

Item
No

Quantity

Rate

Amount

SECTION No 3

Bill No 2

**SITE SERVICES (ALL TRADES)
(PROVISIONAL)**

PREAMBLES

For preambles see "Specification of materials and methods to be used - PW 371-A"

SUPPLEMENTARY PREAMBLES

Supplementary preambles and full descriptions of materials, items, work, etc applicable to Section No 3

The contractor is referred to Section No 2 for supplementary preambles and full descriptions of materials, items, work, etc which shall be regarded to be equally applicable for work described in this bill, unless specifically otherwise described

STORMWATER DRAINAGE

Type SC 100-D concrete pipes on class C bedding

1	375mm Pipes laid in and including trenches exceeding 1.0m and not exceeding 2.0m deep	m	20	
2	600mm Pipes laid in and including trenches not exceeding 1.0m deep	m	96	
3	600mm Pipes laid in and including trenches exceeding 1.0m and not exceeding 2.0m deep	m	60	
<u>Covers</u>				
4	Heavy duty 600 x 450mm "Besaans du Plessis 2898" or similar approved cast iron stormwater grating and frame cast in concrete (refer to drawing No C5293-31)	No	34	

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5	Heavy duty 600 x 450mm "Besaans du Plessis 2100" or similar approved cast iron cover and frame cast in concrete (refer to drawing No C5293-31)	No	2
	<u>Sundries</u>		
6	Connect stormwater to existing stormwater channel	No	1
7	Testing stormwater drainage pipe system		Item
	<u>Pipe culverts under tar road</u>		
8	600mm Diameter type SC 100-D-load pipes with ogee joints, complete including 1 300mm wide x 1 200mm deep trench, class C bedding and re-installing 25mm asphalt and existing V-drains	m	8
	<u>STORMWATER CHANNELS</u>		
	<u>"Mentis Rectagrid" or similar approved cover with frame</u>		
9	50 x 50 x 8mm Angle frame, including R10 anchor bars 100mm long and used as prescribed in SANS 1115 with dimension "A" equals 30mm welded on angle iron at 500mm centres cast into concrete	m	174
10	"Mentis Rectagrid" mild steel trench cover type RS40 with metric designation 40 / 40 / 40 / 4,5P	m2	54
	<u>SOIL DRAINAGE</u>		
	<u>Gratings, covers, etc</u>		
11	550mm Diameter x 75kg type 4A cast iron manhole cover and frame	No	6
	<u>Sundries</u>		
12	Connect to existing sewer	No	3
13	"Gullyman" or equal approved type 7 litre per second grease trap made from grade 304 stainless steel, size 950 x 400 x 1081mm deep, complete including brickwork, earthworks, concrete and reinforcing	No	1
14	"Saint-Gobian" 450 x 600m Code 2898 or equal approved stormwater grid and frame	No	1
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15	Remove existing manhole and fill up hole	No	1
16	Testing soil drainage pipe system		Item
<u>WATER SUPPLIES</u>			
<u>Medium pressure pipes</u>			
<u>HDPE Pipe-PN 12.5 Working Pressure 80 - Standard Diameter Ratio 11</u>			
17	32mm Pipe	m	15
<u>HDPE Pipe - PN 16 Working Pressure 100 Standard Diameter Ratio 11</u>			
18	125mm Pipe	m	40
<u>Supply, lay and bed or fit against steel tanks, frames, pump house, etc galvanised mild steel with a minimum wall thickness of 4.5mm, in sections as shown on the drawings (seamless pipe)</u>			
19	40mm Pipe	m	2
20	50mm Threaded pipe including sockets	m	10
21	65mm Flanged pipe	m	65
22	80mm Flanged pipe	m	15
23	100mm Flanged pipe	m	55
24	125mm Flanged pipe	m	30
<u>Supplying, laying and bedding or fitting against steel tanks frames, pump house, etc galvanised mild steel fittings with minimum 4.5mm wall thickness</u>			
<u>Hexagon nipples (threaded)</u>			
25	40mm	No	1

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	<u>Socket equal (threaded)</u>		
26	40mm	No	2
	<u>Reducing socket (threaded)</u>		
27	40mm x 50mm Diameter	No	1
	<u>Union (threaded)</u>		
28	40mm	No	1
	<u>Equal T-piece (flanged)</u>		
29	50mm	No	1
30	100mm	No	1
31	125mm	No	1
	<u>Concentric reducer (flanged)</u>		
32	40 x 50mm	No	2
33	50 x 65mm	No	2
34	65 x 100mm	No	2
35	100 x 125mm	No	3
	<u>Mild steel threaded flanges (SANS 1123:1600/3) including bolts, packaging, etc</u>		
36	40mm	No	1
	<u>Mild steel flanges for HDPE pipes (SANS 1123/2007-1600/3) including packaging, etc</u>		
37	90mm Pipe	No	12
38	110mm Pipe	No	17
39	125mm Pipe	No	11
	<u>90 Degree male / female bends (threaded)</u>		
40	40mm	No	1

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41	50mm	No	4
	<u>45 Degree elbow (flanged)</u>		
42	50mm	No	1
	<u>90 Degree bend</u>		
43	50mm	No	3
44	80mm	No	4
	<u>Extra over for supplying, fixing and/or bedding of flanged gate valves complete (resilient seat valves class 16 SANS 664) closing clockwise, non-rising spindle</u>		
45	50mm	No	2
46	80mm	No	2
47	100mm	No	5
48	150mm	No	1
	<u>Extra over for supplying, fixing and/or bedding flanged check valves (single door metal seated swing)</u>		
49	DN 40mm	No	1
50	DN 50mm	No	1
51	DN 100mm	No	1
	<u>Extra over for supplying fixing and/or bedding flanged strainer</u>		
52	100mm	No	1
	<u>Extra over for supplying and fixing of "Kent Helix 4000" water meter or similar approved</u>		
53	100mm	No	1
	<u>Extra over for supplying and fixing "Multi-Jet Water Meter Elster Kent M100 Optima" or similar approved</u>		
54	40mm	No	1

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<u>Extra over for supplying and fixing of equilibrium float valves ("Vosa Series 7354" or equivalent approved)</u>			
55	50mm (nominal)	No	2
56	80mm (nominal)	No	1
<u>"Vent-O-Mat" air valve or similar approved with 50mm stop cock, 50mm diameter x 300mm long mild steel galvanised pipe (threaded), 100mm diameter x 50mm diameter reducer 100mm diameter threaded flange and 100mm equal T-junction mild steel galvanised flanges with minimum 4.5mm wall thickness (SANS 1123/160/3)</u>			
57	50mm	No	1
<u>Machine reducing bushes</u>			
58	50 x 90mm	No	2
59	63 x 90mm	No	2
60	90 x 110mm	No	2
61	90 x 125mm	No	2
<u>Supplying, laying and bedding of ductile iron uPVC specials complete with couplings</u>			
<u>Anchor / thrust blocks and pedestals</u>			
62	Class 30MPa / 19mm concrete in anchor, thrust blocks, etc	m3	20
63	Rough formwork to sides	m2	10
<u>Special wrapping in corrosive soil</u>			
<u>"Densopol 80HT" wrapping or similar approved</u>			
64	32mm Pipe	m	2
65	40mm Pipe	m	1
66	50mm Pipe	m	3

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67	150mm Pipe	m	5
	<u>Hot dip galvanised pipe brackets complete as per detail</u>		
68	65mm Pipe	No	15
69	80mm Pipe	No	15
70	100mm Pipe	No	15
71	125mm Pipe	No	15

WATER SUPPLIES TO FIRE APPLIANCES

Medium pressure pipes

HDPE Pipe-PN 16 Working pressure PE 100 - Standard diameter ratio 11

72	63mm Pipe	m	40
	<u>Extra over for supplying and bedding of HDPE Stub flange PN 12-20 complete with electro-fusion of butt welded joints</u>		
73	63mm	m	3
74	75mm	m	1
75	90mm	m	2
76	110mm	m	3
77	125mm	m	7

Machine reducing bushes

78	63 x 75mm	No	2
79	63 x 90mm	No	4
80	75 x 90mm	No	1
81	75 x 110mm	No	2
82	90 x 110mm	No	1

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83	75 x 125mm	No	2
84	90 x 125mm	No	3
85	110 x 125mm	No	4
	<u>45 Degree bends</u>		
86	75mm	No	4
87	90mm	No	4
	<u>90 Degree seamless bends</u>		
88	110mm	No	2
89	125mm	No	3
	<u>T-junctions</u>		
90	90mm	No	2
91	110mm	No	3
92	125mm	No	7
	<u>Compression fittings PN 16</u>		
93	63 x 50 x 63mm Male tee (threaded)	No	2
94	63mm Male elbow (threaded)	No	3
95	63 x 63 x 63mm Tee	No	1
96	63 x 50mm Male adaptor (threaded)	No	1
	<u>Extra over sullyng, laying and bedding of screwed and socketed galvanised mild steel fittings</u>		
	<u>Reducing bushes</u>		
97	32 x 50mm	No	1
98	32 x 65mm	No	7

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	<u>Sockets equal</u>		
99	32mm	No	11
100	65mm	No	6
	<u>Reducing sockets</u>		
101	32 x 50mm	No	3
102	50 x 80mm	No	1
	<u>Hexagon nipples</u>		
103	110mm	No	8
104	160mm	No	2
	<u>Reducing T-junctions</u>		
105	50 x 32mm	No	4
	<u>Unions</u>		
106	50mm	No	4
	<u>Female bends</u>		
107	32mm	No	5
108	50mm	No	3
	<u>Threaded steel flanges (SANS 1123:2007 1600/3) including bolts, packing, etc</u>		
109	50mm	No	3
110	63mm	No	2
111	80mm	No	1
	<u>Flange (HDPE Pipes) (SANS 1123:2007 1600/3) including bolts, packing, etc</u>		
112	75mm	No	1
113	90mm	No	5

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114	110mm	No	8
115	125mm	No	4
<u>Extra over for supplying, fixing and bedding of flanged check valves (single door metal seated swing)</u>			
116	100mm	No	8
<u>Screwed and socketed galvanised mild steel</u>			
117	32mm	m	43
118	50mm	m	30
119	80mm	m	10
<u>100mm "Woodlands" or similar approved hi-efficiency hydrant set</u>			
120	Hydrant large outlet 100mm bore, small outlet 65mm "London road" thread	No	1
121	330mm Spacer pipe, steel with copon coating with 100mm diameter flange and including drilling four 100mm diameter holes (Table "D" to BS4504)	No	1
122	100mm Diameter duck foot bend steel with copon coating including flange drilling for four 100mm diameter holes (Table "D")	No	1
123	Gate valve (Resilient Seat Valve) PN 16 100mm. Table "D" left hand closing, cap top SABS 664 Mounting Flanges: 4 x 18mm holes copon coated	No	1
<u>HDPE specials completed with electro fusion or butt welded joints</u>			
124	"Woodlands" hydrant chamber, complete	No	1
125	Fire hydrant, complete, including HDPE stub with hot clipped galvanised flange and bolts	No	4
126	30m Fire Hose Reel complete with all fittings including pipe fittings supplied and fixed as per detail	No	15

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	<u>Anchor / thrust blocks and pedestals</u>		
127	Concrete manholes including Type 1A cover and frame	No	2
	<u>Special wrapping in corrosive soil</u>		
	<u>"Densopol 80HT" wrapping or similar approved</u>		
128	32mm	m	20
129	50mm	m	12
130	80mm	m	2
	<u>Mild steel galvanised flanges (HDPE pipes) both sides</u>		
131	75mm	No	1
132	90mm	No	3
133	110mm	No	8
134	125mm	No	10
	<u>GROUND LEVEL STEEL WATER TANK</u>		
	<u>Earthworks</u>		
	<u>Excavation in earth not exceeding 2.0m deep</u>		
135	Trenches	m3	50
	<u>Extra over trench and hole excavation in earth for excavation in</u>		
136	Soft rock	m3	5
137	Hard rock	m3	3
	<u>Extra over all excavations for carting away</u>		
138	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor	m3	40

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<u>Earth filling obtained from the excavations</u>		
139	Backfilling to trenches, holes, etc	m3 10
140	Under floors, steps, etc	m3 170
<u>Earth filling supplied by the contractor compacted to 93% "Mod AASHTO" density</u>		
141	Backfilling to trenches, holes, etc	m3 10
<u>Compaction of surfaces</u>		
142	Compaction of 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	m2 140
<u>Prescribed density tests on filling</u>		
143	"Modified AASHTO" density test	No 5
<u>Soil insecticide</u>		
144	Under floors, etc, including forming and poisoning shallow furrows against foundation walls, filling in furrows and ramming	m2 70
<u>Concrete, formwork and reinforcement</u>		
<u>Class 15MPa / 19mm unreinforced concrete in</u>		
145	Blinding 50mm thick	m3 2
<u>Class 30MPa / 19mm reinforced concrete in</u>		
146	Steel tank footing	m3 15
147	Stub columns	m3 7
<u>Class A non-shrink grouting</u>		
148	25mm Thick bedding under IPE200 steel beam	No 6
149	Under cap plate 50mm thick	m2 1

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150	Under base plates	m3	0.5
	<u>Concrete sundries</u>		
151	Finishing top surfaces of concrete with steel float finish to top of steel tank footing	m2	40
152	Allow for preparing a set of three concrete strength test cubes, each size 150 x 150 x 150mm, sending them to an approved testing laboratory for testing and paying all charges in connection therewith	Sets	3
	<u>Smooth formwork to sides</u>		
153	Steel tank footing	m2	10
154	Stub columns	m2	50
	<u>Reinforcement</u>		
	<u>Mild steel reinforcement to structural concrete work</u>		
155	12mm Diameter bars	t	0.33
156	10mm Diameter bars	t	0.90
157	8mm Diameter bars	t	0.40
	<u>High tensile steel reinforcement to structural concrete work</u>		
158	32mm Diameter bars	t	0.40
159	25mm Diameter bars	t	0.60
160	20mm Diameter bars	t	0.40
161	16mm Diameter bars	t	2.86
162	12mm Diameter bars	t	1.30
	<u>Structural Steelwork</u>		
	<u>Welded steel columns and beams</u>		
163	200 x 100 x 22kg/m IPE beam	m	1

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<u>Metalwork</u>		
<u>Galvanised cap plates</u>		
164	80 x 8mm FLT cap plate on top of walls (refer to drawings 104855-AW-100 A and B)	m 34
<u>Galvanised anchor- and HD bolts</u>		
165	210mm Long M10 Grade 4.8	No 28
166	380mm Long M12 Grade 8.8	No 30
167	950mm Long M25 Grade 8.8	No 24
168	100 x 100 x 6mm Washers	No 24
169	75 x 75 x 6mm Washers	No 30
170	Levelling of steel cap plates, welding of nuts to plate and fixing damaged areas with two layers of red oxide and cold galvanising paint	Item
<u>Supply, delivery and installation (mounted) of pressed sectional steel tank complete. 1200mm x 1200mm x 4.5mm thick panels and flanges to SANS 1123 Table 1600</u>		
171	228 797 Litre pressed sectional steel water tank 6100mm x 6100mm x 6100mm high	No 1
<u>Lightning protection</u>		
172	To 228 797 Litre pressed sectional steel water tank	No 1
<u>Sterilisation</u>		
173	To 228 797 Litre pressed sectional steel water tank	No 1
<u>Testing for water tightness</u>		
174	To 228 797 Litre pressed sectional steel water tank	No 1

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FIRE- AND BOOSTER PUMPS

Pressure booster pump

"Grundfos" Hydro Multi-B E 2 CR 32-4 pumps and motors set (or similar approved) sized for a duty of 1.2 litre per second @ 66m (three phase) complete including two vertical multi-stage type CR 32-4 centrifugal pumps, two EN/DIN 1.037 galvanized steel manifolds, modular base frame made in black painted mild steel, one non-return valve (POM) and two isolating valves for each pump, adapter with isolating valve for connection of diaphragm tank, pressure gauge and pressure transmitter (analogue output 4-20mA), auto/manual switches in the panel door for each pump and CU323 pump controller for controlling parallel coupled pumps in cascade

175

Pressure booster pump set

No

1

Fire booster pump

"Grundfos" Hydro EN-Y 50-250/249 JS-ADL-U3-B pumps and motors set (or similar approved) complete, including duty electrically driven pump (single-stage horizontal centrifugal pump) Pump model No NKF 50-250/249, by-pass flow rate 2mc/h, motor speed 2950 rpm, electric motor IEC, electric power P2 30kW, main power supply 3 x 400 50 Hz, stand-by diesel driven pump (single-stage horizontal centrifugal pump) pump mode

Stand-by diesel driven pump (single-stage horizontal centrifugal pump)

Pump model: NKF 50-250/249
 By-pass/cooling flow: 2mc/h
 Motor speed: 2950rpm
 Diesel engine: "KOHLER" model No KDI2504M
 Nominal power: 36,9kW (Na) - 41kW (Nb)
 Cooling type: Water-water heat exchanger
 Displacement: 2482cmc
 Cylinder numbers: 4
 Suction type: Natural
 Heat dissipation: 7800 kcal/h
 Maximum exhaust gas counter pressure: 120mbar
 Exhaust gas flow: 220kg/h
 T [°C] exhaust gas: 560°C

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Electric pump for pressure maintenance (jockey pump)

Pump model: CM1-13 A-R-I-E-AQQE F-A-A-N
 Motor speed: 2950rpm
 Electric motor: IEC
 Electric power - P2: 1,2kW
 Mains power supply: 3x400, 50Hz

24 Litre diaphragm pressure tank complete with and including:

One duty electrically driven pump control panel
 One stand-by diesel driven pump control panel
 One jockey pump control panel
 Hydraulic components
 Concentric taper with DN50 connection for the priming tank
 Compensation joint DN80
 Non-return valve DN80 inspectable type
 Gate valve DN80
 1/2" Drain test valve
 Pump starting device
 1" Connection for pump installation room sprinkler
 Pressure switch
 Galvanized flange manifold DN80
 1" Non-return valve
 1" Gate valve
 1" 1/4 Gate valve
 Pressure switch

176	Fire booster pump	No	1
177	Suction kit complete including eccentric cone, compensation joint DN150 and vacuum gauge	No	2
178	Kit flow measuring loop complete including one gate valve DN80, two spacers DN80 and one flow meter DN80	No	1
179	Chimp pump ND9010 ("Nitrile" version SER or similar approved)	No	1
180	Remote alarm signalling device EN12845 or similar approved	No	1

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BOREHOLE EQUIPMENT

Borehole drilling and development

Geophysical survey, establishment, plant set-up, inter-borehole moves and de-establishment

			Item
181	Geophysical investigation		
182	Site establishment	No	1
183	Mobilisation and set up of plant at first borehole	No	1
184	De-establishment from site of the given drilling batch	No	1

Drilling unconsolidated and consolidated sediments and igneous and metamorphic rocks

185	Rotary air percussion 165mm diameter	m	100
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Casing, including supply, delivery and installation, but not including reaming

			Item
186	Supply and installation of submersible pump		
187	Plain steel casing 165 mm (state wall thickness here as 3mm)	m	45
188	Slotted Steel casing 165mm (state wall thickness here as 4mm)	m	10

Reaming of boreholes

189	152/165mm to 203/219mm diameter	m	45
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Borehole testing

190	Borehole pump testing		Item
191	Water quality testing		Item
192	Data recording and reporting		Item
193	Borehole marking and registration with DWS		Item

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EXISTING BOREHOLE TESTING (YIELD AND QUALITY TESTING)

Travelling

194 Initial Establishment (First Establishment) Item

195 De-establishment Item

Calibration test

196 Multi-rate step tests (Less than 10 litre per second) Hrs 4.00

197 Constant discharge test (Less than 10 litre per second) Hrs 24.00

198 Recovery measurements Hrs 24.00

Installation of test pump equipment

199 When testing less than 10 litre per second No 1

Removal and re-installation of pump

200 Monitoring No 1

Sundries

201 Steel borehole cover (sealing of boreholes) No 1

202 Borehole marking No 1

203 Reporting and data recording No 1

204 Sampling and water quality testing No 1

DRY-WELL PUMPING EQUIPMENT

Supply and delivery of dry-well pumping equipment

205 "KSB-ETABLOC-N Model 40-250" or similar approved delivering 12.5m³/h at 65m load No 2

206 Installation of dry-well pumping equipment No 2

207 Testing and commissioning of dry-well pumping equipment No 2

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SUBMERSIBLE PUMPING EQUIPMENT

Supply and delivery of submersible borehole pumps

208 "Grundfos" submersible pump or similar approved delivering 0.25 litre per seconds at a total head of 95m No 1

Installation of submersible borehole pumps

209 "Grundfos" submersible pump or similar approved No 1

Supply, deliver and install rising pipe. HDPE pipe PN 12.5 working pressure PE 80 standard diameter ratio (SDR) 11

210 40mm Diameter No 85

PUMP HOUSE

Excavation in earth not exceeding 2.0m deep

211 Trenches m3 14

Extra over trench and hole excavation in earth for excavation in

212 Soft rock m3 1

213 Hard rock m3 0.4

Extra over all excavations for carting away

214 Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor m3 5

Risk of collapse of excavations

215 Sides of trench and hole excavations not exceeding 1.5m deep m2 40

Keeping excavations free of water

216 Keeping excavations free of water Item

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	<u>Earth filling obtained from the excavations and/or prescribed stock piles on site</u>		
217	Under floors, steps, etc	m3	5
218	Backfilling to trenches, holes, etc	m3	3
	<u>Soilcrete filling from material obtained from the excavations and/or prescribed stock piles on site to receive 5% cement by volume, compacted to 93% "Mod AASHTO" density</u>		
219	Backfilling to trenches, holes, etc	m3	6
	<u>Coarse river sand filling supplied by the contractor</u>		
220	Under floors, etc	m3	1
	<u>Compaction of surfaces</u>		
221	Compaction of 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	m2	15
222	Ditto, under aprons, ramps, etc	m2	24
	<u>Soil insecticide</u>		
223	Under floors, etc, including forming and poisoning shallow furrows against foundation walls, filling in furrows and ramming	m2	38
224	To bottoms and sides of trenches, holes, etc	m2	53
	<u>20MPa / 19mm concrete</u>		
225	Aprons cast in panels	m3	2
226	Extra over concrete apron for thickening size 150mm deep, 200mm top and tapering to 100mm at bottom including all excavation to 100mm, backfilling, etc	m	28

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<u>15MPa / 19mm Concrete</u>			
227	Blinding	m3	1
<u>25MPa / 19mm Concrete</u>			
228	Strip footings	m3	4
229	Surface beds on waterproofing	m3	2
<u>Concrete test blocks</u>			
230	Allow for preparing a set of three concrete strength test cubes, each size 150 x 150 x 150mm, sending them to an approved testing laboratory for testing and paying all charges in connection therewith	No	2
<u>Finishing top surfaces of concrete with a wood float</u>			
231	Apron, ramps, etc to falls	m2	24
<u>Finishing top surfaces of concrete smooth with a steel trowel</u>			
232	Surface beds, slabs, etc to falls	m2	15
<u>Rough formwork to sides</u>			
233	Edge above concrete not exceeding 300mm high	m	28
<u>Saw cut joints</u>			
234	5 x 30mm Deep saw cut joint in concrete floor	m	4
<u>Expansion joints with bitumen impregnated soft board between vertical concrete and brick surfaces</u>			
235	12mm Joints not exceeding 300mm high	m	19
<u>High tensile steel reinforcement to structural concrete work</u>			
236	12mm Diameter bars	t	0.20

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<u>Mesh reinforcement</u>			
237	Ref 311 Mesh steel fabric reinforcement laid in surface beds, etc lapped minimum 150mm along edges and ends (measured net)	m2	29
<u>Class NFX foundation brickwork (SANS 10164) built in 1:4 cement (SANS 1090) mortar (Class 1 - 1:4 - 10MPa) laid in stretcher bond</u>			
238	One brick walls	m2	6
<u>Brickwork of hard burnt clay bricks in 5:1 cement mortar</u>			
239	One brick walls	m2	53
240	Half brick walls in beam filling	m2	1
<u>Reinforced precast concrete lintels</u>			
241	Standard 110mm wide x 75mm high approved reinforced precast concrete lintel not exceeding 3m long, with ends built into brickwork in cement mortar including propping	m	5
<u>Steel bar reinforcement</u>			
242	6mm Diameter mild steel bars built in horizontally	m	21
<u>Brickwork reinforcement</u>			
243	75mm Wide reinforcement built in horizontally	m	7
244	150mm Wide reinforcement built in horizontally in foundations	m	53
245	150mm Wide reinforcement built in horizontally	m	173
<u>Turning pieces</u>			
246	110mm Wide turning piece to lintels, etc	m	9
<u>Galvanised wire ties, etc</u>			
247	4mm Diameter roof tie 2m girth bent double with one end fixed to timber and other end built into brickwork	No	8

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	<u>"Middelwit Fynbos Geel / Rooi" face bricks to (SANS 10400 K/KK4 according to NBR) class FBS in stretcher bond with polished 10 x 6mm deep square recessed joints in both directions</u>		
248	Extra over brickwork for face brickwork in foundations	m2	3
249	Extra over brickwork for face brickwork	m2	64
250	Extra over brickwork for brick-on-edge header course lintel	m	4
	<u>Brick-on-edge header course lintels, copings, sills, etc of "Middelwit Fynbos Geel / Rooi" face bricks to (SANS 10400 B/BB1 and BB2 according to NBR) class FBS pointed with recessed joints on all exposed faces</u>		
251	Coping on top of one brick wall	m	11
252	Sill 180mm wide, set sloping at 15 degrees and slightly projecting from wall face including all cutting and pointing to top and front edge	m	3
253	Pointing only to end of half brick wall	m	6
254	Pointing only to soffit of brick lintel half brick wide	m	4
	<u>One layer of 375 micron embossed damp proof course type B</u>		
255	In walls	m2	5
	<u>One layer of 375 micron green polyethylene waterproof sheeting type C</u>		
256	Under surface beds	m2	15
	<u>Silicone sealing compound including backing cord, bond breaker, primer, etc</u>		
257	Joint sealant between aluminium door or aluminium window frame and external face brick surround	m	8
258	Joint sealant between steel door or steel window frame and external face brick surround	m	6

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	<u>Two-part grey polysulphide sealing compound including backing cord, bond breaker, primer, etc</u>		
259	12 x 20mm In expansion joints in vertical surfaces of concrete and brickwork, including raking out expansion joint filler as necessary	m	19
	<u>0.6mm "Brownbuilt Kliplok 406" or similar approved sheet metal roof covering in single lengths fixed to timber/steel purlins or rails</u>		
260	Roof covering with pitch not exceeding 25 degrees	m2	14
	<u>Isoboard insulation</u>		
261	25mm Isoboard tongue and groove joint bevelled edge insulation board secured underneath roof purlins	m2	14
	<u>0.8mm "Brownbuilt Kliplok 406" or similar approved with "Chromadek" finish on one side</u>		
262	Header wall flashing	m	3
263	Header wall cover flashing	m	3
264	Sidewall flashing	m	18
265	Sidewall cover flashing	m	18
	<u>Sawn softwood</u>		
266	Roof construction to mono pitched roof approximately 3.20 x 6.20m and 0.75m high overall including wall plates, trusses, permanent bracing and 50 x 76mm purlins at 1.0m centres for roof covering	No	1
	<u>Sundries</u>		
267	Two coats creosote on sawn timbers	m2	6
268	4mm Diameter galvanised wire tie 750mm girth wrapped around rafter and purlin with ends tied together	No	8
	<u>Fibre cement</u>		
269	10 x 225mm Fascia and barge boards, including galvanised steel H-profile jointing strips	m	4

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	<u>Fibre cement sills</u>		
270	10mm x 150mm Fibre cement (Code : FC77) window sill bedded in 1:3 cement sand mortar	m	3
	<u>Saligna hardwood</u>		
271	20 x 70mm Saligna hardwood cornice nailed to wall with 63mm cut steel nails at maximum 500mm centres	m	14
	<u>6mm Fibre-cement ceiling boards complete with galvanized H-profile jointing cover strips over joints</u>		
272	Ceilings including 38 x 38mm brandering at 90 degree to trusses at maximum centres of 400mm	m2	12
273	Extra over ceiling for opening for 610 x 610mm trap door of 50 x 76mm wrought softwood rebated framing with one 38 x 38mm sawn softwood cross brander covered with ceiling board and fitted flush in opening	No	1
	<u>Combination transformer room door with fixed sheetmetal louvres with mesh and flyscreen backing complete with two pairs 100mm steel butt hinges as supplied by the manufacturer</u>		
274	Size 1 664 x 2 125mm high	No	1
	<u>Louvre unit manufactured out of RFX 7 residential steel window sections with type "LD" fixed sheetmetal louvres with expanded metal mesh backing with flyscreen</u>		
275	Louvre size 400 x 400mm high (refer to drawing No 25140/01SQ rev 1)	No	1
	<u>One coat high strength 4:1 cement plaster 20mm thick steel trowelled on brickwork</u>		
276	On walls	m2	37
277	On narrow widths	m2	1
	<u>0.8mm Standard box gutter as supplied by "Brownbuilt" with "Chromadek" finish on one side</u>		
278	127 x 140mm Eaves gutters	m	4
279	Extra over 127 x 140mm eaves gutter for stopped end	No	2

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280	Extra over 127 x 140mm eaves gutter for outlet for 100mm diameter pipe	No	1
281	100mm Diameter rainwater downpipes	m	3
282	Extra over 100mm diameter rainwater downpipe for shoe	No	1
283	Extra over 100mm diameter downpipe for 300mm eaves or plinth offset	No	1
<u>Sump inlet</u>			
284	520 x 520 x 350mm Deep sump with 25 x 4.5mm hot dip galvanised "Rectagrid" inlet grid size 300 x 300mm, including 30 x 30 x 5mm hot dip galvanised angle section frame set in concrete, complete including brickwork, earthworks, concrete and reinforcing (refer to drawing No S-9345-81)	No	1
<u>uPVC drain pipes (SANS 791) normal duty with socket and rubber ring type including bedding in accordance with SANS 1200</u>			
285	110mm Pipes laid in and including trenches not exceeding 1m deep	m	20
<u>One coat alkali resistant plaster primer, one coat universal under coat and one coat eggshell enamel</u>			
286	On internal walls	m2	38
<u>One universal undercoat and two coats low gloss acrylic enamel paint</u>			
287	On sills not exceeding 300mm girth	m	3
<u>Apply one coat of asbestos primer and two coats super acrylic PVA</u>			
288	On ceilings	m2	12
<u>Prepare and apply one universal undercoat and two coats gloss enamel paint</u>			
289	On fascia and barge boards	m2	1

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	<u>One coat red oxide primer (factory coated), one coat universal undercoat and two coats "Plascon" gloss enamel paint</u>		
290	On transformer room doors	m2	6
	<u>One coat oil based wood primer, one coat universal undercoat and two coats enamel paint</u>		
291	On cornices, rails, etc not exceeding 300mm girth	m	14
<u>ELECTRICAL INSTALLATION FOR PUMPS</u>			
<u>Supply and install</u>			
292	Type A 2 x 48W o/c fluorescent with electronic ballast	No	2
293	Type A1 - 2 x 48W o/c fluorescent with electronic ballast	No	2
294	Type C - 2 x 11W PL bulkhead fitting	No	2
295	One lever light switch	No	1
296	16A Double SSO	No	2
297	30A Three pole wall mount isolator plus enclosure	No	1
298	32A Two phase welding sock	No	1
299	60A Three pole wall mount isolator plus enclosure	No	1
300	HD Cable tray 200mm including joints, T-junctions, bends, etc	m	10
301	HD Cable tray 300mm including joints, T-junctions, bends, etc	m	5
302	20mm Galvanised conduit plus hospital	m	30
303	20mm Galvanised conduit including saddles and support	m	5
304	25mm Galvanised conduit plus hospital	m	5
305	25mm Galvanised conduit including saddles and support	m	5
306	32mm Galvanised conduit plus hospital	m	10

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307	2.5mm ² Stranded PVC wire	m	50
308	2.5mm ² Stranded BCEW wire	m	30
309	4mm ² Stranded PVC wire	m	25
310	4mm ² Stranded BCEW wire	m	5
311	6mm ² Stranded PVC wire	m	20
312	6mm ² Stranded BCEW wire	m	10
313	10mm ² Stranded PVC wire	m	40
314	10mm ² Stranded BCEW wire	m	20
315	16mm ² Stranded PVC wire	m	5

Distribution board and motor control

Supply and install

316	DB - PR Wall mount	No	1
317	10A 1 Pole 6kA Circuit breaker	No	1
318	20A 1 Pole 6kA Circuit breaker	No	1
319	20A 3 Pole 6kA Circuit breaker	No	1
320	30A 3 Pole 6kA Circuit breaker	No	2
321	60A 4 Pole 6kA Earth Leakage/Isolator	No	1
322	70A 3 Pole Circuit breaker	No	2
323	400A 3 Pole Circuit breaker - 15kA (NS 400H)	No	1
324	500A 3 Pole 15kA Isolator	No	1
325	Volt meter plus selector	No	1
326	Amp meter plus CT's	No	3
327	Red/White/Blue panel lamps with fuses for mains	No	1

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328	"Dehvetil TT Combo - Class" lightning arrestors	No	1
329	Labels for DB-PR (25mm capital letters)		Item
330	Mark all cable ends		Item
331	Lock-out stop unit pedestal	No	2
332	Lock-out stop unit	No	2
333	Pressure transmitter including all pipe fittings and connection to pipe work	No	5
334	Ultra sonic level sensor including mounting bracket	No	1
<u>Site work and LV cables</u>			
335	Excavation in cable trenches	m3	30
336	Extra over for excavations in hard rock	m3	30
337	Import and install river sand to imbed cable in trench, prepare cable bed and compact	m	125
<u>Supply and install of PVC/SWA/PVC Cu low-voltage cable</u>			
338	10mm ² x 4 core cable	m	10
339	16mm ² x 4 core cable	m	10
340	25mm ² x 4 core cable	m	10
341	35mm ² x 4 core cable	m	75
342	70mm ² x 4 core cable	m	50
<u>Supply and install bare copper earth conductors</u>			
343	6mm ²	m	10
344	10mm ²	m	10
345	16mm ²	m	10
346	25mm ²	m	10

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347	35mm ²	m	75
348	50mm ²	m	50
<u>Terminate low voltage cable</u>			
349	10mm ² x 4 core cable	No	2
350	16mm ² x 4 core cable	No	2
351	25mm ² x 4 core cable	No	4
352	35mm ² x 4 core cable	No	2
353	70mm ² x 4 core cable	No	2
<u>Terminate bare copper earth conductors</u>			
354	6mm ²	No	2
355	10mm ²	No	2
356	16mm ²	No	2
357	25mm ²	No	2
358	35mm ²	No	4
359	50mm ²	No	2
360	Design, supply, install and commission control centre for dry-well pumping equipment complete		Item
<u>Testing, commissioning and certification</u>			
361	Testing and commissioning of the complete system		Item
362	Issue certificate of compliance for the installation		Item
<u>Documentation</u>			
363	As-built drawings for new electrical installation		Item
364	Supply and delivery of operating and maintenance manuals		Item

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ELECTRICAL RETICULATION

LV Distribution cables

600/1000V PVC SWA PVC cables with copper conductors

365	2.5mm ² BCEW	m	200
366	2.5mm ² x 2 core cable	m	650
367	4mm ² x BCEW	m	1 300
368	4mm ² x 2 core cable	m	10
369	4mm ² x 4 core cable	m	77
370	6mm ² x BCEW	m	137
371	6mm ² x 4 core cable	m	927
372	10mm ² x BCEW	m	130
373	10mm ² x 4 core cable	m	274
374	16mm ² BCEW	m	10
375	70mm ² BCEW	m	250

Terminations

600/1000V PVC SWA PVC cable terminations complete with cable lugs and earthing as required

376	4mm ² x 2 core cable	No	2
377	4mm ² x 4 core cable	No	4
378	6mm ² x 4 core cable	No	12
379	10mm ² x 4 core cable	No	8
380	16mm ² x 4 core cable	No	2
381	35mm ² x 4 core cable	No	4

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<u>Excavations</u>		
<u>Cable trenches not exceeding 1m deep including excavations, bedding, backfilling, compaction and disposal of excavated material in</u>		
382	Pick able soil	m3 94
<u>Danger warning tape</u>		
<u>Approved</u>		
383	Danger warning tape above all cable as specified	m 1 352
<u>Cable route markers</u>		
<u>Approved</u>		
384	Concrete cable markers as specified	No 56
<u>Testing</u>		
385	Test and commissioning the installation and issue a Certificate of Compliance for each distribution board	Item
<u>Luminaires</u>		
All luminaires complete with associated equipment and new control gear, specified lamps, diffusers, mounting brackets, etc		
These items shall be delivered to site in a protective covering		
<u>Internal luminaires</u>		
386	Type D : Surface mounted vapour proof LED 30W 4000K	No 1
387	Type F : Bulkhead wall mounted IP 65 LED 36W 4000K with black trim	No 1
388	Type G : Surface mounted vapour proof LED 30W 4000K	No 16
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389	Type P : Area / Street light Zela LED 46W 4000K post top luminaire with 3.5m MH galvanised steel pole with gland plate base plate and MCB	No	29
390	Type Q : Street light LED LUME 55W 4000K with hot dipped galvanised spigot	No	25
391	SAPS Blue light with "Police" signage Zela 22W 4000K with 3.5m MH galvanised steel pole with gland plate base plate and MCB wall bracket	No	1
392	3.5m MH galvanised steel pole with gland plate base plate and MCB	No	30
393	9500mm Galvanised street light pole	No	25
394	Wall bracket	No	1
	<u>Photo-electric daylight sensitive switch</u>		
	External lighting shall be controlled by a photo-electric cell mounted in a position so that the extraneous light does not affect the operation as per schematic		
395	Photo electric cells to control all the light, mounted on the buildings in an empty bulkhead as specified	No	2
	<u>LV Distribution boards</u>		
	<u>Supply and installation of the following distribution boards complete with all associated equipment as specified and indicated on schematic drawings</u>		
396	DB Pump	No	1

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Light switches, socket outlets, isolaters, etc

General

All equipment must be supplied complete with cover plates and fixing screws for both the cover plate and cradle

All equipment shall comply with the relevant standard and shall carry the SANS mark

Light switches

Light switch flush mounted in 100 x 50 x 50mm deep steel conduit boxes

397	Two lever one way	No	1
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Socket outlets

Socket outlet flush mounted in 100 x 100 x 50mm deep steel conduit boxes

398	Single 16A 3 pin (normal) with Euro plug	No	1
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Isolators

Isolators flush mounted in 100 x 100 x 50mm deep conduit boxes

399	60A - 4 pole	No	1
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Conduits, ducts, sleeves, manholes and accessories

General

All items under this section will comply with SANS 1042 and in the absence of any SANS specification it will comply with the documentation forming part of this document

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<u>uPVC sleeves</u>			
<u>Approved</u>			
400	50mm	m	5
401	110mm	m	448
402	160mm	m	70
<u>Manholes</u>			
<u>Supply, build and fix cover for manholes</u>			
403	Single manhole, size 600 x 600 x 600mm deep with heavy duty cover	No	3
404	Single manhole, size 900 x 900 x 600mm deep with heavy duty cover	No	6
<u>Emergency diesel generator</u>			
<u>Emergency diesel generator set complete with all accessories and loose items</u>			
405	Installation and commissioning only of 85kVA emergency diesel generator (Generator on site)	No	1
406	Design and supply of cowl for the generator	No	1
407	Supply and install sound attenuation as per specification	No	1

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Item No		Quantity	Rate	Amount
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	Bill No 3			
	BOUNDARY AND RETAINING WALLS (ALL TRADES) (PROVISIONAL)			
	<u>PREAMBLES</u>			
	For preambles see "Specification of materials and methods to be used - PW 371-A"			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	<u>Supplementary preambles and full descriptions of materials, items, work, etc applicable to Section No 3</u>			
	The contractor is referred to Section No 2 for supplementary preambles and full descriptions of materials, items, work, etc which shall be regarded to be equally applicable for work described in this bill, unless specifically otherwise described			
	BOUNDARY WALLS			
	<u>EXCAVATION, FILLING, ETC</u>			
	<u>Excavation in earth not exceeding 2.0m deep</u>			
1	Trenches	m3	264	
2	Holes	m3	88	
	<u>Extra over trench and hole excavation in earth for excavation in</u>			
3	Soft rock	m3	13	
4	Hard rock	m3	7	
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	<u>Extra over all excavations for carting away</u>		
5	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor	m3	172
	<u>Risk of collapse of excavations</u>		
6	Sides of trench and hole excavations not exceeding 1.5m deep	m2	1 215
	<u>Keeping excavations free of water</u>		
7	Keeping excavations free of water		Item
	<u>Earth filling obtained from the excavations and/or prescribed stock piles on site</u>		
8	Backfilling to trenches, holes, etc	m3	64
	<u>Soilcrete filling from material obtained from the excavations and/or prescribed stock piles on site to receive 5% cement by volume, compacted to 93% "Mod AASHTO" density</u>		
9	Backfilling to trenches, holes, etc	m3	116
	<u>SOIL POISONING</u>		
	<u>Soil insecticide</u>		
10	To bottoms and sides of trenches, holes, etc	m2	1 583
	<u>UNREINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u>		
	<u>15MPa / 19mm Concrete</u>		
11	Blinding	m3	18
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REINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES

25MPa / 19mm Concrete

12	Strip footings	m3	70
13	Bases	m3	41

TEST BLOCKS

14	Making and testing set of three 150 x 150 x 150mm concrete strength test cube and handing over to representative/agent for testing	No	8
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REINFORCEMENT

Mild steel reinforcement to structural concrete work

15	8mm Diameter bars	t	0.54
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High tensile steel reinforcement to structural concrete work

16	10mm Diameter bars	t	4.17
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FOUNDATIONS

Class NFX foundation brickwork (SANS 10164) built in 1:4 cement (SANS 1090) mortar (Class 1 - 1:4 - 10MPa) laid in stretcher bond

17	Piers	m3	10
18	One brick walls	m2	237
19	One and a half brick walls	m2	20

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SUPERSTRUCTURE

Brickwork of NFP bricks (14MPa nominal compressive strength) in class I mortar

20	Piers	m3	74
21	One brick walls	m2	910
22	One and a half brick walls	m2	72

BRICKWORK SUNDRIES

Brickwork reinforcement

23	150mm Wide reinforcement built in horizontally in foundations	m	1 895
24	150mm Wide reinforcement built in horizontally	m	2 140
25	230mm Wide reinforcement built in horizontally	m	30

FACE BRICKWORK

"Middelwit Fynbos Geel / Rooi" face bricks to (SANS 10400 K/KK4 according to NBR) class FBS in stretcher bond with polished 10 x 6mm deep square recessed joints in both directions

26	Extra over brickwork for face brickwork in foundations	m2	172
27	Extra over brickwork for face brickwork	m2	647

Brick-on-edge header course copings, sills, etc of approved face bricks (as existing) pointed with recessed joints on all exposed faces

28	Coping on top of one brick wall	m	379
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DAMPPROOFING OF WALLS AND FLOORS

One layer of 375 micron embossed damp proof course type B

29 In walls m2 123

SUNDRY STEELWORK

Flat wrap razor wire security coil

30 Razor wire to top of boundary walls. m 379

RETAINING WALLS

SITE CLEARANCE, ETC

Site clearance

31 Cleaning, clearing, removal of rubbish, debris, vegetation, hedges, shrubs, etc and dispose all rubble from the site m2 80

BULK EXCAVATION, FILLING, ETC

Open face excavation over sloping site

32 Open face excavation to form platforms under buildings and depositing excavated material over site, including haulage not exceeding 1km from perimeter of excavations m3 80

Extra over bulk excavation in earth for excavation in

33 Soft rock m3 10

Extra over all excavations for carting away

34 Surplus material from stock piles on site to a dumping site to be located by the contractor m3 35

Risk of collapse of excavations

35 Sides of trench and hole excavations not exceeding 1,5m deep m2 120

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			Item
	<u>Keeping excavations free of water</u>		
36	Keeping excavations free of all water other than subterranean water		
	<u>Earth filling obtained from the excavations and/or prescribed stock piles on site, compacted to 93% Mod AASHTO density</u>		
37	Backfilling to trenches, holes, etc	m3	40
	<u>Earth filling of G7 material supplied by the contractor, compacted to 93% Mod. AASHTO density</u>		
38	Backfilling to trenches, holes etc	m3	15
	<u>Compaction of surfaces</u>		
39	Compaction of ground surface under base including scarifying in three separate layers for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 93% Mod AASHTO density (Layers 1, 2 & 3)	m2	180
	<u>Prescribed density tests on filling</u>		
40	"Modified AASHTO" density test	No	5
	<u>SOIL POISONING</u>		
	<u>BASF Termidor 25EC insecticide applied at 5 litre mixture per 1m²</u>		
41	To bottoms and sides of trenches, holes, etc	m2	160
	<u>WEED KILLER</u>		
	<u>Weed killer</u>		
42	Under paving including forming and poisoning shallow furrows against foundation walls, filling in furrows and ramming	m2	160

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REINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES

30MPa / 19mm Concrete

43	Strip footings	m3	20
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TEST CUBES

Sundries

44	Allow for preparing a set of three concrete strength test cubes, each size 150 x 150 x 150mm, sending them to an approved testing laboratory for testing and paying all charges in connection therewith	Sets	9
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REINFORCEMENT

High tensile steel reinforcement to structural concrete work

45	12mm Diameter bars	t	1.50
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MASONRY

Brickwork of NFP bricks (14MPa nominal compressive strength) in class I mortar laid in stretcher bond

46	One brick walls	m2	20
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"Middelwit Fynbos Geel / Rooi" face bricks to (SANS 10400 B/BB1 and BB2 according to NBR) class FBS in stretcher bond with polished 10 x 6mm deep square recessed joints in both directions

47	Extra over brickwork for face brickwork	m2	120
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Brick-on-edge header course lintels, copings, sills, etc of "Middelwit Fynbos Geel / Rooi" face bricks to (SANS 10400 B/BB1 and BB2 according to NBR) class FBS pointed with recessed joints on all exposed faces

48	Coping on top of one brick wall	m	40
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SECTION No 3

Bill No 4

**SECURITY FENCING (ALL TRADES)
(PROVISIONAL)**

PREAMBLES

For preambles see "Specification of materials and methods to be used - PW 371-A"

SUPPLEMENTARY PREAMBLES

Supplementary preambles and full descriptions of materials, items, work, etc applicable to Section No 3

The contractor is referred to Section No 2 for supplementary preambles and full descriptions of materials, items, work, etc which shall be regarded to be equally applicable for work described in this bill, unless specifically otherwise described

General

The contractor shall supply, deliver and erect fencing where shown on the drawings or as directed by the principal agent to the specifications as described hereunder

Pegs indicating the extent of the fence and the route thereof will be placed by the principal agent. Alternatively a drawing indicating the pegs, detailed measurements and directions of the fence will be provided by the principal agent

The contractor shall be entirely responsible for maintaining a true and straight line between these pegs and all deviations there from shall be rectified by the contractor at his own expense

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Section No 3
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Security Fencing (All Trades) (Provisional)
**Upgrading and additional offices - Contract 03
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Materials

All materials to be used for this work shall be new, of sound quality and suitable for their intended purposes. The use of second hand/grade material will not be permitted

Clearing the fence line

Although the clearing of the line fence is measured elsewhere under "general site clearance", it will be regarded the contractor's responsibility to ensure that the ground surface along the fence line is at all times throughout the contract period kept and maintained cleared for a width of not less than 1m wide on each side of the fence and shall include for the digging up and removal of all rubbish, debris, vegetation, shrubs, bush, trees not exceeding 200mm diameter girth, etc, including levelling of the ground to ensure that the maximum and minimum clearances (as specified hereinafter) between the bottom strand and the ground is not exceeded

All excessive surface irregularities shall be graded so that the fence will follow the general contour of the ground

The cleared ground shall be kept clean and maintained throughout the construction period

Concrete

Concrete bases shall be placed in neatly formed excavations and shall be well rammed around posts and stays. The top of concrete bases shall be at a level of 25mm below ground level

SECURITY FENCING

Fencing according to 5-Star and manufacturer's specification

1	Digging up and removing rubbish, debris, vegetation, hedges, shrubs and trees not exceeding 200mm girth, bush, etc for new fence and level ground under fence	m2	1 160
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 Security Fencing (All Trades) (Provisional)
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2	15MPa Concrete security fence footing 150mm wide x 300mm deep, including R10 anchors cast into concrete at 1 100mm centres complete including all necessary excavations, formwork, etc	m	150
3	Carbon hardened galvanised steel mesh panels 2400mm high ("ClearVu") and support posts with 100mm electro-galvanised, 2mm thick toughened steel security spikes on top. The fence must be clamber proof with see-through capabilities and must have a top coat finish of baked enamel paint or synthetic coating in colours grey or black. Mesh strands to be 4mm diameter minimum, cut resistant and with a aperture not exceeding 75 x 12mm. The product must be manufactured and installed in accordance with the manufacturer's specifications and should carry at least a SABS or higher standard certificate	m	150
	<u>Extra over galvanised carbon hardened baked enamel panels for</u>		
4	2mm x 76 x 76mm Posts 3000mm high, imbedded in and including 500 x 500 x 600mm deep concrete base, all necessary excavations, formwork, etc	No	60
5	Single swing gate 1100mm wide x 2400mm high	No	1
6	Single swing gate 1300mm wide x 2400mm high	No	1
7	Single swing gate 2100mm wide x 2400mm high with two leaves	No	2
8	Double swing gate 4800mm wide x 2400mm high with two leaves	No	1
9	Double swing gate 6800mm wide x 2400mm high with two leaves	No	1
10	Double swing gate 7500mm wide x 2400mm high with two leaves	No	2

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	ROADS, PAVING, CARPORTS, WASH BAY (ALL TRADES) (PROVISIONAL)			
	<u>PREAMBLES</u>			
	For preambles see "Specification of materials and methods to be used - PW 371-A"			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	<u>Supplementary preambles and full descriptions of materials, items, work, etc applicable to Section No 3</u>			
	The contractor is referred to Section No 2 for supplementary preambles and full descriptions of materials, items, work, etc which shall be regarded to be equally applicable for work described in this bill, unless specifically otherwise described			
	<u>ROADWORK</u>			
	<u>Cut to fill</u>			
1	Extra over for rockfill, process and compact	m3	10	
	<u>Extra over excavations for</u>			
2	Carting away excavated material	m3	200	
	<u>Compaction of surfaces</u>			
3	Compaction of 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	m2	1 200	
	<u>Earth filling supplied by the contractor</u>			
4	G7 material compacted to 95% Mod AASHTO density	m3	183	
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	<u>Earth filling supplied by the contractor under parking areas, roadways, etc</u>		
5	Stabilised natural gravel (C4) to form sub-base, spread, levelled, watered, and compacted to 95% "Mod AASHTO" density in layers not exceeding 150mm thick (Refer to drawing No C5293-11)	m3	183
	<u>Stabilisation</u>		
6	Stabilisation of imported C4 material	m3	183
	<u>Stabilising agent</u>		
7	Portland cement	t	15.00
	<u>Treatment of sub base with</u>		
8	Weed killer	m2	3 000
9	Insecticide	m2	3 000
	<u>PAVING</u>		
	<u>80mm Thick grey interlocking paving blocks with 25MPa compression strength (SANS approved) on 25mm sand</u>		
10	Paving to parking areas, etc to falls	m2	1 200
	<u>Precast concrete finished smooth on exposed surfaces, including bedding, jointing and pointing</u>		
11	Precast concrete kerbing (SABS 927 fig 3) with concrete haunching spaced 1.0m apart behind kerbs , including excavation, backfilling, etc	m	175
12	Precast concrete kerbing (SABS 927 fig 3) with concrete haunching spaced 1.0m apart behind kerbs, circular on plan to exceeding 4m radius formed with straight kerbs, including excavation, backfilling, etc	m	48
13	Ditto, but not exceeding 4.0m radius formed with short lengths of straight kerbs	m	60

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<u>25MPa / 19mm Concrete edge beam</u>		
14	250 x 300mm Concrete edge beams, including all necessary excavations, formwork, etc	m 55
<u>ROAD MARKINGS</u>		
<u>Road marking paint</u>		
15	100mm Wide white solid line	m 310
16	100mm Wide yellow solid line	m 40
17	Yellow lettering and symbols	m2 5
18	Disabled parking sign	No 3
<u>Traffic control signs</u>		
19	"STOP" sign complete including post, concrete base, all necessary excavations, formwork, etc	No 3
<u>COVERED PARKING</u>		
<u>25MPa/19mm concrete cast against excavated surfaces</u>		
20	Column footings	m3 1
<u>Concrete sundries</u>		
21	Making and testing 150 x 150 x 150mm concrete strength test cubes	No 5
<u>0.6mm "Brownbuilt Kliplik 406" or similar approved sheet metal roof covering in single lengths fixed to timber/steel purlins or rails</u>		
22	Roof covering with pitch not exceeding 25 degrees	m2 30
<u>WASHBAY</u>		
<u>Prescribed density tests on filling</u>		
23	"Modified AASHTO" density test	No 10

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Grid inlet

24 1 460 x 1 460mm Grid inlet not exceeding 1m deep with heavy duty 600 x 450mm "Besaans du Plessis 2898" or similar approved cast iron stormwater grating and frame cast in concrete, complete including brickwork, earthworks, concrete and reinforcing (refer to drawing No C5293-31)

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	Bill No 6			
	WALKWAYS (ALL TRADES) (PROVISIONAL)			
	<u>PREAMBLES</u>			
	For preambles see "Specification of materials and methods to be used - PW 371-A"			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	<u>Supplementary preambles and full descriptions of materials, items, work, etc applicable to Section No 3</u>			
	The contractor is referred to Section No 2 for supplementary preambles and full descriptions of materials, items, work, etc which shall be regarded to be equally applicable for work described in this bill, unless specifically otherwise described			
	<u>COVERED WALKWAYS</u>			
	<u>Excavation in earth not exceeding 2.0m deep</u>			
1	Holes	m3	2	
	<u>Extra over all excavations for carting away</u>			
2	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor	m3	4	
	<u>Risk of collapse of excavations</u>			
3	Sides of trench and hole excavations not exceeding 1.5m deep	m2	30	
	<u>Keeping excavations free of water</u>			
4	Keeping excavations free of all water other than subterranean water		Item	
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	<u>Earth filling obtained from the excavations and/or prescribed stock piles on site compacted to 90% "Mod AASHTO" density</u>		
5	Under floors, steps, paving, etc	m3	5
6	Backfilling to trenches, holes, etc	m3	0.2
	<u>Earth filling supplied by the contractor compacted to 90% "Mod AASHTO" density</u>		
7	Under floors, steps, paving, etc	m3	5
	<u>Compaction of surfaces</u>		
8	Compaction of 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	m2	35
	<u>Prescribed density tests on filling</u>		
9	"Modified AASHTO" density test	No	10
	<u>Soil insecticide</u>		
10	Under floors, etc, including forming and poisoning shallow furrows against foundation walls, filling in furrows and ramming	m2	67
11	To bottoms and sides of trenches, holes, etc	m2	32
	<u>20MPa / 19mm concrete</u>		
12	Walkway surface beds including thickenings cast in panels on waterproofing	m3	16
	<u>25MPa / 19mm concrete cast against excavated surfaces</u>		
13	Pad footings	m3	1
	<u>Concrete sundries</u>		
14	Walkway surface beds to falls	m2	65

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Upgrading and additional offices - Contract 03
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15	Making and testing 150 x 150 x 150mm concrete strength test cubes	No	2
	<u>Smooth formwork to sides</u>		
16	Edges, risers, ends and reveals exceeding 300mm high or wide	m2	25
	<u>Expansion joints with bitumen impregnated soft board between vertical concrete surfaces</u>		
17	10mm Joints not exceeding 300mm high or wide	m	30
	<u>One layer of 375 micron green polyethylene waterproof sheeting type C</u>		
18	Under walkway surface beds	m2	70
	<u>Two-part grey polysulphide sealing compound including backing cord, bond breaker, primer, etc</u>		
19	10 x 20mm In expansion joints in concrete, including raking out expansion joint filler as necessary	m	30
	<u>0.6mm "Brownbuilt Kliplik 406" or similar approved sheet metal roof covering in single lengths fixed to timber/steel purlins or rails</u>		
20	Roof covering with pitch not exceeding 25 degrees	m2	90
21	Raking cutting	m	14
	<u>0.8mm "Brownbuilt Kliplik 406" or similar approved with "Chromadek" finish on one side</u>		
22	Ridge or hip flashing	m	79
23	Sidewall flashing	m	11
24	Side wall cover flashing	m	11
25	Valley flashing	m	10
	<u>Fibre cement</u>		
26	10 x 225mm Fascia and barge boards, including galvanised steel H-profile jointing strips	m	142
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<u>Welded portal frames out of square hollow sections and base plate bolted to concrete</u>		
27	6mm Base plate size 230 x 230mm wide including 20mm thick non-shrink grout bedding	No 24
28	M12 Hilti HVU chemical anchors 75mm long	No 102
29	50 x 50mm x 3mm Square hollow section	t 0.35
30	76 x 76mm x 4mm Square hollow section	t 0.63
31	One coat red oxide primer, one coat universal undercoat and two coats gloss enamel	t 1.07
<u>Purlins and girts bolted to steel</u>		
32	75 x 50 x 20 x 3mm Cold-formed lipped channel purlins	t 0.53
33	One coat red oxide primer, one coat universal undercoat and two coats gloss enamel	t 0.53
<u>25MPa / 19mm Concrete stormwater channel</u>		
34	Stormwater channel 450mm wide x 200mm deep overall including forming 300 x 100mm deep channel	m 107
35	Extra over stormwater channel for L-intersection	No 8
36	Extra over stormwater channel for stopped end	No 8
<u>0.8mm "Brownbuilt" or similar approved standard box gutter with "Chromadek" finish on one side</u>		
37	127 x 140mm Eaves gutters	m 142
38	Extra over 127 x 140mm eaves gutter for stopped end	No 8
39	Extra over 127 x 140mm eaves gutter for angle	No 8
40	Extra over 127 x 140mm eaves gutter for outlet for 100mm diameter pipe	No 18
41	100mm Diameter rainwater downpipes	m 38
42	Extra over 100mm diameter rainwater downpipe for shoe	No 18

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43	Extra over 100mm diameter downpipe for 290mm eaves offset	No	18
	<u>Prepare and apply one universal undercoat and two coats gloss enamel paint</u>		
44	On fascia and barge boards	m2	35
	<u>RAMPS</u>		
	<u>Earth filling obtained from the excavations and/or prescribed stock piles on site compacted to 90% "Mod AASHTO" density</u>		
45	Under floors, steps, paving, etc	m3	1
	<u>Earth filling supplied by the contractor compacted to 90% "Mod AASHTO" density</u>		
46	Under floors, steps, paving, etc	m3	1
	<u>Compaction of surfaces</u>		
47	Compaction of 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	m2	4
	<u>Soil insecticide</u>		
48	Under floors, etc, including forming and poisoning shallow furrows against foundation walls, filling in furrows and ramming	m2	4
	<u>20MPa / 19mm concrete</u>		
49	Ramps	m3	1
50	Extra over concrete in ramps for thickening 238mm deep and approximately 400mm wide top and tapering to 230mm at the bottom including all excavations, backfilling, etc	m	1
	<u>Finishing top surfaces of concrete to an evenly ribbed non-slip surface</u>		
51	Apron, ramps, etc to falls	m2	4

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<u>Smooth formwork to sides</u>			
52	Edges, risers, ends and reveals not exceeding 300mm high or wide	m	6
<u>One layer of 375 micron green polyethylene waterproof sheeting type C</u>			
53	Under ramps	m2	4

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SECTION No 4

Bill No 1

EXPANDED PUBLIC WORKS PROGRAMME

PREAMBLES

Tenderers are advised to study the Additional Specification SL: Employment and Training of Labour on the Expanded Public Works Programme (EPWP) Infrastructure Projects: National Youth Service, as bound elsewhere in the Bills of Quantities, and then price this Bill accordingly

Provisional Sums

The items described hereunder cover work which is not fully defined at tender stage and which is intended to be executed by the Contractor and/or his Sub-Contractors. The amounts shown shall be used as directed by the Representative/ Agent for EPWP and shall be deducted in whole or in part if not required. This will be detailed in an EPWP Bill prior to commencement of works.

1 Allow the amount of R1 175 000.00 for EPWP as directed by the department

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1 175 000.00

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 Expanded Public Works Programme
**Upgrading and additional offices - Contract 03
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SECTION No 5

Bill No 1

CONTRACT PARTICIPATION GOALS

PREAMBLES

Note to tenderers: As CPGs may not provide any bidder a competitive advantage. Provisional amounts and fixed percentages for profit and attendance have been provided. Only the provisional amount will be adjusted once the awarded tender amount and/or the beneficiaries have been appointed, and the final values have been ascertained

Provisional Sums

The items described hereunder cover work which is not fully defined at tender stage and which is intended to be executed by the Contractor and/or his Sub-Contractors. The amounts shown shall be used as directed by the Representative/ Agent for EPWP and shall be deducted in whole or in part if not required. This will be detailed in an EPWP Bill prior to commencement of works.

1 Allow the amount of R1 875 000.00 for Contractor Participation goals as directed by the department

Item

1 875 000.00

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	Add		
	Value Added Tax (15%)		R
	TOTAL CARRIED TO FORM OF OFFER AND ACCEPTANCE		R
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