

	Unit	Quantity	Rate	Amount
BILL NO. 14				
TILING				
NOTE : For all TRADE NAMES and the use of alternative items, refer to Section 3: Specific Preliminaries item C3				
UNION TILES				
Contractor to ensure that he is fully conversant with the application, preparation, installation and sealing of tiles, in accordance with the manufacturers specifications. No additional cost will be considered in this regard.				
WALL TILING				
<u>200 x 200mm Heavy duty Glazed ceramic wall tiles fixed with approved tile adhesive to plaster (plaster elsewhere) with 4mm straight joints fixed and grouted with approved tile grout:</u>				
1	m ²	68		
2	m	121		
<u>300 x 450mm Heavy duty Glazed ceramic wall tiles fixed with approved tile adhesive to plaster (plaster elsewhere) with 4mm straight joints fixed and grouted with approved tile grout:</u>				
3	m ²	255		
4	m	121		
FLOOR TILING (PROVISIONAL)				
<u>300 x 300 x 8mm Vitro or similar and approved non slip tiles fixed with adhesive to screed (elsewhere measured) and flush pointed with approved epoxy grouting</u>				
5	m ²	99		
<u>300 x 300 x 7mm Heavy Duty ceramic floor tiles fixed with adhesive to screed (elsewhere measured) and flush pointed with approved epoxy grouting</u>				
6	m ²	468		
7	m	52		
8	m	630		
Carried to Collection			R	
				151

Bill No. 14
Tiling

hem
5/5/20

	Unit	Quantity	Rate	Amount
<u>HEAVY DUTY FLOOR TILES INTERNALLY</u>				
<u>600 x 600 x 20mm Heavy Duty floor tiles as Union 1LG22DXGHPSL600 fixed with TAL Gold Star 6 rapid setting adhesive to screed (elsewhere measured) and flush pointed with Dove Grey TAL Floor grout and sealed with an additional coat of "Union Fast Seal", installed, cleaned and applied strictly in accordance with the manufacturers specifications. Contractor to ensure that he is fully conversant with the application, preparation, installation and sealing in accordance with the manufacturers specifications.</u>				
9				
On floors and landings with 6mm joints laid in diagonal pattern	m ²	421		
10				
On floors and landings with 6mm joints	m ²	86		
11				
On ramps	m ²	9		
12				
Raking cutting	m	428		
<u>100 x 600 x 20mm Heavy Duty skirting tile as Union 1LG22DXGHPSLSKIRT fixed with TAL Gold Star 6 rapid setting adhesive to plaster (elsewhere measured) and flush pointed with Dove Grey TAL Floor grout and sealed with an additional coat of "Union Fast Seal".</u>				
13				
100mm High skirting	m	428		
<u>HEAVY DUTY FLOOR TILES EXTERNALLY</u>				
<u>600 x 600 x 20mm Heavy Duty floor tiles as Union 1LG22DXGLAVSL600 fixed with TAL Gold Star 6 rapid setting adhesive to screed (elsewhere measured) and flush pointed with Dove Grey TAL Floor grout and sealed with an additional coat of "Union Fast Seal".</u>				
14				
On floors and landings with 6mm joints laid in diagonal pattern	m ²	156		
15				
On floors and landings with 6mm joints	m ²	37		
<u>300 x 300 x 32mm Heavy Duty step tile as Union 1LG22LXDXGLMST300 fixed with TAL Gold Star 6 rapid setting adhesive to screed (elsewhere measured) and flush pointed with Dove Grey TAL Floor grout and sealed with an additional coat of "Union Fast Seal".</u>				
16				
On steps and risers with 6mm joints	m	43		

Carried to Collection

R

152
ham
5/17

Bill No. 14
Tiling

	Unit	Quantity	Rate	Amount
<u>170 x 300 x 13mm Heavy Duty step riser tile as Union 1LG22DXGLAVALRISER fixed with TAL Gold Star 6 rapid setting adhesive to screed (elsewhere measured) and flush pointed with Dove Grey TAL Floor grout and sealed with an additional coat of "Union Fast Seal".</u>				
17	m	43		
<u>100 x 600 x 20mm Heavy Duty skirting tile as Union 1LG22DXGLAVSLSKIRT fixed with TAL Gold Star 6 rapid setting adhesive to screed (elsewhere measured) and flush pointed with Dove Grey TAL Floor grout and sealed with an additional coat of "Union Fast Seal".</u>				
18	m	54		
<u>40 x 40 x 4mm approved non slip ceramic mosaic tiles fixed with adhesive to screed (elsewhere measured) and flush pointed with approved epoxy grouting</u>				
19	m ²	3		
<u>TOILET PAPER HOLDERS, ETC</u>				
<u>'Vaal' or similar and approved</u>				
20	No	3		
<u>VANITY SLABS AND COUNTER TOPS</u>				
<u>Rustenburg grey granite or similar and approved mitred and fixed in position on steel frames (elsewhere) with bevelled round edges polished on all exposed surfaces</u>				
21	m	2		
22	m	32		
23	m	19		
24	m	14		
25	m	27		
26	m	2		
27	m	14		
28	m	8		
Carried to Collection			R	
				153
				RM
				

Bill No. 14
Tiling

	Unit	Quantity	Rate	Amount
29	32mm Thick x 350mm wide tops with both edges rounded	m	2	
30	32mm Thick x 900mm wide tops with both edges rounded	m	5	
31	Extra over 32mm thick tops for mitred cross cut	m	5	
32	Extra over 32mm thick tops for 75mm diameter hole	No	12	
33	Extra over 32mm thick tops for cut notch 110 x 110mm	No	2	
34	Extra over 32mm thick tops to cut hole for wash basin or stove hob	No	9	
35	Extra over 32mm thick tops to cut hole for double bowl sink	No	4	
<u>SUNDRIES</u>				
<u>Genesis or similar and approved</u>				
36	ERA bright silver 91 tile edge strip	m	167	
37	Listello range LPA bright silver 91 tile dividing strip	m	243	
38	ESA brushed silver 94 Straight Aluminium dividing strip between different floor finishes	m	89	
39	TDP Brushed silver 94 aluminium square edge trim to edges and top of cut tile skirting	m	1 246	
40	MMA brushed silver 94 aluminium expansion joint trim (Provisional)	m	147	
41	NLM105 matt silver 81 aluminium stair nozing	m	43	
Carried to Collection			R	
				154

Bill No. 14
Tiling

hm
CS

BILL NO. 14
TILING
COLLECTION

New Huku Police Station
Amount

Page No

Brought Forward from Page

83
84
85
86

Carried to Summary

R

155

Lan

[Handwritten initials]

Unit	Quantity	Rate	Amount
------	----------	------	--------

BILL NO. 15

PLUMBING AND DRAINAGE (PROVISIONAL)

NOTE : For all TRADE NAMES and the use of alternative items, refer to Section 3: Specific Preliminaries item C3

SUPPLEMENTARY PREAMBLES

uPVC pipes and fittings

Sewer and drainage pipes and fittings shall be jointed and sealed with butyl rubber rings Soil, waste and vent pipes and fittings shall be solvent weld jointed

Copper pipes

Pipes shall be hard drawn and half-hard pipes of the class stated. Class 0 (thin walled hard drawn) pipes shall not be bent. Class 1 (thin walled half-hard), Class 2 (half-hard) and Class 3 (heavy walled half-hard) pipes shall only be bent with benders with inner and outer formers. Fittings to copper waste, vent and anti-syphon pipes, capillary solder fittings and compression fittings shall be of an approved type. Capillary solder fittings shall comply with ISO 2016. Only compression fittings shall be used in walls or in ground

Galvanised steel pipes and fittings

Galvanised steel pipes are to be 'Tosa' medium class to SABS 62 and fittings are to be manufactured by 'Tupy'

Fixing of pipes

Unless specifically otherwise stated, descriptions of pipes shall be deemed to include fixing to walls etc, casting in, building in or suspending not exceeding 1m below suspension level

Disinfection of water pipework

All pipework is to be disinfected in accordance with SABS 1200L

Reducing fittings

Where fittings have reducing ends or branches they are described as 'reducing'. In the case of pipes with diameters not exceeding 60mm only the largest end or branch size is given. Should the Contractor wish to use other fittings and bushes or reducers he may do so on the understanding that no claim in this regard will be entertained. In the case of pipes with diameters exceeding 60mm all sizes are given and no claim for extra bushes, reducers, etc will be entertained

Carried to Collection

R

156

Kam

	Unit	Quantity	Rate	Amount
<u>Wire gratings</u>				
Descriptions of gutter outlets, etc shall be deemed to include wire balloon gratings				
<u>Exposed concrete surfaces</u>				
Exposed surfaces of concrete stormwater channels, cover slabs, inspection eye marker slabs, gully tops, cleaning eye tops, catchpits, inspection chambers, etc shall be finished smooth with plaster				
<u>Flush pans</u>				
Flush pans shall have straight or side outlets and 'P' or 'S' traps as necessary				
<u>Waste unions</u>				
Descriptions of waste unions shall be deemed to include rubber or vulcanite plugs and chains fixed to fittings				
<u>Excavation and filling</u>				
Excavation and back filling must be done using hand held tools only				
<u>SOIL DRAINAGE</u>				
<u>uPVC Class 34 pipes</u>				
1	m	8		
110mm Pipes vertically or ramped to cleaning eyes, etc				
2	m	200		
110mm Pipes laid in and including trenches not exceeding 1m deep				
<u>Extra over uPVC pipes for fittings</u>				
3	No	92		
110mm Bend				
4	No	70		
110mm Access junction				
<u>Sundries</u>				
5	m	8		
Unreinforced concrete encasing 15MPa/19 around 110mm vertical or raking drain pipe to cleaning eye including all necessary formwork				
6	No	8		
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				
7	No	15		
110mm Gully not exceeding 1m deep including approved bedding, backfilling and compaction				
8	Item			
Testing drainage pipe system				
Carried to Collection			R	
				157
				Lm

Bill No. 15
Plumbing And Drainage (provisional)

Lm
CM

	Unit	Quantity	Rate	Amount
<u>SANITARY FITTINGS</u>				
NOTE: Prices for sanitary fittings fixed to walls or abutting walls shall include for sealing against walls with silicone sealing compound. This shall apply to wash hand basins, sinks and drainers, urinals, WC cisterns, wash troughs, shower trays and the like.				
<u>Franke or similar and approved</u>				
Stainless steel for sinks, wash hand basins, wc's, etc shall be type 304 (18/8)				
9	No	5		
Citiline DT 135E double end bowl drop-in sink 1350 x 457mm wide and fixing in position on timber fitting (elsewhere measured)				
10	No	1		
Wall bench Code 359558 size 1500 x 650mm with 150mm high integral splashback and stainless steel legs and adjustable foot pieces				
11	No	1		
Standard P1 single bowl pot sink 900 x 650mm with 150mm high integral splashback and stainless steel legs and adjustable foot pieces				
12	No	1		
Standard S2 double end bowl catering sink 1500 x 650mm with 150mm high integral splashback and stainless steel legs and adjustable foot pieces				
13	No	1		
LDS Code 350960 drip sink size 600 x 500mm fitted with stainless steel hinged bucket grid secured to wall with four anchor bolts				
14	No	1		
LDL Code 318600 wall mounted wash trough size 600 x 500 x 257mm deep fixed to wall with two galvanised mild steel Falcon brackets				
15	No	2		
1,2mm Thick Model HDSSB325318 heavy duty security type surround basin size 390 x 320 x 250mm deep complete with outer casing and welded base plate				
16	No	5		
1,2mm Thick Model 356185 heavy duty vandal proof wc pan size 485 x 390 x 435mm high with circular flushing rim and bowl, 38mm supply flush pipe and seven times bolted to wall and floor all in accordance with the manufacturers specifications				
17	No	3		
Model ENF-359206 heavy duty recessed drinking fountain and wash hand basin size 350 x 465 x 175mm deep with 15mm self closing metering tap built into recess in wall with steel lugs				
Carried to Collection				
				R
				158
				LM SM

Bill No. 15
Plumbing And Drainage (provisional)

	Unit	Quantity	Rate	Amount
<u>Vaal or similar and approved</u>				
18	Bantam Code 7030 white vitreous china cloakroom basin size 455 x 290 mm with tap hole and integrated overflow bolted to wall with two 10mm bolts Code 8448Z0	No	2	
19	Hibiscus Code 7023 white vitreous china lavatory basin size 510 x 405mm with two tapholes and integrated overflow bolted to wall with two 10mm bolts Code 8448Z0	No	1	
20	Hibiscus Code 7023 white vitreous china lavatory basin size 510 x 405mm with two tapholes and integrated overflow supported on and including Classic full pedestal Code 715000	No	2	
21	Cameo Code 7028 ceramic fireclay white lavatory basin size 595 x 455mm with one taphole with overflow attachments Code 8784Z0 and fitted to vanity slab (elsewhere measured)	No	10	
22	Daisy 751400 vitreous china semi-close coupled wc suite comprising pan with double flap heavy duty plastic seat and 9 litre matching cistern 710532 complete with fitments and flush pipe	No	12	
23	Protea Paraplegic 750200 white vitreous china back inlet pan, complete with heavy duty white plastic seat and 9 litre matching cistern 710631 complete with lid, fitments, CP side flush lever and flush pipe	No	1	
24	Sweetpea Code 705126 vitreous china white wall hung urinal with top inlet fitted complete with cp domical grating, spreader and hanger brackets	No	2	
25	Sweetpea Code 705127 vitreous china white wall hung urinal with back inlet fitted complete with cp domical grating, spreader and hanger brackets	No	2	
<u>Parker-Duranite or similar and approved</u>				
26	9 Litre low level cistern with syphonic valve bolted to wall	No	4	
<u>CCP Precast or similar and approved</u>				
27	Precast concrete double wash trough size 1000 x 600 x 320mm high with two precast concrete leg supports	No	1	
<u>WASTE UNIONS ETC</u>				
<u>Cobra Watertech or similar and approved approved</u>				
28	32mm Code 301 Basin waste union with backnut plug and chain	No	15	
Carried to Collection				
			R	
				159
				hm
				sm

	Unit	Quantity	Rate	Amount
29 38mm Brass shower waste with 75mm diameter chrome plated shower grating	No	6		
30 38mm Cobra 316 sink or wash trough waste with backnut plug and chain	No	19		
<u>TRAPS ETC</u>				
<u>Marley or similar and approved</u>				
31 40mm Deep butyl rubber resealing 'P' or 'S' trap	No	12		
32 40mm Deep butyl rubber resealing 'P' or 'S' trap adjusted for double sink/trough	No	5		
<u>'Cobra Watertech' or similar approved</u>				
33 40mm Chromium plated bottle trap as Code 345/40	No	3		
34 40mm Chromium plated bottle trap as Code 345/50	No	8		
35 40mm Chromium plated bottle trap as Code 365/50	No	3		
36 40mm Brass deep seal shower trap with cleaning eye	No	6		
37 40mm Brass shallow seal P trap with cleaning eye as Code 373	No	2		
<u>Afscan or similar and approved</u>				
38 110 R Art. No 7102837 stainless steel round floor drain with 220mm grating and 110mm outlet jointed to 110mm uPVC drain pipe including adaptor	No	1		
<u>Rofo Engineering or similar and approved</u>				
39 RO GT 700 grease trap size 700 x 400 x 400mm deep with flow rate of 4,5l/sec with 100mm waste outlet jointed to 110mm uPVC drain pipe including adaptor	No	1		
<u>H.A.V. Industrial Agents cc or similar and approved (tel: 011 6608943)</u>				
40 Combination oil and sand trap, comprising 4litre/second mild steel Oilmaster size 900 x 400 x 1000mm deep complete with drainbox, sampling master and sand trap size 300 x 300 x 500mm deep with 110mm inlets and outlets	No	1		
<u>TAPS, VALVES, ETC</u>				
<u>Cobra Watertech or similar and approved</u>				
41 15mm Brass stocock	No	3		
42 22mm Brass stocock	No	3		
43 28mm Brass stocock	No	4		
Carried to Collection			R	
				160
				h m 

Bill No. 15
Plumbing And Drainage (provisional)

	Unit	Quantity	Rate	Amount
44	15mm Star 208LK brass bibtap with hose union	No	2	
45	15mm Star 206EXT CP bibtap	No	9	
46	15mm Stella 3314ST CP pillartap with colour indices	No	8	
47	15mm Stella 3338ST CP underwall stoptap	No	19	
48	15mm KM2.200 self closing metering bibtap	No	2	
49	15mm Stella 3294ST CP single taphole basin mixer with pop-up waste and angle regulating valves	No	10	
50	15mm 503-21CP elbow action pillartap with 1/4 turn ceramic disc and colour indices	No	2	
51	15mm Stella 166/041CP wall type sink mixer with swivel outlet	No	5	
52	15mm KP2.6CP Vandalmaster vandal-resistant shower head	No	3	
<u>Walcro or similar and approved</u>				
53	15mm CIRS Hexs overhead ceiling shower rose with resistant sleeve	No	3	
54	15mm 150 Prison type push button metering non hold open valve complete with extension and all accessories	No	3	
55	15mm 155UW built-in urinal flush valve and spreader	No	2	
56	20mm 103LUR duct urinal flush valve with 103/6 flush pipe and spreader	No	2	
<u>SANITARY PLUMBING</u>				
<u>uPVC soil vent and waste piping in accordance with SABS 967 including all straight couplings, cutting and waste, etc</u>				
57	40mm Pipe	m	39	
58	50mm Pipe	m	15	
59	110mm Pipe	m	42	
60	40mm Pipe laid in filling under floors	m	45	
61	50mm Pipe laid in filling under floors	m	17	
62	110mm Pipe laid in filling under floors	m	3	
<u>Extra over uPVC pipes for fittings</u>				
63	50 x 40mm Reducer	No	8	
64	40mm Bend	No	17	
Carried to Collection				
Bill No. 15 Plumbing And Drainage (provisional)			R	
				162
				SM

	Unit	Quantity	Rate	Amount
65 50mm Bend	No	6		
66 110 mm Bend	No	2		
67 110mm Pan connector	No	15		
68 110mm Bent pan connector	No	3		
69 40mm Access bend	No	46		
70 50mm Access bend	No	8		
71 110mm Access bend	No	20		
72 40mm Access junction	No	4		
73 50 mm Access junction	No	3		
74 110mm Access junction	No	7		
75 110 x 50mm Access reducing junction	No	3		
76 50mm Two-way vent valve	No	2		
77 110mm Two-way vent valve	No	7		
<u>Sundries</u>				
78 Testing waste pipe system	Item			
<u>WATER SUPPLIES</u>				
<u>Class 0 copper pipes</u>				
79 15mm Pipes	m	132		
80 15mm Pipes chased into brick walls	m	183		
81 22mm Pipes	m	34		
82 22mm Pipes chased into brick walls	m	32		
83 28mm Pipes	m	52		
84 28mm Pipes chased into brick walls	m	24		
<u>Extra over class 'O' copper pipes for brass compression fittings</u>				
85 15mm Fittings	No	232		
86 22mm Fittings	No	45		
87 28mm Fittings	No	32		
<u>Galvanised steel pipes</u>				
88 25mm Pipes	m	75		
Carried to Collection			R	
				162
				LM
				SM

Bill No. 15
Plumbing And Drainage (provisional)

	Unit	Quantity	Rate	Amount
<u>Extra over galvanised steel pipes for steel fittings</u>				
89	25mm Fittings	No	33	
<u>TESTING</u>				
90	Testing water and fire water pipe system	Item		
<u>Paper lagging</u>				
91	Two layers of stout brown paper tightly wrapped around 15 mm pipe and couplings and tied with wire prior to building in	m	119	
92	Ditto around 22mm pipe ditto	m	31	
<u>FIRE APPLIANCES, ETC.</u>				
<u>Fire extinguishers, etc.:</u>				
93	9kg Dry chemical powder fire extinguisher fixed to wall with meranti backboard, size 520 x 100 x 22mm thick, plugged and screwed to wall complete with hook.	No	9	
94	5kg Carbon dioxide fire extinguisher fixed to wall with meranti backboard, size 520 x 100 x 22mm thick, plugged and screwed to wall complete with hook.	No	4	
95	Theft proof housing for fire extinguishers.	No	3	
Carried to Collection				
				R
				163
				<i>hhu</i>
				<i>Sm</i>

BILL NO. 15
PLUMBING AND DRAINAGE (PROVISIONAL)
COLLECTION

Page No

Brought Forward from Page

88
89
90
91
92
93
94
95

Carried to Summary

R

164

ham

SP
5/3

	Unit	Quantity	Rate	Amount
<u>BILL NO. 16</u>				
<u>RAINWATER DISPOSAL</u>				
NOTE : For all TRADE NAMES and the use of alternative items, refer to Section 3: Specific Preliminaries item C3				
<u>Watertite OGEE or similar approved seamless aluminium prepainted gutters and rainwater pipes</u>				
1	m	484		
Commercial Ogee profile aluminium H3003h 14 seamless gutter, overall size 150 x 125 x 0,8mm thick coated internally and externally with ColourTech G4 in colour Marble White with matching splashplate including cut and mitred angles covered with a mitre strip externally.				
2	No	65		
Extra over gutter for angle				
3	No	47		
Extra over gutter for outlet for 78 x 78mm pipe				
4	m	122		
78 x 78 x 2mm thick aluminium downpipe in colour Marble White fixed to wall with straps at 1500mm centres using nail plugs, with downpipes riveted and silicone sealed to gutter outlets				
5	No	64		
Extra over rainwater pipe for bend				
6	No	47		
Extra over rainwater pipe for shoe				
7	No	45		
DDCR99 Clean Rain Ultra Rainwater filtration and collection system, or similar approved, as supplied by Sinvac Plastics, including applicable Multi-fit cap and downspout adaptors.				
<u>'Saint Gobain ' Fulbore or similar and approved cast iron outlets</u>				
8	No	7		
180 Degree PAM Vertical cast iron outlet for 110mm pipe				
<u>Galvanised sheet metal</u>				
9	m	30		
1mm Thick x 160mm wide edge flashing twice bent and fixed to brickwork				
<u>Sundry aluminium work</u>				
10	m	30		
30 x 30 x 1,5mm Angle drip rail fixed to concrete soffits				
Carried to Summary				
				R
				165
				

	Unit	Quantity	Rate	Amount
<u>BILL NO. 17</u>				
<u>GLAZING</u>				
NOTE : For all TRADE NAMES and the use of alternative items, refer to Section 3: Specific Preliminaries item C3				
<u>GLAZING TO STEEL WITH PUTTY</u>				
<u>6,4mm Clear laminated safety glass</u>				
1	m ²	35		
<u>GLAZING TO STEEL WITH NEOPRENE GASKETS</u>				
<u>6,4mm Clear laminated safety glass</u>				
2	m ²	2		
3	No	1		
<u>GLAZING TO WOOD WITH PINNED ON BEADS (BEADS ELSEWHERE)</u>				
<u>6,4 mm 'Fadeban' normal strength clear laminated safety glass</u>				
4	m ²	0.4		
5	m ²	4		
<u>6,4 mm Clear laminated safety glass with sandblast finish</u>				
6	m ²	1		
<u>TOPS, SHELVES, DOORS, MIRRORS, ETC</u>				
<u>6mm Silvered float glass ('GG' Quality) copper backed mirrors with rounded polished edges holed for and fixed on 6mm hardboard backing with chromium plated dome capped mirror screws with rubber buffers to plugs in brickwork or concrete</u>				
7	No	7		
8	No	2		
9	No	3		
10	No	1		
11	No	1		
Carried to Summary			R	
				166
				Lm
				Sm

	Unit	Quantity	Rate	Amount
BILL NO. 18				
<u>PAINTWORK</u>				
NOTE : For all TRADE NAMES and the use of alternative items, refer to Section 3: Specific Preliminaries item C3				
<u>SUPPLEMENTARY PREAMBLES</u>				
<u>Descriptions</u>				
Descriptions of painting shall be deemed to include complete preparation of new as well as existing surfaces, including patching and filling, sanding and primer on nail and screw heads. Descriptions of painting on pipes, gutters, etc shall be deemed to include painting on holder bats, hangers, clips, clamps, etc. Descriptions of painting on windows, frames, etc shall be deemed to include primer in rebates of sashes to be glazed				
<u>PAINTWORK, ETC TO NEW WORK</u>				
<u>ON FLOATED PLASTER</u>				
<u>One coat primer, one undercoat and two coats pure acrylic emulsion paint</u>				
1	m ²	160		
<u>One coat primer, one undercoat and two coats eggshell enamel paint</u>				
2	m ²	1 969		
3	m ²	274		
<u>One coat primer and Flowseal EPW AF anti fungal epoxy wall coating applied in accordance with manufacturer's instructions</u>				
4	m ²	250		
<u>ON PLASTER BOARD</u>				
<u>One undercoat and two coats 'Dura 50' acrylic emulsion paint</u>				
5	m ²	70		
<u>ON FIBRE-CEMENT</u>				
<u>One undercoat and two coats 'Dura 50' acrylic emulsion paint</u>				
6	m ²	149		
7	m ²	216		
Carried to Collection			R	
				167
				LM 5m

Bill No. 18
Paintwork

	Unit	Quantity	Rate	Amount
8 Cills, etc not exceeding 300mm girth	m	94		
<u>ON METAL</u>				
<u>One coat zink chromate primer, one coat universal undercoat and two coats heavy duty SABS approved enamel paint</u>				
9 General surfaces of fittings	m ²	1		
10 On doors and frames	m ²	151		
11 On mesh screens and frames (both sides measured)	m ²	347		
12 On record room and strongroom doors and frames	m ²	12		
13 On louvre doors and windows	m ²	15		
14 On windows	m ²	73		
15 On gates, grilles, burglar screens, balustrades, etc (both sides measured over the full flat area)	m ²	217		
16 On brackets, rails, etc not exceeding 300mm girth	m	229		
<u>ON WOOD</u>				
<u>One coat sanding sealer and two coats 'Dura 50' acrylic emulsion on</u>				
17 Skirtings, cornices, rails, etc, not exceeding 300mm girth	m	93		
<u>One coat wood primer, one coat undercoat and two coats 'Dulux Silthane Silk' paint on</u>				
18 On doors	m ²	156		
<u>One sealer coat and two coats matt varnish</u>				
19 On doors	m ²	140		
<u>One sealer coat and two coats polyurethane matt varnish</u>				
20 On shelves	m ²	170		
21 On general surfaces of fittings	m ²	2		
22 On slatted benches	m ²	9		
23 On skirtings, rails, etc, not exceeding 300mm girth	m	165		
<u>ON POLYSTYRENE</u>				
<u>One coat acrylic primer and two coats 'Dura 50' acrylic emulsion on</u>				
24 Skirtings, cornices, rails, etc, not exceeding 300mm girth	m	294		
Carried to Collection			R	
				168
				hm

Bill No. 18
Paintwork

SR
5m

BILL NO. 18
PAINTWORK
COLLECTION

New Huku Police Station
Amount

Page No

Brought Forward from Page

99

100

Carried to Summary

R

169

kan

SM

Bill No. 18
Paintwork

Unit Quantity Rate Amount

BILL NO. 19
EXTERNAL WORKS (PROVISIONAL)

NOTE : For all TRADE NAMES and the use of alternative items, refer to Section 3: Specific Preliminaries item C3 NOTE : Shortened descriptions may be used in this Bill. Refer to previous trades for full descriptions

Nature of ground

Description of excavations shall be deemed to include all ground conditions classifiable as earth and where conditions of a more difficult character might be encountered, these are separately measured

Carting away of excavated material

Descriptions of carting away of excavated material shall be deemed to include loading excavated material onto trucks directly from the excavations or, alternatively, from stock piles situated on the building site

Laying, backfilling, bedding, etc of pipes

Pipes shall be laid in accordance with clauses 5.1 and 5.2 of each of the following: SABS 1200L : Medium-pressure pipelines LD : Sewers LE : Stormwater drainage Pipe trenches, etc shall be backfilled in accordance with clauses 3, 5.5, 5.6, 5.7 and 7 of SABS 1200 DB : Earthworks (Pipe trenches) Pipes shall be bedded in accordance with clauses 3.1 to 3.4.1, 5.1 to 5.3 and 7 of SABS 1200 LB : Bedding (Pipes)

Concrete pipes

Pipes shall be jointed with ogee joints with rubber collars or socket and spigot joints with rubber rings

uPVC class 34 drainage pipes

Filling to trenches for pipes shall consist of a 300mm bedding cradle of selected granular material compacted to 90% Mod AASHTO density, selected blanket fill 200mm in depth compacted in 100mm layers to 90% Mod AASHTO density and selected fill from the excavations compacted in 150mm layers to 93% Mod AASHTO density

SITE CLEARANCE ETC

1 Digging up and removing rubbish, debris, vegetation, hedges, shrubs and trees not exceeding 200mm girth, bush, etc

m² 7 178

Carried to Collection

R

Bill No. 19
 External Works (provisional)

170
 ham
 SM

	Unit	Quantity	Rate	Amount
2 Stripping average 150mm thick layer of top soil and depositing material in prescribed stock piles on site	m ²	5 659		
<u>BULK EXCAVATION , FILLING, ETC</u>				
Note: Intermediate material will be classified as soft material for bulk excavations				
<u>Open face excavation in earth over sloping site</u>				
3 Open face excavation over sloping site and haul directly to fill and compact in 150mm layers to 93% modified AASHTO density	m ³	1 699		
4 Open face excavation	m ³	405		
<u>Extra over bulk excavation in earth for excavation in</u>				
5 Soft rock	m ³	170		
6 Hard rock	m ³	255		
<u>Extra over all excavations for carting away</u>				
7 Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor	m ³	179		
<u>Keeping excavations free of water</u>				
8 Keeping excavations free of all water other than subterranean water	Item			
<u>Earth filling supplied by the contractor under building platforms, parking areas, etc</u>				
9 Over site of G9 material in accordance with SANS 1200DM compacted to 90% Mod AASHTO density	m ³	208		
10 Over site of G7 material in accordance with SANS 1200DM compacted to 93% Mod AASHTO density	m ³	900		
11 Over site of G4 material in accordance with SANS 1200DM, Stabalized with 3% OPC, compacted to 97% Mod AASHTO density	m ³	900		
<u>Compaction of surfaces</u>				
12 Compaction of ground surface under building platform including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 90% Mod AASHTO density (100% for sand)	m ²	6 300		
<u>Prescribed density tests on filling</u>				
13 DCP test	No	20		
14 Maximum dry density and optimum moisture content test in accordance with method A7 of TMH 1	No	12		
Carried to Collection			R	
				171
				hm
				Sm

Bill No. 19
External Works (provisional)

	Unit	Quantity	Rate	Amount
15 CBR test in accordance with method A8 of TMH 1	No	8		
<u>BOUNDARY AND RETAINING WALLS</u>				
<u>Earthworks</u>				
<u>SUPPLEMENTARY PREAMBLES</u>				
16 Excavation in earth not exceeding 2m deep for trenches	m ³	257		
17 Excavation in earth not exceeding 2m deep for holes	m ³	430		
18 Risk of collapse to sides of excavations not exceeding 1,5m deep	m ²	1 849		
19 Earth filling obtained from the excavations in backfilling to trenches	m ³	183		
20 Extra over excavations for excavations in soft rock.	m ³	182		
21 Extra over excavations for excavations in hard rock.	m ³	202		
<u>Extra over all excavations for carting away</u>				
22 Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor	m ³	506		
<u>Back excavation of vertical sides of excavations in earth for working space including backfilling compacted to 90% Mod AASHTO density</u>				
23 Exceeding 1.0m and not exceeding 1.5m deep for working space to walls etc., 1000mm away from excavated face	m ²	200		
<u>Reinforced concrete (25MPa/19mm stone)</u>				
24 Strip footings	m ³	109		
25 Bases	m ³	124		
26 Columns in 230 x 230mm brick cavity	m ³	27		
<u>Reinforced concrete (35MPa/19mm stone)</u>				
27 Beams	m ³	1		
28 Slabs	m ³	1		
29 Columns	m ³	0.23		
<u>Formwork to sides and soffits</u>				
30 Beams	m ²	6		
31 Slabs	m ²	1		
32 300mm Circular Columns	m ²	1		

Carried to Collection

R

172

han

SM

Bill No. 19
External Works (provisional)

	Unit	Quantity	Rate	Amount
<u>Mild steel reinforcement to structural concrete work</u>				
33	8mm Diameter bars	Tonnes	1.00	
<u>High tensile steel reinforcement to structural concrete work</u>				
34	12mm Diameter bars	Tonnes	4.80	
<u>Brickwork of NFP bricks in class 11 mortar</u>				
35	Brick piers	m ³	110	
36	Brick piers in foundations	m ³	30	
37	230mm Brick wall	m ²	230	
38	230mm Brick wall in foundations	m ²	615	
39	330mm Brick retaining wall foundations	m ²	100	
<u>2.5mm Galvanised brick reinforcement</u>				
40	150mm Wide reinforcement built in horizontally	m	2 974	
<u>'Corobrik Agate Travertine /Camel Travertine' FBX or similar and approved face bricks pointed with recessed horizontal and vertical joints</u>				
41	Extra over brickwork for face brickwork in stretcher bond.	m ²	437	
42	One brick wall of face brickwork in stretcher bond pointed on both sides.	m ²	282	
43	Brick-on-edge header course coping pointed both faces and 230mm top surface	m	505	
<u>Old World type Mini Pyramid or similar and approved precast concrete copings</u>				
44	500 x 500mm Plain precast coping to top of brickwork	No	76	
45	500 x 500mm Plain precast coping to top of brickwork, with 50mm diameter opening for and including 50mm diameter galvanised pipe, powdercoated in black, on 150 x 150mm baseplate, 500mm long, built 250mm into top of column, to receive light fitting (elsewhere measured)	No	81	
<u>3:1 External cement plaster</u>				
46	On brick walls	m ²	716	
47	On concrete	m ²	6	
Carried to Collection			R	
				173
				km
				SM

Bill No. 19
External Works (provisional)

	Unit	Quantity	Rate	Amount
<u>SPECIALIST PLASTER WALL COVERINGS</u>				
All specialist plaster wall coverings are to be executed in strict accordance with the manufacturer's instructions				
<u>2mm Thick 'Marmoran' PVC resin bonded coating with 3.2mm 'Stone Finish' on plaster</u>				
48	On vertical surfaces	m ²	720	
<u>SUBSOIL DRAINAGE (CPAP WORK GROUP NO. 146)</u>				
<u>Subsoil drainage</u>				
49	Kaytech bidim® grade A5 nonwoven continuous filament needle-punched polyester geotextile with minimum 150mm side and laps installed in trench >2,0m deep with rough sides or sharp drainage stone with high compaction 300mm wide x 300mm high encapsulating 19mm nominal aggregate and Geopipe™ 100mm perforated pipe with HPDE or uPVC couplings including excavation, backfilling excavated material, compaction and disposal of surplus material.	m	172	
<u>Extra over slotted uPVC flexible drainage pipes for fittings</u>				
50	100mm End cap	No	3	
51	100mm Bend	No	10	
<u>PALISADE FENCE</u>				
<u>GALVANISED STEEL</u>				
<u>Classic palisade or similar approved three point fishtail style fencing 1800mm high formed of two 40 x 8mm flat bar mild steel rails with 40 x 40 x 3mm angle section welded on and with ends built into brickwork, filled in with 40 x 40 x 3mm 3 spike angle section mild steel bars at 100mm spacing. Mild steel palisade panels to be double galvanised and factory prepared and painted. Panels to be prepared by cleaning galvanised steel with thoroughly, spray paint surface with an anti-corrosive primer for use over galvanised steel, similar or equal to dulux trade corrocote3 - metal etch primer. Paint with one coat universal undercoat similar or equal to dulux trade. Paint with two final coats high gloss enamel paint, similar or equal to dulux trade gloss 100, colour by architect. All site fixing need to be touched up on site.</u>				
52	Panel 1803mm long	No	1	
53	Panel 2304mm long	No	37	
54	Panel 2351mm long	No	100	
Carried to Collection				
Bill No. 19				
External Works (provisional)				
			R	
				174
				han
				SM

	Unit	Quantity	Rate	Amount
55 Panel 3700mm long Galvanised Gates. Mild steel palisade gates to be double galvanised and factory prepared and painted. Gates to be prepared by cleaning galvanised steel with thoroughly, spray paint surface with an anti-corrosive primer for use over galvanised steel, similar or equal to dulux trade corrocote3 - metal etch primer. Paint with one coat universal undercoat similar or equal to dulux trade. Paint with two final coats high gloss enamel paint, similar or equal to dulux trade gloss 100 , colour by architect . All site fixing need to be touched up on site.	No	10		
56 Single gate 1230 x 2400mm high formed of 100 x 50 x 3mm rectangular hollow section outer frame, middle rail and posts, 50 x 50 x 3mm rectangular hollow section wall posts fixed to brickwork, filled in with 40 x 40 x 3mm angle section 3 spike vertical bars at 100mm spacing including 3 heavy duty bullet hinges, flat plate locking arm with stay	No	1		
57 Double gate 2360 x 2400mm high formed of 100 x 50 x 3mm rectangular hollow section outer frame, middle rail and posts, 50 x 50 x 3mm rectangular hollow section wall posts fixed to brickwork, filled in with 40 x 40 x 3mm angle section 3 spike vertical bars at 100mm spacing including 6 heavy duty bullet hinges, flat plate locking arm with stay	No	4		
58 Double gate 2371 x 2400mm high formed of 100 x 50 x 3mm rectangular hollow section outer frame, middle rail and posts, 50 x 50 x 3mm rectangular hollow section wall posts fixed to brickwork, filled in with 40 x 40 x 3mm angle section 3 spike vertical bars at 100mm spacing including 6 heavy duty bullet hinges, flat plate locking arm with stay	No	1		
59 Sliding gate 6530 x 2400mm high formed of 100 x 50 x 3,5mm rectangular hollow section outer frame and stopped end, 50 x 50 x 3,5mm rectangular hollow section cross bracing and 40 x10mm flat section middel rails, filled in with 40 x 40 x 3mm 3 spike angle section vertical bars at 100mm spacing including track, rollers, etc and casting track into and including unreinforced concrete 20MPa/19mm base size 400 x 200mm thick; setting up gate in position and aligning including gate posts, end stops, sensors, Centurion D10 type gate motor and flat section steel gate motor cage with padlock	No	2		
Carried to Collection				
			R	
				175
				hm
				AS

	Unit	Quantity	Rate	Amount
<u>THE FOLLOWING IN RAMPS AND STEPS</u>				
<u>EXCAVATION, FILLING, ETC</u>				
<u>Excavation in earth not exceeding 2m deep</u>				
60	Trenches	m ³	20	
<u>Extra over all excavations for carting away</u>				
61	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor	m ³	14	
<u>Extra over trench and hole excavations in earth for excavation in</u>				
62	Soft rock	m ³	14	
<u>Risk of collapse of excavations</u>				
63	Sides of trench and hole excavations not exceeding 1,5m deep	m ²	58	
<u>Keeping excavations free of water</u>				
64	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>				
65	Backfilling to trenches, holes, etc	m ³	11	
66	Under floors and paving	m ³	6	
<u>UNREINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u>				
<u>25MPa/19mm concrete</u>				
67	Footings, in foundations (Provisional)	m ³	4	
68	Ramps and Landings (Provisional)	m ³	2	
69	Concrete in steps	m ³	9	
<u>CONCRETE SUNDRIES</u>				
<u>Finishing top surfaces of concrete smooth with a wood float</u>				
70	Ramps	m ²	18	
71	Steps	m ²	5	
Carried to Collection			R	
				176
				LM
				SM

Bill No. 19
External Works (provisional)

	Unit	Quantity	Rate	Amount
<u>SMOOTH FORMWORK (DEGREE OF ACCURACY II)</u>				
<u>Smooth formwork to sides</u>				
72	m	19		
<u>BRICKWORK</u>				
<u>Brickwork of NFP bricks in class 11 mortar</u>				
73	m ²	23		
74	m ²	23		
<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>				
75	m ²	60		
<u>Face brick copings, sills, header courses, etc pointed with recessed joints on all exposed faces</u>				
76	m	19		
<u>BRICKWORK SUNDRIES</u>				
<u>Brickwork reinforcement</u>				
77	m	136		
<u>Stainless steel Handrails</u>				
78	m	19		
<u>FLAG POLES</u>				
79	m ³	4		
80	m ²	24		
81	m ³	2		
82	m ²	8		

Carried to Collection

R

177
hm

SM

Bill No. 19

External Works (provisional)

	Unit	Quantity	Rate	Amount
83 Flagcraft or similar and approved galvanised steel white powder coated fixed flag pole in two parts, 6000 x 101 x 2mm bottom and 6000 x 76 x 2mm top; flag pole with hinged base and complete with all fittings including all ropes, pulleys, cleats and galvanised foundation cage (concrete base elsewhere)	No	2		
<u>GENERATOR SLAB</u>				
<u>Earthworks</u>				
84 Excavate in earth not exceeding 2m deep for reduced levels	m ³	26		
85 Allow for risk of collapse of sides of excavations from ground levels to not exceeding 1,5m deep	m ²	15		
86 Prepare reduced ground levels by ripping and breaking up thoroughly for a depth of 150mm and compacting to 93 % modified AASHTO density	m ²	51		
<u>Prescribed density tests on filling</u>				
87 Modified AASHTO density test	No	1		
<u>Reinforced concrete (30 MPa/19)</u>				
88 Surface beds laid in panels	m ³	15		
89 Strike off and cure top surfaces of surface beds to slight falls including steel trowelled to true and even surfaces	m ²	51		
90 Saw-cut 3 x 70mm deep in top of concrete surface bed,	m	15		
<u>Formwork</u>				
91 Rough formwork to edges not exceeding 300mm high or wide	m	9		
<u>Reinforcement</u>				
92 Welded steel fabric reinforcement Ref. 245 in concrete surface beds with not less than 150mm wide laps	m ²	103		
<u>CARPORTS</u>				
<u>Earthworks</u>				
93 Excavation in earth not exceeding 2m deep for holes	m ³	11		
94 Risk of collapse to sides of excavations not exceeding 1,5m deep	m ²	26		
95 Earth filling obtained from the excavations in backfilling to trenches	m ³	5		
<u>Reinforced concrete (25MPa/19mm stone)</u>				
96 Bases	m ³	6		
Carried to Collection			R	
				178
				hm
				SM

Bill No. 19

External Works (provisional)

	Unit	Quantity	Rate	Amount
<u>0.58mm 'Brownbuilt IBR' or similar and approved galvanised ribbed sheet steel with 'Global' finish on both sides in single lengths fixed to timber/steel purlins or rails</u>				
97	m ²	477		
<u>Roof covering with pitch not exceeding 25 degrees</u>				
<u>Welded steel framework, etc</u>				
98	Tonnes	1.27		
99	Tonnes	3.01		
100	Tonnes	1.81		
101	Tonnes	1.33		
<u>One coat zink chromate primer, one coat universal undercoat and two coats heavy duty SABS approved enamel paint</u>				
102	m ²	600		
<u>On carport steel surfaces</u>				
<u>STORMWATER CHANNELS</u>				
<u>In-situ concrete channels, chutes, etc</u>				
103	m ³	51		
104	m ²	145		
105	m ³	23		
106	m ²	314		
107	m	161		
108	m ²	280		
109	No	7		
Carried to Collection				
			R	
				179
				hmr
				SB 5m

Bill No. 19
External Works (provisional)

	Unit	Quantity	Rate	Amount
<u>Precast concrete channels</u>				
110				
395 x 170mm Channels with 230 x 150mm deep segmental channel	m	481		
111				
Extra for angles, intersections, ends, dressing into sides of catchpits, etc	No	57		
<u>STORMWATER DRAINAGE</u>				
<u>uPVC Class 9 pipes</u>				
112				
250mm Pipes including excavations not exceeding 1m deep	m	138		
<u>Extra over uPVC pipes for fittings</u>				
113				
250mm Bend	No	8		
<u>uPVC Class 6 agricultural pipes</u>				
114				
100mm perforated pipe laid in filling	m	27		
<u>Class 75D concrete pipes</u>				
115				
300mm Concrete pipe laid in filling	m	132		
116				
450mm Concrete pipe laid in filling	m	57		
117				
750mm Concrete pipe laid in filling under roads	m	11		
<u>Manholes, catchpits, kerb inlets, etc</u>				
118				
Stormwater catchpit size 600 x 600mm not exceeding 750mm deep internally all as typical detail of stormwater catchpit included in these Bills of Quantities	No	18		
119				
Stormwater catchpit size 600 x 600mm exceeding 750mm not exceeding 1500mm deep internally all as typical detail of stormwater catchpit included in these Bills of Quantities	No	3		
120				
Stormwater grease & oil trap size 1700 x 900mm not exceeding 750mm deep internally, with and including 45 x 45 x 5mm angle frame, cast into concrete and 40 x 40 x 4.5mm banded open grating, all as typical detail included in these Bills of Quantities	No	2		
<u>Gratings, covers, etc</u>				
121				
600 x 600mm Cast iron dished grating and frame as Saint Gobain Type 2952 or similar and approved	No	29		
<u>SOIL DRAINAGE</u>				
<u>uPVC Class 34 pipes</u>				
122				
50mm Pipes to wall	m	48		
Carried to Collection			R	
				180
				LM
				SM

Bill No. 19
External Works (provisional)