

		Unit	Quantity	Rate	Amount
123	110mm Pipes vertically or ramped to cleaning eyes, etc (no excavation)	m	21		
124	110mm Pipes including excavations not exceeding 1m deep	m	176		
125	110mm Pipes including excavations exceeding 1m and not exceeding 2m deep	m	92		
126	160mm Pipes including excavations exceeding 1m and not exceeding 2m deep	m	351		
<u>Extra over uPVC pipes for fittings</u>					
127	50mm Bend	No	44		
128	110mm Bend	No	26		
129	110mm 45 degree Bend	No	23		
130	110mm Bend with anti siphon horn	No	21		
131	110mm Junction	No	8		
132	110mm Access junction	No	55		
133	110mm Rodding eye cover	No	20		
134	160mm Junction	No	5		
135	160mm Reducer	No	7		
136	160mm Access junction	No	3		
<u>Precast concrete circular Inspection chambers (covers elsewhere measured) to comply with SANS 1294</u>					
137	Inspection chamber size 1000mm diameter exceeding 750mm and not exceeding 1000mm deep internally	No	8		
138	Inspection chamber size 1000mm diameter exceeding 1000mm and not exceeding 1250mm deep internally	No	4		
139	Inspection chamber size 1000mm diameter exceeding 1250mm and not exceeding 1500mm deep internally	No	3		
140	Inspection chamber size 1000mm diameter exceeding 1500mm and not exceeding 1750mm deep internally	No	3		
<u>Covers, etc</u>					
141	550mm Diameter type 4 cast iron manhole cover and frame	No	10		
142	550mm Diameter type 2A cast iron manhole cover and frame with GJ rotating wedge lock	No	8		
Carried to Collection				R	
Bill No. 19					
External Works (provisional)					

181

ham

5m

		Unit	Quantity	Rate	Amount
	<u>Sundries</u>				
143	Testing waste pipe system	Item			
	<u>THE FOLLOWING IN SEPTIC TANK</u>				
	<u>EXCAVATION, FILLING, ETC</u>				
	<u>Excavation in earth not exceeding 2m deep</u>				
144	Holes	m ³	122		
	<u>Extra over all excavations for carting away</u>				
145	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor	m ³	25		
146	Extra over trench and hole excavations in earth for working space	m ²	89		
147	Soft rock	m ³	55		
148	Hard rock	m ³	67		
	<u>Risk of collapse of excavations</u>				
149	Sides of trench and hole excavations not exceeding 1,5m deep	m ²	36		
150	Sides of trench and hole excavations exceeding 1,5m deep not exceeding 3m deep	m ²	36		
	<u>Keeping excavations free of water</u>				
151	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>				
152	Backfilling to trenches, holes, etc	m ³	27		
	<u>UNREINFORCED CONCRETE</u>				
	<u>15Mpa / 19mm Concrete</u>				
153	Blinding (Provisional)	m ³	3		
	<u>REINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u>				
	<u>35MPa/19mm concrete</u>				
154	Bases, in foundations (Provisional)	m ³	12		
	<u>REINFORCED CONCRETE</u>				
	<u>35MPa/19mm concrete</u>				
155	Slabs, including beams and inverted beams	m ³	19		
	Carried to Collection			R	
	Bill No. 19				
	External Works (provisional)				

182

hm

SB
5m

		Unit	Quantity	Rate	Amount
156	Walls	m ³	30		
	<u>TEST BLOCKS</u>				
157	Making and testing 150 x 150 x 150mm concrete strength test cube (Provisional)	No	3		
	<u>CONCRETE SUNDRIES</u>				
	<u>Finishing top surfaces of concrete smooth with a wood float</u>				
158	Surface beds, slabs, etc	m ²	44		
159	Surface beds, slabs, etc to falls and currents	m ²	18		
	<u>Leave or form opening in concrete</u>				
160	250 x 250mm in concrete wall 300mm thick	No	2		
161	600 x 600mm in concrete slab 300mm thick	No	2		
	<u>SMOOTH FORMWORK (DEGREE OF ACCURACY II)</u>				
	<u>Smooth formwork to sides</u>				
162	Walls, in foundations (Provisional)	m ²	164		
	<u>Smooth formwork to soffits</u>				
163	Slabs	m ²	19		
	<u>REINFORCEMENT (PROVISIONAL)</u>				
	<u>Mild steel reinforcement to structural concrete work</u>				
164	10mm Diameter bars	Tonnes	0.02		
165	12mm Diameter bars	Tonnes	0.02		
	<u>High tensile steel reinforcement to structural concrete work</u>				
166	10mm Diameter bars	Tonnes	0.04		
167	12mm Diameter bars	Tonnes	2.69		
168	16mm Diameter bars	Tonnes	3.19		
	<u>Fabric reinforcement</u>				
169	Ref 193 mesh in surface beds, slabs, etc	m ²	33		
	<u>Manhole covers, etc</u>				
170	600 x 600mm Cast iron double seal cover and frame Type A2, SABS 558 Type 6 or similar and approved	No	2		
	Carried to Collection				
	Bill No. 19				
	External Works (provisional)				

		Unit	Quantity	Rate	Amount
	<u>French drain</u>				
171	French drain 2000mm wide x 3000mm long x 1700mm deep comprising 50mm clean granular stone in filling to bottom of drain to a depth of 1500mm; the stone wrapped in Geotextile Bidum U24 geofabric filter blanket, 110 mm uPVC slotted agricultural pipe 3000mm long and backfilling with approved material from excavations to a depth of 200mm	No	1		
	<u>Sundries</u>				
172	Unreinforced concrete encasing 15MPa/19 around 110mm horizontal drain pipe including all necessary formwork	m	26		
173	Unreinforced concrete encasing 15MPa/19 around 110mm vertical or raking drain pipe to cleaning eye including all necessary formwork	m	16		
174	ABC cast iron straight or bent cleaning eye with removable cover jointed to 110mm uPVC pipe and set in and including 15MPa/19mm unreinforced concrete surround with exposed surfaces trowelled smooth	No	26		
175	Testing drainage pipe system	Item			
	<u>DUCTS FOR ELECTRICAL, TELEPHONE, DATA, ETC. CABLES</u>				
	<u>uPVC pipes (heavy duty)</u>				
176	Set of two 55mm pipes laid in and including trenches not exceeding 1m deep	m	24		
177	110mm HDPE Pipe in trenches not exceeding 2m deep.	m	182		
178	Set of two 110mm Pipes laid in and including trenches not exceeding 1m deep	m	44		
	<u>Extra over uPVC pipes for fittings</u>				
179	50mm Slow bend	No	8		
180	110mm Slow bend	No	14		
	<u>Inspection chambers</u>				
181	Inspection chamber 450 x 450mm and not exceeding 1m deep	No	6		
182	Inspection chamber 450 x 600mm and not exceeding 1m deep	No	3		
	Carried to Collection				
	Bill No. 19				
	External Works (provisional)				

		Unit	Quantity	Rate	Amount
	<u>Covers, etc</u>				
183	450 x 600mm x 68kg Type 9D cast iron single seal manhole cover and frame	No	9		
	<u>WATER SUPPLIES</u>				
	<u>Class 9 HDPE pressure pipes</u>				
184	25mm Pipes laid in and including trenches not exceeding 1m deep	m	23		
185	40mm Pipes laid in and including trenches not exceeding 1m deep	m	83		
186	40mm Pipes	m	10		
	<u>Extra over HDPE Class 9 pipes for Plasson compression fittings</u>				
187	25mm Fittings	m	8		
188	40mm Reducer	No	1		
189	40mm Bend	No	5		
190	40mm Tee	No	3		
191	40mm Reducing tee	No	1		
	<u>Class 12 HDPE pressure pipes</u>				
192	100mm Pipe laid in and including trenches not exceeding 1m deep	m	274		
193	90mm Pipe laid in and including trenches not exceeding 1m deep	m	129		
	<u>Extra over Class 12 HDPE pressure pipes for fittings</u>				
194	110mm HDPE elbow	No	4		
195	90mm HDPE elbow	No	6		
196	110mm HDPE Tee	No	3		
197	90mm HDPE Tee	No	2		
198	110mm HDPE Connector	No	8		
199	90mm HDPE Connector	No	4		
200	90mm HDPE End Cap	No	4		
201	110 TO 90mm HDPE Reducer	No	3		
202	110 TO 50mm HDPE Reducer	No	5		
203	90 TO 50mm HDPE Reducer	No	5		
	Carried to Collection			R	
	Bill No. 19				185
	External Works (provisional)				hm

		Unit	Quantity	Rate	Amount
	<u>Extra over HDPE pipes for cast iron pressure fittings in accordance with SABS 546</u>				
204	100mm Flange adaptor drilled to SABS 1123 table 15 including connecting bolts, gaskets, etc	No	6		
205	110mm Hydrant tee including connecting bolts, gaskets, etc	No	1		
	<u>Galvanised steel pipes</u>				
206	159mm Galvanised steel quick coupling perrot pipe in trenches not exceeding 2m deep.	m	355		
	<u>Galvanised steel pipes</u>				
207	160mm Pipe laid in and including trenches not exceeding 1m deep	m	65		
208	100mm Pipe	m	25		
	<u>Extra over galvanised steel pipes for steel fittings</u>				
209	150mm Galvanised elbow FXF 90 degree	No	7		
210	150mm Galvanised elbow FXF 45 degree	No	3		
211	160mm Valve	No	1		
212	160mm Bend	No	3		
213	160mm Bush	No	5		
214	100mm Bush	No	3		
215	100mm Bend	No	5		
	<u>Taps, valves, etc</u>				
216	20mm Cobra Watertech or similar and approved 1001/125RB fullway gate valve	No	8		
217	25mm Cobra Watertech or similar and approved 1001/125RB fullway gate valve	No	4		
218	35mm Cobra Watertech or similar and approved 1001/125RB fullway gate valve	No	2		
219	42mm Cobra Watertech or similar and approved 1001/125RB fullway gate valve	No	4		
220	15mm Star 208LK brass bibtap with hose union	No	6		
221	100 mm AVK, RSV type cast iron gate valve Class 16 to SABS 664 with flanged ends drilled according to SABS 1123 table 1600/3	No	1		
	Carried to Collection				
Bill No. 19 External Works (provisional)				R	186 LM SM

		Unit	Quantity	Rate	Amount
	<u>Sundries</u>				
222	Cast iron rectangular meter box as SABS 558 type 10A size 300 x 200 x 150mm	No	15		
223	Unreinforced concrete 15MPa/19mm in thrust blocks to 90 to 160mm horizontal pipes including necessary formwork	m ³	25		
224	Testing water supply pipe system	Item			
	<u>TANKS ETC</u>				
	<u>Steel Pannelled water tanks as supplied by 'ABECO TANKS', or similar and approved hot dip galvanised steel raised water tower tanks etc:</u>				
225	6.1 x 6.1 x 4.88mm hi Tank with and including internal division dividing the tank into 145kl and 36kl respectively, including walkway all around, caged external access ladder, internal access ladders, hinged lockable manholes, floats and pointer type water level indicators etc. min 10m above ground level, including providing concrete footings for tower, all in terms of the specifications of the supplier.	Item			
	<u>High tensile steel reinforcement to structural concrete work</u>				
226	12mm Diameter bars	Tonnes	0.41		
	<u>FIRE APPLIANCES, ETC</u>				
227	100mm Diameter 2500kPa pressure gauge including tapped hole in steel pipe	No	1		
228	80 x 65mm Brass right angle hydrant valve with gunmetal outlet piece as SABS 1128 Part 1	No	6		
	<u>Fire hydrant pedestals</u>				
229	Unreinforced concrete 25MPa/19 hydrant pedestal 900mm high cast around vertical pipe with bottom 300mm below ground, 300 x 300mm square at base and tapering to octagonal shaped top 200 x 200mm overall including necessary excavation, formwork and two coats of paint to exposed surfaces	No	6		
	<u>Sundries</u>				
230	Extra over excavations in earth for pipe trenches, etc for excavations in soft rock	m ³	2		
231	Extra over excavations in earth for pipe trenches, etc for excavations in hard rock	m ³	0.4		
	Carried to Collection			R	
	Bill No. 19				187
	External Works (provisional)				LM SP SM

		Unit	Quantity	Rate	Amount
232	Unreinforced concrete 20MPa/19mm thrust blocks at bends, tees, end caps, etc including necessary extra excavation, formwork, etc	m ³	6		
233	Cast iron square valve box as SABS 558 type 11D including 500 x 500 x 300mm unreinforced concrete 25MPa/19 surround and short length of 250mm fibre cement pipe	No	6		
234	Testing fire pipe system	Item			
<u>THE FOLLOWING IN ANIMAL DRINKING TROUGH</u>					
<u>EXCAVATION, FILLING, ETC</u>					
<u>Excavation in earth not exceeding 2m deep</u>					
235	Trenches	m ³	2		
<u>Extra over all excavations for carting away</u>					
236	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor	m ³	2		
<u>Extra over trench and hole excavations in earth for excavation in</u>					
237	Soft rock	m ³	2		
<u>Risk of collapse of excavations</u>					
238	Sides of trench and hole excavations not exceeding 1,5m deep	m ²	5		
<u>Keeping excavations free of water</u>					
239	Keeping excavations free of all water other than subterranean water	Item			
<u>15MPa/19mm concrete</u>					
240	Blinding (Provisional)	m ³	0.12		
<u>25MPa/19mm concrete</u>					
241	Footings, In foundations (Provisional)	m ³	1		
<u>REINFORCEMENT (PROVISIONAL)</u>					
<u>Fabric reinforcement</u>					
242	Ref 193 mesh in surface beds, slabs, etc	m ²	2		
<u>BRICKWORK</u>					
<u>Brickwork of NFP bricks in class 11 mortar</u>					
243	110mm Brick wall	m ²	7		
Carried to Collection					R
Bill No. 19					188
External Works (provisional)					LM

		Unit	Quantity	Rate	Amount
<u>FACE BRICKWORK</u>					
<u>Corobrik Agate Travertine /Camel Travertine' FBX or similar and approved face bricks pointed with flush horizontal and vertical joints.The whole cleaned and finished with Plascon Thermaplastic Brick Dressing</u>					
244	Extra over brickwork for face brickwork in stretcher bond.	m ²	6		
<u>Face brick copings, sills, header courses, etc pointed with recessed joints on all exposed faces</u>					
245	Brick-on-edge roller course 110mm wide	m	6		
<u>BRICKWORK SUNDRIES</u>					
<u>Brickwork reinforcement</u>					
246	75mm Wide reinforcement built in horizontally	m	44		
<u>WATER SUPPLIES</u>					
<u>Galvanised steel pipes</u>					
247	25mm Pipes	m	3		
248	25mm Pipes laid in and including trenches not exceeding 1m deep	m	125		
<u>Extra over galvanised steel pipes for steel fittings</u>					
249	25mm bend	No	5		
250	25mm gatevalve	No	1		
251	Precast concrete valve/meter box including cover	No	1		
<u>ROADS AND PARKING</u>					
<u>Site clearance</u>					
252	Digging up and removing rubbish, debris, vegetation, hedges, shrubs, bush, etc. and trees not exceeding 200mm girth	m ²	1 617		
253	Stripping average 300mm thick layer of top soil and depositing material in prescribed stock piles on site	m ²	1 155		
<u>EXCAVATION, FILLING, ETC</u>					
<u>Excavation in earth not exceeding 2m deep</u>					
254	Trenches	m ³	8		
Carried to Collection				R	
Bill No. 19					189
External Works (provisional)					LM
121					SM

		Unit	Quantity	Rate	Amount
<u>EXCAVATION, OTHER THAN BULK, ETC</u>					
<u>Excavation in earth not exceeding 2m deep</u>					
255	Over site between buildings, retaining walls, etc. to reduce levels and dispose in prescribed stock piles on site	m ³	416		
<u>Extra over bulk excavation in earth for excavation in</u>					
256	Soft rock	m ³	35		
257	Hard rock	m ³	32		
<u>Extra over all excavations for carting away</u>					
258	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor	m ³	482		
<u>Earth filling supplied by the contractor under parking areas, roadways, etc.</u>					
259	Filling of G7 material in accordance with SABS 1200 DM, compacted to 93% Mod AASHTO density	m ³	177		
260	Base course of G5 material in accordance with SABS 1200 ME, stabilised to attain UCS>1,0 MPa after seven days and compacted to 97% Mod AASHTO density	m ³	177		
261	50mm Thick coarse river sand under paving	m ²	4 133		
<u>Compaction of surfaces</u>					
262	Compaction of ground surfaces under pavings etc., including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 90% Mod AASHTO density	m ²	1 254		
<u>Additional tests required by the engineer</u>					
263	In-situ dry density test in accordance with method A10(b) of TMH1	No	10		
264	Maximum dry density and optimum moisture content test in accordance with method A7 of TMH1	No	10		
<u>35MPa/19mm reinforced concrete</u>					
265	Concrete edge beam, cast against excavated surfaces.	m ³	2		
266	Concrete drain etc.	m ³	47		
<u>PAVING, ETC</u>					
<u>30MPa Concor Bondbrick or similar and approved</u>					
267	60mm Paving in basket weave pattern, to slight falls	m ²	1 008		
Carried to Collection				R	
Bill No. 19 External Works (provisional)					190 km 5m

		Unit	Quantity	Rate	Amount
268	80mm Paving in basket weave pattern, to slight falls (preparation of ground or filling elsewhere)	m ²	3 189		
	<u>Precast concrete finished smooth on exposed surfaces, including bedding, jointing and pointing</u>				
269	Figure 2 Edging (SABS 927) 125 x 250mm high with 150 x 100mm unreinforced concrete 15MPa/7mm triangular haunching at back and laid on 275 x 50mm thick unreinforced concrete 15MPa/7mm bedding including excavation, backfilling, etc topsoiled and levelled to adjacent surfaces	m	287		
270	Figure 2 Edging concrete kerb, in short lengths circular on plan, (SABS 927) 150 x 100mm high with 150 x 100mm unreinforced concrete 15MPa/7mm triangular haunching at back and laid on 300 x 50mm thick unreinforced concrete 15MPa/7mm bedding including excavation, backfilling, etc topsoiled and levelled to adjacent surfaces	m	2		
271	Figure 7 Semi mountable kerb (SABS 927 MK2) 180 x 280mm high with 150 x 100mm unreinforced concrete 15MPa/7mm triangular haunching at back and laid on 300 x 50mm thick unreinforced concrete 15MPa/7mm bedding including excavation, backfilling, etc topsoiled and levelled to adjacent surfaces	m	523		
272	Figure 7 semi-mountable concrete kerb, in short lengths circular on plan, (SABS 927 MK2) 180 x 280mm high with 150 x 100mm unreinforced concrete 15MPa/7mm triangular haunching at back and laid on 300 x 50mm thick unreinforced concrete 15MPa/7mm bedding including excavation, backfilling, etc topsoiled and levelled to adjacent surfaces	m	59		
273	Figure 8c mountable concrete kerb, (SABS 927) 200 x 300mm wide with 150 x 100mm unreinforced concrete 15MPa/7mm triangular haunching at back and laid on 300 x 50mm thick unreinforced concrete 15MPa/7mm bedding including excavation, backfilling, etc topsoiled and levelled to adjacent surfaces	m	304		
274	Figure 8c mountable concrete kerb, in short lengths circular on plan, (SABS 927) 200 x 300mm wide with 150 x 100mm unreinforced concrete 15MPa/7mm triangular haunching at back and laid on 300 x 50mm thick unreinforced concrete 15MPa/7mm bedding including excavation, backfilling, etc topsoiled and levelled to adjacent surfaces	m	108		
	Carried to Collection			R	
Bill No. 19					191
External Works (provisional)					Har

		Unit	Quantity	Rate	Amount
275	Figure 12 Edging (SABS 927) 75 x 150mm high with 150 x 100mm unreinforced concrete 15MPa/7mm triangular haunching at back and laid on 275 x 50mm thick unreinforced concrete 15MPa/7mm bedding including excavation, backfilling, etc topsoiled and levelled to adjacent surfaces	m	130		
276	Figure 12 Edging concrete kerb, in short lengths circular on plan, (SABS 927) 75 x 150mm high with 150 x 100mm unreinforced concrete 15MPa/7mm triangular haunching at back and laid on 300 x 50mm thick unreinforced concrete 15MPa/7mm bedding including excavation, backfilling, etc topsoiled and levelled to adjacent surfaces	m	39		
<u>PAINTWORK</u>					
<u>Prepare and apply one coat white reflective road marking paint on bituminous road surfacing, precast concrete paving blocks, etc.</u>					
277	100mm Wide line	m	495		
<u>White road marking paint to SABS 731 on concrete</u>					
278	Line 100mm wide	m	596		
279	Standard stop sign with letters 510mm wide and 2500mm high	No	4		
<u>Yellow road marking paint to SABS 731 on concrete</u>					
280	GM6.3 wheelchair sign 1.2 x 1.2m (paint area 0.31m ²)	No	2		
<u>Traffic signs in accordance with SA road traffic signs</u>					
281	Standard regulatory road 'Stop' sign type R1 fixed to and including 76mm diameter x 2mm thick galvanised mild steel post 2500mm long bedded in and including 400 x 400 x 400mm unreinforced concrete base, including necessary excavation, backfilling, paint finish, etc	No	4		
<u>Storm water</u>					
282	Storm water chute, including 1m long x 340mm high wingwalls in road drainage	No	8		
<u>WATER SUPPLIES - Borehole</u>					
<u>Galvanised steel pipes</u>					
283	100mm Pipes	m	13		
284	160mm Pipes	m	3		
Carried to Collection				R	
Bill No. 19					
External Works (provisional)					

192
hm
5m

		Unit	Quantity	Rate	Amount
<u>Extra over galvanised steel pipes for steel fittings</u>					
285	100mm bend	No	4		
286	100mm tee	No	1		
287	100 x 90mm reducer	No	1		
288	160 x 100mm reducer	No	1		
289	100mm Reflux Valve	No	1		
290	100mm Gliserine filled Pressure Guage 1600KPa	No	1		
291	100mm Meinecke Kosmos flow meter	No	1		
292	80mm gatevalve	No	1		
293	100mm Pressure relief valve set	No	1		
<u>TESTING</u>					
294	Testing water and fire water pipe system	Item			
<u>THE FOLLOWING IN RETENTION PONDS</u>					
<u>EXCAVATION, FILLING, ETC</u>					
<u>Excavation in earth not exceeding 2m deep</u>					
295	Retention pond pit	m ³	96		
<u>Extra over all excavations for carting away</u>					
296	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor	m ³	96		
<u>Extra over trench and hole excavations in earth for excavation in</u>					
297	Soft rock	m ³	48		
298	Hard rock	m ³	10		
<u>Risk of collapse of excavations</u>					
299	Sides of trench and hole excavations not exceeding 1,5m deep	m ²	82		
300	Sides of trench and hole excavations exceeding 1,5m deep not exceeding 3m deep	m ²	31		
<u>Keeping excavations free of water</u>					
301	Keeping excavations free of all water other than subterranean water	Item			
Carried to Collection				R	
Bill No. 19				193	
External Works (provisional)				hm	
125				5m	

		Unit	Quantity	Rate	Amount
	<u>Earth filling obtained from the excavations and/or prescribed stock piles on site compacted to 95% Mod AASHTO density</u>				
302	Backfilling to trenches, holes, etc	m ³	12		
	<u>UNREINFORCED CONCRETE</u>				
	<u>20Mpa / 19mm Concrete</u>				
303	Blinding (Provisional)	m ³	5		
	<u>REINFORCED CONCRETE</u>				
	<u>40MPa/19mm concrete</u>				
304	Bases, in foundations (Provisional)	m ³	24		
305	Walls, in foundations (Provisional)	m ³	33		
306	Suspended Slabs (Provisional)	m ³	22		
	<u>TEST BLOCKS</u>				
307	Making and testing 150 x 150 x 150mm concrete strength test cube (Provisional)	No	9		
	<u>CONCRETE SUNDRIES</u>				
	<u>Finishing top surfaces of concrete smooth with a wood float</u>				
308	Surface beds, slabs, etc	m ²	153		
	<u>Leave or form opening in 300mm concrete wall</u>				
309	Opening size 1500 x 600mm	No	2		
310	Opening size 3000 x 300mm	No	1		
	<u>Leave or form opening in 300mm concrete slab</u>				
311	100mm diameter Gas vent with fly screen	No	1		
312	Opening size 610 x 610mm	No	2		
	<u>SMOOTH FORMWORK (DEGREE OF ACCURACY II)</u>				
	<u>Smooth formwork to sides</u>				
313	Walls, in foundations (Provisional)	m ²	86		
	<u>Smooth formwork to soffits</u>				
314	Slabs	m ²	72		
	<u>REINFORCEMENT (PROVISIONAL)</u>				
	<u>High tensile steel reinforcement to structural concrete work</u>				
315	10mm Diameter bars	Tonnes	0.04		
	Carried to Collection				
	Bill No. 19				
	External Works (provisional)				
				R	
					194
					LM
					5M

		Unit	Quantity	Rate	Amount
316	12mm Diameter bars	Tonnes	5.68		
317	16mm Diameter bars	Tonnes	0.70		
318	20mm Diameter bars	Tonnes	0.26		
	<u>Fabric reinforcement</u>				
319	Ref 193 mesh in surface beds, slabs, etc	m ²	177		
	<u>SCREEDS</u>				
	<u>3:1 Cement plaster screeds steel trowelled on concrete</u>				
320	Average 50mm thick on concrete roofs to falls and currents	m ²	36		
	<u>STORMWATER DRAINAGE</u>				
	<u>300mm Precast pipes</u>				
321	300mm Pipes in overflow	m	3		
	<u>Covers, etc</u>				
322	600 x 600mm Double Seal manhole covers and frame as Besaans Du Plessis or similar approved.	No	2		
	<u>SECURITY FENCING (PROVISIONAL)</u>				
323	Allow for clearing site for the width of 1 000 mm where fencing runs are to be erected including removing trees, shrubs etc. not exceeding 200 mm girth, grubbing up roots and roughly levelling	m	150		
324	Four strands of 4 mm galvanised straining wires secured to fencing posts with doubled 2 mm galvanised wire inserted through hole in post and turned a minimum of four turns around straining wire and attached to straining frame at one end with not less than four turns ad the other end to straining bolts (elsewhere measured)	m	150		
325	Approved 500 mm diameter flat wrap of galvanised razor barbed tape wire fixed vertically to and including two rows of double stranded barb wire to top of security fence and secured to straining wire (elsewhere measured) with and including 2.5 mm diameter galvanised binding wire at 300 mm centres	m	150		
	Carried to Collection				
	Bill No. 19				
	External Works (provisional)				

		Unit	Quantity	Rate	Amount
326	Fencing formed of 50 x 50 x 2.50 mm diameter Class A galvanised 'Secumesh' security fence 1.8 m high with vertical wires facing outwards secured with 'Howgring' clips available from Decor Precast applied with 'Howgring' pliers at 300 mm centres to top and bottom straining wires and 500 mm centres to two intermediate straining wires (straining wires elsewhere measured) including holes through posts (Secumesh supplied by Reinforcing, Design and Supply, Telephone 041-631220)	m	150		
327	12 mm Diameter galvanised mild steel straining eye bolt with hook, threaded portion and two nuts and washers, including hole trough post.	No	16		
328	60 mm Diameter galvanised steel intermediate fencing post, 2 700 mm fitted with a pressed steel mushroom cap, post fitted with 150 x 150 x 5 mm baseplate at bottom and embedded in 300 x 300 x 700 mm mass concrete (15 MPa) base	No	45		
329	100 mm Ditto as straining or corner post, but fitted with two 75 mm diameter galvanised steel raking stays.	No	2		
330	100 mm Ditto, as straining or corner posts but fitted with three 75 mm diameter galvanised steel raking stays	No	2		
Carried to Collection					
Bill No. 19					
External Works (provisional)					
128					
					R
					196
					ham
					5m

BILL NO. 19

EXTERNAL WORKS (PROVISIONAL)

COLLECTION

New Huku Police Station

Amount

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110

111

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116

117

118

119

120

121

122

Carried to Next

R

Bill No. 19

External Works (provisional)

197

Wm

SM

Brought from Previous

New Huku Police Station
Amount

R

123

124

125

126

Carried to Summary

R

Bill No. 19
External Works (provisional)

198
LM
SM

BILL NO. 20**PROVISIONAL SUMS****SUPPLEMENTARY PREAMBLES****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

Builder's work

Builder's work in connection with specialist services is given elsewhere in these bills of quantities

SPECIALIST WORK**ATTENDANCE**

General attendance on Nominated Sub-contractors' work shall be deemed to include the following:

1. Access to the site and places where the sub-contract work is to be carried out, including the reasonable use of any temporary personnel hoists erected by the contractor;
2. The provision of water and lighting and of single phase electric power to a position within 50 metres of the place where sub-contract work is to be carried out but excluding water, fuel and power for commissioning of the installation for which the sub-contractor shall be responsible;
3. The provision of an area for the sub-contractor to establish office accommodation, temporary workshops and for the storage of plant and material;
4. The use of erected scaffolding belonging to the contractor, in common with others having the like right, whilst it so remains erected upon the site;
5. The use of messrooms, latrine, health and welfare facilities and the like, where provided.
6. The use of site telephone and facsimile machine, where provided, subject to the payment by the sub-contractor for all his outgoing calls.

Carried to Collection

R

Bill No. 20

Provisional Sums

199

5/21

Amount

LANDSCAPING

- 1 Allow the sum of R 150 000-00 (One hundred and Fifty thousand Rand) for Landscaping including 12 month maintenance period

Prov Sum 150 000 00

- 2 Add for profit

Item

- 3 Allow for attendance

Item

BOREHOLE

- 4 Allow the sum of R 850,000-00 (Eight hundred and Fifty thousand Rand) for Borehole source development.

Prov Sum 850 000 00

- 5 Add for profit

Item

- 6 Allow for attendance

Item

BUDGETARY ALLOWANCES**CLO Allowance**

- 7 Provide the amount of R 156,000.00 (One Hundred and Fifty Six thousand Rand) for a Community Liaison Officer for the project for a period of Twenty Four Months

Prov Sum 156 000 00

- 8 Add for profit on the above

Item

PSC Meeting

- 9 Provide the amount of R 120,000.00 (One hundred and twenty thousand Rand) for attendance to meetings by community members for a period of Twenty Four Months

Prov Sum 120 000 00

- 10 Add for profit

Item

Contingencies

- 11 Provide the sum of R 1 500,000.00 (One Million, Five Hundred Thousand Rand) for contingencies, to be used as instructed by the Principal Agent in terms of clause 17 of the Principal Building Agreement.

Prov Sum 1 500 000 00

Carried to Collection

R

Bill No. 20

Provisional Sums

New Huku Police Station
Amount

- 12 CPAP Allowance
Provide the amount of R 3,454,210.00 (Three Million four Hundred and fifty four Thousand two hundred and ten Rand) for Contract Price Adjustment Provisions

Prov
Sum 3 454 210 00

Carried to Collection

R

Bill No. 20
Provisional Sums

201

sm

BILL NO. 20
PROVISIONAL SUMS
COLLECTION

New Huku Police Station
Amount

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Carried to Summary

R

Bill No. 20
Provisional Sums

Ken
202
1/5/17

Bill No. SUMMARY

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SUMMARY

Carried to Next

R

M. Mabunda H.
Col. Mabunda H.

203

L. H.
6/1/17

Brought from Previous

ELECTRICAL INSTALLATION (Carried from Final Summary of separate Electrical document)

MECHANICAL INSTALLATION (Carried from Final Summary of separate Mechanical document)

SubTotal excluding Value Added Tax

Add VAT @ 15%:

Carried to Tender

SUMMARY


Col. Malsunda H

New Huku Police Station
Amount

R

R

204

km

km

ELECTRICAL BILLS OF QUANTITIES

205

km

1/5/19

Item	Description	Unit	Qty	Material price/m³	Install price	Amount
Bill No. 2						
Main Supply						
2.1	Main supply					
2.1.1	Provisional Sum of R500,000.00 for All Eskom Connection Related Cost	Sum	1			
2.2	Cables					
All Cables Rate Shall Include Cables Terminations and Joints						
2.2.1	95mm² 4-core PVC insulated cu cable + 70mm² BCEW From Eskom Transformer to Main Distribution Kiosk	m	200			
2.3	Sleeves					
High-density polyethylene (HDPE) flexible sleeve piping laid in trench (trench and backfilling measured elsewhere) Including Joints						
2.3.1	50mmØ	m	260			
2.3.2	110mmØ	m	200			
90 Degree long radius bends for high-density polyethylene (HDPE) Flexible Sleeve Piping						
2.3.3	50mmØ	m	27			
2.3.4	110mmØ	m	31			
2.4	Manholes					
Construction of manholes, complete with heavy duty steel lid						
2.4.1	1000 x 1000 x 1000 Brick Manhole (underground junction box) For Electrical Cables	Item	11			
2.4.2	600 x 600 x 800 Brick Manhole (underground junction box) For Telecommunication Cables	Item	4			
2.5	Excavation					
Restricted excavation in all material Exceeding 0.0m up to 3m						
2.5.1	Scanning for Existing Services and Soil Type	Sum	1			
2.5.1	Hard rock	m³	210			
2.5.2	Semi rock	m³	210			
2.5.3	Soft soil	m³	210			
2.6	Backfilling					
2.6.1	Imported River Sand for Bedding Above/Below Electrical Cables	m³	48			
2.6.2	Selected and Approved Material From The Excavations, in Backfilling in Trenches, to Specified density	m³	162			
2.7	Test and Commissioning					
2.7.1	Test and Commissioning	Sum	1			
TOTAL (Excluding VAT)						

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Item	Description	Unit	Qty	Material price/m ³	Install price	Amount
	Bill No. 3					
	Low Voltage Distribution					
	Distribution Boards should be installed according to SANS 10142 and SANS 10400					
	Supply and installation of a weatherproof pre-manufactured low voltage distribution board, complete with sheetmetal tray, frames, sub-frames, busbars, legend card, circuit breakers, fuses, relay, volt-meter, ammeter, transformer, earth leakage unit, timer, switch, etc.					
3.1	DB 1 NPS					
3.1.1	Bottom entry surface mounted distribution board pre-manufactured and pre-wired as per drawing PHG-DB1-NPS-13 in Main building	Item	1			
3.2	DB 1 EPS					
3.2.1	Bottom entry surface mounted distribution board pre-manufactured and pre-wired as per drawing PHG-DB1-EPS-14 in Main Building	Item	1			
3.3	DB 2 NPS					
3.2.1	Bottom entry surface mounted distribution board pre-manufactured and pre-wired as per drawing PHG-DB2-NPS-15 Cell Building	Item	1			
3.4	DB 2 EPS					
3.4.1	Bottom entry surface mounted distribution board pre-manufactured and pre-wired as per drawing PHG-DB2-EPS-16 Cell Building	Item	1			
3.5	DB 3 NPS					
3.5.1	Bottom entry surface mounted distribution board pre-manufactured and pre-wired as per drawing PHG-DB3-NPS-03 Washbay	Item	1			
3.6	DB UPS					
3.6.1	Bottom entry surface mounted distribution board pre-manufactured and pre-wired as per drawing PHG-DB3-UPS-04	Item	1			
3.8	Accessories					
3.8.1	DB Blanks	Item	15			
3.8.2	DB Label Booklets	Item	5			
3.8.3	DB Conversion Clips	Item	5			
3.8.4	Clip in Neutral Bar	Item	5			
3.11	Testing and commissioning					
3.11.1	Testing and commissioning	Sum	1			
	TOTAL (Excluding VAT)					



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Item	Description	Unit	Qty	Material price/m²	Install price	Amount
	Bill No. 4					
	Socket Outlet and Isolator					
	Socket Outlet and Light Switch should be installed according to SANS 10142 and SANS 10400					
	Supply, installation and commission of low voltage socket outlets and Isolators					
4.1	Socket Outlet					
	Socket outlets and isolators installed in brickwork complete with cover plate and flush galvanized wall box					
4.1.1	16A Single Three-pin switched flush mounted socket outlet	Item	66			
4.1.2	16A Double Three-pin switched flush mounted socket outlet	Item	34			
4.1.3	16A Single Three-pin dedicated socket outlet on power skirting (Red)	Item	84			
4.1.4	16A Single Three-pin socket outlet mounted in power skirting	Item	28			
4.1.5	16A Single Three-pin emergency socket outlet mounted in power skirting	Item	2			
4.1.6	16A Single Three-pin switched socket outlet with plastic cover plate installed in weatherproof box	Item	12			
4.1.8	RJ45 Data Outlet on Powerskirting	Item	150			
4.2	Isolators					
4.2.1	32A 2-pole switched isolator installed in surface-mount powder coated steel extension box	Item	38			
4.2.2	32A 2-pole lockable rotary isolator	Item	9			
4.2.3	32A 2-pole weatherproof IP65 lockable rotary isolator	Item	6			
4.2.4	32A 3-pole weatherproof IP65 lockable rotary isolator	Item	6			
4.2.5	63A 2-pole switched isolator	Item	Rate only			
4.2.6	63A 3-pole switched isolator	Item	15			
4.3	Testing and commissioning					
4.3.1	Testing and commissioning	Sum	1			
	TOTAL (Excluding VAT)					

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