polymer curve gulley complete with and including cover, 380 x 380 x 170mm precast concrete gulley surround on 75mm Class C concrete base and fitted with 187mm diameter uPVC grating. (LI)	No	4		
	<u>SOIL DRAIN INSPECTION CHAMBERS, MANHOLES, ETC</u>				
	<u>Precast concrete circular manholes (covers elsewhere measured) including excavations in soft material, intermediate material, hard rock, risk of collapse, backfilling, cart away etc</u>				
105	Manhole 1000mm diameter and not exceeding 750mm deep internally. (LI)	No	8		
106	Manhole 1000mm diameter and exceeding 1000mm and not exceeding 1250mm deep internally. (LI)	No	3		
107	Manhole 1000mm diameter and exceeding 1250mm and not exceeding 1500mm deep internally.(LI)	No	2		
108	Manhole 1000mm diameter and exceeding 1500mm and not exceeding 1750mm deep internally. (LI)	No	2		
109	Manhole 1000mm diameter and exceeding 1750mm and not exceeding 2000mm deep internally. (LI)	No	1		
	<u>Gratings, covers, etc</u>				
110	1130mm diameter cast iron heavy duty cast iron manhole cover and frame. (LI)	No	16		
	<u>Grease Traps</u>				
111	3000 Litre "Calcamite" or equally approved prefabricated grease trap installed as per manufacture's instructions with and including excavations, risk of collapse, soil poisoning, blinding, imported filling material, reinforced concrete base, waterproofing, connecting pipes, etc.	No	3		
112	7500 Litre "Calcamite" or equally approved prefabricated grease trap installed as per manufacture's instructions with and including excavations, risk of collapse, soil poisoning, blinding, imported filling material, reinforced concrete base, waterproofing, connecting pipes, etc.	No	1		

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		Unit	Quantity	Rate	Amount
<u>SEWER CONNECTION</u>					
<u>Sundries</u>					
113	"Calcamite" or equally approved cast iron step iron embedded in side of inspection chamber	No	84		
114	Allow for testing the complete drainage installation by visual and Air Pressure test to the satisfaction of the Engineer. (All defective work to be replaced at the Contractor's expense)	Item			
<u>WATER SUPPLY</u>					
<u>Taps, Valves, etc - Polished Brass</u>					
115	28mm Ballstop stopcock (LI)	No	20		
<u>uPVC HDPE Class 12 pipes</u>					
<u>Polylink Class 12 high density polypropylene pipes to SANS 1315</u>					
116	20mm Pipes laid in and including trenches not exceeding 1m deep including excavations, extra over for soft, intermediate, hard rock, risk of collapse, soil poisoning, etc. (LI)	m	40		
117	32mm Pipes laid in and including trenches not exceeding 1m deep including excavations, extra over for soft, intermediate, hard rock, risk of collapse, soil poisoning, etc. (LI)	m	37		
118	40mm Pipes laid in and including trenches not exceeding 1m deep including excavations, extra over for soft, intermediate, hard rock, risk of collapse, soil poisoning, etc. (LI)	m	94		
119	50mm Pipes laid in and including trenches not exceeding 1m deep including excavations, extra over for soft, intermediate, hard rock, risk of collapse, soil poisoning, etc. (LI)	m	40		
120	110mm Pipes laid in and including trenches not exceeding 1m deep including excavations, extra over for soft, intermediate, hard rock, risk of collapse, soil poisoning, etc. (LI)	m	197		
121	28mm Pipes suspended from undersides of roofs including all fixings	m	192		
<u>Class 2 copper pipes</u>					
122	15mm pipes (LI)	m	202		
123	22mm pipes (LI)	m	189		

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External Works

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		Unit	Quantity	Rate	Amount
124	32mm pipes insulated (LI)	m	64		
125	15mm Pipes chased into brickwork including brown paper lagging. (LI)	m	32		
126	22mm Pipes chased into brickwork including brown paper lagging. (LI)	m	25		
<u>Extra over Polycop uPVC polypropylene pipes for brass compression fittings</u>					
127	20mm Reducing coupling (LI)	No	5		
128	28mm Reducing coupling (LI)	No	3		
129	32mm Reducing coupling (LI)	No	6		
130	40mm Reducing coupling (LI)	No	3		
131	50mm Reducing coupling (LI)	No	3		
132	110mm Reducing coupling (LI)	No	5		
133	20mm Tee (LI)	No	4		
134	28mm Tee (LI)	No	3		
135	32mm Tee (LI)	No	1		
136	40mm Tee (LI)	No	3		
137	50mm Tee (LI)	No	2		
138	110mm Tee (LI)	No	2		
<u>Extra over HDPE PE 100 PN 12.5 pipes for brass compression fittings</u>					
139	40mm Reducing coupling (LI)	No	6		
140	75mm Reducing coupling (LI)	No	3		
141	40mm Tee (LI)	No	4		
142	75mm Tee (LI)	No	3		
143	40mm Reducing tee (LI)	No	4		
144	75mm Reducing tee (LI)	No	2		
<u>Extra over Class 2 copper pipes for brass compression fittings</u>					
145	15mm Fittings.	No	30		
146	22mm Fittings.	No	25		

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		Unit	Quantity	Rate	Amount
147	75mm Reducing coupling (LI)	No	3		
148	100mm Reducing coupling (LI)	No	2		
149	35mm Tee (LI)	No	2		
150	54mm Tee (LI)	No	2		
151	75mm Tee (LI)	No	2		
152	100mm Tee (LI)	No	2		
153	35mm Elbow (LI)	No	6		
154	54mm Elbow (LI)	No	4		
155	75mm Elbow (LI)	No	4		
156	100mm Elbow (LI)	No	4		
157	35mm Reducing tee (LI)	No	4		
158	54mm Reducing tee (LI)	No	2		
159	75mm Reducing tee (LI)	No	2		
160	100mm Reducing tee (LI)	No	1		
<u>Extra over Class 2 copper pipes for capillary fittings</u>					
161	15mm Fittings.	No	32		
162	22mm Fittings.	No	30		
163	75mm Reducing coupling (LI)	No	3		
164	100mm Reducing coupling (LI)	No	2		
165	35mm Tee (LI)	No	2		
166	54mm Tee (LI)	No	2		
167	75mm Tee (LI)	No	2		
168	100mm Tee (LI)	No	1		
169	35mm Elbow (LI)	No	6		
170	54mm Elbow (LI)	No	4		
171	75mm Elbow (LI)	No	3		
172	100mm Elbow (LI)	No	2		
173	32mm Reducing tee (LI)	No	4		
174	54mm Reducing tee (LI)	No	3		

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		Unit	Quantity	Rate	Amount
175	75mm Reducing tee (LI)	No	2		
176	100mm Reducing tee (LI)	No	2		
	<u>Testing</u>				
177	Testing the water supply system	Item			
	<u>ROADWORKS AND PAVING AREAS</u>				
	<u>Excavation in earth not exceeding 2m deep</u>				
178	Reduced levels. (LI)	m³	1 401		
	<u>Extra over trench and hole excavations in earth for excavation in</u>				
179	Soft rock. (LI)	m³	140		
180	Hard rock	m³	70		
	<u>Extra over all excavations for carting away</u>				
181	Surplus material from excavations and/or stock piles on site, to a dumping site to be located by the contractor	m³	1 401		
	<u>Keeping excavations free of water</u>				
182	Keeping excavations free of all water	Item			
	<u>Base course constructed of filling supplied by Contractor</u>				
183	Selected filling (C3), carted on to site, spread and levelled and compacted in layers not exceeding 150mm thick to 98% Mod AASHTO density (Min. Commercial G5 stabilised with 3% Cement), all in accordance with SANS 10400	m³	418		
184	Selected filling (G5), carted on to site, spread and levelled and compacted in layers not exceeding 150mm thick to 93% Mod AASHTO density, all in accordance with SANS 10400	m³	418		
185	Gravel wearing course carted on to site, spread and levelled and compacted in layers not exceeding 150mm thick to 95% Mod AASHTO density, all in accordance with SANS 10400	m³	36		
	<u>Compaction of surfaces</u>				
186	Compact ground surfaces under pavings, roads, etc including scarifying for a depth of 150mm, adding G7 material where necessary and compacting to a minimum CBR of 95% Mod AASHTO	m²	2 963		
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	Unit	Quantity	Rate	Amount
<u>SOIL POISONING</u>				
<u>Apply "Bromosil" or equally approved herbicide to river-sand bedding under paving in strict accordance with the manufacturers instructions.</u>				
187	Under paving etc. (LI)	m²	2 785	
<u>An approved anti-termite soil poison applied by a Registered Pest Control Company and guaranteed against termite infestation for Five (5) years all in accordance with SANS 10400</u>				
188	Under floors etc. including forming and poisoning shallow furrows against foundation walls etc., filling in furrows and ramming (LI).	m²	2 963	
<u>Prescribed density tests on filling</u>				
189	Mod. AASHTO Density test	No	24	
190	California Bearing Ratio test	No	12	
191	Field density test including Optimum Moisture Content (four reading per test)	No	24	
192	Atterberg limits tests, carried out at an approved laboratory, of representative samples of fill material as indicated on site by the Engineer (minimum set of three)	No	12	
<u>Signwriting</u>				
<u>Prepare and apply one coat reflective road marking paint on bituminous road surfacing, precast concrete, paving blocks, etc.</u>				
193	100mm Wide white lines (unbroken) with an approved road marking paint. (LI)	m	545	
194	150mm Wide white lines (unbroken) with an approved road marking paint. (LI)	m	80	
195	500mm Wide white lines (unbroken) with an approved road marking paint. (LI)	m	40	
196	100mm Wide white lines (broken) with an approved road marking paint. (LI)	m	30	
197	100mm Wide yellow lines (un-broken) with an approved road marking paint. (LI)	m	356	
198	4000mm High yellow directional arrow with an approved road marking paint. (LI)	No	8	
199	5500mm Wide white "STOP" word marking with an approved road marking paint. (LI)	No	4	

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		Unit	Quantity	Rate	Amount
<u>ROAD SIGNS</u>					
200	900mm Diameter regulation stop sign in accordance with SABS 1519 fitted and fixed on creosoted pole, 4500mm high bedded in 450 x 450 x 600mm deep 25Mpa concrete footing, including all necessary excavation, risk of collapse, backfilling, soil poisoning, compaction, etc. (LI)	No	4		
201	2700mm x 450mm high regulation dead end chevron road sign (W410) sign in accordance with SABS 1519 fitted and fixed on 2No. creosoted pole, 1500mm high bedded in 2 No. 450 x 450 x 600mm deep 25Mpa concrete footing, including all necessary excavation, risk of collapse, backfilling, soil poisoning, compaction, etc. (LI)	No	1		
202	"Ntshongwe Police Station" regulation guidance road sign (GD4) sign in accordance with SABS 1519 fitted and fixed on 2No. creosoted pole, 3500mm high bedded in 2 No. 450 x 450 x 600mm deep 25Mpa concrete footing, including all necessary excavation, risk of collapse, backfilling, soil poisoning, compaction, etc. (LI)	No	2		
203	Standard regulation "20Km/hour" speed limit sign in accordance with SABS 1519 fitted and fixed on creosoted pole, 4500mm high bedded in 450 x 450 x 600mm deep 25Mpa concrete footing, including all necessary excavation, risk of collapse, backfilling, soil poisoning, compaction, etc. (LI)	No	5		
204	Concealed driveway sign (W216) in accordance with SABS 1519 fitted and fixed on creosoted pole, 4500mm high bedded in 450 x 450 x 600mm deep 25Mpa concrete footing, including all necessary excavation, risk of collapse, backfilling, soil poisoning, compaction, etc. (LI)	No	1		
205	Concealed driveway sign (W217) in accordance with SABS 1519 fitted and fixed on creosoted pole, 4500mm high bedded in 450 x 450 x 600mm deep 25Mpa concrete footing, including all necessary excavation, risk of collapse, backfilling, soil poisoning, compaction, etc. (LI)	No	1		
<u>80mm Heavy duty concrete block pavers on and including 20mm thick layer of river sand.</u>					
206	80mm Paving to parking areas, etc to falls. (LI)	m ²	2 785		
207	Extra over for straight edge blocks. (LI)	m	630		

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		Unit	Quantity	Rate	Amount
	<u>Precast concrete finishes smooth on exposed surfaces including bedding, cutting and pointing</u>				
208	Kerb (SABS 927 fig 6) with 450 x 125mm unreinforced concrete footing, 250 x 250mm Class C triangular concrete haunching at back of each joint and 300 x 150mm Class C concrete infill in front with cement grouted joints, including excavation, backfill, etc. (LI)	m	606		
209	Kerb (SABS 927 fig 6) but circular on plan not exceeding 4m radius formed with short lengths of straight kerb. (LI)	m	24		
	<u>VEHICULAR AND PEDESTRIAN SCOOP</u>				
	<u>Excavation in earth not exceeding 2m deep</u>				
210	Reduced levels under floors. (LI)	m³	21		
	<u>Extra over trench and hole excavations in earth for excavation in</u>				
211	Soft rock. (LI)	m³	2		
212	Hard rock	m³	1		
	<u>Extra over all excavations for carting away</u>				
213	Surplus material from excavations and/or stock piles on site, to a dumping site to be located by the contractor	m³	21		
	<u>Risk of collapse of excavations</u>				
214	Sides of trench and hole excavations not exceeding 1,5m deep. (LI)	m²	35		
	<u>Keeping excavations free of water</u>				
215	Keeping excavations free of all water	Item			
	<u>Base course constructed of filling supplied by Contractor</u>				
216	Selected filling (G2), carted on to site, spread and levelled and compacted in layers not exceeding 150mm thick to 102% Mod AASHTO density, all in accordance with SANS 10400	m³	11		
	<u>Compaction of surfaces</u>				
217	Compaction of ground surface under floors etc. including scarifying for a depth of 150mm, adding G7 material where necessary and compacting to 95% Mod AASHTO density	m²	75		
	<u>Prescribed density tests on filling</u>				
218	Modified AASHTO Density test	No	12		

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		Unit	Quantity	Rate	Amount
219	Natural California Bearing Ratio test	No	12		
	<u>Approved brand of anti-termite soil poison applied by a Registered Pest Control Company and guaranteed against termite infestation for Five (5) years in accordance with SANS 10400</u>				
220	Under floors etc. including forming and poisoning shallow furrows against foundation walls etc., filling in furrows and ramming. (LI)	m ²	75		
	<u>15MPa/19mm concrete</u>				
221	Blinding	m ³	4		
	<u>30MPa/19mm concrete</u>				
222	Surface beds cast in panels on waterproofing	m ³	27		
	<u>Test cubes</u>				
223	Making and testing 150 x 150 x 150mm concrete strength test cube (Provisional)	Sets	9		
	<u>Finishing top surfaces of concrete smooth with a wood float</u>				
224	Pavings to falls and currents. (LI)	m ²	75		
	<u>Rough formwork to sides</u>				
225	Edges, risers, ends and reveals not exceeding 300mm high or wide. (LI)	m	35		
	<u>Expansion joints with 10mm thick polystyrene joint filler between vertical concrete surfaces, including necessary formwork</u>				
226	Not exceeding 300mm wide	m	75		
	<u>Fabric reinforcement</u>				
227	Type 395 fabric reinforcement in concrete surface beds etc.	m ²	75		
	<u>One layer 250 micron green polyethylene waterproof sheeting (SANS 952-1985 type C) sealed at laps with PVC self-adhesive tape</u>				
228	Under surface beds. (LI)	m ²	75		
	<u>Two-part grey polysulphide sealing compound including backing cord, bond breaker, primer, etc.</u>				
229	10 x 10mm In expansion joints in floors including raking out expansion joint filler as necessary. (LI)	m	75		

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		Unit	Quantity	Rate	Amount
	<u>COVERED WALKWAY</u>				
	<u>Excavation in earth not exceeding 2m deep</u>				
230	Reduce levels. (LI)	m³	47		
	<u>Extra over trench and hole excavations in earth for excavation in</u>				
231	Soft rock. (LI)	m³	5		
232	Hard rock	m³	2		
	<u>Extra over all excavations for carting away</u>				
233	Surplus material from excavations and/or stock piles on site, to a dumping site to be located by the contractor	m³	47		
	<u>Keeping excavations free of water</u>				
234	Keeping excavations free of all water	Item			
	<u>Imported filling of G5 material, filled and compacted to 93% Mod AASHTO density, in layers not exceeding 150mm thick, all in accordance with the relevant sections of SANS</u>				
235	Under floors, steps, pavings, etc.	m³	16		
	<u>Compaction of surfaces</u>				
236	Compaction of natural or excavated ground surface under floors etc, including scarifying for a depth of 150mm, breaking down oversize material, adding G7 material where necessary and compacting to a minimum CBR of 95% Mod AASHTO density	m²	105		
	<u>An approved anti-termite soil poison applied by a Registered Pest Control Company and guaranteed against termite infestation for Five (5) years all in accordance with SANS 10400</u>				
237	Under floors etc. including forming and poisoning shallow furrows against foundation walls etc., filling in furrows and ramming. (LI)	m²	105		
238	To bottoms and sides of trenches etc. (LI)	m²	166		
	<u>UNREINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u>				
	<u>15MPa/19mm concrete</u>				
239	Surface blinding under footings and bases. (LI)	m³	5		

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		Unit	Quantity	Rate	Amount
	<u>REINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u>				
	<u>30MPa/19mm concrete</u>				
240	Surface beds	m ³	68		
241	Ramps	m ³	8		
	<u>Test cubes</u>				
242	Making and testing 150 x 150 x 150mm concrete strength test cube (Provisional)	Sets	36		
	<u>Finishing top surfaces of concrete smooth with a steel trowel</u>				
243	Surface beds, slabs, etc. to falls. (LI)	m ²	105		
	<u>ROUGH FORMWORK (DEGREE OF ACCURACY III) (CPAP WORK GROUP NO. 111)</u>				
	<u>Rough formwork to sides</u>				
244	Edges, risers, ends and reveals not exceeding 300mm high or wide. (LI)	m	368		
	<u>Expansion joints with 10mm thick polystyrene joint filler between vertical concrete surfaces, including necessary formwork</u>				
245	Not exceeding 300mm high through slabs	m	65		
	<u>Saw-cut joints</u>				
246	3 x 25mm Saw-cut joints in top of concrete	m	80		
	<u>Mild steel reinforcement to structural concrete work</u>				
247	8mm diameter bars	Tonnes	3.00		
	<u>High tensile steel reinforcement to structural concrete work in slides</u>				
248	10mm diameter bars	Tonnes	1.00		
249	12mm diameter bars	Tonnes	1.00		
250	16mm diameter bars	Tonnes	1.00		
	<u>Fabric reinforcement</u>				
251	Type 193 fabric reinforcement in concrete surface beds etc.	m ²	105		
	<u>One layer 250 micron green polyethylene waterproof sheeting (SANS 952-1985 type C) sealed at laps with PVC self-adhesive tape</u>				
252	Under surface beds. (LI)	m ²	105		
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		Unit	Quantity	Rate	Amount
	<u>Two-part grey polysulphide sealing compound including backing cord, bond breaker, primer, etc.</u>				
253	8 x 13mm In expansion joints in floors including raking out expansion joint filler as necessary. (LI)	m	80		
254	8 x 13mm In saw cut joints in floors. (LI)	m	65		
	<u>"Safintra 0.8mm thick Saflok 700 G4 Colortech" or equally approved aluminium interlocking roof sheeting fixed to steel internal purlins at 1900mm centres and ridge/eave purlins at 1700mm centres using "Saflok 700" or equally approved clips fastened to steel purlins with Fixtite™ or equally approved wafer head self-tapping fasteners, all in strict accordance with manufacturer's specifications by a manufacturer approved contractor:</u>				
255	Roof covering with pitches not exceeding 25 degrees with side laps sealed with and including 6 x 20mm closed cell impregnated polyurethane strips. (LI)	m ²	106		
256	Side wall flashings 462mm girth	m	82		
	<u>STRUCTURAL TIMBERWORK ETC</u>				
	<u>SA Pine Deep class 7</u>				
257	50 x 288mm Beam bolted	m	216		
	<u>Hot-dipped galvanised square hollow section posts</u>				
258	76 x 2.5 Square hollow section post	Tonnes	0.42		
	<u>Hot-dipped galvanised baseplates, Endplates, etc</u>				
259	200 x 200 x 8mm 2 No Endplate and 100 x 100 x 8mm baseplate with and including two holes for bolts welded to post	No	60		
260	530 x 140 x 8mm Baseplate with and including two holes for bolts welded to post and bolted to brick wall	No	36		
261	200 x 200 x 12mm Baseplate with and including four holes for bolts and welded to post	No	60		
	<u>Bolts and fasteners</u>				
262	M12 anchor bolts including washers	No	432		
	<u>Stainless steel handrail side mounted onto brickwork or concrete</u>				
263	Purpose made 50mm external diameter x 3mm thick hollow section continuous handrails on and including approved specialist patch type fixing brackets at 500mm centres suitable for fixing to brickwork or concrete. (LI)	m	40		

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		Unit	Quantity	Rate	Amount
264	Extra over for flat closed end. (LI)	No	4		
265	Extra over for ramp or knee. (LI)	No	2		
	<u>125 Seamless aluminium gutter. G4 colortech finish</u>				
266	Lingspac or equal, 125mm O.G. G4 colourtech finish Aluminium seamless gutter, incl end caps and apertures for affixing rwdp's Gutters fixed to roof sheeting with proprietary internal hangers and rafter fixing brackets. Colour provisionally Marble White	m	108		
	<u>PVC-U gutters and rainwater pipes</u>				
267	82mm ø uPVC Rain Water Down Pipe per SANS 11, fitted with and including aluminium alloy brackets to brickwork walls, unless otherwise specified. Pipes fitted with solvent weld joints. Holderbats at 900mm centres, complete with all necessary swan necks, shoes and brackets, all sealed with mastic jointing compound and bolted together with M6 x 40 verandah bolts with flat and malthoid washers, discharging in positions indicated	m	70		
268	Extra over gutter for stopped end. (LI)	No	4		
269	Extra over gutter for outlet for 82 x 82mm pipe. (LI)	No	16		
270	Extra over rainwater pipe for bend. (LI)	No	16		
271	Extra over rainwater pipe for shoe. (LI)	No	16		
	<u>FENCING AND GATES</u>				
	<u>Excavation in earth not exceeding 2m deep</u>				
272	Trenches	m³	465		
273	Bases	m³	121		
274	Ground beams	m³	14		
	<u>Extra excavation in earth for excavation in:</u>				
275	Soft rock. (LI)	m³	60		
276	Hard rock	m³	30		
	<u>Extra over all excavations for carting away</u>				
277	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor	m³	351		
	<u>Risk of collapse of excavations</u>				
278	Sides of excavations not exceeding 1,5m deep	m²	2 189		

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		Unit	Quantity	Rate	Amount
	<u>Keeping excavations free of water</u>				
279	Keeping excavations free of water other than subterranean water	Item			
	<u>Earth filling obtained from the excavations and/or prescribed stock piles on site</u>				
280	Backfilling, compacted to 93% Mod AASHTO density (LI)	m³	335		
	<u>Filling of natural gravel material G5 supplied by the contractor, compacted to 93% Mod AASHTO density</u>				
281	Backfilling to trenches, holes, etc	m³	158		
	<u>Coarse river sand filling supplied by the contractor</u>				
282	Under surface beds. (LI)	m³	26		
	<u>Compaction of surfaces</u>				
283	Compaction of ground surface under floors etc. including scarifying for a depth of 150mm, adding G7 material where necessary and compacting to 95% Mod AASHTO density	m²	526		
	<u>Prescribed density tests on filling</u>				
284	Modified AASHTO Density test	No	12		
	<u>An approved anti-termite soil poison applied by a Registered Pest Control Company and guaranteed against termite infestation for Five (5) years all in accordance with SANS 10400</u>				
285	To bottoms and sides of trenches. (LI)	m²	2 050		
	<u>UNREINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u>				
	<u>15MPa/19mm concrete</u>				
286	Surface blinding under footings and bases	m³	21		
	<u>REINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u>				
	<u>25MPa/19mm concrete</u>				
287	Strip footings	m³	103		
	<u>30MPa/19mm concrete</u>				
288	Bases	m³	50		
289	Ground beams	m³	5		

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		Unit	Quantity	Rate	Amount
	<u>Finishing top surfaces of concrete smooth with a wood float</u>				
290	Surface beds, slabs, ground beams, etc	m ²	443		
	<u>Test cubes</u>				
291	Making and testing 150 x 150 x 150mm concrete strength test cube (Provisional)	Sets	18		
	<u>Mild steel reinforcement to structural concrete work</u>				
292	10mm diameter bars	Tonnes	3.27		
	<u>High tensile steel reinforcement to structural concrete work</u>				
293	12mm diameter bars	Tonnes	2.61		
	<u>BRICKWORK IN FOUNDATIONS</u>				
	<u>Brickwork of "Corobrik" or equally approved NFX bricks (14 MPa nominal compressive strength) in class II mortar in loadbearing walls etc.</u>				
294	One brick walls, bagged and sealed. (LI)	m ²	389		
	<u>Two layers "Malthoid" in slip joints between horizontal concrete and brick surfaces including cement mortar bed</u>				
295	Not exceeding 300mm wide. (LI)	m	458		
	<u>2.5mm Galvanised brick reinforcement</u>				
296	150mm Wide reinforcement built in horizontally. (LI)	m	5 496		
	<u>Galvanised hoop iron cramps, ties, etc.</u>				
297	30 x 1,6mm Wall tie 800mm long with one end shot pinned to concrete and other end built into brickwork. (LI)	No	693		
	<u>"Corobrik Roan Satin FBX" or equally approved face bricks to be constructed in stack bond with recessed horizontal and vertical joints</u>				
298	Extra over brickwork for face brickwork in foundations (Provisional) (LI)	m ²	321		

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		Unit	Quantity	Rate	Amount
	<u>"Wireforce wirewall code 35F" 220g/sqm Aluzinc coated security fence with 400 micron coloured thermoplastic finish (Colour to be Black, provisional) including all posts, stays, caps, etc. Mesh comprising 75 x 12.5 mm apertures, 4mm vertical and horizontal wires including all necessary stainless-steel grade 304 fixings, etc.</u>				
299	Security fence 2.4m high formed of 3000mm wide x 2400mm high panels with 4 No. V-profiles per panel, 80 x 80 x 3000mm high fence posts in same colour finish at 3000mm centres with and including secured razor wire flat-wrap on GMS straining wire on top of fence panels. All installed on strict accordance with the manufacturers specifications and fixed against face brick plinth walls (Plinth walls elsewhere measured) (Drawing No 2301-AR-T-551.A)	m	458		
300	Security fence 2.4m high formed of 3000mm wide x 2400mm high panels with 4 No. V-profiles per panel, 80 x 80 x 3000mm high fence posts in same colour finish at 3000mm centres with and including Aluzinc coated spike rails on top of fence panels. All installed on strict accordance with the manufacturers specifications and cast in concrete plinths 100mm below ground finish level (concrete plinths elsewhere measured) (Drawing No 2301-AR-T-551.A)	m	170		
	<u>Framed fixed fencing panels</u>				
	<u>"Wireforce wirewall code 35F" 220g/sqm Aluzinc coated security fence with 400 micron coloured thermoplastic finish (Colour to be Black, provisional) including all posts, stays, caps, etc. Mesh comprising 75 x 12.5 mm apertures, 4mm vertical and horizontal wires including all necessary stainless-steel grade 304 fixings, etc.</u>				
301	5760 x 2400mm high framed fixed fencing panels formed of 2No. 2810 x 2400mm panels of 50 x 50 x 3mm square tube outer frame with "Wirewall 358 type" coated weldmesh infill panels and fixed to brick walls, concrete floor slab and structural beam above. All as per manufacturers specifications. (Drawing No 2301-AR-T-551.A)	No	2		
302	3220 x 1900mm high framed fixed fencing panel formed of 50 x 50 x 3mm square tube outer frame with "Wirewall 358 type" coated weldmesh infill panels and fixed to brick walls, concrete floor slab and structural beam above. All as per manufacturers specifications. (Drawing No 2301-AR-T-551.A)	No	2		

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		Unit	Quantity	Rate	Amount
303	1500 x 2400mm high framed fixed fencing panel formed of 50 x 50 x 3mm square tube outer frame "Wirewall 358 type" coated weldmesh infill panels and fixed to brick walls, concrete floor slab and structural beam above. All as per manufacturers specifications. (Drawing No 2301-AR-T-551.A)	No	2		
304	1500 x 2400mm high framed single door leaf formed of 50 x 50 x 3mm square tube outer frame with "Wirewall 358 type" coated weldmesh infill panels including same frame aperture for side hung single door leaf. All as per manufacturers specifications. (Drawing No 2301-AR-T-551.A)	No	1		
305	1500 x 2400mm high framed single door leaf formed of 60 x 60 x 3mm square tube outer frame with "Wirewall 358 type" coated weldmesh infill panels including same frame aperture for side hung single door leaf. All as per manufacturers specifications. (Drawing No 2301-AR-T-551.A)	No	2		
<u>Hot dipped galvanised gates</u>					
<u>The following in motorised vehicular gates</u>					
306	Sliding vehicular gate 3500 x 2400mm high formed of 76 x 76 x 3mm square tube outer frame and guide portals, filled with "Wireforce wirewall code 358" mesh fencing with galvanised spike rail secured to top of gate frame with self-tapping screws at 300mm centres with and including lock box padlock cover and 16mm diameter galvanised round bar welded to 100 x 50mm channel with fish tail for casting into concrete ground beam (ground beam elsewhere measured) and galvanised 100mm diameter heavy duty wheels on shaped lugs with nylon roller guides on M10 threaded bar secured to portal frame with 2 pairs of 40 x 40 x 5mm lugs all as per architects specifications. (Drawing No. 2301-AR-7-563) (G12)	No	6		
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		Unit	Quantity	Rate	Amount
307	Sliding vehicular gate 6500 x 2400mm high formed of 76 x 76 x 3mm square tube outer frame and guide portals, filled with "Wireforce wirewall code 358" mesh fencing with galvanised spike rail secured to top of gate frame with self-tapping screws at 300mm centres with and including lock box padlock cover and 16mm diameter galvanised round bar welded to 100 x 50mm channel with fish tail for casting into concrete ground beam (ground beam elsewhere measured) and galvanised 100mm diameter heavy duty wheels on shaped lugs with nylon roller guides on M10 threaded bar secured to portal frame with 2 pairs of 40 x 40 x 5mm lugs all as per architects specifications. (Drawing No. 2301-AR-7-563) (G01+G02)	No	2		
	<u>Sundries</u>				
308	Allow for all necessary clearing of fence line including grubbing up and removal of scrub, bush and trees not exceeding 200mm girth. (LI)	m	170		
	<u>SEPTIC TANKS AND SOAK AWAYS</u>				
	<u>The following in Septic Tanks</u>				
	<u>Excavations in earth not exceeding 2m deep</u>				
309	Holes	m³	37		
	<u>Excavations in earth exceeding 2m and not exceeding 4m deep</u>				
310	Holes	m³	32		
	<u>Extra over bulk excavation in soft material for excavation in :</u>				
311	Soft rock	m³	7		
312	Hard rock	m³	3		
	<u>Extra over all excavation for carting away</u>				
313	Surplus material from excavation and/or stock piles on site to a dumping site to be located by the Contractor	m³	68		
	<u>Risk of collapse of excavations</u>				
314	Sides of bulk excavations not exceeding 1,5m deep.	m²	29		
315	Sides of bulk excavations exceeding 1,5m deep	m²	43		
	<u>Keeping excavation free of water</u>				
316	Keeping excavations free of all water other than subterranean water	Item			
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		Unit	Quantity	Rate	Amount
	<u>Compaction of surfaces</u>				
317	Compaction of natural or excavated ground surface under floors etc, including scarifying for a depth of 150mm, breaking down oversize material, adding suitable G8 material where necessary and compacting to 93% Mod AASHTO d	m ²	16		
	<u>Filling of natural gravel material G5 supplied by the contractor, compacted to 93% Mod AASHTO density</u>				
318	Backfilling to trenches, holes, etc	m ³	6		
	<u>Soil insecticide in accordance with SANS 5859</u>				
319	To bottoms and sides of trenches etc	m ²	16		
	<u>Prescribed tests to determine degree of compaction or other properties of ground or filling</u>				
320	Modified AASHTO Density test	No	6		
	<u>THE FOLLOWING IN SOAKAWAY</u>				
	<u>Excavations in earth not exceeding 2m deep</u>				
321	Holes	m ³	568		
	<u>Extra over bulk excavation in soft material for excavation in</u>				
322	Soft rock	m ³	57		
323	Hard rock	m ³	28		
	<u>Extra over all excavation for carting away</u>				
324	Surplus material from excavation and/or stock piles on site to a dumping site to be located by the Contractor	m ³	568		
	<u>Risk of collapse of excavations</u>				
325	Sides of bulk excavations not exceeding 1,5m deep.	m ²	160		
	<u>Keeping excavation free of water</u>				
326	Keeping excavations free of all water other than subterranean water	Item			
	<u>Earth filling obtained from the excavations (not compacted)</u>				
327	To top of soakaway	m ³	84		
328	Coarse river sand supplied by the contractor to top of soakaway	m ³	56		

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	Unit	Quantity	Rate	Amount
<u>Filling of graded 19mm crushed stone consolidated in double twisted hexagonal wire mesh reno mattress of 60x80mm mesh, with 2.7mm O/D frame wire and 2.2mm mesh centre, complete with partitions at 1m centres</u>				
329 In subsoil reno mattress	m ³	5		
<u>Compaction of surfaces</u>				
330 Compaction of natural or excavated ground surface under floors etc, including scarifying for a depth of 150mm, breaking down oversize material, adding suitable G8 material where necessary and compacting to 93% Mod AASHTO density	m ²	563		
<u>"Kaytech" or equally approved geofabric filter mate</u>				
331 A2 Bidum geofabric material	m ²	595		
<u>Prescribed tests to determine degree of compaction or other properties of ground or filling</u>				
332 Modified AASHTO Density test	No	9		
<u>UNREINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u>				
<u>15Mpa/19mm concrete</u>				
333 Surface blindings under footings and bases	m ³	2		
<u>REINFORCED CONCRETE CAST ON/IN FORMWORK</u>				
<u>25MPa/19mm concrete</u>				
334 Slabs including beams and inverted beams	m ³	4		
<u>REINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u>				
<u>25MPa/19mm concrete</u>				
335 Bases	m ³	6		
<u>Test Cubes</u>				
336 Making and testing 150 x 150 x 150mm concrete strength test cube (Provisional)	Sets	6		
<u>Finishing top surfaces of concrete smooth with a wood float</u>				
337 Surface beds, slabs, etc	m ²	31		
<u>Rough formwork to soffits</u>				
338 Slabs propped up exceeding 1.5m and not exceeding 3.5m high	m ²	18		

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		Unit	Quantity	Rate	Amount
	<u>Mild steel reinforcement to structural concrete work</u>				
339	8mm Diameter bars	Tonnes	0.50		
	<u>High tensile steel reinforcement to structural concrete work</u>				
340	10mm Diameter bars	Tonnes	0.02		
341	12mm Diameter bars	Tonnes	0.79		
	<u>Brickwork of NFX bricks (14 MPa nominal compressive strength) in class II mortar in loadbearing walls etc</u>				
342	One brick walls	m ²	6		
343	One and half brick walls	m ²	53		
	<u>2,5mm Brickwork reinforcement</u>				
344	150mm Wide reinforcement built in horizontally	m	520		
	<u>"ABE Duraflex SF 356" or equally approved waterproofing system.</u>				
345	On floors and walls	m ²	201		
	<u>"Ecofelt" of other approved waterproofing membrane</u>				
346	To corners of septic tanks	m ²	13		
	<u>WATERPROOF PLASTER</u>				
	<u>Cement plaster wood floated, on brickwork</u>				
347	On walls	m ²	116		
	<u>uPVC Class 34 pipes</u>				
348	160mm pipes laid in and including trenches not exceeding 1m deep including excavations, EO for soft, intermediate, hard rock, risk of collapse, soil poisoning, etc. (LI)	m	56		
349	160mm open jointed perforated pipes laid in and including trenches not exceeding 1m deep including excavations, EO for soft, intermediate, hard rock, risk of collapse, soil poisoning, etc. (LI)	m	202		
	<u>Extra over uPVC Class 34 pipes for fittings</u>				
350	160mm Junction. (LI)	No	6		
351	160mm Bends. (LI)	No	6		

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		Unit	Quantity	Rate	Amount
	<u>Precast concrete circular manhole cover and frame</u>				
352	800 diameter, type 4A manhole cover and frame with lifting lugs	No	2		
	<u>ATTENUATION TANK</u>				
	<u>Excavation in earth for basement</u>				
353	Not exceeding 2m deep	m ³	90		
354	Exceeding 2m and not exceeding 4m deep	m ³	27		
	<u>Extra over all excavations for carting away</u>				
355	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor	m ³	117		
	<u>Risk of collapse of excavations</u>				
356	Sides of bulk excavations not exceeding 1,5m deep	m ²	42		
357	Sides of bulk excavations exceeding 1,5m deep	m ²	31		
	<u>Keeping excavations free of water</u>				
358	Keeping excavations free of water other than subterranean water	Item			
	<u>Filling of gravel-soil material G7 supplied by the contractor, compacted to 95% Mod AASHTO density</u>				
359	To top of attenuation tank	m ³	7		
	<u>Filling of natural gravel material G5 supplied by the contractor, compacted to 98% Mod AASHTO density</u>				
360	To top of attenuation tank	m ³	7		
	<u>Compaction of ground surfaces</u>				
361	Compaction of natural or excavated ground surface under floors etc, including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 93% Mod AASHTO density	m ²	45		
	<u>Soil insecticide in accordance with SANS 5859</u>				
362	To bottoms and sides of trenches etc	m ²	118		
	<u>Prescribed tests to determine degree of compaction or other properties of ground or filling</u>				
363	Modified AASHTO Density test	No	3		

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		Unit	Quantity	Rate	Amount
	<u>UNREINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u>				
	<u>15MPa/19mm concrete</u>				
364	Surface blinding under footings and bases	m ³	3		
	<u>REINFORCED CONCRETE CAST ON/IN FORMWORK</u>				
	<u>25MPa/19mm concrete</u>				
365	Slabs and inverted beams	m ³	11		
	<u>REINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u>				
	<u>25MPa/19mm concrete</u>				
366	Bases	m ³	12		
	<u>Test Cubes</u>				
367	Making and testing 150 x 150 x 150mm concrete strength test cube (Provisional)	Sets	12		
	<u>Finishing top surfaces of concrete smooth with a steel trowel</u>				
368	Surface beds, slabs, etc to falls	m ²	90		
	<u>Grooves, channels, mortices, sinkings, etc in concrete</u>				
369	30 x 30mm Chamfers	m	32		
	<u>Rough formwork to sides</u>				
370	Edges, risers, ends and reveals exceeding 300mm high or wide	m ²	8		
	<u>Rough formwork to soffits</u>				
371	Slabs propped up exceeding 1.5m and not exceeding 3.5m high	m ²	45		
	<u>Mild steel reinforcement to structural concrete work</u>				
372	8mm diameter bars	Tonnes	0.01		
	<u>High tensile steel reinforcement to structural concrete work</u>				
373	10mm diameter bars	Tonnes	0.01		
374	12mm diameter bars	Tonnes	1.76		

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		Unit	Quantity	Rate	Amount
	<u>Brickwork of NFX bricks (14 MPa nominal compressive strength) in class II mortar in loadbearing walls etc</u>				
375	One brick walls	m ²	7		
376	One and half brick walls	m ²	48		
	<u>2.5mm Brickwork reinforcement</u>				
377	150mm Wide reinforcement built in horizontally	m ²	418		
	<u>GALVANISED MILD STEEL</u>				
	<u>Step iron, etc</u>				
378	300mm Long Step iron @ 300 Centres	No	14		
	<u>Screeds steel trowelled on concrete</u>				
379	Average 40mm thick on floors with upper surface to falls	m ²	21		
380	Average 50mm thick on floors with upper surface to falls	m ²	21		
	<u>uPVC Class 16 pipes</u>				
381	450mm pipes laid in and including trenches exceeding 2m not exceeding 3m deep including excavations, EO for soft, intermediate, hard rock, risk of collapse, soil poisoning, etc. (LI)	m	20		
	<u>Extra over uPVC Class 16 pipes for fittings</u>				
382	450mm Junction. (LI)	No	2		
	<u>Cast iron cover and frame</u>				
383	"Saint Gobain" or equally approved 600 x 600mm Type 8B double seal manhole cover and frame	No	2		
	<u>Galvanised Mild Steel Cage</u>				
384	"Mentis Rectagrid RS40" or equally approved 600 x 600 x 600mm high cage with and including 30 x 3mm thick bearers, complete	No	1		

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		Unit	Quantity	Rate	Amount
<u>RAINWATER HARVESTING TANKS</u>					
<u>Polyethylene water storage tanks</u>					
385	5250 Litres JoJo rainwater tank or similar approved 2200mm diameter x 1720mm high, with 75mm Diameter opening for downpipe from gutter including 50mm Diameter overflow opening with 4mm Diameter galvanised wire looped through top of tank isolated with 15mm diameter hose to top of tank and anchored to top of slab with 'Hilti' hooks drilled into slab at all four corners and 15mm hose bib tap and access lid, mesh filter, leaf catcher, first flush separator and 12mm "Cobra" or equally approved brass standpipe cast into plinth including all require copper piping and fittings.	No	8		
<u>Tank stand</u>					
<u>Excavation in earth not exceeding 2m deep</u>					
386	Reduced levels	m ³	8		
387	Trenches	m ³	34		
<u>Risk of collapse of excavations</u>					
388	Risk of collapse of sides of trench and hole excavations not exceeding 1,5m deep	m ²	98		
<u>Extra over all excavations for carting away</u>					
389	Extra over all excavations for loading, carting and dumping surplus excavated material (no allowance made for increase in bulk) off site to be located by the contractor	m ³	30		
<u>Keeping excavations free of water</u>					
390	Keeping excavations free of all water other than subterranean water	Item			
<u>Earth filling obtained from the excavations and/or prescribed stock piles on site, compacted to 95% Mod AASHTO density</u>					
391	Backfilling to trenches, holes, etc.,	m ³	12		
<u>Imported filling of G5 material, filled and compacted to 93% Mod AASHTO density, in layers not exceeding 150mm thick, all in accordance with the relevant sections of SANS</u>					
392	Under floors, steps, pavings, etc.	m ³	33		
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		Unit	Quantity	Rate	Amount
	<u>Compaction of ground surfaces</u>				
393	Compaction of ground surface under floors etc. including scarifying for a depth of 150mm, adding G7 material where necessary and compacting to 93% Mod AASHTO density	m ²	52		
	<u>SOIL POISONING</u>				
	<u>Approved brand of anti-termite soil poison applied by a Registered Pest Control company and guaranteed against termite infestation for Five (5) years in accordance with SANS 10400</u>				
394	Under floors etc, including forming and poisoning shallow furrows against foundation walls etc, filling in furrows and ramming	m ²	52		
395	To bottoms and sides of trenches etc	m ²	154		
	<u>CONCRETE FORMWORK AND REINFORCEMENT</u>				
	<u>Unreinforced concrete cast on excavated surfaces</u>				
396	Unreinforced concrete Class 15/19 in blinding	m ³	3		
	<u>Reinforced concrete cast on excavated surfaces</u>				
397	Reinforced concrete Class 25/19 in surface beds	m ³	6		
398	Reinforced concrete Class 25/19 in strip footings	m ³	14		
	<u>Concrete Sundries</u>				
399	Finishing top surfaces of concrete smooth with a power float to surface beds, slabs, etc to falls	m ²	52		
	<u>REINFORCEMENT</u>				
	<u>Fabric reinforcement</u>				
400	Type 193 fabric reinforcement	m ²	52		
401	Type 500 fabric reinforcement	m ²	57		
	<u>MASONRY</u>				
	<u>Brickwork in foundations</u>				
402	One Brickwork of NFX face bricks (14 MPa nominal compressive strength) in Class I mortar	m ²	98		
	<u>Galvanised brick reinforcement</u>				
403	150mm Galvanised brick reinforcement	m	975		

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		Unit	Quantity	Rate	Amount
<u>PLUMBING AND DRAINAGE</u>					
<u>Sanitary fittings</u>					
404	20mm COBRA 541 or equally approved tank locking tap fitted to a 22mm extension pipe with barrel nipple & galvanised socket	No	8		
<u>LANDSCAPING</u>					
<u>Tree removal</u>					
405	Fence & protect trees to be retained - 2m high bonnox & orange mesh	No	15		
406	Brush and overgrowth	m ²	12 600		
407	Carefully remove and prepare Aloe trees for storage and re-planting	No	2		
<u>Soil preparation</u>					
408	Clear 150mm top soil and stockpile in rows, max 1m height	m ²	3 500		
409	Rip and prepare areas to receive planting, lawn & seeding	m ²	8 000		
410	Tilling / trimming of areas to receive planting & lawn (200mm deep)	m ²	8 000		
411	Import topsoil for planting, lawn & seeding areas (120mm deep)	m ³	420		
412	Final cultivation of areas to be seeded	m ²	6 400		
413	Compost to planting areas (30mm)	m ³	240		
414	Import, mix & topdress ext. lawn, ratio 1:1 topsoil to compost (10mm deep)	m ³	80		
415	Import, mix & backfill tree holes in ratio 4:1 topsoil to compost (0,2m ³ / tree)	m ³	5		
416	Superphosphate to planting beds (25g/m ²)	Kg	14		
417	Fertilizer to planting beds (3:1:5) 25g/m ²	Kg	14		
418	Superphosphate to lawn areas (25g/m ²)	Kg	14		
419	Agricultural lime to lawn areas (25g/m ²)	Kg	14		
420	Fertilizer to lawn areas (2:3:2 + Zn) 25g/m ²	Kg	14		
421	Superphosphate to trees (50g/tree)	Kg	1		
422	Slow release fertilizer tablets to trees (3/tree)	Tree	72		
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		Unit	Quantity	Rate	Amount
423	Wood chip mulch to planting beds (50mm)	m³	24		
	<u>Planting</u>				
424	Tree stakes & tie (2 stakes and 2 ties / tree)	Tree	24		
	<u>Trees</u>				
425	Erythrina Lysistemon (100L)	No	4		
426	Acacia xanthophloea (100L)	No	4		
427	Aloidendron barberae (100L)	No	8		
428	Mimusops Caffra (100L)	No	4		
429	Diospyros rotundifolia (100L)	No	4		
	<u>Shrubs</u>				
430	Portulacaria afra (2L) 7/m²	m²	240		
431	Strelitzia reginae (2L) 7/m²	m²	240		
	<u>Hydro-seeding mix</u>				
432	Hydro-seeding mix (20kg/ha) comprising of Eragrostis curvula (Weeping Love grass (2,5kg/ha)), Cynodon dactylon (Bermuda Grass (5kg/ha)), Digitaria eriantha (Common Finger Grass (5kg/ha)), Chloris gayana (Rhodes Grass (2,5kg/ha)) and Melinis repens (Natal Red Top (5kg/ha))	m²	7 040		
	<u>Turfing</u>				
433	Dactyloctenium australe sods	m²	480		
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SECTION NO. 5

BILL NO. 1

EXTERNAL WORKS

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SECTION NO. 6
BILL NO. 1
PROVISIONAL SUMS

Bidders are reminded that all general and supplementary preambles, as well as general and specific notes and descriptions related to trades in the preceding "Building Works" section, will apply in their entirety to the corresponding trades in this "External Works" section.

SUPPLEMENTARY PREAMBLES

Working at Heights:

Bidders are to note that the work to be undertaken will require all necessary scaffolding, due to the heights of the structures to be constructed/alterd. Bidders are to therefore price accordingly as rates will be deemed to include for same and no further claims in regard to all necessary scaffolding in the completion of the scope of works will be entertained.

Labour Intensive

Bidders are to note well that specific items within these Bills of Quantities have been designated as LABOUR INTENSIVE by the addition of the words "Labour Intensive" at the end of the description for the said item. Where items have been designated as being LABOUR INTENSIVE as described, pricing shall be deemed to include for the carrying out to completion of said item on site by means and methods that rely predominantly on manual labour. As such, no claims shall be entertained regarding any additional time or monetary costs incurred by the use of LABOUR INTENSIVE methods. Further, the Contractor is to note that contravention of the above i.e. use of mechanised, or other systems to carry out LABOUR INTENSIVE work as hereinafter designated, will be viewed and dealt with in an extremely serious light by the Client, as it remains a national imperative to develop, employ and provide skills through the Expanded Public Works Programme.

General

Work for which budgetary allowances are provided will be measured and valued in accordance with clause 32 of the Principal Building Agreement and deducted in whole or in part if not required without any compensation for loss or profit on the said allowances

Prime cost amounts and provisional sums are net. Prime cost amounts include for delivery to site of all articles concerned. Provisional sums are for material and equipment supplied and installed complete by firms of specialists

Profit

Where stated, the contractor may allow for profit if required

General attendance on nominated/selected subcontractors

The item 'Attendance' which follows each provisional sum for nominated/selected subcontractors' work, shall be deemed to cover all the contractor's costs incurred in providing free of charge to the nominated/selected subcontractors, the following:

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1 The services as set out in clause B9.1 of the Preliminaries

2 Making good in all trades and cleaning down and removal of rubbish on completion

Special attendance on nominated/selected subcontractors

Where stated special attendance will be described in detail in the Schedule for Variables in the Preliminaries for the services as set out in clause B9.2

PROVISIONAL SUMS

BOREHOLE

- 1 Provide the sum of R 500,000.00 (Five Hundred Thousand Rand) for geohydrological investigation, testing, drilling, supply and installation of a borehole water supply system complete.

Prov Sum 500 000 00

- 2 Profit

%

- 3 Attendance

%

MUNICIPAL CONNECTION

- 4 Provide the sum of R 110,000.00 (One Hundred and Ten Thousand Rand) for connection to existing municipal water supply complete.

Prov Sum 110 000 00

- 5 Profit

%

- 6 Attendance

%

ESKOM CONNECTION

- 7 Provide the sum of R 275,000.00 (Two Hundred and Seventy Five Thousand Rand) for Eskom connection fee complete.

Prov Sum 275 000 00

- 8 Profit

%

- 9 Attendance

%

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SECTION NO. 6

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PROVISIONAL SUMS

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	Unit	Quantity	Rate	Amount
SECTION NO. 7 BILL NO. 1 PROJECT ASSESSMENT SCHEME (PROVISIONAL)				
SUPPLEMENTARY PREAMBLES Tenderer is advised to carefully price this section of the bills of quantities in conjunction with C1.2: Contract Data, C2.1: Pricing Assumptions and C3: Scope of Work incorporated in the tender documents for this tender The profit and attendance priced herein under is inclusive of associated costs to the contractor for implementation. The profit and attendance % is to remain unchanged for the duration of contract - refer to C2.1: Pricing Assumptions				
TARGET ENTERPRISE DEVELOPMENT CPG Enterprise Development of Targeted Enterprise or JV Partners				
1 Needs Analysis and Enterprise Development Plan per Targeted Enterprise	No	3	5 000.00	15 000 00
2 Monitoring and Interim reporting per Targeted Enterprise (Enterprise Development Co-ordinator and mentor)	PerQuarter	6	60 000.00	360 000 00
3 Project Completion report per Targeted Enterprise	No	3	5 000.00	15 000 00
4 Profit	%			
5 Attendance	%			
CONTRACT SKILLS DEVELOPMENT GOALS - CSDG The following allowance will be subject to adjustment based on the notional cost (see table 3) as per Government Gazette No.48491 of 28 April 2023 as amended in line with the training opportunity agreed with the employer.				
6 Minimum Contract Skills Development Goal (CSDG) (0.5% x "Sub total A" on the Final Summary)	Item			
7 Profit	%			
8 Attendance	%			
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	<u>FINAL SUMMARY</u>		
1	PRELIMINARIES	32	
2	BUILDING WORKS	174	
3	ELECTRICAL INSTALLATION	200	
4	MECHANICAL INSTALLATION	217	
5	EXTERNAL WORKS	257	
	Sub Total (A)		
6	PROVISIONAL SUMS AND BUDGETARY ALLOWANCES	260	
7	PROJECT ASSESSMENT SCHEME (PROVISIONAL)	261	
	Sub Total (B)		
	ADD: PROVISION FOR ESCALATION (PROVISIONAL)	Item	1 927 891 44
	Sub Total (C)		
	ADD VAT @ 15%		
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	FINAL SUMMARY CARRIED TO FORM OF OFFER AND ACCEPTANCE		

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*CONSTRUCTION OF NTSHONGWE NEW POLICE STATION :KWAZULU
NATAL PROVINCE*

BID: 19/1/9/1/20TB(25)

PART C:

CONTRACT

Part C3

Scope of Work