

	Unit	Quantity	Rate	Amount
<p><b><u>Labour Intensive</u></b></p> <p>Tenderers are to note well that specific items within these Bills of Quantities have been designated as LABOUR INTENSIVE by the addition of the aforementioned words in uppercase at the end of the description for the said item. Where items have been designated as being LABOUR INTENSIVE as described, pricing shall be deemed to include for the carrying out to completion of said item on site by means and methods that rely predominantly on manual labour. As such, no claims shall be entertained regarding any additional time or monetary costs incurred by the use of LABOUR INTENSIVE methods. Further, the Contractor is to note that contravention of the above i.e. use of mechanised systems to carry out LABOUR INTENSIVE work as hereinafter designated, will be viewed and dealt with in an extremely serious light by the Client, as it remains a national imperative to develop, employ and provide skills through the Extended Public Works Programme.</p>				
<p><b><u>FLOOR COVERINGS</u></b></p> <p>Floor coverings, wall linings, etc. shall, where applicable, be fixed with adhesive as recommended by the manufacturer's of the flooring, linings, etc.</p>				
<p><b><u>Drawings:</u></b></p> <p>Tenderers are to note that where descriptions include reference drawings which form part of the tender documentation, notwithstanding anything contained in the description, tenderers are to price these items in accordance with the drawings. Further, the onus is on the tenderer to ensure that all relevant drawings referenced in the Bills of Quantities are included in the tender documents. No further time or monetary claims resulting from any of the above will be entertained.</p>				
<p><b><u>" Floorworx" 'Flotex - Dakota' or other approved flocked type carpeting supplied and installed complete in sheets 30m long x 2m wide x 4.3mm thick with edges butt jointed, laid on and including "Floorworx No. 60Plus" or other approved acrylic adhesive, colour to be Anthracite (Code FCD 345187), all fixed in strict accordance with the manufacturer's instructions.</u></b></p>				
1	On floors etc	m <sup>2</sup>	584	
Carried to Collection				R
Bill No. 9				
Floor Coverings				

Amount

**BILL NO. 9**  
**FLOOR COVERINGS**  
**COLLECTION**

Page No

Brought Forward from Page

80

81

Carried to Summary

R

Unit      Quantity      Rate      Amount

**BILL NO. 10**  
**IRONMONGERY**

The bidder is referred to the relevant clauses in the construction works general specifications (PW 371 A), to the Architectural and Structural/Civil Engineering specifications documents, to the drawings (which are to be read in conjunction with the architectural specification), and to all general and project-specific specifications as contained in the complete Bid Documents. Bidders are thus urged to study these documents as rates will be deemed to be inclusive of all requirements as included in same. Further, should any discrepancy be noted between these Bills of Quantities and the Specifications, the Specifications shall take precedence.

Further to the above, Bidders are to note that the latest edition of SANS 10400, current at the time of the tender will form part of the specifications to this contract and as such, pricing shall be deemed to include for complete conformance in all respects to the requirements of SANS 10400.

**SUPPLEMENTARY PREAMBLES**

**Working at Heights:**

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

Carried to Collection

R

	Unit	Quantity	Rate	Amount
<b><u>Labour Intensive</u></b>				
<p>Tenderers are to note well that specific items within these Bills of Quantities have been designated as LABOUR INTENSIVE by the addition of the aforementioned words in uppercase at the end of the description for the said item. Where items have been designated as being LABOUR INTENSIVE as described, pricing shall be deemed to include for the carrying out to completion of said item on site by means and methods that rely predominantly on manual labour. As such, no claims shall be entertained regarding any additional time or monetary costs incurred by the use of LABOUR INTENSIVE methods. Further, the Contractor is to note that contravention of the above i.e. use of mechanised systems to carry out LABOUR INTENSIVE work as hereinafter designated, will be viewed and dealt with in an extremely serious light by the Client, as it remains a national imperative to develop, employ and provide skills through the Extended Public Works Programme.</p>				
<b><u>Finishes to ironmongery</u></b>				
<p>Where applicable finishes to ironmongery are indicated by suffixes in accordance with the following list: BS Satin bronze lacquered CH Chromium plated SC Satin chromium plated SE Silver enamelled GE Grey enamelled AN Anodised natural AS Anodised silver AB Anodised bronze AG Anodised gold ABL Anodised black PB Polished brass PL Polished and lacquered PT Epoxy coated SD Sanded</p>				
<b><u>Drawings</u></b>				
<p>Tenderers are to note that where descriptions include reference drawings which form part of the tender documentation, notwithstanding anything contained in the description, tenderers are to price these items in accordance with the drawings. Further, the onus is on the tenderer to ensure that all relevant drawings referenced in the Bills of Quantities are included in the tender documents. No further time or monetary claims resulting from any of the above will be entertained.</p>				
<b><u>HINGES, FLOOR SPRING HINGES, BOLTS, PANIC BOLTS, ETC.</u></b>				
<b><u>"Union" or other approved</u></b>				
1	"Ref JH-BB-STD-2-SS" Butt Hinge (D1,D4,D5,D6,D7,D8,D14,D18,D19,D22,D23,D30,D31)	No	369	
2	"Ref 8852SC" Dust Proof Strike (D1,D28,D32)	No	6	
3	"Ref AL8208-150AS" Flush Bolt (D1,D4)	No	24	
4	"Ref AL8208-225AS" 225mm Flush Bolt (D28,D32)	No	3	
Carried to Collection			R	
Bill No. 10				
Ironmongery				

		Unit	Quantity	Rate	Amount
5	"Ref 37651AS" Facility Indicator Bolt (D19)	No	3		
6	"Ref AL-EXT-600AS" 600mm Extension Kit (D2, D21,D25,D26)	No	19		
7	"Ref J-882-SIL" Single P/Bolt P/Bar 900mm (D10)	No	1		
	<b><u>CATCHES, CABIN HOOKS, ETC.</u></b>				
	<b><u>"Union" or other approved:</u></b>				
8	"Ref SP(33)EREBUS 01" Heavy Duty roller catches (D4)	No	24		
	<b><u>LOCKS</u></b>				
	<b><u>"Union" or other approved:</u></b>				
9	"Ref L-2115-78SS" Stainless steel Euro-profile Cylindrical Deadlock (D1,D4,D5,D6,D28,D32)	No	48		
10	"Ref SS5306-05SS" Square Europrofile Escutcheon (D1,D4,D5,D18,D32)	No	12		
11	"Ref 2915SC" 2915 Rebate Set (D1)	No	15		
12	"Ref M2X20AISCGMK" euro profile interactive half cylinder (D1,D4,D5,D18,D32)	No	29		
13	"Ref 2X20SCKA" profile cylinder (D6)	No	16		
14	"Ref 2X20SC" profile cylinder (D10)	No	1		
15	"Ref M2X18AISCGMK" euro profile interactive double cylinder (D2,D5,D8,D18,D21,D22,D23,D25,D26,D28,D30,D31,D32, G1,G2,G3,G4)	No	168		
16	"Ref L-2115-78SS/R" Mortice roller latch deadlock (D5,D8,D18,D22,D23,D30,D31)	No	112		
17	"Ref L-2115-78SS/SL" Mortice sash lock (D5,D10,D23)	No	11		
18	"Ref SS5306-05SS" Stainless steel square Euro-profile Escutcheon (D2,D5,D8,D18,D21,D22,D23,D25,D26,D30,D31)	No	160		
19	"Ref 21314-76SS" 8mm WC Deadlock (D6,D7,D18)	No	38		
20	"Ref 4211305NM" Deadbolt lock (D2, D21, D25, D26)	No	19		
21	"Ref SS5004-73SS" Bathroom Rose Escutcheon (D6,D7,D18)	No	38		
22	"Ref 2915SC" 2915 Rebate Set (D28, D32)	No	3		
23	"Ref M2X19AISCGMK" Euro profile interactive Turn Knob cylinder ( D10)	No	1		
	Carried to Collection			R	
	Bill No. 10				
	Ironmongery				

		Unit	Quantity	Rate	Amount
24	"Ref EDS-EL502" Electric lock for wooden door (D5,D14,D22,D23)	No	11		
25	"Ref EDS-K1-1" No touch exit button (D14,D16)	No	12		
26	"Ref EL404" Abloy Solenoid Lock without Cylinder with adjustable backset (25,30 &35mm) (D16)	No	1		
27	"Ref MTLB36SCLAI" Tesa Multi-block Lock (D17)	No	2		
	<b><u>Specialist cell door and gate locks:</u></b>				
28	Locks and lockboxes supplied by SAPS Logistics (P.C Amount of R5500.00/each) built and fixed to cell doors and gates (cell doors and gates elsewhere measured). Rates to include for delivery, storage, handling, labour, building in, welding in position, etc.	No	12		
	<b><u>HANDLES, FLUSH PULLS, ETC.</u></b>				
	<b><u>"Union" or other approved:</u></b>				
29	"Ref 520286-400BBSS" 30 x 400mm back to back Kinglet Square Pull Handle (D5,D8,D16,D18,D22,D23,D30,D31)	No	132		
30	"Ref 500286-200BTSS" 22 x 200mm Kinglet Square Pull Handle (D1,D4,D5, D18,D32)	No	42		
31	"Ref 5002862-200BTSS" 22 x 200mm Kinglet Square Pull Handle	No	24		
32	"Ref 500286-400BBSS" 30 x 400mm Kinglet Square Pull Handle (D2,D21,D25,D26)	No	44		
33	"Ref SS5D96-22-06SS" Dove Pull Handle on and including 228x152mm backplate. (D6)	No	16		
34	"Ref SS5D63-06SS" Dove Pull Handle on and including 157x75mm backplate. (D6,D7,D18)	No	38		
35	"Ref PHD-CF-300-22SS" Stainless Steel 300mm pull handle flange fixed (D19)	No	6		
36	"Ref SS5004SS" Flush pull handle (D4)	No	24		
37	"Ref AL8208-180AS/MD" Aluminium Flush bolts for metal door (D2,D21,D25,D26)	No	38		
38	"Ref AL8208-180AS" Aluminium Flush bolts for metal door (D28,D32)	No	3		
39	"Ref 6463-05SS" 6104 handle on plate profile (D5,D10,D23)	No	11		
40	"Ref J-885-SIL" Outside Access Device (D10)	No	1		
	Carried to Collection			R	
	Bill No. 10				
	Ironmongery				

	Unit	Quantity	Rate	Amount
<b><u>PUSH PLATES AND KICK PLATES</u></b>				
<b><u>"Union" or other approved:</u></b>				
41	No	8		
42	No	8		
43	No	38		
44	No	6		
<b><u>DOOR CLOSERS</u></b>				
45	No	155		
46	No	14		
47	No	3		
48	No	39		
49	No	2		
<b><u>LETTERS, NAMEPLATES, ETC.</u></b>				
<b><u>"Union" or other approved:</u></b>				
50	No	12		
51	No	12		
52	No	18		
53	No	9		
54	No	3		
55	No	11		
56	No	5		
57	No	2		
58	No	1		
Carried to Collection			R	
Bill No. 10 Ironmongery				

	Unit	Quantity	Rate	Amount
<b><u>SUNDRIES</u></b>				
<b><u>"Union" or other approved:</u></b>				
59	"Ref CZ8731SC" Door Stop (D5,D6,D8,D14,D18,D22,D23,D30,D31)	No	157	
60	"Ref SS8025SS" Hat and Coat Hook with Buffer (D6,D7,D18,D19)	No	41	
61	"Ref AL8722AS" Coat Hook	No	44	
<b><u>3mm Thick black perspex backing board to fire signage with and including all mountings, fixings, brackets, etc.</u></b>				
62	220 x 220 x 3mm Thick perspex board	No	120	
63	220 x 414 x 3mm Thick perspex board	No	60	
64	220 x 608 x 3mm Thick perspex board	No	45	
65	220 x 802 x 3mm Thick perspex board	No	30	
<b><u>BATHROOM FITTINGS</u></b>				
The following bathroom fittings are to be manufactured from satin finished grade 304 18/10 stainless steel, and are to be 1.5mm thick unless otherwise stated.				
All stainless steel bathroom fittings as measured below are to be finished in "InoxPlus" or other approved anti-fingerprint surface treatment.				
Prices for the following bathroom fittings are to include for all costs related to mounting, fitting, fixing and adjusting with approved fixings, mountings, etc. to the approval of the Principal Agent and in strict accordance with the manufacturer's instructions.				
<b><u>"Franke" or other approved:</u></b>				
66	118Øx110mm Security type Recessed type toilet roll holder (Product code: 2120037), manufactured from Grade 304 (18/10) Stainless Steel, bolted to walls with and including 20mm flange and 2no. M10 x 220mm long threaded rods and including holing for bolts,etc.	No	12	
67	Recessed Double Toilet Roll Holder with Spindle STRX672E (Product code: 2120046). with Stainless Steel; satin finish with surface treatment - InoxPlus (anti fingerprint) with and including "Franke" or other approved cylinder lock and standard key, unit to be recessed 90mm into wall and plugged and screwed with and including approved stainless steel screws.	No	44	
Carried to Collection			R	
Bill No. 10 Ironmongery				



		Unit	Quantity	Rate	Amount
68	Paper towel dispenser Stratos STRX600E (Product Code: 2120039) for wall mounting with stainless steel satin finish, with and including "Franke" or other approved cylinder lock and standard key, unit to be plugged and screwed to walls.	No	34		
69	Soap Dispenser RODX619E (Product Code: 2120096), manufactured from Grade 304 1,2/1,5mmStainless Steel, satin finish with surface treatment - InoxPlus (anti fingerprint), with and including reusable 1 litre container and "Franke" or other approved cylinder lock and standard key, unit to be plugged and screwed to walls.	No	34		
70	Waste Bin STRX605 Surface mounted waste bin (Product code: 2120098); manufactured from Grade 304 1,2/1,5mm Stainless Steel, satin finished with surface treatment - InoxPlus (anti fingerprint), with and including "Franke" or other approved cylinder lock and standard key, unit to be plugged and screwed to walls.	No	49		
<b><u>GRAB RAILS</u></b>					
Note: All grab rails and side rails are to be of grade 304 stainless steel.					
<b><u>"Franke" or other approved:</u></b>					
71	490 x 95mm Model CNTX 450 Cistern Back rail (Product code: 2510003) or other approved straight grab rail manufactured from 18/10 grade 304 stainless steel, with and including satin finish to prevent slipping and with 31.8mm diameter including screws and dowels in accordance with the manufacturer's instructions.	No	3		
72	618x95x256mm Model CNTX700A 135 degrees angle bar grab rail (Product code: 2510007) or other approved angle grab rail manufactured from 18/10 grade 304 stainless steel, with and including satin finish to prevent slipping and with 31.8mm diameter including screws and dowels in accordance with the manufacturer's instructions.	No	3		
<b><u>BLINDS</u></b>					
<b><u>"Windovert, Vibe Orient" or other approved (Charcoal), vertical blind with and including 46mm x 25mm high black powder-coated top track, fixed inside reveal with "easy clips" and installed in strict accordance with the manufacturer's instructions:</u></b>					
73	Blind to suit opening size 1200mm wide x 1982mm high (W2).	No	3		
74	Blind to suit opening size 600mm wide x 1982mm high (W3).	No	1		
Carried to Collection				R	
Bill No. 10					
Ironmongery					

		Unit	Quantity	Rate	Amount
75	Blind to suit opening size 4605mm wide x 663mm high (W6).	No	1		
76	Blind to suit opening size 1200mm wide x 1200mm high (W8).	No	2		
77	Blind to suit opening size 1200mm wide x 3120mm high (W9).	No	1		
78	Blind to suit opening size 1200mm wide x 2865mm high (W10).	No	7		
79	Blind to suit opening size 1000mm wide x 2865mm high (W11).	No	3		
80	Blind to suit opening size 1000mm wide x 1433mm high (W12).	No	4		
81	Blind to suit opening size 800mm wide x 2865mm high (W14).	No	2		
82	Blind to suit opening size 600mm wide x 2865mm high (W14.1).	No	4		
83	Blind to suit opening size 3400mm wide x 716mm high (W15).	No	1		
84	Blind to suit opening size 5220mm wide x 716mm high (W16).	No	1		
85	Blind to suit opening size 13545mm wide x 716mm high (W17).	No	1		
86	Blind to suit opening size 1625mm wide x 2865mm high (W18).	No	1		
87	Blind to suit opening size 1800mm wide x 2865mm high (W19).	No	1		
88	Blind to suit opening size 1200mm wide x 2950mm high (W23).	No	27		
89	Blind to suit opening size 1000mm wide x 2349mm high (W24).	No	5		
90	Blind to suit opening size 1000mm wide x 2950mm high (W25).	No	2		
91	Blind to suit opening size 1200mm wide x 2440mm high (W26).	No	5		
92	Blind to suit opening size 600mm wide x 2440mm high (W27).	No	10		
93	Blind to suit opening size 800mm wide x 1475mm high (W28).	No	4		
	Carried to Collection			<b>R</b>	
	Bill No. 10				
	Ironmongery				

		Unit	Quantity	Rate	Amount
94	Blind to suit opening size 1450mm wide x 1200mm high (W31).	No	4		
95	Blind to suit opening size 2130mm wide x 1200mm high (W32).	No	3		
96	Blind to suit opening size 20160mm wide x 2950mm high (W33).	No	1		
97	Blind to suit opening size 8190mm wide x 2950mm high (W34).	No	2		
98	Blind to suit opening size 3405mm wide x 2950mm high (W35).	No	1		
99	Blind to suit opening size 3510mm wide x 2950mm high (W36).	No	3		
100	Blind to suit opening size 2370mm wide x 2950mm high (W37).	No	2		
101	Blind to suit opening size 3990mm wide x 2950mm high (W38).	No	1		
102	Blind to suit opening size 3060mm wide x 2950mm high (W39).	No	1		
103	Blind to suit opening size 600mm wide x 2950mm high (W40).	No	3		
104	Blind to suit opening size 2560mm wide x 2950mm high (W41).	No	1		
105	Blind to suit opening size 2444mm wide x 2950mm high (W42).	No	1		
106	Blind to suit opening size 3210mm wide x 2950mm high (W43).	No	2		
107	Blind to suit opening size 20160mm wide x 2950mm high (W45).	No	1		
108	Blind to suit opening size 2495mm wide x 2950mm high (W46).	No	4		
109	Blind to suit opening size 2540mm wide x 2950mm high (W47).	No	2		
110	Blind to suit opening size 1595mm wide x 2950mm high (W48).	No	1		
111	Blind to suit opening size 900mm wide x 2950mm high (W49).	No	2		
112	Blind to suit opening size 2415mm wide x 1200mm high (W50).	No	2		
	Carried to Collection				R
	Bill No. 10				
	Ironmongery				

		Unit	Quantity	Rate	Amount
113	Blind to suit opening size 1200mm wide x 1100mm high (W51).	No	4		
114	Blind to suit opening size 8050mm wide x 1100mm high (W52).	No	3		
115	Blind to suit opening size 600mm wide x 2950mm high (W54).	No	8		
116	Blind to suit opening size 4115mm wide x 2720mm high (W55).	No	1		
117	Blind to suit opening size 1200mm wide x 2185mm high (W56).	No	21		
118	Blind to suit opening size 600mm wide x 2185mm high (W57).	No	5		
119	Blind to suit opening size 8190mm wide x 2185mm high (W58).	No	1		
120	Blind to suit opening size 11580mm wide x 2185mm high (W59).	No	1		
121	Blind to suit opening size 4440mm wide x 2185mm high (W60).	No	1		
122	Blind to suit opening size 900mm wide x 2185mm high (W61).	No	1		
123	Blind to suit opening size 1595mm wide x 2185mm high (W62).	No	1		
124	Blind to suit opening size 2495mm wide x 2185mm high (W63).	No	2		
125	Blind to suit opening size 600mm wide x 2185mm high (W64).	No	1		
126	Blind to suit opening size 3210mm wide x 2185mm high (W65).	No	1		
127	Blind to suit opening size 800mm wide x 1200mm high (W66).	No	3		
128	Blind to suit opening size 990mm wide x 1200mm high (W67).	No	4		
129	Blind to suit opening size 2415mm wide x 1200mm high (W68).	No	1		
130	Blind to suit opening size 1450mm wide x 1200mm high (W69).	No	2		
131	Blind to suit opening size 8050mm wide x 715mm high (W70).	No	3		
	Carried to Collection				R
	Bill No. 10				
	Ironmongery				

		Unit	Quantity	Rate	Amount
132	Blind to suit opening size 600mm wide x 2865mm high (W72).	No	2		
133	Blind to suit opening size 2130mm wide x 1500mm high (W73).	No	1		
134	Blind to suit opening size 3195mm wide x 1500mm high (W74).	No	1		
<b><u>SHELVES ETC</u></b>					
<b><u>Supply and install "First Storage Concepts" or other approved modular free standing steel shelving units with standard powder coated finish, including heavy duty uprights, bracing etc. complete with 4no. steel powder coated shelves fixed to the floor with and including galvanised fixing bolts complete all as per architect's drawings No. 1010.16-SMC-DT-5301, 5310, 5311 and 5312.</u></b>					
135	Adjustable shelving unit size 1800 x 450 x 2400mm high	No	49		
<b><u>STEEL LOCKERS</u></b>					
<b><u>"Steel Deal" or other approved Powder coated lockers:</u></b>					
136	Two Compartment lockers (Colour: Black) overall size 300mm x 450mm x 1800mm high with and including hasp & staple for padlock, plugged and screwed to walls with and including approved fixings.	No	10		
				Carried to Collection	R
Bill No. 10					
Ironmongery					

Amount

**BILL NO. 10**  
**IRONMONGERY**  
**COLLECTION**

Page No

Brought Forward from Page

83

84

85

86

87

88

89

90

91

92

93

Carried to Summary

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	Unit	Quantity	Rate	Amount
<p><b><u>BILL NO. 11</u></b>  <b><u>STRUCTURAL STEELWORK</u></b></p> <p>The bidder is referred to the relevant clauses in the construction works general specifications (PW 371 A), to the Architectural and Structural/Civil Engineering specifications documents, to the drawings (which are to be read in conjunction with the architectural specification), and to all general and project-specific specifications as contained in the complete Bid Documents. Bidders are thus urged to study these documents as rates will be deemed to be inclusive of all requirements as included in same. Further, should any discrepancy be noted between these Bills of Quantities and the Specifications, the Specifications shall take precedence.</p> <p>Further to the above, Bidders are to note that the latest edition of SANS 10400, current at the time of the tender will form part of the specifications to this contract and as such, pricing shall be deemed to include for complete conformance in all respects to the requirements of SANS 10400.</p> <p><b><u>SUPPLEMENTARY PREAMBLES</u></b></p> <p><b><u>Working at Heights:</u></b></p> <p>Tenderers are to note that the work to be undertaken may require all necessary scaffolding, due to the heights of the structures to be constructed/ altered. Tenderers are to therefore price accordingly as rates will be deemed to include for same and No further claims in regard to all necessary scaffolding in the completion of the scope of works will be entertained.</p>				
Carried to Collection			R	
<p>Bill No. 11                  Structural Steelwork</p>				

	Unit	Quantity	Rate	Amount
<p><b><u>Labour Intensive</u></b></p> <p>Tenderers are to note well that specific items within these Bills of Quantities have been designated as LABOUR INTENSIVE by the addition of the aforementioned words in uppercase at the end of the description for the said item. Where items have been designated as being LABOUR INTENSIVE as described, pricing shall be deemed to include for the carrying out to completion of said item on site by means and methods that rely predominantly on manual labour. As such, no claims shall be entertained regarding any additional time or monetary costs incurred by the use of LABOUR INTENSIVE methods. Further, the Contractor is to note that contravention of the above i.e. use of mechanised systems to carry out LABOUR INTENSIVE work as hereinafter designated, will be viewed and dealt with in an extremely serious light by the Client, as it remains a national imperative to develop, employ and provide skills through the Extended Public Works Programme.</p>				
<p><b><u>Descriptions</u></b></p> <p>Descriptions of bolts shall be deemed to include nuts and washers</p> <p>Descriptions of L-shaped and U-shaped anchor bolts shall be deemed to include bending, threading, nuts and washers and embedding in concrete</p> <p>Descriptions of expansion anchors and bolts and chemical anchors and bolts shall be deemed to include nuts, washers and mortices in brickwork or concrete</p>				
<p><b><u>Structural Steelwork:</u></b></p> <p>Certificates confirming the grade stress of all steelwork and bolts specified is to be submitted to the Engineer on completion.</p> <p>Two sets of fabrication drawings are to be provided to the Engineer for approval prior to commencement of fabrication.</p> <p>Galvanising certificate for all steelwork is to be issued to the Engineer upon completion of galvanising.</p> <p>All steelwork to be hot dipped galvanised to ISO 1461 or EN 10240, unless otherwise stated.</p> <p>Descriptions of expansion anchors and bolts and chemical anchors and bolts shall be deemed to include nuts, washers and mortices in brickwork or concrete</p>				
<p><b><u>Hot dipped galvanising:</u></b></p> <p>Where possible all welds to galvanised steelwork shall be completed before galvanising.</p>				
			Carried to Collection	R
<p>Bill No. 11 Structural Steelwork</p>				



	Unit	Quantity	Rate	Amount
<p>Unless otherwise stated, all steelwork described as galvanised shall be deemed to include for 'hot-dip' galvanising in accordance with the latest SANS standards.</p> <p>The mass of hot dip galvanised steelwork has been calculated on the mass before galvanising for which allowance must be made in the pricing.</p> <p><b><u>Drawings:</u></b></p> <p>Tenderers are to note that where descriptions include reference drawings which form part of the tender documentation, notwithstanding anything contained in the description, tenderers are to price these items in accordance with the drawings. Further, the onus is on the tenderer to ensure that all relevant drawings referenced in the Bills of Quantities are included in the tender documents. No further time or monetary claims resulting from any of the above will be entertained.</p> <p><b><u>HOT DIPPED GALVANISED STEEL COLUMNS AND BEAMS ETC (PROVISIONAL)</u></b></p> <p><b><u>Hot dipped galvanised welded beams, columnn etc. in single lengths with flat bearer and connection plates, bolted to concrete and steel per Engineer's drawing no. 201, 202</u></b></p>				
1	Tonnes	2.89		
2	Tonnes	1.45		
3	Tonnes	1.28		
4	Tonnes	12.53		
<p><b><u>HOT DIPPED GALVANISED STEEL TRUSSES (PROVISIONAL)</u></b></p> <p><b><u>Hot dipped galvanised welded roof trusses of angle rafters, tie beams, rails, struts, braces, cleats, etc and flat bearer, gusset and connection plates, bolted to steel as per Engineer's drawing no. 200 and 203</u></b></p>				
5	Tonnes	1.08		
6	Tonnes	1.14		
7	Tonnes	0.24		
8	Tonnes	0.17		
			Carried to Collection	R
Bill No. 11				
Structural Steelwork				

	Unit	Quantity	Rate	Amount
<b><u>Hot dipped galvanised welded roof trusses of angle rafters, tie beams, rails, struts, braces, cleats, etc and flat bearer, gusset and connection plates, bolted to steel per Engineer's drawing no. 201, 202 and 203</u></b>				
9	Monopitched truss type 4 : 6.5 x 1.4m high extreme (In No 6)	Tonnes	1.25	
10	Monopitched truss type 5 : 3.6 x 1.4m high extreme (In No 4)	Tonnes	0.46	
11	Monopitched truss type 8 : 7.9 x 1.5m high extreme (In No 6)	Tonnes	1.46	
12	Monopitched truss type 3 : 6.89 x 1.42m high extreme (In No 1)	Tonnes	0.22	
13	Monopitched truss type 6 : 7.18 x 1.02m high extreme (In No 4)	Tonnes	0.84	
14	Monopitched truss type 7 : 6.89 x 1.42m high extreme (In No 5)	Tonnes	1.12	
15	Monopitched truss type 9 : 7.24 x 1.42m high extreme (In No 4)	Tonnes	0.82	
16	Monopitched truss type H2 : 9.44 x 1.42m high extreme (In No 1)	Tonnes	0.27	
17	Monopitched truss type H3 : 9.28 x 1.42m high extreme (In No 1)	Tonnes	0.28	
18	Monopitched truss type H4 : 9.28 x 3.42m high extreme (In No 1)	Tonnes	0.28	
19	Monopitched truss type H5 : 4.55 x 0.98m high extreme (In No 3)	Tonnes	0.40	
20	Monopitched truss type H6 : 4.55 x 0.98m high extreme (In No 1)	Tonnes	0.13	
21	Monopitched truss type H7 : 4.55 x 0.98m high extreme (In No 2)	Tonnes	0.27	
<b><u>HOT DIPPED GALVANISED STEEL PURLINS, GIRTS, BRACING, ETC</u></b>				
<b><u>Hot dipped galvanised Purlins and girts, bolted to steel</u></b>				
22	125 x 65 x 20 x 2.5mm Thick cold-formed lipped channel purlins.	Tonnes	5.42	
23	60 x 60 x 5 AE Cross Bracing	Tonnes	1.23	
Carried to Collection			R	
Bill No. 11 Structural Steelwork				



Amount

**BILL NO. 11**

**STRUCTURAL STEELWORK**

**COLLECTION**

Page No

Brought Forward from Page

95

96

97

98

99

Carried to Summary

R

Unit      Quantity      Rate      Amount

**BILL NO. 12**  
**METALWORK**

The bidder is referred to the relevant clauses in the construction works general specifications (PW 371 A), to the Architectural and Structural/Civil Engineering specifications documents, to the drawings (which are to be read in conjunction with the architectural specification), and to all general and project-specific specifications as contained in the complete Bid Documents. Bidders are thus urged to study these documents as rates will be deemed to be inclusive of all requirements as included in same. Further, should any discrepancy be noted between these Bills of Quantities and the Specifications, the Specifications shall take precedence.

Further to the above, Bidders are to note that the latest edition of SANS 10400, current at the time of the tender will form part of the specifications to this contract and as such, pricing shall be deemed to include for complete conformance in all respects to the requirements of SANS 10400.

**SUPPLEMENTARY PREAMBLES**

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

**Labour Intensive**

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

Carried to Collection

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Bill No. 12  
Metalwork

	Unit	Quantity	Rate	Amount
<p><b><u>Descriptions:</u></b></p> <p>Descriptions of bolts shall be deemed to include nuts and washers.</p> <p>Descriptions of expansion anchors and bolts and chemical anchors and bolts shall be deemed to include nuts, washers and mortices in brickwork or concrete.</p> <p><b><u>Hot dipped galvanising:</u></b></p> <p>The mass of hot dip galvanised steelwork has been calculated on the mass before galvanising and no allowance has been made for the additional mass of galvanising for which allowance must be made in pricing.</p> <p>Unless otherwise stated, all steelwork described as galvanised shall be deemed to include for 'hot-dip' galvanising in accordance with the latest SANS standards.</p> <p><b><u>Welded joints and intersections:</u></b></p> <p>Prices of continuous hollow section and solid section shall include for welded joints in the length and prices of intersections shall include for all cutting, mitering, scribing, shaping, welding, bends, knees, ramps, etc.</p> <p>Prices of balustrades, burglar guards and the like shall include for framed and welded joints and intersections.</p> <p><b><u>Screws and bolts:</u></b></p> <p>Screws and bolts shall be of corresponding metal and colour and heads of screws shall be countersunk. Self-tapping screws shall, unless otherwise described, be used for screwing items to adjoining metalwork. Stainless steel screws shall be used for fixing aluminium. Items fixed to adjoining metalwork with rivets, self-tapping screws, set screws, machine screws, etc. , shall include for all necessary drilling.</p> <p>Where bolting is specified, projecting shank ends of bolts shall be cut flush and left smooth.</p> <p><b><u>Powdercoated aluminium windows, doors, etc.:</u></b></p> <p>Powdercoating to doors, windows, gates, etc. shall be minimum 25 microns thick, manufactured and installed in accordance with good building practice and in terms of the latest code of practice with revisions as recommended by the SANS and AAAMSA.</p> <p>Items shall be manufactured by an approved specialist who shall provide a sample upon request, for approval by the Principal Agent.</p> <p>Tenderers are advised to refer to the architects window and door schedules.</p>				
<p>Carried to Collection</p>			<p>R</p>	
<p>Bill No. 12 Metalwork</p>				

	Unit	Quantity	Rate	Amount
<p>Tenderers are to note that should there be any doubt or obscurity as to the meaning and intent of any descriptions, the contractor must have the same rectified and allow for accordingly in his tender. The contractor is to include in the rates for all that he/she considers necessary for the proper construction of the windows and doors. No claims whatsoever will be afterwards admitted due to the contractor having failed to comply with these conditions.</p> <p>Tenderers are to note that prices for aluminium doors and windows are to include for all necessary ironmongery for the complete installation as required. No further claims in this regard will be entertained.</p> <p><b><u>Rates shall include for the following:</u></b></p> <p>All opening and fixed lights, coupling mullions and transoms, fittings, ironmongery, etc. As required.</p> <p>Complete glazing as described with and including matching aluminium glazing beads and gaskets and glazed in accordance with the manufacturer's written instructions.</p> <p>Building in and fixing into preformed openings. Window opening sizes to be verified on site before windows can be manufactured.</p> <p>Suitably protecting all exposed aluminium and glass surfaces with an approved protection tape and plastic sheeting. Such protection is to be removed at completion of the contract and the exposed surfaces cleaned down and left perfect. Under no circumstances will any damage whatsoever to the finished product be accepted.</p> <p><b><u>Drawings:</u></b></p> <p>Tenderers are to note that where descriptions include reference to drawings, notwithstanding anything contained in the descriptions, tenderers are to price these items in accordance with the drawings. Further, the onus is on the tenderer to ensure that all relevant drawings referenced in the Bills of Quantities are included in the tender documents. No additional time and/or monetary claims resulting from non-adherence to the above will be entertained.</p>				
			Carried to Collection	R
<p>Bill No. 12 Metalwork</p>				

	Unit	Quantity	Rate	Amount
<b><u>STAINLESS STEEL HANDRAILS, BALUSTRADES, ETC. (PROVISIONAL)</u></b>				
<b><u>Stainless steel balustrades to stairs (Type 1):</u></b>				
1	Horizontal balustrades 1000mm high, formed of 75mm x 25mm continuous rectangular hollow section top rail fixed to 50mm x 20mm thick brushed stainless steel stanchions with 10mm x 10mm brushed stainless steel pins complete with 50mm x 12mm brushed stainless steel outer frame and filled in with 50 x 12mm intermediate rails (Stanchion to be fitted with 120 x 50 x 5mm thick base plate) with and including allen key flat bolts, raw bolts, fixing etc all as per Architectural drawing no. 1010.16-SMC-WD-5600, appended at the back of these Bills of Quantities.	m	15	
2	Raking balustrades 1000mm high, formed of 75mm x 25mm continuous rectangular hollow section top rail fixed to 50mm x 20mm thick brushed stainless steel stanchions with 10mm x 10mm brushed stainless steel pins complete with 50mm x 12mm brushed stainless steel outer frame and filled in with 50 x 12mm intermediate rails (Stanchion to be fitted with 120 x 50 x 5mm thick base plate) with and including allen key flat bolts, raw bolts, fixing etc all as per Architectural drawing no. 1010.16-SMC-WD-5600, appended at the back of these Bills of Quantities.	m	89	
3	Extra over for hardwood sapele timber for top rail	m	104	
4	Extra over balustrading 1000mm high for flat closed end.	No	6	
5	Extra over balustrading 1000mm high for L-intersections.	No	56	
6	Extra over balustrading 1000mm high for knee.	No	56	
7	Extra over balustrading 1000mm high for bend.	No	56	
<b><u>Stainless steel balustrades (Type 2):</u></b>				
8	Horizontal balustrades 500mm high, formed of 75mm x 25mm continuous rectangular hollow section top rail fixed to 50mm x 20mm thick brushed stainless steel stanchions with 10mm x 10mm brushed stainless steel pins complete with 50mm x 12mm brushed stainless steel outer frame and filled in with 50 x 12mm intermediate rails (Stanchion to be fitted with 120 x 50 x 5mm thick base plate) with and including allen key flat bolts, raw bolts, fixing etc all as per Architectural drawing no. 1010.16-SMC-WD-5600, appended at the back of these Bills of Quantities.	m	166	
9	Extra over for hardwood sapele timber for top rail	m	166	
	Carried to Collection			R
Bill No. 12 Metalwork				



		Unit	Quantity	Rate	Amount
10	Extra over balustrading 1000mm high for flat closed end.	No	15		
11	Extra over balustrading 1000mm high for L-intersections.	No	11		
12	Extra over balustrading 1000mm high for bend.	No	11		
	<b><u>Stainless steel balustrades to stairs (Type 5):</u></b>				
13	Horizontal balustrades 1000mm high, formed of 75mm x 25mm continuous rectangular hollow section top rail fixed to 50mm x 20mm thick brushed stainless steel stanchions with 10mm x 10mm brushed stainless steel pins complete with 50mm x 12mm brushed stainless steel outer frame and filled in with 50 x 12mm intermediate rails (Stanchion to be fitted with 120 x 50 x 5mm thick base plate) with and including allen key flat bolts, raw bolts, fixing etc all as per Architectural drawing no. 1010.16-SMC-WD-5600, appended at the back of these Bills of Quantities.	m	1		
14	Raking balustrades 1000mm high, formed of 75mm x 25mm continuous rectangular hollow section top rail fixed to 50mm x 20mm thick brushed stainless steel stanchions with 10mm x 10mm brushed stainless steel pins complete with 50mm x 12mm brushed stainless steel outer frame and filled in with 50 x 12mm intermediate rails (Stanchion to be fitted with 120 x 50 x 5mm thick base plate) with and including allen key flat bolts, raw bolts, fixing etc all as per Architectural drawing no. 1010.16-SMC-WD-5600, appended at the back of these Bills of Quantities.	m	11		
15	Extra over balustrading 1000mm high for flat closed end.	No	4		
16	Extra over balustrading 1000mm high for L-intersections.	No	4		
17	Extra over balustrading 1000mm high for knee.	No	4		
18	Extra over balustrading 1000mm high for bend.	No	4		
	<b><u>Stainless steel handrails to walls:</u></b>				
19	Horizontal 75mm x 25mm stainless steel rectangular hollow section rail (TYPE 04) fixed to 10 x 10mm brushed stainless steel pins fixed chemically anchored and plate fixed to brickwork as per Architects drawing no.:1010.16-SMC-WD-5600, 1010.16-SMC-GA-2851 and 1010.16-SMC-GA-2852	m	25		
	Carried to Collection				R
Bill No. 12					
Metalwork					

		Unit	Quantity	Rate	Amount
20	Raking 75mm x 25mm stainless steel hollow section rail (TYPE 04) fixed to 10 x 10mm brushed stainless steel pins fixed chemically anchored and plate fixed to wall as per Architects drawing no.:1010.16-SMC-WD-5600, 1010.16-SMC-GA-2851 and 1010.16-SMC-GA-2852	m	100		
21	Extra over handrail for flat closed end.	No	19		
22	Extra over handrail for L- intersections.	No	16		
23	Extra over handrail for knee.	No	18		
<b><u>SPECIALIST TYPE HOT-DIP GALVANISED CELL DOORS, GATES, WINDOWS, ETC.</u></b>					
Note: The following specialist type cell doors, gates, windows etc. contain references to Architectural drawings appended at the back of these Bills of Quantities. The Tenderer is to study these drawings carefully as all items required for the complete and approved supply and installation of the aforementioned items as per the drawings such as but not limited to hinges, flanges, additional welds, angle irons, sheet metal, lugs, bolts, mortar filling, mild steel rods, poprivetting, etc. , will be deemed to be included in the tendered rate for same. No further claims in this regard will be entertained.					
<b><u>Specialist type hot-dip galvanised cell doors and gate, all as per Architectural drawing no's. 1010.16-SMC-SH-4201 and Five Star Drawings POL 2012/D1/D1a/D2/D3/D4/D5 appended at the back of these Bills of Quantities</u></b>					
24	Purpose made cell gate and door combination, size overall 1018mm wide x 2020mm high with and including purpose made galvanised mild steel frame made from steel angles and 2mm thick steel shaped into size to suit single door size 910 x 1966mm high (D9).	No	25		
<b><u>Specialist type hot-dip galvanised mild steel cell windows and screens, all as per Architectural window schedule 1010.16-SMC-SH-4101 and Five Star drawing no. POL 2012/W1 appended at the back of these Bills of Quantities</u></b>					
<b><u>Windows</u></b>					
25	Purpose made cell window, size overall 850mm wide x 950mm high (type W1).	No	60		
<b><u>Screens</u></b>					
26	Purpose made internally fixed screen size 793 x 893mm high overall (W1)	No	60		
				R	
Carried to Collection					
Bill No. 12					
Metalwork					





	Unit	Quantity	Rate	Amount
<b><u>Galvanised bolts and fasteners (Provisional)</u></b>				
37	Bolts	Tonnes	0.60	
<b><u>SUNDRY ALUMINIUM WORK (CPAP WORK GROUP NO. 140)</u></b>				
38	Specialist type purpose made fascia and gutter combination comprising profile bent 4mm thick "Hulabond" or other approved sandwich aluminium panel fixed to and including galvanised mild steel aluminium sub-frame, and 440 x 150mm purpose made powdercoated and hot-dipped galvanised continuous extruded industrial profile gutter fixed to hot-dipped galvanised mild steel support member at 300mm centres all as per drawing no: 1010.16-SMC-DT-5101 and 1010.16-SMC-DT-5102.	m	195	
<b><u>SPECIALIST TYPE HOT DIPPED GALVANISED MILD STEEL PIVOT DOORS AND FRAME (CPAP WORK GROUP NO. 140)</u></b>				
<b><u>Purpose made hulabond faced pivot door all as per architects drawing no. 1010.16-SMC-SH-4202 and 1010.16-SMC-DT-5106</u></b>				
39	Door size approximately 2645 x 3230mm high (D17).	No	2	
<b><u>HOT DIPPED GALVANISED PRESSED STEEL DOOR FRAMES</u></b>				
<b><u>Purpose made 1.6mm rebated frames suitable for one brick walls</u></b>				
40	Frame for door 900 x 2100mm high, built into brick wall (D10).	No	2	
<b><u>MATT BLACK POWDERCOATED ALUMINIUM WINDOWS, DOORS, ETC. (CPAP WORK GROUP NO. 140)</u></b>				
Note: The following aluminium windows, doors, shopfronts etc. contain references to Architectural drawings appended at the back of these Bills of Quantities. The Tenderer is to study these drawings carefully as all items required for the complete and approved supply and installation of the aforementioned items as per the drawings, will be deemed to be included in the tendered rate for same. No further claims in this regard will be entertained				
			Carried to Collection	R
Bill No. 12 Metalwork				

	Unit	Quantity	Rate	Amount
<p><b><u>Matt black powder coated aluminium window units as per Architectural window schedules (dwg no's. 1010.16-SMC-SH-4101, 1010.16-SMC-SH-4102, 1010.16-SMC-SH-4103, 1010.16-SMC-SH-4104, 1010.16-SMC-SH-4105, 1010.16-SMC-SH-4106, 1010.16-SMC-SH-4107, 1010.16-SMC-SH-4108 appended at the back of these Bills of Quantities) complete with subframes, ironmongery, 6.38mm HPR coolgrey glazing, sealing, mullions, rails, etc. and fixing to brickwork or concrete</u></b></p>				
41	No	3		
42	No	1		
43	No	20		
44	No	1		
45	No	1		
46	No	2		
47	No	1		
48	No	7		
49	No	3		
50	No	4		
51	No	1		
52	No	2		
53	No	4		
54	No	1		
55	No	1		
56	No	1		
57	No	1		
58	No	1		
59	No	27		
60	No	5		
61	No	2		
62	No	5		
63	No	10		
Carried to Collection			R	
Bill No. 12 Metalwork				



		Unit	Quantity	Rate	Amount
<p><b><u>Specialist type matt black powder coated aluminium window units as per Architectural window schedules (dwg no's. 1010.16-SMC-SH-4101, 1010.16-SMC-SH-4103, 1010.16-SMC-SH-4109 appended at the back of these Bills of Quantities) complete with subframes, ironmongery, 28mm BULLETPROOF glazing all in accordance with AAAMSA Regulations, sealing, mullions, rails, etc. and fixing to brickwork or concrete</u></b></p>					
91	Purpose made window 2960 x 1300mm high. (W7)	No	1		
92	Purpose made window 3610 x 1300mm high. (W22)	No	1		
93	Purpose made window 1795 x 1300mm high, with and including 'TAC' or other approved stainless steel cash transfer drawer with 3no. Lock positions. (W21)	No	2		
<p><b><u>MATT BLACK POWDER COATED ALUMINIUM SLIDING DOORS AND SHOPFRONTS (CPAP WORK GROUP NO. 140)</u></b></p> <p><b><u>Matt black powder coated aluminium shopfront units as per Architectural schedules (dwg no's. 1010.16-SMC-SH-4104, 1010.16-SMC-SH-4105, 1010.16-SMC-SH-4106, 1010.16-SMC-SH-4107, 1010.16-SMC-SH-4108 appended at the back of these Bills of Quantities) complete with subframes, ironmongery, 6,38mm HPR coolgrey glazing, sealing, mullions, rails, etc. and fixing to brickwork</u></b></p>					
94	Purpose made shopfront 20160 x 2950mm high (W33).	No	1		
95	Purpose made shopfront 8190 x 2950mm high (W34).	No	2		
96	Purpose made shopfront 3405 x 2950mm high (W35).	No	1		
97	Purpose made shopfront 3510 x 2950mm high (W36).	No	3		
98	Purpose made shopfront 2370 x 2950mm high (W37).	No	2		
99	Purpose made shopfront 3990 x 2950mm high (W38).	No	1		
100	Purpose made shopfront 3060 x 2950mm high (W39).	No	1		
101	Purpose made shopfront 2560 x 2950mm high (W41).	No	1		
102	Purpose made shopfront 2444 x 2950mm high (W42).	No	1		
103	Purpose made shopfront 3210 x 2950mm high (W43).	No	2		
104	Purpose made shopfront 20160 x 2950mm high (W45).	No	1		
105	Purpose made shopfront 2495 x 2950mm high (W46).	No	4		
106	Purpose made shopfront 4115 x x2439mm high (W55).	No	1		
				R	
Carried to Collection					
<p>Bill No. 12 Metalwork</p>					



		Unit	Quantity	Rate	Amount
107	Purpose made shopfront 8190 x 2185mm high (W58).	No	1		
108	Purpose made shopfront 11580 x 2185mm high (W59).	No	1		
109	Purpose made shopfront 4440 x 2185mm high (W60).	No	1		
110	Purpose made shopfront 2495 x 2185mm high (W63).	No	2		
111	Purpose made shopfront 3210 x 2185mm high (W65).	No	1		
	<b><u>Matt black powder coated aluminium door as per Architectural door schedules (Drawing No's: 1010.16-SMC-SH-4203) appended at the back of these Bills of Quantities complete with subframes, ironmongery, 6.38mm clear laminated safety glazing in accordance with SABS 10400, sealing, mullions, rails, etc. And fixing to brickwork or concrete:</u></b>				
112	Purpose made door 1600 x 2400mm high (D25).	No	14		
	<b><u>Matt black powder coated aluminium combination door and shopfront units as per Architectural door schedules (Drawing No's: 1010.16-SMC-SH-4201, 1010.16-SMC-SH-4202, 1010.16-SMC-SH-4203, 1010.16-SMC-SH-4204 ) appended at the back of these Bills of Quantities complete with subframes, ironmongery, 6.38mm clear laminated safety glazing in accordance with SABS 10400, sealing, mullions, rails, etc. And fixing to brickwork or concrete:</u></b>				
113	Purpose made shopfront and door combination overall approximate size 11412 x 3230mm high (D2).	No	1		
114	Purpose made shopfront and door combination overall approximate size 5925 x 2400mm high (D14).	No	1		
115	Purpose made shopfront and door combination overall approximate size 7594 x 3230mm high (D15).	No	1		
116	Purpose made shopfront and door combination overall approximate size 4935 x 2400mm high (D16).	No	1		
117	Purpose made shopfront and door combination overall approximate size 3425 x 3200mm high (D21).	No	1		
118	Purpose made shopfront and door combination overall approximate size 8100 x 3200mm high (D26).	No	26		
119	Purpose made shopfront and door combination overall approximate size 3600 x 2056mm high (D29).	No	1		
120	Purpose made shopfront and door combination overall approximate size 12013 x 3200mm high (D34).	No	1		
	Carried to Collection			R	
	Bill No. 12				
	Metalwork				

		Unit	Quantity	Rate	Amount
	<p><b><u>POWDER COATED AND HOT-DIP GALVANISED STEEL STRONGROOM DOORS, VENTILATORS, ETC.</u></b></p> <p><b><u>"Chubb Phoenix 800 " or other approved steel strongroom doors and frames etc. suitable for 230mm walls fixed to brickwork or concrete all as per Architectural door schedule drawing no. 1010.16-SMC-SH-4202 appended at the back of these Bills of Quantities.</u></b></p>				
121	1080 x 2045mm high strongroom door and frame combination (D20).	No	8		
	<p><b><u>MATT BLACK POWDER COATED ALUMINIUM CURTAIN WALLS (CPAP WORK GROUP NO. 140)</u></b></p> <p><b><u>Matt black powder coated aluminium curtain walls as per Architectural window schedules (dwg no. 1010.16-SMC-SH-4102, 1010.16-SMC-SH-4105, 1010.16-SMC-SH-4106 appended at the back of these Bills of Quantities) complete with subframes, ironmongery, 6.5mm HPR coolgrey DOUBLE glazing, sealing, mullions, rails, aluminium louvres, etc. and fixing to brickwork or concrete</u></b></p>				
122	Purpose made curtain wall 4210 x 6240mm high (W44).	No	1		
123	Purpose made curtain wall 4210 x 6260mm high (W53).	No	1		
124	Purpose made curtain wall 4210 x 5195mm high (W20).	No	1		
	<p><b><u>HOT DIPPED GALVANISED STEEL LOUVRE SCREENS (CPAP WORK GROUP NO. 140)</u></b></p> <p><b><u>"RVI" or other approved Corten Steel Louvre by specialist.</u></b></p> <p><b><u>3mm thick x 382mm wide Powder Coated Corten steel louvre plates twice rolled and bent fixed vertically to 75 x 150mm thick aluminium rectangular hollow section subframe with and including high tensile galvanised M10 bolts with and including 300 x 225 x 3mm corten louvre termination/recess joints fixed to length of panels to concrete beams with and including high tensile M10 bolt all as per specialist installation requirements and architectural Drawing no.: 1010.16-SMCGA5800</u></b></p>				
125	Purpose made louvre unit Type SL 01 : size 8000 mm wide x 2970 mm high as per architect drawing no.: 1010.16-SMCGA5801	No	1		
126	Purpose made louvre unit Type SL 02 : size 8000 mm wide x 2970 mm high all as per architect drawing no.: 1010.16-SMCGA5802	No	1		
	Carried to Collection			R	
	Bill No. 12 Metalwork				

		Unit	Quantity	Rate	Amount
127	Purpose made louvre unit Type SL 03 : size 7785 mm wide x 2970 mm high all as per architect drawing no.: 1010.16-SMCGA5803	No	1		
128	Purpose made louvre unit Type SL 04 : size 8000 mm wide x 3695 mm high all as per architect drawing no.: 1010.16-SMCGA5804	No	1		
129	Purpose made louvre unit Type SL 05 : size 7785 mm wide x 3695 mm high all as per architect drawing no.: 1010.16-SMCGA5805	No	1		
130	Purpose made louvre unit Type SL 06 : size 8000 mm wide x 3695 mm high all as per architect drawing no.: 1010.16-SMCGA5806	No	1		
131	Purpose made louvre unit Type SL 07 : size 8090 mm wide x 3595 mm high all as per architect drawing no.: 1010.16-SMCGA5807	No	1		
132	Purpose made louvre unit Type SL 08 : size 8000 mm wide x 3595 mm high all as per architect drawing no.: 1010.16-SMCGA5808	No	1		
133	Purpose made louvre unit Type SL 09 : size 8000 mm wide x 3595 mm high all as per architect drawing no.: 1010.16-SMCGA5809	No	1		
134	Purpose made louvre unit Type SL 10 : size 7785 mm wide x 3695 mm high all as per architect drawing no.: 1010.16-SMCGA5810	No	1		
135	Purpose made louvre unit Type SL 11 : size 8000 mm wide x 3615 mm high all as per architect drawing no.: 1010.16-SMCGA5811	No	1		
136	Purpose made louvre unit Type SL 12 : size 8000 mm wide x 3615 mm high all as per architect drawing no.: 1010.16-SMCGA5812	No	1		
137	Purpose made louvre unit Type SL 13 : size 8000 mm wide x 3695 mm high all as per architect drawing no.: 1010.16-SMCGA5813	No	1		
138	Purpose made louvre unit Type SL 14 : size 7785 mm wide x 3615 mm high all as per architect drawing no.: 1010.16-SMCGA5814	No	1		
139	Purpose made louvre unit Type SL 15 : size 3194 mm wide x 3595 mm high all as per architect drawing no.: 1010.16-SMCGA5815	No	1		
	Carried to Collection				R
	Bill No. 12 Metalwork				

		Unit	Quantity	Rate	Amount
140	Purpose made louvre unit Type SL 16 : size 3200 mm wide x 3595 mm high all as per architect drawing no.: 1010.16-SMCGA5816	No	1		
141	Purpose made louvre unit Type SL 17 : size 1520 mm wide x 8710 mm high all as per architect drawing no.: 1010.16-SMCGA5817	No	1		
142	Purpose made louvre unit Type SL 18 : size 1528 mm wide x 14875 mm high all as per architect drawing no.: 1010.16-SMCGA5818	No	1		
143	Purpose made louvre unit Type SL 19 : size 4183mm wide x 3105 mm high all as per architect drawing no.: 1010.16-SMCGA5819	No	1		
144	Purpose made louvre unit Type SL 20 : size 6468 mm wide x 3105 mm high all as per architect drawing no.: 1010.16-SMCGA5820	No	1		
145	Purpose made louvre unit Type SL 21 : size 7288 mm wide x 3105 mm high as all per architect drawing no.: 1010.16-SMCGA5821	No	1		
146	Purpose made louvre unit Type SL 22 : size 6004 mm wide x 3105 mm high as all per architect drawing no.: 1010.16-SMCGA5822	No	1		
147	Purpose made louvre unit Type SL 23 : size 5942 mm wide x 2870 mm high as all per architect drawing no.: 1010.16-SMCGA5823	No	1		
148	Purpose made louvre unit Type SL 24 : size 2673 mm wide x 2870 mm high all as per architect drawing no.: 1010.16-SMCGA5824	No	1		
149	Purpose made louvre unit size 10398 x 4039mm wide all as per architect drawing no.: 1010.16-SMC5850 and 1010.16-SMCGA5851	No	1		
150	Purpose made louvre unit size 18646 x 4039mm wide all as per architect drawing no.: 1010.16-SMC5850 and 1010.16-SMCGA5851	No	1		
151	Purpose made louvre unit size 47017 x 4039mm wide all as per architect drawing no.: 1010.16-SMC5850 and 1010.16-SMCGA5851	No	1		
	Carried to Collection				R
	Bill No. 12 Metalwork				

	Unit	Quantity	Rate	Amount
<b><u>STEEL WINDOW BOXES (CPAP WORK GROUP NO. 140)</u></b>				
<b><u>"RVI" or other approved 3mm Corten Steel plate welded box fixed to parallel wall faces with and including galvanised M10 bolts all as per Architect drawings no.: 1010.16-SMC-WD5700</u></b>				
152	Purpose made box Type FB01 : size 1200 mm wide x 2950 mm high all as per architect drawing no.: 1010.16-SMCWD5701	No	16	
153	Purpose made box Type FB02 : size 1200 mm wide x 2191 mm high all as per architect drawing no.: 1010.16-SMCWD5702	No	5	
154	Purpose made box Type FB03 : size 600 mm wide x 2950 mm high all as per architect drawing no.: 1010.16-SMCWD5703	No	8	
155	Purpose made box Type FB04 : size 600 mm wide x 2191 mm high all as per architect drawing no.: 1010.16-SMCWD5704	No	2	
156	Purpose made box Type FB05 : size 600 mm wide x 2440 mm high all as per architect drawing no.: 1010.16-SMCWD5705	No	5	
157	Purpose made box Type FB06 : size 1200 mm wide x 2440 mm high all as per architect drawing no.: 1010.16-SMCWD5706	No	3	
158	Purpose made box Type FB07 : size 1200 mm wide x 2185 mm high all as per architect drawing no.: 1010.16-SMCWD5707	No	3	
159	Purpose made box Type FB08 : size 800 mm wide x 1481 mm high all as per architect drawing no.: 1010.16-SMCWD5708	No	3	
160	Purpose made box Type FB09 : size 1000 mm wide x 2867 mm high all as per architect drawing no.: 1010.16-SMCWD5709	No	5	
161	Purpose made box Type FB10 : size 1000 mm wide x 2445 mm high all as per architect drawing no.: 1010.16-SMCWD5710	No	2	
162	Purpose made box Type FB11 : size 1000 mm wide x 1439 mm high all as per architect drawing no.: 1010.16-SMCWD5711	No	3	
Carried to Collection			R	
Bill No. 12 Metalwork				

		Unit	Quantity	Rate	Amount
163	<p>Purpose made box Type FB 12 : size 800 mm wide x 2871 mm high all as per architect drawing no.: 1010.16-SMCWD5712</p> <p><b><u>HOT DIPPED GALVANISED AND POWDERCOATED BLACK STEEL ROLLER SHUTTERS ETC</u></b></p> <p>Note: The following roller shutter doors contain references to Architectural drawings appended at the back of these Bills of Quantities. The Tenderer is to study these drawings carefully as all items required for the complete and approved supply and installation of the aforementioned items as per the drawings such as, but not limited to electronic motorisation, frames, ironmongery, etc. , will be deemed to be included in the tendered rate for same. No further claims in this regard will be entertained.</p> <p><b><u>"Xpanda" or other approved powdercoated and hot dipped galvanised black steel roller shutter doors with 75mm wide x 1mm thick slats, fixed to brickwork or concrete with and including frames, canopies to roller mechanism, etc. , all as per Architectural door schedules (dwg no's. 1010.16-SMC-SH-4201, 1010.16-SMC-SH-4202, 1010.16-SMC-SH-4203, 1010.16-SMC-SH-4204 appended at the back of these Bills of Quantities)</u></b></p>	No	1		
164	Electrically operated slatted roller shutter for 4000 x 3700mm high opening, including 3mm thick galvanised and powder coated mild steel roller shutter door frame, electrical connection , motor and commissioning. Door to have integrated pedestrian wicket door size 900 x 2100mm high (D3).	No	2		
165	Electrically operated slatted roller shutter for 6000 x 3170mm high opening, including 3mm thick galvanised and powder coated mild steel roller shutter door frame, electrical connection , motor and commissioning. Door to have integrated pedestrian wicket door size 900 x 2100mm high (D13).	No	2		
166	Electrically operated slatted roller shutter for 1795 x 1650mm high opening, including 3mm thick galvanised and powder coated mild steel roller shutter door frame with 30mm "Caesarstone" granite countertop below, electrical connection , motor and commissioning (D24).	No	2		
167	Electrically operated slatted roller shutter for 2350 x 1650mm high opening, including 3mm thick galvanised and powder coated mild steel roller shutter door frame with 30mm "Caesarstone" granite countertop below, electrical connection , motor and commissioning (D27).	No	3		
	Carried to Collection			R	
	Bill No. 12 Metalwork				

		Unit	Quantity	Rate	Amount
168	Electrically operated slatted roller shutter for 3160 x 1650mm high opening, including 3mm thick galvanised and powder coated mild steel roller shutter door frame with 30mm "Caesarstone" granite countertop below, electrical connection , motor and commissioning (D33).	No	1		
<p><b><u>STEEL RECORDROOM AND STRONGROOM DOORS, VENTILATORS, ETC</u></b></p> <p><b><u>"Gunnebo" or other approved safes</u></b></p>					
169	'Gunebo' or other approved 18 compartment Gun Lockers with overall size 920mm wide x 200mm deep x 707mm high with a baked enamel finish in gunmetal grey, each individual safe to be approximately 296mm wide x 200mm deep x 111mm high with and including all fixing components, etc with and including minimum 3mm thick sides and a 6mm thick door with and including single key lock .	No	1		
<p><b><u>SUNDRIES</u></b></p> <p><b><u>Cuff rails, etc.:</u></b></p>					
170	50mm Diameter stainless steel cuff rail approximately 3060mm long welded to and including 20mm solid section galvanised mild steel round bar at 1000mm centres, round bar welded to and including 150 x 150 x 6mm thick baseplate four times holed for and including M10 x 100mm threaded anchor bolts, baseplate to be bolted to brick wall (brick wall elsewhere measured).	No	1		
171	50mm Diameter stainless steel cuff rail approximately 6700mm long welded to and including 20mm solid section galvanised mild steel round bar at 1000mm centres, round bar welded to and including 150 x 150 x 6mm thick baseplate four times holed for and including M10 x 100mm threaded anchor bolts, baseplate to be bolted to brick wall (brick wall elsewhere measured).	No	2		
172	50mm Diameter stainless steel cuff rail approximately 7200mm long welded to and including 20mm solid section galvanised mild steel round bar at 1000mm centres, round bar welded to and including 150 x 150 x 6mm thick baseplate four times holed for and including M10 x 100mm threaded anchor bolts, baseplate to be bolted to brick wall (brick wall elsewhere measured).	No	1		
				Carried to Collection	R
<p>Bill No. 12</p> <p>Metalwork</p>					

		Unit	Quantity	Rate	Amount
173	50mm Diameter stainless steel cuff rail I-shaped approximately 10400mm long welded to and including 20mm solid section galvanised mild steel round bar at 1000mm centres, round bar welded to and including 150 x 150 x 6mm thick baseplate four times holed for and including M10 x 100mm threaded anchor bolts, baseplate to be bolted to brick wall (brick wall elsewhere measured).	No	1		
	<b><u>HOT DIPPED GALVANISED STEEL CAT LADDERS</u></b>				
	<b><u>Design, supply and install hot dip galvanised steel Cat Ladders</u></b>				
174	3600 x 450mm Galvanised mild steel, low weight cat ladder with rolled formed U-profile stringers. Rungs of tube with upset ends on both inside and outside. Areas where ladder exceeds 3600mm in length, two are to be fixed together with fishplates supplied by specialist. Ladder to be fixed 150mm away from wall with fixing brackets at maximum distance of 5000mm between each other. Ladder to also have fixing stays at a maximum distance of 2500mm between the stays. Fixing brackets and stays to be fixed to wall with minimum M12 chemical anchors. Ladder to extend beyond landing level and have a 300 x 440mm step-on platform and a 1350mm set of handrails attached. Ladder to have a hoop guard at every 900mm ccs for the full length of the ladder, with 4 x 900mm long stringers between the hoops. All accessories to be bolted to the ladder as per specialist specifications.	No	6		
	<b><u>HOT DIPPED GALVANISED STEEL FLOORS</u></b>				
	<b><u>"Mentex 70" or other approved hot dipped galvanised steel mesh laid into and including 50x50x5mm angle iron frames in units 1020 mm wide x 2500 mm maximum long. Mesh to be welded into frame and sandwiched between second 40 x 40 x3mm angle section secondary framing and main frame. Frames exceeding 1800 mm in length to have an additional 40x40x3 mm angle T- support placed and welded centrally to mesh.</u></b>				
175	Galvanised steel mesh approximate size 47100 x 2000mm	No	1		
176	Galvanised steel mesh approximate size 43100 x 1400mm	No	1		
177	Galvanised steel mesh approximate size 50900 x 1400mm	No	1		
178	Galvanised steel mesh approximate size 2100 x 1200mm	No	2		
	Carried to Collection			R	
	Bill No. 12				
	Metalwork				



		Unit	Quantity	Rate	Amount
179	Galvanised steel mesh approximate size 3600 x 950mm	No	1		
180	Galvanised steel mesh approximate size 1500 x 600mm	No	1		
181	Galvanised steel mesh approximate size 19400 x 3600mm	No	1		
182	Galvanised steel mesh approximate size 1450 x 2130mm	No	1		
183	Galvanised steel mesh approximate size 2110 x 1210mm	No	1		
184	Galvanised steel mesh approximate size 1000 x 3700mm	No	1		
185	Galvanised steel mesh approximate size 1500 x 550mm	No	2		
186	Galvanised steel mesh approximate size 2170 x 1300mm	No	1		
187	Galvanised steel mesh approximate size 2110 x 1030mm	No	1		
188	Galvanised steel mesh approximate size 2170 x 1200mm	No	1		
189	Galvanised steel mesh approximate size 3600 x 940mm	No	1		
190	Galvanised steel mesh approximate size 10000 x 450mm	No	1		
191	Galvanised steel mesh approximate size 4800 x 450mm	No	1		
192	Galvanised steel mesh approximate size 8300 x 450mm	No	1		
<b><u>BUDGETARY ALLOWANCE</u></b>					
<b><u>Matt Black Powder Coated Aluminium Sky Lights</u></b>					
<b><u>(CPAP Work Group No. 140)</u></b>					
193	Allow the Sum of R1 950,000.00 (One Million, Nine Hundred and Fifty Thousand Rand Only) for the supply and installation of Skylights complete.	Item			1 950 000 00
<b><u>Aluminium Edge Details</u></b>					
194	Allow the Sum of R105 000.00 (One Hundred and Five Thousand Rand Only) for the supply and installation of aluminium edge details.	Item			105 000 00
<b><u>Steel Framework to Wash Hand Basins</u></b>					
195	Allow the Sum of R10 000.00 (Ten Thousand Rand Only) for the supply and installation of steel framework to caesarstone wash hand basins.	Item			10 000 00
				R	
Carried to Collection					
Bill No. 12					
Metalwork					

		Unit	Quantity	Rate	Amount
	<b><u>Sundry Steelwork</u></b>				
196	Allow the Sum of R300 000.00 (Three Hundred Thousand Rand Only) for the supply and installation of sundry steelwork	Item			300 000 00
	<b><u>Structural steel subframe works for Hulabond supports</u></b>				
197	Allow the Sum of R168 000.00 (One Hundred and Sixty Eight Thousand Rand Only) for the supply and installation of structural steel support framework for hulabond installation.	Item			168 000 00
	Carried to Collection			R	

Amount

**BILL NO. 12**  
**METALWORK**  
**COLLECTION**

Page No

Brought Forward from Page

101

102

103

104

105

106

107

108

109

110

111

112

113

114

115

116

117

118

119

120

121

122

Carried to Summary

R

Bill No. 12  
Metalwork

Unit      Quantity      Rate      Amount

**BILL NO. 13**  
**PLASTERING**

The bidder is referred to the relevant clauses in the construction works general specifications (PW 371 A), to the Architectural and Structural/Civil Engineering specifications documents, to the drawings (which are to be read in conjunction with the architectural specification), and to all general and project-specific specifications as contained in the complete Bid Documents. Bidders are thus urged to study these documents as rates will be deemed to be inclusive of all requirements as included in same. Further, should any discrepancy be noted between these Bills of Quantities and the Specifications, the Specifications shall take precedence.

Further to the above, Bidders are to note that the latest edition of SANS 10400, current at the time of the tender will form part of the specifications to this contract and as such, pricing shall be deemed to include for complete conformance in all respects to the requirements of SANS 10400.

**SUPPLEMENTARY PREAMBLES**

**Working at Heights:**

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

Carried to Collection

R

Bill No. 13  
Plastering

	Unit	Quantity	Rate	Amount
<p><b><u>Labour Intensive</u></b></p> <p>Tenderers are to note well that specific items within these Bills of Quantities have been designated as LABOUR INTENSIVE by the addition of the aforementioned words in uppercase at the end of the description for the said item. Where items have been designated as being LABOUR INTENSIVE as described, pricing shall be deemed to include for the carrying out to completion of said item on site by means and methods that rely predominantly on manual labour. As such, no claims shall be entertained regarding any additional time or monetary costs incurred by the use of LABOUR INTENSIVE methods. Further, the Contractor is to note that contravention of the above i.e. use of mechanised systems to carry out LABOUR INTENSIVE work as hereinafter designated, will be viewed and dealt with in an extremely serious light by the Client, as it remains a national imperative to develop, employ and provide skills through the Extended Public Works Programme.</p> <p><b><u>Preparation</u></b></p> <p>For granolithic applied monolithically, the concrete floor shall be swept clean after bleeding of the concrete has ceased and the slab has begun to stiffen; any remaining bleed water shall be removed and the granolithic applied immediately thereafter. For granolithic to be bonded to the floor slab after it has hardened, the slab surface shall be hacked (preferably by mechanical means) until all laitance, dirt, oil, etc. is dislodged and swept clean of all loose matter. The slab shall then be wetted and kept damp for at least six hours before applying the granolithic.</p> <p><b><u>Mix</u></b></p> <p>Granolithic shall attain a compressive strength of at least 41MPa. The coarse aggregate shall comply with SANS 1083 and shall generally be capable of passing a 10mm mesh sieve. Where the thickness of the granolithic exceeds 25mm, the size of the coarse aggregate shall be increased to the maximum size compatible with the thickness of the granolithic.</p> <p><b><u>Panels</u></b></p> <p>Where possible joints between panels shall be positioned over joints in the floor slab and shall be at least 3mm wide through the full thickness of the finish, separated by strips of wood or fibreboard and finished with V-joints</p> <p><b><u>Laying</u></b></p> <p>Monolithic granolithic shall be applied to the partially set slab and thoroughly compacted and lightly wood floated to the required levels</p>				
<p>Carried to Collection</p>			R	
<p>Bill No. 13 Plastering</p>				

	Unit	Quantity	Rate	Amount
<p>Bonded granolithic shall be applied to the slab after applying a 1:1 sand-and-cement slurry brushed over the surface and allowed to partially set before applying the granolithic. The granolithic shall be thoroughly compacted and lightly wood floated to the required levels</p> <p>After wood floating, the monolithic and bonded granolithic shall remain undisturbed until bleeding has ceased and the surface has stiffened. Any remaining bleed water and laitance shall then be removed and the surface steel trowelled or power floated</p> <p><b><u>Curing, seasoning and protection</u></b></p> <p>Granolithic shall be covered with clean hessian with waterproof building foil over and kept wet for at least seven days after laying.</p> <p><b><u>Colour</u></b></p> <p>Coloured granolithic shall be tinted with an approved colouring pigment mixed into a true and even colour.</p> <p><b><u>Drawings:</u></b></p> <p>Tenderers are to note that where descriptions include reference to drawings, notwithstanding anything contained in the descriptions, tenderers are to price these items in accordance with the drawings. Further, the onus is on the tenderer to ensure that all relevant drawings referenced in the Bills of Quantities are included in the tender documents. No additional time and/or monetary claims resulting from non-adherence to the above will be entertained.</p> <p><b><u>SCREEDS</u></b></p> <p><b><u>Screeds wood floated, on concrete.</u></b></p>				
1	m <sup>2</sup>	12 565		
2	m <sup>2</sup>	461		
<p><b><u>Screeds steel trowelled, on concrete</u></b></p>				
3	m <sup>2</sup>	488		
<p><b><u>GRANOLITHIC</u></b></p> <p><b><u>Untinted granolithic, on concrete.</u></b></p>				
4	m <sup>2</sup>	41		
5	m <sup>2</sup>	100		
Carried to Collection			R	
Bill No. 13 Plastering				



Amount

**BILL NO. 13**  
**PLASTERING**  
**COLLECTION**

Page No

Brought Forward from Page

124

125

126

127

Carried to Summary

R



Unit      Quantity      Rate      Amount

**BILL NO. 14**

**TILING**

The bidder is referred to the relevant clauses in the construction works general specifications (PW 371 A), to the Architectural and Structural/Civil Engineering specifications documents, to the drawings (which are to be read in conjunction with the architectural specification), and to all general and project-specific specifications as contained in the complete Bid Documents. Bidders are thus urged to study these documents as rates will be deemed to be inclusive of all requirements as included in same. Further, should any discrepancy be noted between these Bills of Quantities and the Specifications, the Specifications shall take precedence.

Further to the above, Bidders are to note that the latest edition of SANS 10400, current at the time of the tender will form part of the specifications to this contract and as such, pricing shall be deemed to include for complete conformance in all respects to the requirements of SANS 10400.

**SUPPLEMENTARY PREAMBLES**

**Working at Heights:**

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

Carried to Collection

R

Bill No. 14

Tiling

	Unit	Quantity	Rate	Amount
<p><b><u>Labour Intensive</u></b></p> <p>Tenderers are to note well that specific items within these Bills of Quantities have been designated as LABOUR INTENSIVE by the addition of the aforementioned words in uppercase at the end of the description for the said item. Where items have been designated as being LABOUR INTENSIVE as described, pricing shall be deemed to include for the carrying out to completion of said item on site by means and methods that rely predominantly on manual labour. As such, no claims shall be entertained regarding any additional time or monetary costs incurred by the use of LABOUR INTENSIVE methods. Further, the Contractor is to note that contravention of the above i.e. use of mechanised systems to carry out LABOUR INTENSIVE work as hereinafter designated, will be viewed and dealt with in an extremely serious light by the Client, as it remains a national imperative to develop, employ and provide skills through the Extended Public Works Programme.</p> <p><b><u>Fixing</u></b></p> <p>Unless described as 'fixed with adhesive to plaster (plaster elsewhere)' descriptions of tiling on brick or concrete walls, columns, etc. shall be deemed to include 1:4 cement plaster backing.</p> <p>Unless described as 'fixed with adhesive to screeded floors (screed elsewhere)' descriptions of tiling on concrete floors, vanities, etc. shall be deemed to include 25mm thick cement screed wood floated for tiles.</p> <p>Tiling described as 'fixed with adhesive on power floated concrete' shall be deemed to include for approved tiling key-coat.</p> <p>Ceramic, porcelain, marble and granite tiles are to be fixed and grouted with suitable adhesives and grouts as recommended by the manufacturer of the tiles. Tenderers are to price accordingly.</p> <p><b><u>Tile ratings</u></b></p> <p>Full bodied porcelain tiles should have a P.I. rating OF 5 and a PEI rating of 5.</p> <p><b><u>WALL TILING</u></b></p> <p><b><u>300 x 300 x 8mm Thick full bodied porcelain tiles (PC amount of R700/m<sup>2</sup>) fixed with adhesive to plaster (plaster elsewhere) and flush pointed with and including approved tinted waterproof grout</u></b></p>				
1	m <sup>2</sup>	885		
2	No	106		
Carried to Collection			R	
<p>Bill No. 14 Tiling</p>				

	Unit	Quantity	Rate	Amount
<p><b><u>600 x 600 x 8mm Thick full bodied porcelain tiles (P.C amount of R700.00/m<sup>2</sup>) fixed with adhesive to plaster (plaster elsewhere) and flush pointed with and including approved tinted waterproof grout.</u></b></p>				
3	m <sup>2</sup>	19		
<p><b><u>" Douglas Jones" or other approved 4mm thick rectangular shaped glass mosaic tiles (P.C Amount of R800.00/m<sup>2</sup>) fixed with adhesive to plaster and flush pointed with and including approved waterproof grout:</u></b></p>				
4	m <sup>2</sup>	9		
<p><b><u>FLOOR TILING</u></b></p>				
<p><b><u>600 x 300 x 8mm Thick full bodied porcelain , non-slip floor tiles (R700.00/m<sup>2</sup>) fixed with adhesive to screeded floors and flush pointed with and including approved waterproof grout:</u></b></p>				
5	m <sup>2</sup>	3 864		
6	m <sup>2</sup>	298		
7	m	764		
<p><b><u>600 x 150 x 8mm Thick full bodied textured porcelain , non- slip floor tiles (R700.00/m<sup>2</sup>) fixed with adhesive to screeded floors and pointed flush with and including approved waterproof grout</u></b></p>				
8	m <sup>2</sup>	626		
9	m	4 168		
<p><b><u>300 x 300 x 8mm Thick full bodied porcelain , non-slip exterior floor tiles (R700.00/m<sup>2</sup>) fixed with adhesive to screeded floors and flush pointed with and including approved waterproof grout:</u></b></p>				
10	m <sup>2</sup>	64		
11	m	79		
<p><b><u>" Douglas Jones" or other approved 4mm thick rectangular shaped glass mosaic tiles (P.C Amount of R800.00/m<sup>2</sup>) fixed with adhesive to screeded floors and flush pointed with and including approved waterproof grout:</u></b></p>				
12	m <sup>2</sup>	9		
			R	
Carried to Collection				
Bill No. 14				
Tiling				

		Unit	Quantity	Rate	Amount
<b>SUNDRIES</b>					
<u>Stainless steel corner protectors, stair nosings, expansion joint strips, etc.</u>					
13	"Sure Strip" or other approved 15mm SES straight edge stainless steel strip.	m	410		
14	"Sure Strip" or other approved, 10mm Aluminium TSA stair nosing.	m	647		
<u>Corten steel stair nosings, etc.</u>					
15	5mm stair nosings	m	68		

Carried to Collection

R

Amount

**BILL NO. 14**  
**TILING**  
**COLLECTION**

Page No

Brought Forward from Page

129

130

131

132

Carried to Summary

R

Bill No. 14  
Tiling

Unit      Quantity      Rate      Amount

**BILL NO. 15**  
**PLUMBING AND DRAINAGE**

The bidder is referred to the relevant clauses in the construction works general specifications (PW 371 A), to the Architectural and Structural/Civil Engineering specifications documents, to the drawings (which are to be read in conjunction with the architectural specification), and to all general and project-specific specifications as contained in the complete Bid Documents. Bidders are thus urged to study these documents as rates will be deemed to be inclusive of all requirements as included in same. Further, should any discrepancy be noted between these Bills of Quantities and the Specifications, the Specifications shall take precedence.

Further to the above, Bidders are to note that the latest edition of SANS 10400, current at the time of the tender will form part of the specifications to this contract and as such, pricing shall be deemed to include for complete conformance in all respects to the requirements of SANS 10400.

**SUPPLEMENTARY PREAMBLES**

**Working at Heights:**

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

Carried to Collection

R

	Unit	Quantity	Rate	Amount
<p><b><u>Labour Intensive</u></b></p> <p>Tenderers are to note well that specific items within these Bills of Quantities have been designated as LABOUR INTENSIVE by the addition of the aforementioned words in uppercase at the end of the description for the said item. Where items have been designated as being LABOUR INTENSIVE as described, pricing shall be deemed to include for the carrying out to completion of said item on site by means and methods that rely predominantly on manual labour. As such, no claims shall be entertained regarding any additional time or monetary costs incurred by the use of LABOUR INTENSIVE methods. Further, the Contractor is to note that contravention of the above i.e. use of mechanised systems to carry out LABOUR INTENSIVE work as hereinafter designated, will be viewed and dealt with in an extremely serious light by the Client, as it remains a national imperative to develop, employ and provide skills through the Extended Public Works Programme.</p> <p><b><u>'Polycop' polypropylene pipes:</u></b></p> <p>Polypropylene pipes 54mm diameter and under shall be seamless copper coloured class 16 pipes jointed with 'Fast-fuse' heat welded thermoplastic or brass compression fittings as designed for use with copper pipes as stated.</p> <p>Pipes shall be firmly fixed to walls etc with coloured nylon snap-in pipe clips with provision for accommodating thermal movement and jointed and fixed strictly in accordance with the manufacturer's instructions.</p> <p><b><u>Copper pipes:</u></b></p> <p>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 'Cobra Watertech' or other approved type. Capillary solder fittings shall comply with ISO 2016.</p> <p><b><u>Reducing fittings:</u></b></p> <p>Where fittings have reducing ends or branches they are described as "reducing" and only the largest end or branch size given. Should the contractor wish to use the other fittings and brushes or reducers he may do so on the understanding that no claim in this regard will be entertained.</p>				
<p>Carried to Collection</p>			<p>R</p>	
<p>Bill No. 15 Plumbing And Drainage</p>				

	Unit	Quantity	Rate	Amount
<p><b><u>Fixing of pipes:</u></b>                      Unless specifically otherwise stated, descriptions of pipes shall be deemed to include for fixing to walls etc. casting in, building in or suspending not exceeding 1 m below suspension level.</p> <p><b><u>uPVC pressure pipes and fittings:</u></b>                      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 or sealed with butyl rubber rings.</p> <p><b><u>Wire gratings</u></b>                      Descriptions of gutter outlets etc. shall be deemed to include wire balloon gratings</p> <p><b><u>Sealing of edges:</u></b>                      Outer edges of sinks, basins, baths, urinals, etc are to be sealed against adjacent surfaces with approved silicone. Pricing for such units shall include for same.</p> <p><b><u>Paper wrapping to pipes:</u></b>                      Pipes chased into brickwork must be wrapped with two layers of stout brown paper tied with wire. Rates are to include for wrapping of chased pipes and around joints and fittings.</p> <p><b><u>Disinfection of water pipework:</u></b>                      Water pipework is to be disinfected at completion in accordance with SABS 1200L.</p> <p><b><u>Prices:</u></b>                      Prices of all pipes shall include for short lengths and cuttings, for all joints in length, including necessary couplings and for all jointing to fittings.                      Prices of all joints between pipes of dissimilar size and between taps, valves, etc. And shall in all cases be for the couplings or adaptors. Prices of flanged and bolted joints between pipes of dissimilar size and between valves, etc. Shall include for flanges drilled as required, flange adaptors, rubber insertion rings and necessary bolts and nuts.</p>				
Carried to Collection			R	
Bill No. 15 Plumbing And Drainage				



	Unit	Quantity	Rate	Amount
<p>Prices for all pipes in ground shall include for laying in ground, including digging trenches in earth, provision for risk of collapse to side of excavations, except where specifically measured in detail, keeping excavations free from water, bedding as described and for filling in and ramming in 150mm thick layers of G2 fill to 98% Modified AASHTO. Price of concrete encasement around pipes, bends, etc. And concrete anchor blocks, shall include for all additional excavation and formwork required.</p> <p><b><u>As-built drawings</u></b></p> <p>Where required, the contractor shall prepare an updated set of as-built drawings. At completion of the contract the contractor shall hand these drawings to the principal agent for reproducing onto the originals for handing over to the employer (provision for allowance of as-built drawings elsewhere).</p> <p><b><u>Drawings:</u></b></p> <p>Tenderers are to note that where descriptions include reference to drawings, notwithstanding anything contained in the descriptions, tenderers are to price these items in accordance with the drawings. Further, the onus is on the tenderer to ensure that all relevant drawings referenced in the Bills of Quantities are included in the tender documents. No additional time and/or monetary claims resulting from non-adherence to the above will be entertained.</p> <p><b><u>RAINWATER DISPOSAL</u></b></p> <p><b><u>uPVC Downpipes pipes, including casting into reinforced concrete slabs/columns.</u></b></p>				
1	m	134		
2	m	422		
3	m	94		
<p><b><u>Extra over for fittings, including casting into reinforced concrete slabs/columns.</u></b></p>				
4	m	23		
5	m	87		
6	m	7		
7	m	9		
8	m	8		
9	m	3		
Carried to Collection			R	
Bill No. 15 Plumbing And Drainage				

		Unit	Quantity	Rate	Amount
10	75 x 110mm uPVC Reducer	m	28		
11	110 x 160mm uPVC Reducer	m	22		
<b><u>Cast iron fullbore outlets, including casting into reinforced concrete slab</u></b>					
12	110mm Vertical outlet, including adaptor connection fitting to uPVC pipe (uPVC pipe elsewhere measured)	No	68		
13	110mm Two-way side outlet, including adaptor connection fitting to uPVC pipe (uPVC pipe elsewhere measured)	No	18		
14	160mm Vertical outlet, including adaptor connection fitting to uPVC pipe (uPVC pipe elsewhere measured)	No	24		
<b><u>Seamless aluminium pre-painted (Colour: White) gutters and rainwater pipes</u></b>					
15	440 x 150mm aluminium continuous extruded industrial profile gutter	m	195		
16	Extra over gutter for outlet for 110mm diameter pipe	No	39		
17	Extra over gutter for stopped end	No	12		
<b><u>Stainless steel rainwater pipes</u></b>					
18	110mm diameter stainless steel downpipes	m	31		
19	Extra over rainwater pipe for bend	No	39		
20	Spreader	No	39		
<b><u>SANITARY FITTINGS</u></b>					
<b><u>"Franke" or other approved stainless steel sanitary fittings:</u></b>					
21	Model SAPX597 Heavy Duty Wall and Floor Mounted WC Pan (Product code: 2540164) approximate size 395x550x445mm high manufactured from grade 304 (18/10) stainless steel 1,6mm thick with and including pressed concealed flushing rim, integral "P" trap with 100mm outlet pipe and 38mm back entry inlet pipe 450mm long, shroud, and external flanges for and including necessary stainless steel bolts to brickwork and concrete surfaces.	No	12		
	Carried to Collection				R
Bill No. 15					
Plumbing And Drainage					

		Unit	Quantity	Rate	Amount
22	Model SAPSDF Combination Wash Hand Basin & Drinking Fountain (Product code: 2520011) approximate size 370x490x125mm manufactured from grade 304 (18/10) stainless steel 1,6mm thick with and including 40mm welded waste outlet, 15mm self-metering bibtap and fixing lugs as required, to be fixed 125mm recessed into hollow walls.	No	12		
23	Model Rondo RNDH 300 Round inset vanity basin (Product Code: 2520006), with and including 18mm flange and 40mm waste outlet and overflow hole.	No	1		
24	Stainless Steel wall hung back entry WC pan (Product Code: 2540137-001) approximate size 360x500x350mm manufactured from grade 304 (18/10) stainless steel 1,6mm thick with and including concealed flushing rim, 100mm horizontal "P" trap outlet and seat holes to suit 'Warquin' (Product Code: 2540252) soft closing toilet seat D2, fixed with and including 3mm thick wall mounting plate and 4no. 8mm anchor bolts and including "Gebrit Kombifix" or other approved concealed cistern with and including square profile dual flush system and actuator plate, unit to be fixed with and including galvanised mounting frame, 4no. Fastening brackets and 8no. M12 threaded rods 500mm long.	No	38		
25	'Model Oval A' wall mounted wash hand basin (Product Code: 2520029) approximate size 420 x 340 x 185mm High manufactured from grade 304 (18/10) stainless steel 1,2mm thick with and including one piece pressed bowl size 360 x 280 x 130mm deep, 40mm waste outlet, 50mm splashback and 100mm radiused apron, unit to be fixed to brickwork with and including 4no. 8mm anchor bolts.	No	37		
26	'Model Oval B' wall mounted wash hand basin (Product Code: 2520028) approximate size 420 x 336 x 130mm high manufactured from grade 304 (18/10) stainless steel 1,2mm thick with and including one piece pressed bowl 360 x 280 x 130mm deep, 40mm waste outlet, 30mm splashback and 30mm radiused apron, with unit to have 1no. taphole cut-out and fixed with and including 4no. 20 x 20mm square gallows brackets and 4no. 6mm anchor bolts.	No	3		
27	SE Barron bowl urinal (Product Code 2540060) BE security type manufactured from grade 304 (18/10) stainless steel 1,2mm thick with and including integral 40mm waste outlet with pressed and perforated stainless steel grid, chrome plated button spreader and 15mm coupling, and 2mm thick mounting plate with 2no. Slots for wall mounting with and including necessary fixing bolts, etc.	No	8		
				Carried to Collection	R
Bill No. 15					
Plumbing And Drainage					

		Unit	Quantity	Rate	Amount
28	'Model Rondo RNDH 360' inset vanity basin (Product Code 2520007) approximate size 360mm Diameter x 158mm deep with and including 12,5mm flange and 40mm waste outlet and overflow hole.	No	2		
29	Stainless Steel wall hung paraplegic WC pan (Product Code: 2540138-004) approximate size 360x700x350mm. manufactured from grade 304 (18/10) stainless steel 1,6mm thick with and including concealed flushing rim, 100mm horizontal "P" trap outlet and seat holes to suit 'Warquin' (Product Code: 2540252) soft closing toilet seat D2, fixed with and including 3mm thick wall mounting plate and 4no. 8mm anchor bolts and including "Gebrit Kombifix" or other approved concealed cistern with and including square profile dual flush system and actuator plate, unit to be fixed with and including galvanised mounting frame, 4no. Fastening brackets and 8no. M12 threaded rods 500mm long.	No	3		
30	CDX621-120 Cascade inset Double bowl Sink (Product Code: 1990027) - Stainless Steel approximate size 1200 x 500mm fitted onto cupboard (cupboard elsewhere measured) complete with and including 90mm waste fitting with overflow.	No	5		
31	'Model CMPX592' wall hung WC pan approximate size 360 x 550 x 350mm High manufactured from grade 304 (18/10) stainless steel 1.6mm thick with and including concealed flushing rim, 100mm horizontal "P" trap outlet and seat holes to suit "Warquin" soft closing toilet seat D2 ( seat elsewhere measured), fixed with and including 3mm thick wall mounting plate and 4no. 8mm anchor bolts and including "Gerbrit kombifix" or other approved concealed cistern with and including square profile dual flush system and actuator plate, unit to be fixed with and including galvanised mounting frame, 4no. Fastening brackets and 8no. M12 threaded rods 500mm long.	No	3		
32	'Warquin' (Product Code: 2540252) soft closing toilet seat D2 including fixing with and including approved fixings.	No	44		
<b><u>WASTE UNIONS ETC</u></b>					
<b><u>Cobra Watertech or other approved</u></b>					
33	40mm 303 CP basin waste union and 309CP anti-theft plug	No	53		
				Carried to Collection	R
Bill No. 15					
Plumbing And Drainage					

	Unit	Quantity	Rate	Amount
<b><u>TRAPS ETC</u></b>				
34	"Cobra Watertech" 'Model 238-15' or other approved shallow seal shower "P" trap with and including chromium plated grating and required rough brass male and female outlets.	No	1	
<b><u>Rubber</u></b>				
35	50 x 50mm P trap	No	38	
36	38 x 40mm Double bowl sink reseal "P" trap combination	No	5	
<b><u>Bottle trap</u></b>				
37	32 x 40mm 360 CP bottle trap	No	25	
<b><u>TAPS, VALVES, ETC</u></b>				
<b><u>"Franke" or other approved:</u></b>				
38	Franke Model "Aquamix-C Aqua202" or other approved deck mounted polished chromium-plated brass self closing bib tap (Product Code: F5SM1007 -2150001).	No	42	
39	Franke Model "Aquamix-C Aqua205" or other approved wall mounted polished chromium-plated brass self closing hot and cold pillar metering tap Product Code: F5SM1001 - 2150030).	No	16	
40	Saturn Cube or other approved 363x220x50mm stainless steel Sink Mixer (Product code: 1150036) with overarm swivel spout and 15mm flexible connections.	No	5	
41	Self closing bib tap (Product code: 2150091).	No	39	
<b><u>"Cobra Watertech" or other approved stainless steel fittings:</u></b>				
42	"Cobra Watertech" or other approved 15mm chrome plated shower arm with wall flange (code: P-024) with easy spray chrome plated shower rose (code: 0707CP). To have NOKA single lever 15mm chrome undertile shower mixer with classic handle and stepped blanking plug (code: NA-956)	No	1	
<b><u>"Cobra Watertech" or other approved:</u></b>				
43	Ball-o-stop valve	No	124	
<b><u>"Cobra Watertech" or other approved:</u></b>				
44	FM1.100 Flushmaster Standard flush valve	No	56	
<b><u>"Walcro" or other approved:</u></b>				
45	101 metering tap as per 5-star standard requirements	No	12	
			Carried to Collection	R
Bill No. 15 Plumbing And Drainage				

	Unit	Quantity	Rate	Amount
46	Cirs Hexs overhead ceiling shower with resistant sleeve. Shower to have a push-button metering, non hold open valve as prison type Walcro 155S with extension ring or other approved in accordance with 5-star detailed specification.	No	12	
47	Walcro 330 Urinal flush valve	No	8	
	<b><u>"Hansgrohe" or other approved:</u></b>			
48	HANSGROHE LOGIS Model "HG-71604000" Single Lever Shower Mixer or other approved chrome shower mixer with and including Hansgrohe Basic Set For Single Lever Concealed Bath/Shower Mixer, all in accordance with manufacturer's instructions	No	1	
49	HANSGROHE Model "HG-27413000" DN15 389mm Chrome Shower Arm or other approved chrome shower arm	No	1	
50	HANSGROHE Decor Care 70 Model "HG-31910223" Basin Mixer Chrome or other approved chrome mixer	No	6	
	<b><u>"Splashworks" or other approved:</u></b>			
51	SPLASHWORKS Model "SPL-C390-6SS" 6" 152.4mm Stainless Steel Round Shower Rose or other approved stainless steel shower rose	No	1	
	<b><u>SANITARY PLUMBING</u></b>			
	<b><u>uPVC soil and vent pipes, including chasing through walls where required.</u></b>			
52	50mm Pipes	m	190	
53	110mm Pipes	m	360	
54	50mm Pipes chased into brickwork	m	46	
55	110mm Pipes chased into brickwork	m	15	
	<b><u>Extra over uPVC soil and vent pipes for fittings</u></b>			
56	50mm BSP adaptor	No	8	
57	110 x 50mm Reducer	No	28	
58	110mm Pan connector	No	56	
59	50mm Bend	No	113	
60	110mm Bend	No	142	
61	50mm Junction	No	71	
62	110mm Junction	No	32	
	Carried to Collection			R
	Bill No. 15			
	Plumbing And Drainage			

		Unit	Quantity	Rate	Amount
63	110 x 50mm Reducing junction	No	21		
64	110 X 50mm Reducing Double junction	No	7		
65	110mm Double junction	No	9		
66	50mm Access bend	No	69		
67	110mm Access bend	No	53		
68	50mm Access junction	No	25		
69	110mm Access junction	No	10		
70	50mm Access Tee junction	No	19		
71	110mm Access Tee junction	No	29		
72	110mm Stubstack	No	28		
73	110mm Air vent cowl	No	14		
	<b><u>Sundries</u></b>				
74	Wire balloon grating in top of pipe not exceeding 110mm diameter	No	4		
	<b><u>Testing</u></b>				
75	Testing waste pipe system	Item			
	<b><u>WATER SUPPLIES</u></b>				
	<b><u>Class 2 copper pipes including brown paper lagging and chased into brickwork where deemed necessary</u></b>				
76	15mm Diameter pipes	m	291		
77	22mm Diameter pipes	m	328		
78	28mm Diameter pipes	m	232		
79	35mm Diameter pipes	m	193		
80	42mm Diameter pipes	m	125		
81	54mm Diameter pipes	m	153		
82	67mm Diameter pipes	m	11		
83	76mm Diameter pipes	m	308		
84	108mm Diameter pipes	m	32		
	<b><u>Extra over Class 2 copper pipes for capillary fittings</u></b>				
85	15mm Fittings	No	372		
86	22mm Fittings	No	259		
	Carried to Collection			R	
	Bill No. 15				
	Plumbing And Drainage				

		Unit	Quantity	Rate	Amount
87	28mm Fittings	No	91		
	<b><u>Extra over Class 2 copper pipes for capillary fittings, elbows, tees, all reducing fittings, etc.</u></b>				
88	35mm Elbow	m	17		
89	35mm Reducing elbow	m	8		
90	35mm Tees	m	13		
91	35mm Reducing tees	m	6		
92	42mm Elbow	m	4		
93	42mm Reducing elbow	m	6		
94	42mm Tee	m	8		
95	42mm Reducing tee	m	4		
96	54mm Elbow	m	6		
97	54mm Tees	m	8		
98	67mm Elbow	m	4		
99	67mm Tees	m	8		
100	76mm Elbow	m	15		
101	76mm Reducing elbow	m	8		
102	76mm Tees	m	11		
103	76mm Reducing tee	m	4		
104	108mm Elbow	m	4		
105	108mm Reducing elbow	m	3		
106	108mm Tees	m	11		
107	108mm Reducing tee	m	10		
	<b><u>Extra over Class 2 copper pipes for brass compression fittings</u></b>				
108	15mm Fittings	No	35		
109	22mm Fittings	No	22		
110	28mm Fittings	No	17		
	<b><u>Extra over Class 2 copper pipes for brass compression fittings</u></b>				
111	35mm Elbow	No	11		
				R	
Carried to Collection					
Bill No. 15 Plumbing And Drainage					





	Unit	Quantity	Rate	Amount
<b><u>Testing</u></b>				
139	Testing water pipe system	Item		
<b><u>ELECTRIC WATER HEATERS</u></b>				
<b><u>"Kwikot" or other approved</u></b>				
140	10 Litre Prisma over-basin electric water heater	No	1	
141	150 Litre floor/wall electric water heater	No	1	
<b><u>DRIP TRAYS, TANKS, ETC</u></b>				
<b><u>0.6mm Galvanised sheet steel</u></b>				
142	1560 x 560mm Drip tray for water heater, with 100mm high upstand all round with top edge bent over and with 22mm threaded outlet union.	No	16	
<b><u>TESTING</u></b>				
<b><u>Testing</u></b>				
143	Testing fire water pipe system	Item		
<b><u>HOLES ETC</u></b>				
<b><u>Core drilling hole not exceeding 50mm diameter</u></b>				
144	170mm Thick reinforced concrete slab, beam, wall, etc.	No	12	
145	255mm Thick reinforced concrete slab, beam, wall, etc.	No	9	
<b><u>Core drilling hole exceeding 50mm and not exceeding 150mm diameter</u></b>				
146	170mm Thick reinforced concrete slab, beam, wall, etc.	No	6	
147	255mm Thick reinforced concrete slab, beam, wall, etc.	No	8	
<b><u>Core drilling hole exceeding 150mm and not exceeding 250mm diameter</u></b>				
148	170mm Thick reinforced concrete slab, beam, wall, etc.	No	4	
149	255mm Thick reinforced concrete slab, beam, wall, etc.	No	2	
<b><u>AS-BUILT DRAWINGS</u></b>				
<b><u>Drawings</u></b>				
150	Provision of as-built drawings	Item		
<b><u>BUILDERS'S WORK</u></b>				
151	Allow the sum of R 120 000.00 (One Hundred and Twenty Thousand Rand ) for piping and drainage installation for Airconditioning units condensate run-off.	Item		120 000 00
			R	
Carried to Collection				
Bill No. 15 Plumbing And Drainage				

Amount

**BILL NO. 15**  
**PLUMBING AND DRAINAGE**  
**COLLECTION**

Page No

Brought Forward from Page

134

135

136

137

138

139

140

141

142

143

144

145

146

Carried to Summary

R

Unit      Quantity      Rate      Amount

**BILL NO. 16**  
**GLAZING**

The bidder is referred to the relevant clauses in the construction works general specifications (PW 371 A), to the Architectural and Structural/Civil Engineering specifications documents, to the drawings (which are to be read in conjunction with the architectural specification), and to all general and project-specific specifications as contained in the complete Bid Documents. Bidders are thus urged to study these documents as rates will be deemed to be inclusive of all requirements as included in same. Further, should any discrepancy be noted between these Bills of Quantities and the Specifications, the Specifications shall take precedence.

Further to the above, Bidders are to note that the latest edition of SANS 10400, current at the time of the tender, will form part of the specifications to this contract and as such, pricing shall be deemed to include for complete conformance in all respects to the requirements of SANS 10400.

**SUPPLEMENTARY PREAMBLES**

**Working at Heights:**

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

Carried to Collection

R

Bill No. 16  
Glazing

		Unit	Quantity	Rate	Amount
<p><b><u>Labour Intensive</u></b></p> <p>Tenderers are to note well that specific items within these Bills of Quantities have been designated as LABOUR INTENSIVE by the addition of the aforementioned words in uppercase at the end of the description for the said item. Where items have been designated as being LABOUR INTENSIVE as described, pricing shall be deemed to include for the carrying out to completion of said item on site by means and methods that rely predominantly on manual labour. As such, no claims shall be entertained regarding any additional time or monetary costs incurred by the use of LABOUR INTENSIVE methods. Further, the Contractor is to note that contravention of the above i.e. use of mechanised systems to carry out LABOUR INTENSIVE work as hereinafter designated, will be viewed and dealt with in an extremely serious light by the Client, as it remains a national imperative to develop, employ and provide skills through the Extended Public Works Programme.</p>					
<p><b><u>Float glass</u></b></p> <p>The term 'float glass' is used for monolithic annealed glass</p>					
<p><b><u>Laminated glass</u></b></p> <p>Laminated glass to have polyvinyl butyral (PVB) interlayer(s)</p> <p>Drawings:</p> <p>Tenderers are to note that where descriptions include reference to drawings, notwithstanding anything contained in the descriptions, tenderers are to price these items in accordance with the drawings. Further, the onus is on the tenderer to ensure that all relevant drawings referenced in the Bills of Quantities are included in the tender documents. No additional time and/or monetary claims resulting from non-adherence to the above will be entertained.</p>					
<p><b><u>GLAZING TO STEEL WITH PUTTY</u></b></p> <p><b><u>6.5mm Laminated safety glass in accordance with AAAMSA Regulations</u></b></p>					
1	Panes exceeding 0,5m <sup>2</sup> and not exceeding 2m <sup>2</sup>	m <sup>2</sup>	48		
<p><b><u>GLAZING TO WOOD WITH PUTTY</u></b></p> <p><b><u>6.8mm Laminated safety glass</u></b></p>					
2	Panes exceeding 0,5m <sup>2</sup> and not exceeding 2m <sup>2</sup>	m <sup>2</sup>	261		
				Carried to Collection	R
<p>Bill No. 16 Glazing</p>					

	Unit	Quantity	Rate	Amount
<b><u>BULLET PROOF GLAZING</u></b>				
<b><u>28mm Bullet resistant glazing in accordance with AAAMSA Regulations</u></b>				
3	m <sup>2</sup>	3		
4	m <sup>2</sup>	20		
<b><u>TOPS, SHELVES, DOORS, MIRRORS, ETC</u></b>				
<b><u>6.35mm Thick optical grade glass copper backed mirror with minimum surface flatness of λ/20 and minimum surface quality 20 - 10 Scrath/Dig, holed for and fixed with chromium plated dome capped mirror screws with rubber buffers to plugs in brickwork or concrete</u></b>				
5	No	2		
6	No	1		
7	No	2		
8	No	1		
9	No	1		
10	No	13		
11	No	6		
12	No	4		
Carried to Collection			R	
Bill No. 16 Glazing				

Amount

**BILL NO. 16**  
**GLAZING**  
**COLLECTION**

Page No

Brought Forward from Page

148

149

150

Carried to Summary

R

Bill No. 16  
Glazing

Unit      Quantity      Rate      Amount

**BILL NO. 17**  
**PAINTWORK**

The bidder is referred to the relevant clauses in the construction works general specifications (PW 371 A), to the Architectural and Structural/Civil Engineering specifications documents, to the drawings (which are to be read in conjunction with the architectural specification), and to all general and project-specific specifications as contained in the complete Bid Documents. Bidders are thus urged to study these documents as rates will be deemed to be inclusive of all requirements as included in same. Further, should any discrepancy be noted between these Bills of Quantities and the Specifications, the Specifications shall take precedence.

Further to the above, Bidders are to note that the latest edition of SANS 10400, current at the time of the tender will form part of the specifications to this contract and as such, pricing shall be deemed to include for complete conformance in all respects to the requirements of SANS 10400.

**SUPPLEMENTARY PREAMBLES**

**Working at Heights:**

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

Carried to Collection

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Bill No. 17  
 Paintwork



	Unit	Quantity	Rate	Amount
<p><b><u>Labour Intensive</u></b></p> <p>Tenderers are to note well that specific items within these Bills of Quantities have been designated as LABOUR INTENSIVE by the addition of the aforementioned words in uppercase at the end of the description for the said item. Where items have been designated as being LABOUR INTENSIVE as described, pricing shall be deemed to include for the carrying out to completion of said item on site by means and methods that rely predominantly on manual labour. As such, no claims shall be entertained regarding any additional time or monetary costs incurred by the use of LABOUR INTENSIVE methods. Further, the Contractor is to note that contravention of the above i.e. use of mechanised systems to carry out LABOUR INTENSIVE work as hereinafter designated, will be viewed and dealt with in an extremely serious light by the Client, as it remains a national imperative to develop, employ and provide skills through the Extended Public Works Programme.</p> <p><b><u>Previously painted plastered surfaces</u></b></p> <p>Surfaces shall be thoroughly washed down and allowed to dry completely before any paint is applied. Blistered or peeling paint shall be completely removed and cracks shall be opened, filled with a suitable filler and finished smooth</p> <p><b><u>Previously painted metal surfaces</u></b></p> <p>Surfaces shall be thoroughly rubbed and cleaned down. Blistered or peeling paint shall be completely removed down to bare metal</p> <p><b><u>Previously painted wood surfaces</u></b></p> <p>Surfaces shall be thoroughly cleaned down. Blistered or peeling paint shall be completely removed and cracks and crevices shall be primed, filled with suitable filler and finished smooth</p> <p><b><u>General preparation to all surfaces:</u></b></p> <p>All surfaces (interior and exterior) shall be thoroughly cleaned down before decoration to remove all dirt, grease, dust and rust, etc. , as applicable by whatever means necessary without damage to surfaces beneath, and in strict accordance with the paint manufacturers instructions to leave same in perfect condition to receive new paintwork.</p> <p>All surfaces shall be sanded down smooth prior to application of first coat of paint and between succeeding coats.</p> <p>Spot sheets are to be provided to prevent spotting of all adjacent surfaces.</p>				
Carried to Collection			R	
<p>Bill No. 17 Paintwork</p>				

		Unit	Quantity	Rate	Amount
<p><b><u>Finishing coats:</u></b>                      Tenderers are to note that where two or more finishing coats are specified, this is the minimum requirement in order to achieve a finished surface of high quality. Should insufficient cover be achieved after said minimum, additional coats are to be applied at no additional cost of the Contract and to the satisfaction of the Principal Agent. Onus therefore rests on the Contractor to ensure that preparatory work is sufficient.</p>					
<p><b><u>Sight lines:</u></b>                      The Contractor is to note that careful attention is required to ensure that paintwork does not encroach over sight lines. Masking of adjacent surfaces is to be carried out if deemed necessary or if instructed by the Principal Agent, at no additional cost.</p>					
<p><b><u>Surfaces to be dry:</u></b>                      All plastered wall and ceiling surfaces shall be perfectly dry prior to application of paint.</p>					
<p><b><u>Sanding to timber floors:</u></b>                      Timber floors are to be sanded as necessary to achieve a smooth surface free of defects, indentations, imperfections and the like, and suitable to painting of a high quality finish. No additional claims in this regard will be entertained.</p>					
<p>Drawings:                      Tenderers are to note that where descriptions include reference to drawings, notwithstanding anything contained in the descriptions, tenderers are to price these items in accordance with the drawings. Further, the onus is on the tenderer to ensure that all relevant drawings referenced in the Bills of Quantities are included in the tender documents. No additional time and/or monetary claims resulting from non-adherence to the above will be entertained.</p>					
<p><b><u>PAINTWORK TO NEW WORK</u></b></p>					
<p><b><u>ON INTERNAL FLOATED PLASTER SURFACES</u></b></p>					
<p><b><u>One coat 'Dulux Trade' or other approved alkali resistant primer and two coats of 'Dulux Trade 100 low sheen' or other approved paint.</u></b></p>					
1	Walls	m <sup>2</sup>	17 531		
<p><b><u>One coat 'Dulux Trade' or other approved alkali resistant primer and two coats of 'Dulux Gloss Enamel' or other approved water based enamel paint</u></b></p>					
2	Walls	m <sup>2</sup>	3 388		
				Carried to Collection	R
<p>Bill No. 17                      Paintwork</p>					

		Unit	Quantity	Rate	Amount
<b><u>ON SMOOTH CONCRETE SURFACES</u></b>					
<b><u>One coat 'Dulux Trade' or other approved alkali resistant primer and two coats of 'Dulux Trade 65 Matt' or other approved PVA paint.</u></b>					
3	Ceilings and beams	m <sup>2</sup>	13 801		
4	Walls, columns, etc	m <sup>2</sup>	3 431		
5	On precast concrete cills	m <sup>2</sup>	436		
6	On precast concrete grille blocks	m <sup>2</sup>	396		
7	On precast concrete copings	m <sup>2</sup>	204		
<b><u>ON INTERNAL GYPSUM PLASTER SURFACES</u></b>					
<b><u>Prepare and clean down thoroughly to remove all dirt, grime, debris, contaminants and deleterious matter and apply one coat 'Dulux Trade' or other approved alkali resistant primer and two coats of 'Dulux Trade 65 Matt' or other approved PVA paint.</u></b>					
8	Ceilings and cornices	m <sup>2</sup>	35		
9	Bulkheads	m <sup>2</sup>	1 021		
<b><u>ON METAL SURFACES</u></b>					
<b><u>One coat 'Dulux Primer for Steel' or other approved primer, one coat 'Dulux Trade Universal Undercoat' or other approved undercoat and two coats 'Dulux Gloss Enamel' or other approved enamel paint:</u></b>					
10	Windows	m <sup>2</sup>	97		
11	Doors	m <sup>2</sup>	178		
12	Door frames	m <sup>2</sup>	157		
13	Gates, grilles, burglar screens, balustrades, etc. (both sides measured over the full flat area)	m <sup>2</sup>	359		
<b><u>ON WOOD SURFACES</u></b>					
<b><u>One coat 'Dulux Primer for Wood' or other approved timber primer and two coats 'Dulux Woodgard Interior/Exterior Timbavarnish' or other approved varnish:</u></b>					
14	Doors	m <sup>2</sup>	1 047		
15	Door frames etc.	m <sup>2</sup>	489		
16	Skirtings, rails, etc. not exceeding 300mm girth	m	374		
	Carried to Collection			R	
Bill No. 17 Paintwork					

	Unit	Quantity	Rate	Amount
<b><u>Three coats 'Dulux Woodgard Interior/Exterior Timbavarnish' or other approved varnish:</u></b>				
17	Timber slats	m <sup>2</sup>	194	
18	Timber cladding	m <sup>2</sup>	681	
<b><u>Two coats oil wood primer</u></b>				
19	Backs of frames, linings, etc not exceeding 300mm wide	m	1 343	
Carried to Collection			R	

Amount

**BILL NO. 17**  
**PAINTWORK**  
**COLLECTION**

Page No

Brought Forward from Page

152

153

154

155

156

Carried to Summary

R

Bill No. 17  
Paintwork

Amount

**BILL NO. 18**

**PROVISIONAL SUMS**

The bidder is referred to the relevant clauses in the construction works general specifications (PW 371 A), to the Architectural and Structural/Civil Engineering specifications documents, to the drawings (which are to be read in conjunction with the architectural specification), and to all general and project-specific specifications as contained in the complete Bid Documents. Bidders are thus urged to study these documents as rates will be deemed to be inclusive of all requirements as included in same. Further, should any discrepancy be noted between these Bills of Quantities and the Specifications, the Specifications shall take precedence.

Further to the above, Bidders are to note that the latest edition of SANS 10400, current at the time of the tender will form part of the specifications to this contract and as such, pricing shall be deemed to include for complete conformance in all respects to the requirements of SANS 10400.

**SUPPLEMENTARY PREAMBLES**

**Working at Heights:**

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

**Labour Intensive**

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

**General**

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

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

Carried to Collection

R

Bill No. 18

Provisional Sums

Amount

**Profit**

Where stated, the contractor may allow for profit if required

**General attendance on nominated/selected subcontractors**

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

1 The services as set out in clause B9.1 of the Preliminaries 2 Making good in all trades and cleaning down and removal of rubbish on completion

**Special attendance on nominated/selected subcontractors**

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

**Builder's work**

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

Drawings:

Tenderers are to note that where descriptions include reference to drawings, notwithstanding anything contained in the descriptions, tenderers are to price these items in accordance with the drawings. Further, the onus is on the tenderer to ensure that all relevant drawings referenced in the Bills of Quantities are included in the tender documents. No additional time and/or monetary claims resulting from non-adherence to the above will be entertained.

**PROVISIONAL SUMS FOR SUBCONTRACT WORKS**

**Signage (Domestic Subcontract Works)**

1	Provide the sum of R 750,000.00 (Seven Hundred and Fifty Thousand Rand Only) for signage complete	Item	750 000 00
2	Profit	Item	
3	Attendance	Item	

**Structural Steel (Domestic Subcontract Works)**

4	Provide the sum of R 1 600,000.00 (One Million and Six hundred Thousand Rand Only) for structural steelwork for sub-frame to external louvres	Item	1 600 000 00
5	Profit	Item	
6	Attendance	Item	

**Artwork (Selected Subcontract Works)**

7	Provide the sum of R 5 500,000.00 (Five Million and Five hundred Thousand Rand Only) for artwork complete	Item	5 500 000 00
8	Profit	Item	
9	Attendance	Item	

Carried to Collection

R

Bill No. 18  
Provisional Sums

Amount

**BILL NO. 18**  
**PROVISIONAL SUMS**  
**COLLECTION**

Page No

Brought Forward from Page

158

159

Carried to Summary

**R**





<u>SUMMARY - BUILDING WORKS</u>		<u>PAGE</u>	<u>AMOUNT</u>
1	EARTHWORKS	6	
2	CONCRETE, FORMWORK AND REINFORCEMENT	18	
3	PRECAST CONCRETE	22	
4	MASONRY	30	
5	WATERPROOFING	35	
6	ROOF COVERINGS	42	
7	CARPENTRY AND JOINERY	72	
8	CEILINGS, PARTITIONS AND ACCESS FLOORING	79	
9	FLOOR COVERINGS	82	
10	IRONMONGERY	94	
11	STRUCTURAL STEELWORK	100	
12	METALWORK	123	
13	PLASTERING	128	
14	TILING	133	
15	PLUMBING AND DRAINAGE	147	
16	GLAZING	151	
17	PAINTWORK	157	
18	PROVISIONAL SUMS	160	
Carried to Summary - Builders Work and EPWP (Page 259)		R	