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JOHANNESBURG PROPERTY COMPANY
Public Convenience
Soweto & Ivory Park

Item No		Quantity	Rate	Amount
	<u>SECTION NO. 2</u>			
	<u>BILL NO.2</u>			
	<u>DEMOLITIONS AND ALTERATIONS</u>			
	NOTE: The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades (1999 Edition), the Department of Public Works document No. PW 371 Specification of Materials and Methods to be used and to the Supplementary Preambles which are incorporated at the front of these Bills of Quantities.			
1	The alterations to the electrical and air conditioning reticulation installations shall be executed by selected sub-contractors (as elsewhere provided) and the Contractor shall be responsible for the co-ordination of such work with his own.	Item		
2	Prices for the demolition of any portion of the structure shall include for its demolition complete with all surface finishes such as plaster, screeds, etc., all attached items of joinery such as skirtings, etc. and all reinforcement, conduit, pipes, lintels, etc. built into that portion of the structure and the removal from site thereof.	Item		
3	Prices for the removal of doors and frames shall include for the removal of fanlights, ironmongery, architraves and other associated trim.	Item		
4	Prices for the removal of windows shall include for the removal of glass, louvres, etc. attached to the windows.	Item		
5	The Contractor is advised to take all dimensions affecting the existing building on the site as he will be held solely responsible for all new work being of the correct size.	Item		
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6	All sizes for building up or forming openings are net and the Contractor must allow in his prices for extra labour and material, cutting and bonding new to existing brickwork, building square jambs, building cavities solid and removing old sills as necessary, and for making good junction of new plaster with old including all extra patching to work disturbed beyond the net size of the openings, which are to be formed or built up.	Item		
7	All materials and workmanship in building up, making good etc., are to match existing and where new materials abut existing, they are to be neatly joined to same.	Item		
8	The contractor is advised to visit the site to acquaint himself with the types of construction and finishes so that he may price "to match existing" items where called for.	Item		
9	"Making good" existing work where disturbed or damaged shall mean the provision of the necessary new material to match existing and the necessary workmanship so that a complete and perfect restoration is achieved to the satisfaction of the Architect.	Item		
10	"Making good" where abutting walls etc. are removed shall mean the provision of the necessary material and workmanship in filling the gaps to match surrounding finishes so that a complete and perfect surface, is obtained to the satisfaction of the Architect.	Item		
11	The rates for "taking out", "taking down" of windows, doors etc., from brickwork to remain are to include for making good all work disturbed to match surrounding finishes.	Item		
12	Contractor to allow for removal of rubble, accumulated rubbish on site.	Item		
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13	Contractor to allow for full photographic survey of site internally and externally upon receipt of possession of site. Photos to be sent to Principal Agent and signed off before performing any work.		Item		
	<u>Temporary barricades, screens, roofs, etc including removal</u>				
14	Temporary wire mesh fencing as hoarding from construction site, total height 3m with temp partition.	m	25		
15	Extra over fencing for gate 813 x 2032mm high, including steel frame, padlock, primer and two coats paint	No	1		
	<u>Taking up and removing floor coverings and preparing screeds for new floor coverings</u>				
16	Torch on waterproofing to roofs	m2	60		
	<u>Hacking up/off and removing ceramic tiles including removing mortar bed or adhesive from concrete or brickwork and preparing surfaces for new screed, plaster, tile finish, etc</u>				
17	Tiles to floors	m2	35		
18	Tiles to walls	m2	27		
	<u>Taking out and removing piping, sanitary fittings, etc, including cutting off as necessary, disconnecting piping from fittings and making good floor and wall finishes (making good tiling and paintwork elsewhere)</u>				
19	Vitreous china WC pan with cistern	No	4		
20	Vitreous china wash hand basin, including short lengths of piping, etc	No	2		
21	Urinal bowl fixed to walls.	No	1		
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<u>MAKING GOOD OF FINISHES, ETC</u>				
<u>Treatment of existing tiles</u>				
22	Existing tiled floors to be powerwashed deep cleaned with appropriate chemicals and high pressure water. Contractor to ensure adequate drainage into stormwater and avoid flooding tenanted areas.	m2	235	
23	Existing tiled walls to be powerwashed deep cleaned with appropriate chemicals and high pressure water. Contractor to ensure adequate drainage into stormwater and avoid flooding tenanted areas.	m2	536	
<u>Treatment of existing painted and face brick walls</u>				
24	Existing face and painted walls to be powerwashed with high pressure water including soap. Contractor to ensure adequate drainage into stormwater and avoid flooding tenanted areas.	m2	185	
<u>Making good cement screeds</u>				
25	25mm Thick on floors in patches	m2	14	
<u>Making good gypsum plasterboard ceilings and timber brandering</u>				
26	Ceilings in patches	m2	7	
<u>Making good internal cement plaster</u>				
27	Walls in patches	m2	16	
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Item No		Quantity	Rate	Amount
	<u>SECTION NO. 3</u>			
	<u>BILL NO. 3</u>			
	<u>WATERPROOFING</u>			
	NOTE: The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades (1999 Edition), the Department of Public Works document No. PW 371 Specification of Materials and Methods to be used and to the Supplementary Preambles which are incorporated at the front of these Bills of Quantities.			
	<u>WATERPROOFING TO ROOFS, ETC</u>			
	<u>Prime with bitumen primer and "torch on" two layers of Derbigum SP or equal approved membrane 4 mm thick, with a ten year guarantee, all in accordance with the manufacturers' instructions, to:</u>			
1	Roofs including turn-ups and turn-downs not exceeding 300 mm high.	m2	60	
2	Sides of concrete upstands..	m2	12	
3	Provide additional sheet dressed into Fullbore outlet	No	2	
	<u>Protective roofing paint</u>			
4	Apply two coats bituminous aluminium paint on newly laid waterproofing.	m2	240	
	Carried to Collection			R
	Section No. 1 Bill No. 3 Waterproofing			

SERVICING OF WATERPROOFING TO EXISTING CONCRETE ROOFS

Contractors to check all torch on waterproofing including to turn ups and locate leaks and clean of existing fullbores and downpipes as required and allow for repainting of waterproofing with two coats bituminous aluminium paint.

5	Roof covering with pitches not exceeding 25 degrees	m2	235
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Waterproofing

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Item No		Quantity	Rate	Amount
	<u>SECTION NO. 4</u>			
	<u>BILL NO 4</u>			
	<u>CARPENTRY AND JOINERY</u>			
	NOTE: The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades (1999 Edition), the Department of Public Works document No. PW 371 Specification of Materials and Methods to be used and to the Supplementary Preambles which are incorporated at the front of these Bills of Quantities.			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	<u>DOORS ETC</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	<u>SEMI- SOLID FLUSH PANEL DOORS WITH TWO CONCEALED EDGES TO EACH LEAF HUNG TO STEEL OR TIMBER FRAMES</u>			
1	40 mm Door size 813 mm x 2032 mm with commercial veneer backing.	No	2	
2	40 mm Door size 912 mm x 2955 mm with commercial veneer.	No	1	
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	Section No. 1 Bill No. 4 Carpentry and Joinery			

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Item No		Quantity	Rate	Amount
	<u>SECTION NO. 5</u>			
	<u>BILL NO.5</u>			
	<u>IRONMONGERY</u>			
	<p>NOTE:</p> <p>The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades (1999 Edition), the Department of Public Works document No. PW 371 Specification of Materials and Methods to be used and to the Supplementary Preambles which are incorporated at the front of these Bills of Quantities.</p> <p>NOTE: Prices are to include for fixing ironmongery to softwood, hardwood or pressed metal door frames, etc.</p> <p><u>Locks and furniture:</u></p>			
1	Supply (PC : R200) and installation of door handle.	No	44	
2	Supply (PC : R450) and installation of WC indicator bolt.	No	22	
3	Supply (PC : R50) and installation of door stop plugged and screwed to brickwork or concrete.	No	22	
4	Supply (PC : R2500) and installation of door closer fixed to frame.	No	1	
	<u>Supply and fix the following ironmongery:</u>			
5	32 mm Diameter stainless steel rear grab rail (Code SR2) from Chairman Industries bolted to wall with 6 mm diameter stainless steel bolts, all as the manufacturer's instructions.	No	8	
6	32 mm Diameter stainless steel side grab rail (Code DL2) from Chairman Industries ditto.	No	8	
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	Section No. 1			
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	Ironmongery			

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Item No		Quantity	Rate	Amount
	<u>SECTION NO. 6</u>			
	<u>BILL NO. 6</u>			
	<u>METALWORK</u>			
	NOTE: The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades (1999 Edition), the Department of Public Works document No. PW 371 Specification of Materials and Methods to be used and to the Supplementary Preambles which are incorporated at the front of these Bills of Quantities.			
	<u>STEEL WELDED SCREENS, GATES, ETC</u>			
	<u>Screens and gates</u>			
1	Service steel transformer room door 1800 x 2100mm including grinding off welded shut locks, repairs to hinges, locks etc.	No	1	
	Carried Forward to Summary of Section No. 1			R
	Section No. 1 Bill No. 6 Metalwork			

Item No		Quantity	Rate	Amount
	<u>SECTION NO. 7</u>			
	<u>BILL NO. 7</u>			
	<u>TILING</u>			
	NOTE: The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades (1999 Edition), the Department of Public Works document No. PW 371 Specification of Materials and Methods to be used and to the Supplementary Preambles which are incorporated at the front of these Bills of Quantities.			
	<u>WALL TILES</u>			
	<u>Ceramic tiles (PC R 100-00/m2 supplied and delivered) fixed with "Tal" or a similar approved adhesive all in strict accordance with the manufacturer's instructions on a cement plaster backing (elsewhere measured) with joints grouted in solid in "Tal" or equal approved wall tile grout including all square cutting and waste to:</u>			
1	Walls.	m2	27	
2	Walls in narrow widths not exceeding 300mm.	m2	5	
	<u>FLOOR TILES</u>			
	<u>Ceramic floor tiles (PC R 70-00/m2 supplied and delivered) fixed with "Tal Gold Star 6" or similar approved adhesive in strict accordance with the manufacturer's instructions on power floated concrete floor with joints grouted in solid in "Tal" or equal approved floor tile grout including all square cutting and waste to:</u>			
3	Floors.	m2	35	
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	Section No. 1 Bill No. 7 Tiling			

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Item No		Quantity	Rate	Amount
	<u>SECTION NO. 8</u>			
	<u>BILL NO. 8</u>			
	<u>PLUMBING AND DRAINAGE</u>			
	<p>NOTE:</p> <p>The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades (1999 Edition), the Department of Public Works document No. PW 371 Specification of Materials and Methods to be used and to the Supplementary Preambles which are incorporated at the front of these Bills of Quantities.</p> <p>All rates supplied in this Bill of Quantities will be deemed to include scaffolding to any height and fixing of cold and hot water pipes up to and including roof height. All pipes suspended from concrete slabs, roof, ceiling, etc. shall be deemed to include in the rates, all necessary hanger brackets, threaded rod (irrespective of the suspension length), nuts, washers, anchors and drilling of holes in the concrete slab. For the complete supply, delivery and installation of supply piping, as specified, piping to include piping between geysers on roof. All cold and hot water pipes are to be chased into walls except where pipes are to be surface-mounted on wall face or run in ceiling voids or inside ducts, and fixed with standard type pipe saddlers and brackets at 1000mm maximum.</p>			
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These bills of quantities form part of and must be read in conjunction with the Technical Specifications and Drawings, which contain the full descriptions of the work to be done and material and equipment to be used. Unless otherwise described in these bills of quantities, reference should be made to the Technical Specifications for the full meaning of descriptions of work to be done and materials and equipment to be used in this service. All materials, equipment, fixings, brackets, etc., are to be supplied by the Contractor unless otherwise stated.

RAINWATER DISPOSAL

Gratings, covers, etc

- 1 Precast concrete stormwater inlet 370mm x 600mm frame

No

1

SANITARY FITTINGS

Wash Hand Basins

- 2 Surface mounted 500mm x 500mm white glazed semi-recessed wash hand vanity basin (PC : R 1000) with single tap hole complete with single lever tap (PC: R500) and including angle valves and chrome connectors including pop up waste, connected in position complete with an approved waterproof sealer.

No

2

Toilets

- 3 Close-coupled WC suite (PC : R1 500) comprising pan with double flap heavy duty wooden seat and matching 9 litre cistern.

No

2

- 4 Paraplegic close-coupled WC suite (PC : R4 000) comprising pan with matching 9 litre cistern and purpose made CP side flush lever (left or right) supplied with purpose made urea seat and cover plate.

No

2

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<u>Bowl Urinals</u>				
5	Stainless bowl urinal (PC : 1500) including hanger brackets, trap and associated parts fitted complete including urinal flush valve with shut of valve including all necessary connections to urinal.	No	1	
<u>Taps</u>				
6	Supply and installation of tap (PC R300)	No	5	
<u>Traps</u>				
<u>SOIL DRAINAGE</u>				
Extra over heavy duty (Class 34) 110mm diameter uPVC sewer and drain pipes for fittings				
7	Roding eye cover oval	No	2	
<u>REPAIR AND MAINTENANCE</u>				
8	Service existing Water Closet pan and cistern including unblocking if required and supply new lids to cisterns and toilet seats.	No	20	
9	Service existing Wash Hand Basin including unblocking if required.	No	9	
10	Service existing urinal including flush mechanism including unblocking if required.	No	1	
<u>COLD WATER RETICULATION INSTALLATION</u>				
<u>Supply and install Pexial Pex multilayer pipes in compliance with SANS ISO 15874</u>				
11	Ø32mm pipe	m	10	
12	Ø26mm pipe	m	3	
13	Ø20mm pipe	m	3	
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14	Ø16mm pipe	m	3		
	<u>FITTINGS</u>				
	<u>Supply and install PP-R multilayer faser fibre pipes in compliance with SANS ISO 15874 part 2 PN 20 SDR 7.4 Blue and Red colour – 20 x 2.8mm capillary brass threaded type fittings.</u>				
15	Ø16mm Equal T-piece	No	4		
16	Ø20mm Equal T-piece	No	4		
17	Ø26mm Equal T-piece	No	4		
18	Ø32mm Equal T-piece	No	4		
19	Ø20mm Ø20mm Ø16mm UN-Equal T-piece	No	4		
20	Ø26mm Ø26mm Ø20mm Equal T-piece	No	4		
21	Ø32mm Ø36mm Ø26mm UN-Equal T-piece	No	6		
22	Reducer: Ø32mm x Ø26mm	No	6		
23	Reducer: Ø26mm x Ø20mm	No	6		
24	Reducer: Ø20mm x Ø16mm	No	6		
25	Reducer: Ø32mm x Ø26mm	No	6		
26	Ø50mm Female couplings	No	6		
27	Ø40mm Female couplings	No	6		
28	Ø32mm Female couplings	SUM	5		
29	Ø26mm Female couplings	No	5		
30	Ø20mm Female couplings	No	5		
31	Ø16mm Female couplings	No	5		
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32	Ø32mm Elbow: 90°	No	5	
33	Ø26mm Elbow: 90°	No	6	
34	Ø20mm Elbow: 90°	No	6	
35	Pipe clamps and hangers	SUM	1	
<u>THREADED VALVES</u>				
36	Ø32mm isolating gate valve on cold water main pipes	No	1	
37	Ø26mm isolating gate valve on cold water main pipes	No	2	
38	Ø20mm isolating gate valve on cold water main pipes	No	2	
39	Ø16mm isolating gate valve on cold water main pipes	No	4	
<u>SANITARY DRAINAGE INSTALLATION</u>				
<u>SANITARY DRAINAGE PIPING</u>				
<u>HDP butt welded including electro fusion couplers in the running length, installed in accordance with SANS 10400 and SANS 10252-2:2004</u>				
<u>PIPING</u>				
40	Ø56mm	m	15	
41	Ø75mm	m	20	
42	Ø110mm	m	20	
<u>PIPE FITTINGS</u>				
43	Ø56mm fitting; 90°elbow	No	30	
44	Ø110mm fitting; 45°elbow	No	7	
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45	Ø110mm fitting; 95°elbow, with Ø50mm vent horn inspection	No	7		
46	Ø110mm fitting; 95°elbow, plain	No	7		
47	Ø56mm x Ø56mm x Ø56mm fitting; 90° Equal T-Piece	No	14		
48	Ø110mm x Ø110mm x Ø50mm branch fitting; 87.5° swept entry, lateral branch junction	No	7		
49	Ø110mm x Ø110mm x Ø110mm fitting; 87.5° swept entry, lateral branch junction	No	7		
50	Ø110mm x Ø56mm fitting; concentric reducer	No	2		
51	Ø110mm straight pan collars/connector	No	6		
52	Ø56mm vent one way valve	No	3		
<u>WASTE TRAPS</u>					
53	50mm 'Dutton' flexi rubber "P" trap complete with coupling clamps.	No	6		
<u>PROVISIONAL SUM</u>					
<u>Allow the amount for adjustment of Mechanical engineering services to be used at the discretion of the principal agent and deducted in whole or in part if not required:</u>					
54	For Decommissioning and Removal of existing damaged piping and fittings including making good on chased walls and openings.		Item	25 000.00	
55	For Unblocking existing main lines		Item	15 000.00	
56	For Supply and Installation of any other item not included in the bill required to complete installations.		Item	15 000.00	
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Item No		Quantity	Rate	Amount
	<u>SECTION NO. 9</u>			
	<u>BILL NO. 9</u>			
	<u>ELECTRICAL INSTALLATION</u>			
	<u>GENERAL PURPOSE POWER OUTLETS AND LIGHTING</u>			
	<u>CONDUITS</u>			
	<u>Supply and installation of galvanised steel conduit complete with all accessories including couplings, bending and fixings as specified:</u>			
1	20mm - surface mounted	m	20	
	<u>CONDUIT BOXES</u>			
	<u>Supply and install conduit boxes complete with all accessories including conduit terminations</u>			
2	60mm round, 25mm deep for 20mm conduit mounted flush in wall or fixed to surface	No	27	
	<u>Steel outlet boxes excluding covers:</u>			
3	100mm x 50mm x 50mm conduit box.	No	1	
4	100mm x 100mm x 50mm conduit box.	No	1	
	<u>WIRING AND CONDUCTORS</u>			
	<u>Supply and install PVC insulated copper conductors in required colours, drawn into conduit or trunking:</u>			
5	2.5mm ²	m	1 600	
6	4mm ²	m	400	
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7	2.5mm ² B.C.E.W.	m	1 000		
	<u>LIGHT SWITCHES</u>				
	<u>Supply, install and connect flush mounted light switch complete with cover plate and all accessories:</u>				
8	16A 1 lever 1 way.	No	2		
	<u>LUMINAIRES</u>				
	<u>Supply, install and connect luminaires mounted as specified, complete with lamps, control gear and all accessories:</u>				
9	18W surface mounted bulkhead LED light fitting.	No	27		
	<u>SOCKET OUTLETS</u>				
	<u>Supply, install and connect Switched socket outlets mounted flush in wall or as specified, complete with cover plates and all accessories:</u>				
10	16A Double switch socket outlet (White).	No	2		
	<u>ISOLATORS</u>				
	<u>Supply and install Isolators mounted as specified complete with cover plates and all accessories.</u>				
11	Double pole	No	2		
	<u>UNIT SUPPLY CABLE</u>				
	<u>Supply, install and connect reticulation cables installed in existing sleeves.</u>				
12	6 mm ² 3-core PVC/SWA/PVC Cable	m	30		
13	6 mm ² 3-core PVC/SWA/PVC Cable Terminations	No	2		
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DISTRIBUTION BOARD

14 Unit Distribution Board

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Section No. 1
 Bill No. 9
 Electrical Installation

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Electrical Installation

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Section No. 1

Bill No. 9

Electrical Installation

Item No		Quantity	Rate	Amount
	<u>SECTION NO. 10</u>			
	<u>BILL NO. 10</u>			
	<u>GLAZING</u>			
	<u>User note</u>			
	NOTE: The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades (1999 Edition), the Department of Public Works document No. PW 371 Specification of Materials and Methods to be used and to the Supplementary Preambles which are incorporated at the front of these Bills of Quantities.			
	<u>GLAZING TO STEEL</u>			
	<u>4mm Clear float glass</u>			
1	Panes exceeding 0,1m2 and not exceeding 0,5m2	m2	1	
	<u>4mm Obscure glass</u>			
2	Panes exceeding 0,1m2 and not exceeding 0,5m2	m2	5	
	<u>MIRRORS</u>			
	<u>8 mm Float glass silver backed mirror detail with bevelled edges glued to and including 16mm superwood frame fixed with chrome cupped mirror screws to wall all in accordance with Architects detail:</u>			
3	Size 400 mm x 600 mm.	No	9	
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	Section No. 1 Bill No. 10 Glazing			

Item No	Quantity	Rate	Amount
<u>SECTION NO. 11</u>			
<u>BILL NO. 11</u>			
<u>PAINTWORK</u>			
User note			
<p>NOTE:</p> <p>The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades (1999 Edition), the Department of Public Works document No. PW 371 Specification of Materials and Methods to be used and to the Supplementary Preambles which are incorporated at the front of these Bills of Quantities.</p> <p>The following finishes, including primers and subsequent coats are to be those manufactured by "Plascon Paints" and of the highest type and quality specified.</p> <p>Plascon new work painting specification document to be applied when pricing work accordingly.</p> <p>Attention is drawn to the measurement rules in the measuring system regarding paint colours which read as follows:</p> <p>"4. Paintwork shall be classified in the different colour groups "White", "Pastel", "Deep" and "Transparent" (in accordance with the Natural Colour System (NCS) adopted by the SA National Standards)" and</p> <p>"5. Paintwork in one colour group may be given as extra over paintwork in another colour group"</p>			
<u>PAINTWORK ETC TO NEW WORK</u>			
<u>ON WOOD</u>			
Carried to Collection			R
Section No. 1 Bill No. 11 Paintwork			

1	<p><u>Prepare, stop and apply one coat primer and two coats Professional Eggshell Enamel paint on:</u></p> <p>General surfaces.</p> <p><u>PAINTWORK TO PREVIOUSLY PAINTED SURFACES</u></p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>PREPARATORY WORK TO EXISTING WORK</u></p> <p><u>Previously painted plastered surfaces</u></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><u>Previously painted metal surfaces</u></p> <p>Surfaces shall be thoroughly rubbed and cleaned down. Blistered or peeling paint shall be completely removed down to bare metal</p> <p><u>Previously painted wood surfaces</u></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><u>COLOURS</u></p> <p>Unless otherwise described paintwork on ceilings shall be deemed to be in the "White" colour group and paintwork on all other components shall be deemed to be in the "Pastel" colour group in accordance with the Natural Colour System (NCS) adopted by the SA National Standards</p> <p>Carried to Collection</p> <p>Section No. 1 Bill No. 11 Paintwork</p>	m211	
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<u>ON FLOATED PLASTER</u>					
<u>Remove any loose and flaking residue by means of wire brushing, wash with 'Polycell Sugar Soap' or weak spirits of salts, open up cracks and make good with 'Polycell Mendall 90' or 'Polycell Polyfilla Exterior' filler sanded smooth, apply one coat Plascon Professional Plaster/Gypsum Primer(PP 700) and two coats Plascon Professional Low Sheen Pure Acrylic (PEM 1000) paint on existing water based paint surfaces:</u>					
2	On interior walls	m2	134		
3	On interior ceilings	m2	235		
<u>Remove any loose and flaking residue by means of wire brushing and hydro blast with equipment 200 to 300 bars, wash with 'Polycell Sugar Soap' or weak spirits of salts, open up cracks and make good with 'Polycell Mendall 90' or 'Polycell Polyfilla Exterior' filler sanded smooth and apply two coats "Plascon Wall & All (WAA)" pure acrylic on</u>					
4	On external walls	m2	185		
<u>ON METAL</u>					
<u>Remove any loose and flaking residue by means of wire brushing, wash with 'Polycell Sugar Soap' or weak spirits of salts, open up cracks and make good with 'Polycell Mendall 90' or 'Polycell Polyfilla Exterior' filler sanded smooth apply one coat 'Plascon Universal Undercoat' and two coats 'Plascon Velvaglo Polyurethane Enamel' paint on existing enamel based paint surfaces:</u>					
5	Doors	m2	7		
6	Pressed steel door frames.	m2	50		
7	On windows	m2	7		
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	<p><u>Remove any loose and flaking residue by means of wire brushing, wash with 'Polycell Sugar Soap' or weak spirits of salts, open up cracks and make good with 'Polycell Mendall 90' or 'Polycell Polyfilla Exterior' filler sanded smooth and apply two coats 'Plascon Wall & All (WAA)' pure acrylic on</u></p>			
8	<p>On gates and screens</p> <p><u>Spot priming bare metal surfaces, one coat alkyd based universal undercoat and two coats superior quality universal enamel paint, on work in poor condition</u></p> <p><u>ON WOOD</u></p> <p><u>Remove any loose and flaking residue by means of wire brushing, sand down, wash with 'Polycell Sugar Soap' or weak spirits of salts, rinse and apply one coat Plascon Oil Wood Primer (UC2/UC17) and two coats Plascon Gloss Enamel (PSB800) paint on existing enamel surfaces:</u></p>	m2	100	
9	<p>On doors</p>	m2	65	
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Paintwork

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Paintwork

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Item No		Quantity	Rate	Amount
	<u>SECTION NO. 12</u>			
	<u>BILL NO. 12</u>			
	<u>EXTERNAL WORKS</u>			
	NOTE: The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades (1999 Edition), the Department of Public Works document No. PW 371 Specification of Materials and Methods to be used and to the Supplementary Preambles which are incorporated at the front of these Bills of Quantities.			
	<u>CONCRETE BLOCK PAVING ETC</u>			
	<u>Take up and remove from site existing precast concrete etc.:</u>			
1	60mm Interlocking paving blocks .	m2	11	
	<u>Remove and set-aside existing concrete paving blocks (re-instate elsewhere measured)</u>			
2	60 mm Interlocking concrete paving blocks	m2	32	
	<u>Re-lay existing concrete paving blocks shall comply with the requirements of SABS 1058 - 1985 Specifications</u>			
3	Re-lay existing 60 mm Interlocking concrete paving blocks (Type SA-A, Ref UTG 2) or similar approved, light grey coloured laid to falls on and including a new 20 mm bed of washed river sand, application of weed killer, sand filling to joints, compacting and all necessary edge blocks.	m2	32	
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<u>Filling under floors, steps, paving, etc.</u>				
4	Suitable imported filling material (G7) laid under paving in maximum 150 mm thick layers and compacted to 97% modified AASHTO density at optimum moisture content.	m3	6	
<u>Compaction of surfaces</u>				
5	Rip up, scarify and re-compact earth surface 150 mm deep to 95% modified AASHTO density at optimum moisture content.	m2	43	
<u>Concrete paving blocks shall comply with the requirements SANS1058:2012 edition specifications (Paving to be inspected and re-sand grouted after three months)</u>				
6	60 mm Interlocking concrete paving blocks (Type SA-A, Ref UTG 2) or similar approved, charcoal grey coloured laid to falls in accordance with SANS 1200 MJ and CMA Concrete block manual on and including a 25 mm bed of washed river sand, application of weed killer, sand filling to joints, compacting and all necessary edge blocks.	m2	11	
<u>Treatment of existing paving blocks</u>				
7	Existing paving blocks to be powerwashed with high pressure water. Contractor to ensure adequate drainage into stormwater and avoid flooding tenanted areas.	m2	108	
<u>FENCING</u>				
<u>"CLEARVUE" or similar approved galvanised barbed/spiked wire fencing</u>				
<u>TEMPORARY CONTAINER RENTAL</u>				
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General

The following prefabricated structures have been measured as complete units i.e. the components of the units have not been separately measured. The descriptions, therefore, of such units shall be deemed to include all components, assembling, housing etc. Units include fittings such as window blinds, stove, single bowl sink, geysers wash hand basins, urinals, external doors, showers.

Allow for the supply, delivery and rental for prefabricated "KWIKSPACE" 40mm polyurethane filled, steel skinned panels to 112mm structurally insulated panels :

Note: Site must not slope more than 200mm over the area of the temporary building units.

3 000 x 6 000mm High unit

8	Deliver container to site and removal from site upon completion	No	1
9	Monthly rental	No	3

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Item No		Quantity	Rate	Amount
	<u>SECTION NO. 2</u>			
	<u>BILL NO.2</u>			
	<u>DEMOLITIONS AND ALTERATIONS</u>			
	NOTE: The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades (1999 Edition), the Department of Public Works document No. PW 371 Specification of Materials and Methods to be used and to the Supplementary Preambles which are incorporated at the front of these Bills of Quantities.			
1	The alterations to the electrical and air conditioning reticulation installations shall be executed by selected sub-contractors (as elsewhere provided) and the Contractor shall be responsible for the co-ordination of such work with his own.	Item		
2	Prices for the demolition of any portion of the structure shall include for its demolition complete with all surface finishes such as plaster, screeds, etc., all attached items of joinery such as skirtings, etc. and all reinforcement, conduit, pipes, lintels, etc. built into that portion of the structure and the removal from site thereof.	Item		
3	Prices for the removal of doors and frames shall include for the removal of fanlights, ironmongery, architraves and other associated trim.	Item		
4	Prices for the removal of windows shall include for the removal of glass, louvres, etc. attached to the windows.	Item		
5	The Contractor is advised to take all dimensions affecting the existing building on the site as he will be held solely responsible for all new work being of the correct size.	Item		
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6	All sizes for building up or forming openings are net and the Contractor must allow in his prices for extra labour and material, cutting and bonding new to existing brickwork, building square jambs, building cavities solid and removing old sills as necessary, and for making good junction of new plaster with old including all extra patching to work disturbed beyond the net size of the openings, which are to be formed or built up.	Item		
7	All materials and workmanship in building up, making good etc., are to match existing and where new materials abut existing, they are to be neatly joined to same.	Item		
8	The contractor is advised to visit the site to acquaint himself with the types of construction and finishes so that he may price "to match existing" items where called for.	Item		
9	"Making good" existing work where disturbed or damaged shall mean the provision of the necessary new material to match existing and the necessary workmanship so that a complete and perfect restoration is achieved to the satisfaction of the Architect.	Item		
10	"Making good" where abutting walls etc. are removed shall mean the provision of the necessary material and workmanship in filling the gaps to match surrounding finishes so that a complete and perfect surface, is obtained to the satisfaction of the Architect.	Item		
11	The rates for "taking out", "taking down" of windows, doors etc., from brickwork to remain are to include for making good all work disturbed to match surrounding finishes.	Item		
12	Contractor to allow for removal of rubble, accumulated rubbish on site.	Item		
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	<u>Treatment of existing tiles</u>				
21	Existing tiled floors to be powerwashed deep cleaned with appropriate chemicals and high pressure water. Contractor to ensure adequate drainage into stormwater and avoid flooding tenanted areas.	m2	216		
22	Existing tiled walls to be powerwashed deep cleaned with appropriate chemicals and high pressure water. Contractor to ensure adequate drainage into stormwater and avoid flooding tenanted areas.	m2	421		
	<u>Treatment of existing painted and face brick walls</u>				
23	Existing face and painted walls to be powerwashed with high pressure water including soap. Contractor to ensure adequate drainage into stormwater and avoid flooding tenanted areas.	m2	140		
	<u>Making good cement screeds</u>				
24	25mm Thick on floors in patches	m2	2		
	<u>Making good gypsum plasterboard ceilings and timber branderling</u>				
25	Ceilings in patches	m2	6		
	<u>Making good internal cement plaster</u>				
26	Walls in patches	m2	13		
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Item No		Quantity	Rate	Amount
	<u>SECTION NO. 3</u>			
	<u>BILL NO 3</u>			
	<u>ROOF COVERINGS</u>			
	NOTE: The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades (1999 Edition), the Department of Public Works document No. PW 371 Specification of Materials and Methods to be used and to the Supplementary Preambles which are incorporated at the front of these Bills of Quantities.			
	Where battens for roof coverings form part of the plate nailed timber roof truss design it shall be included under the roof construction in the "Carpentry and Joinery" trade and not under this trade			
	<u>SERVICING OF EXISTING STEEL ROOFS</u>			
	Contractors to check all flashings and roof coverings to locate leaks and allow for replacement of flashing and cleaning of existing gutters and downpipes as required.			
1	Roof covering with pitches not exceeding 25 degrees	m2	215	
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Item No		Quantity	Rate	Amount
	<u>SECTION NO. 4</u>			
	<u>BILL NO 4</u>			
	<u>CARPENTRY AND JOINERY</u>			
	NOTE: The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades (1999 Edition), the Department of Public Works document No. PW 371 Specification of Materials and Methods to be used and to the Supplementary Preambles which are incorporated at the front of these Bills of Quantities.			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	<u>DOORS ETC</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	<u>SEMI- SOLID FLUSH PANEL DOORS WITH TWO CONCEALED EDGES TO EACH LEAF HUNG TO STEEL OR TIMBER FRAMES</u>			
1	40 mm Door size 813 mm x 2032 mm with commercial veneer backing.	No	2	
2	40 mm Door size 912 mm x 2955 mm with commercial veneer.	No	1	
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	Section No. 2 Bill No. 4 Carpentry and Joinery			

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Item No		Quantity	Rate	Amount
	<u>SECTION NO. 5</u>			
	<u>BILL NO.5</u>			
	<u>IRONMONGERY</u>			
	<p>NOTE:</p> <p>The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades (1999 Edition), the Department of Public Works document No. PW 371 Specification of Materials and Methods to be used and to the Supplementary Preambles which are incorporated at the front of these Bills of Quantities.</p> <p>NOTE: Prices are to include for fixing ironmongery to softwood, hardwood or pressed metal door frames, etc.</p> <p><u>Locks and furniture:</u></p>			
1	Supply (PC : R200) and installation of door handle.	No	28	
2	Supply (PC : R450) and installation of WC indicator bolt.	No	14	
3	Supply (PC : R50) and installation of door stop plugged and screwed to brickwork or concrete.	No	14	
4	Supply (PC : R2500) and installation of door closer fixed to frame.	No	1	
	<u>Supply and fix the following ironmongery:</u>			
5	32 mm Diameter stainless steel rear grab rail (Code SR2) from Chairman Industries bolted to wall with 6 mm diameter stainless steel bolts, all as the manufacturer's instructions.	No	1	
6	32 mm Diameter stainless steel side grab rail (Code DL2) from Chairman Industries ditto.	No	1	
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	Ironmongery			

Item No	Quantity	Rate	Amount
<u>SECTION NO. 6</u>			
<u>BILL NO. 6</u>			
<u>METALWORK</u>			
NOTE: The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades (1999 Edition), the Department of Public Works document No. PW 371 Specification of Materials and Methods to be used and to the Supplementary Preambles which are incorporated at the front of these Bills of Quantities.			
<u>STEEL WELDED SCREENS, GATES, ETC</u>			
<u>Screens and gates</u>			
1	Service steel 900 x 2100mm entrance doors including grinding off welded shut locks, repairs to hinges, locks etc.	No	2
2	Service palisade gate 1400 x 2100mm including repairs to hinges, sliding bolt and locks etc.	No	1
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Item No		Quantity	Rate	Amount
	<u>SECTION NO. 7</u>			
	<u>BILL NO. 7</u>			
	<u>TILING</u>			
	NOTE: The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades (1999 Edition), the Department of Public Works document No. PW 371 Specification of Materials and Methods to be used and to the Supplementary Preambles which are incorporated at the front of these Bills of Quantities.			
	<u>WALL TILES</u>			
	<u>Ceramic tiles (PC R 100-00/m2 supplied and delivered) fixed with "Tal" or a similar approved adhesive all in strict accordance with the manufacturer's instructions on a cement plaster backing (elsewhere measured) with joints grouted in solid in "Tal" or equal approved wall tile grout including all square cutting and waste to:</u>			
1	Walls.	m2	21	
2	Walls in narrow widths not exceeding 300mm.	m2	4	
	<u>FLOOR TILES</u>			
	<u>Ceramic floor tiles (PC R 70-00/m2 supplied and delivered) fixed with "Tal Gold Star 6" or similar approved adhesive in strict accordance with the manufacturer's instructions on power floated concrete floor with joints grouted in solid in "Tal" or equal approved floor tile grout including all square cutting and waste to:</u>			
3	Floors.	m2	32	
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	Section No. 2 Bill No. 7 Tiling			

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Item No		Quantity	Rate	Amount
	<u>SECTION NO. 8</u>			
	<u>BILL NO. 8</u>			
	<u>PLUMBING AND DRAINAGE</u>			
	<p>NOTE:</p> <p>The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades (1999 Edition), the Department of Public Works document No. PW 371 Specification of Materials and Methods to be used and to the Supplementary Preambles which are incorporated at the front of these Bills of Quantities.</p> <p>These bills of quantities form part of and must be read in conjunction with the Technical Specifications and Drawings, which contain the full descriptions of the work to be done and material and equipment to be used. Unless otherwise described in these bills of quantities, reference should be made to the Technical Specifications for the full meaning of descriptions of work to be done and materials and equipment to be used in this service. All materials, equipment, fixings, brackets, etc, are to be supplied by the Contractor unless otherwise stated.</p>			
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All rates supplied in this Bill of Quantities will be deemed to include scaffolding to any height and fixing of cold and hot water pipes up to and including roof height. All pipes suspended from concrete slabs, roof, ceiling, etc. shall be deemed to include in the rates, all necessary hanger brackets, threaded rod (irrespective of the suspension length), nuts, washers, anchors and drilling of holes in the concrete slab. For the complete supply, delivery and installation of supply piping, as specified, piping to include piping between geysers on roof. All cold and hot water pipes are to be chased into walls except where pipes are to be surface-mounted on wall face or run in ceiling voids or inside ducts, and fixed with standard type pipe saddlers and brackets at 1000mm maximum.

RAINWATER DISPOSAL

Gratings, covers, etc

- | | | | |
|---|---|----|---|
| 1 | Precast concrete stormwater inlet 370mm x 600mm frame | No | 1 |
|---|---|----|---|

SANITARY FITTINGS

Wash Hand Basins

- | | | | |
|---|--|----|---|
| 2 | Surface mounted 500mm x 500mm white glazed semi-recessed wash hand vanity basin (PC : R 1000) with single tap hole complete with single lever tap (PC: R500) and including angle valves and chrome connectors including pop up waste, connected in position complete with an approved waterproof sealer. | No | 2 |
|---|--|----|---|

Toilets

- | | | | |
|---|---|----|---|
| 3 | Close-coupled WC suite (PC : R1 500) comprising pan with double flap heavy duty wooden seat and matching 9 litre cistern. | No | 3 |
|---|---|----|---|

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Supply and install Pexial Pex multilayer pipes in compliance with SANS ISO 15874

11	Ø50mm pipe	m	10
12	Ø40mm pipe	m	30
13	Ø32mm pipe	m	40
14	Ø26mm pipe	m	25
15	Ø20mm pipe	m	50
16	Ø16mm pipe	m	80

FITTINGS

Supply and install PP-R multilayer faser fibre pipes in compliance with SANS ISO 15874 part 2 PN 20 SDR 7.4 Blue and Red colour – 20 x 2.8mm capillary brass threaded type fittings.

17	Ø16mm Equal T-piece	No	11
18	Ø20mm Equal T-piece	No	11
19	Ø26mm Equal T-piece	No	11
20	Ø32mm Equal T-piece	No	11
21	Ø20mm Ø20mm Ø16mm UN-Equal T-piece	No	6
22	Ø26mm Ø26mm Ø20mm Equal T-piece	No	6
23	Ø32mm Ø36mm Ø26mm UN-Equal T-piece	No	6
24	Ø40mm Ø40mm Ø26mm UN-Equal T-piece	No	6
25	Ø50mm Ø50mm Ø26mm UN-Equal T-piece	No	6
26	Reducer: Ø50mm x Ø40mm	No	6
27	Reducer: Ø40mm x Ø32mm	No	6

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28	Reducer: Ø32mm x Ø26mm	No	6	
29	Reducer: Ø26mm x Ø20mm	No	6	
30	Reducer: Ø20mm x Ø16mm	No	6	
31	Reducer: Ø32mm x Ø26mm	No	6	
32	Ø50mm Female couplings	No	6	
33	Ø40mm Female couplings	No	6	
34	Ø32mm Female couplings	SUM	5	
35	Ø26mm Female couplings	No	5	
36	Ø20mm Female couplings	No	5	
37	Ø16mm Female couplings	No	5	
38	Ø50mm Elbow: 90°	No	5	
39	Ø40mm Elbow: 90°	No	5	
40	Ø32mm Elbow: 90°	No	5	
41	Ø26mm Elbow: 90°	No	6	
42	Ø20mm Elbow: 90°	No	6	
43	Pipe clamps and hangers	SUM	1	
<u>THREADED VALVES</u>				
44	Ø50mm isolating gate valve on cold water main pipes	No	1	
45	Ø40mm isolating gate valve on cold water main pipes	No	1	
46	Ø32mm isolating gate valve on cold water main pipes	No	6	
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47	Ø26mm isolating gate valve on cold water main pipes	No	2		
48	Ø20mm isolating gate valve on cold water main pipes	No	11		
49	Ø16mm isolating gate valve on cold water main pipes	No	21		
<u>SANITARY DRAINAGE INSTALLATION</u>					
<u>SANITARY DRAINAGE PIPING</u>					
HDP butt welded including electro fusion couplers in the running length, installed in accordance with SANS 10400 and SANS 10252-2:2004					
<u>PIPING</u>					
50	Ø56mm	m	75		
51	Ø75mm	m	50		
52	Ø110mm	m	50		
<u>PIPE FITTINGS</u>					
53	Ø56mm fitting; 90°elbow	No	60		
54	Ø110mm fitting; 45°elbow	No	14		
55	Ø110mm fitting; 95°elbow, with Ø50mm vent horn inspection	No	13		
56	Ø110mm fitting; 95°elbow, plain	No	25		
57	Ø56mm x Ø56mm x Ø56mm fitting; 90° Equal T-Piece	No	40		
58	Ø75mm x Ø56mm x Ø75mm fitting; 90° UN-Equal T-Piece	No	4		
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59	Ø110mm x Ø110mm x Ø50mm branch fitting; 87.5° swept entry, lateral branch junction	No	4		
60	Ø110mm x Ø110mm x Ø110mm fitting; 87.5° swept entry, lateral branch junction	No	13		
61	Ø110mm x Ø56mm fitting; concentric reducer	No	2		
62	Ø110mm straight pan collars/connector	No	50		
63	Ø56mm vent one way valve	No	21		
<u>WASTE TRAPS</u>					
64	50mm 'Dutton' flexi rubber "P" trap complete with coupling clamps.	No	60		
<u>PROVISIONAL SUM</u>					
<u>Allow the amount for adjustment of Mechanical engineering services to be used at the discretion of the principal agent and deducted in whole or in part if not required:</u>					
65	For Decommissioning and Removal of existing damaged piping and fittings including making good on chased walls and openings.		Item	45 000.00	
66	For Unblocking existing main lines		Item	25 000.00	
67	For Supply and Installation of any other item not included in the bill required to complete installations.		Item	20 000.00	
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	<u>SECTION NO. 9</u>			
	<u>BILL NO. 9</u>			
	<u>ELECTRICAL INSTALLATION</u>			
	<u>GENERAL PURPOSE POWER OUTLETS AND LIGHTING</u>			
	<u>CONDUITS</u>			
	<u>Supply and installation of galvanised steel conduit complete with all accessories including couplings, bending and fixings as specified:</u>			
1	20mm - surface mounted	m	10	
	<u>CONDUIT BOXES</u>			
	<u>Supply and install conduit boxes complete with all accessories including conduit terminations</u>			
2	60mm round, 25mm deep for 20mm conduit mounted flush in wall or fixed to surface	No	15	
	<u>Steel outlet boxes excluding covers:</u>			
3	100mm x 50mm x 50mm conduit box.	No	3	
4	100mm x 100mm x 50mm conduit box.	No	4	
	<u>WIRING AND CONDUCTORS</u>			
	<u>Supply and install PVC insulated copper conductors in required colours, drawn into conduit or trunking:</u>			
5	2.5mm ²	m	1 200	
6	4mm ²	m	600	
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7	2.5mm ² B.C.E.W.	m	900		
	<u>LIGHT SWITCHES</u>				
	<u>Supply, install and connect flush mounted light switch complete with cover plate and all accessories:</u>				
8	16A 1 lever 1 way.	No	1		
	<u>LUMINAIRES</u>				
	<u>Supply, install and connect luminaires mounted as specified, complete with lamps, control gear and all accessories:</u>				
9	18W surface mounted bulkhead LED light fitting.	No	25		
	<u>SOCKET OUTLETS</u>				
	<u>Supply, install and connect Switched socket outlets mounted flush in wall or as specified, complete with cover plates and all accessories:</u>				
10	16A Double switch socket outlet (White).	No	3		
	<u>ISOLATORS</u>				
	<u>Supply and install Isolators mounted as specified complete with cover plates and all accessories.</u>				
11	Double pole	No	1		
	<u>UNIT SUPPLY CABLE</u>				
	<u>Supply, install and connect reticulation cables installed in existing sleeves.</u>				
12	6 mm ² 3-core PVC/SWA/PVC Cable	m	30		
13	6 mm ² 3-core PVC/SWA/PVC Cable Terminations	No	2		
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DISTRIBUTION BOARD

14 Unit Distribution Board

No

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Electrical Installation

Item No		Quantity	Rate	Amount
	<u>SECTION NO. 10</u>			
	<u>BILL NO. 10</u>			
	<u>GLAZING</u>			
	<u>User note</u>			
	NOTE: The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades (1999 Edition), the Department of Public Works document No. PW 371 Specification of Materials and Methods to be used and to the Supplementary Preambles which are incorporated at the front of these Bills of Quantities.			
	<u>GLAZING TO STEEL</u>			
	<u>4mm Obscure glass</u>			
1	Panes exceeding 0,1m2 and not exceeding 0,5m2	m2	2	
	<u>MIRRORS</u>			
	<u>8 mm Float glass silver backed mirror detail with bevelled edges glued to and including 16mm superwood frame fixed with chrome cupped mirror screws to wall all in accordance with Architects detail:</u>			
2	Size 400 mm x 600 mm.	No	9	
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	Section No. 2 Bill No. 10 Glazing			

Item No		Quantity	Rate	Amount
	<u>SECTION NO. 11</u>			
	<u>BILL NO. 11</u>			
	<u>PAINTWORK</u>			
	<u>User note</u>			
	NOTE: The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades (1999 Edition), the Department of Public Works document No. PW 371 Specification of Materials and Methods to be used and to the Supplementary Preambles which are incorporated at the front of these Bills of Quantities.			
	The following finishes, including primers and subsequent coats are to be those manufactured by "Plascon Paints" and of the highest type and quality specified.			
	Plascon new work painting specification document to be applied when pricing work accordingly.			
	Attention is drawn to the measurement rules in the measuring system regarding paint colours which read as follows: "4. Paintwork shall be classified in the different colour groups "White", "Pastel", "Deep" and "Transparent" (in accordance with the Natural Colour System (NCS) adopted by the SA National Standards)" and "5. Paintwork in one colour group may be given as extra over paintwork in another colour group"			
	<u>PAINTWORK ETC TO NEW WORK</u>			
	<u>ON WOOD</u>			
	Carried to Collection			
	Section No. 2 Bill No. 11 Paintwork			
			R	

1	<p><u>Prepare, stop and apply one coat primer and two coats Professional Eggshell Enamel paint on:</u></p> <p>General surfaces.</p> <p><u>PAINTWORK TO PREVIOUSLY PAINTED SURFACES</u></p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>PREPARATORY WORK TO EXISTING WORK</u></p> <p><u>Previously painted plastered surfaces</u></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><u>Previously painted metal surfaces</u></p> <p>Surfaces shall be thoroughly rubbed and cleaned down. Blistered or peeling paint shall be completely removed down to bare metal</p> <p><u>Previously painted wood surfaces</u></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><u>COLOURS</u></p> <p>Unless otherwise described paintwork on ceilings shall be deemed to be in the "White" colour group and paintwork on all other components shall be deemed to be in the "Pastel" colour group in accordance with the Natural Colour System (NCS) adopted by the SA National Standards</p> <p style="text-align: right;">Carried to Collection</p> <p>Section No. 2 Bill No. 11 Paintwork</p>	m2	11	
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ON FLOATED PLASTER

Remove any loose and flaking residue by means of wire brushing, wash with 'Polycell Sugar Soap' or weak spirits of salts, open up cracks and make good with 'Polycell Mendall 90' or 'Polycell Polyfilla Exterior' filler sanded smooth, apply one coat Plascon Professional Plaster/Gypsum Primer(PP 700) and two coats Plascon Professional Low Sheen Pure Acrylic (PEM 1000) paint on existing water based paint surfaces:

2	On interior walls	m2	105
3	On interior ceilings	m2	215

Remove any loose and flaking residue by means of wire brushing and hydro blast with equipment 200 to 300 bars, wash with 'Polycell Sugar Soap' or weak spirits of salts, open up cracks and make good with 'Polycell Mendall 90' or 'Polycell Polyfilla Exterior' filler sanded smooth and apply two coats "Plascon Wall & All (WAA)" pure acrylic on

4	On external walls	m2	140
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ON METAL

Remove any loose and flaking residue by means of wire brushing, wash with 'Polycell Sugar Soap' or weak spirits of salts, open up cracks and make good with 'Polycell Mendall 90' or 'Polycell Polyfilla Exterior' filler sanded smooth apply one coat 'Plascon Universal Undercoat' and two coats 'Plascon Velvagro Polyurethane Enamel' paint on existing enamel based paint surfaces:

5	Doors	m2	8
6	Pressed steel door frames.	m2	32
7	On windows	m2	4

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	<u>Remove any loose and flaking residue by means of wire brushing, wash with 'Polycell Sugar Soap' or weak spirits of salts, open up cracks and make good with 'Polycell Mendall 90' or 'Polycell Polyfilla Exterior' filler sanded smooth and apply two coats 'Plascon Wall & All (WAA)' pure acrylic on</u>				
8	On gates and screens	m2	319		
	<u>Spot priming bare metal surfaces, one coat alkyd based universal undercoat and two coats superior quality universal enamel paint, on work in poor condition</u>				
9	Rainwater downpipes not exceeding 300mm girth	m	52		
	<u>ON WOOD</u>				
	<u>Remove any loose and flaking residue by means of wire brushing, sand down, wash with 'Polycell Sugar Soap' or weak spirits of salts, rinse and apply one coat Plascon Oil Wood Primer (UC2/UC17) and two coats Plascon Gloss Enamel (PSB800) paint on existing enamel surfaces:</u>				
10	On doors	m2	37		
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Paintwork

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Paintwork

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Item No		Quantity	Rate	Amount
	<u>SECTION NO. 12</u>			
	<u>BILL NO. 12</u>			
	<u>EXTERNAL WORKS</u>			
	NOTE: The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades (1999 Edition), the Department of Public Works document No. PW 371 Specification of Materials and Methods to be used and to the Supplementary Preambles which are incorporated at the front of these Bills of Quantities.			
	<u>CONCRETE BLOCK PAVING ETC</u>			
	<u>Take up and remove from site existing precast concrete etc.:</u>			
1	60mm Interlocking paving blocks .	m2	2	
	<u>Remove and set-aside existing concrete paving blocks (re-instate elsewhere measured)</u>			
2	60 mm Interlocking concrete paving blocks	m2	10	
	<u>Re-lay existing concrete paving blocks shall comply with the requirements of SABS 1058 - 1985 Specifications</u>			
3	Re-lay existing 60 mm Interlocking concrete paving blocks (Type SA-A, Ref UTG 2) or similar approved, light grey coloured laid to falls on and including a new 20 mm bed of washed river sand, application of weed killer, sand filling to joints, compacting and all necessary edge blocks.	m2	10	
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	Section No. 2 Bill No. 12 External Works			

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<u>Filling under floors, steps, paving, etc.</u>					
4	Suitable imported filling material (G7) laid under paving in maximum 150 mm thick layers and compacted to 97% modified AASHTO density at optimum moisture content.	m3	2		
<u>Compaction of surfaces</u>					
5	Rip up, scarify and re-compact earth surface 150 mm deep to 95% modified AASHTO density at optimum moisture content.	m2	12		
<u>Concrete paving blocks shall comply with the requirements SANS1058:2012 edition specifications (Paving to be inspected and re-sand grouted after three months)</u>					
6	60 mm Interlocking concrete paving blocks (Type SA-A, Ref UTG 2) or similar approved, charcoal grey coloured laid to falls in accordance with SANS 1200 MJ and CMA Concrete block manual on and including a 25 mm bed of washed river sand, application of weed killer, sand filling to joints, compacting and all necessary edge blocks.	m2	2		
<u>Treatment of existing paving blocks</u>					
7	Existing paving blocks to be powerwashed with high pressure water. Contractor to ensure adequate drainage into stormwater and avoid flooding tenanted areas.	m2	95		
<u>FENCING</u>					
<u>"CLEARVUE" or similar approved galvanised barbed/spiked wire fencing</u>					
<u>TEMPORARY CONTAINER RENTAL</u>					
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External Works					

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General

The following prefabricated structures have been measured as complete units i.e. the components of the units have not been separately measured. The descriptions, therefore, of such units shall be deemed to include all components, assembling, housing etc. Units include fittings such as window blinds, stove, single bowl sink, geysers wash hand basins, urinals, external doors, showers.

Allow for the supply, delivery and rental for prefabricated "KWIKSPACE" 40mm polyurethane filled, steel skinned panels to 112mm structurally insulated panels :

Note: Site must not slope more than 200mm over the area of the temporary building units.

3 000 x 6 000mm High unit

8	Deliver container to site and removal from site upon completion	No	1
9	Monthly rental	No	2

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Section No. 2
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 External Works

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External Works

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Item No		Quantity	Rate	Amount
	<u>SECTION NO. 2</u>			
	<u>BILL NO.2</u>			
	<u>DEMOLITIONS AND ALTERATIONS</u>			
	NOTE: The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades (1999 Edition), the Department of Public Works document No. PW 371 Specification of Materials and Methods to be used and to the Supplementary Preambles which are incorporated at the front of these Bills of Quantities.			
1	The alterations to the electrical and air conditioning reticulation installations shall be executed by selected sub-contractors (as elsewhere provided) and the Contractor shall be responsible for the co-ordination of such work with his own.	Item		
2	Prices for the demolition of any portion of the structure shall include for its demolition complete with all surface finishes such as plaster, screeds, etc., all attached items of joinery such as skirtings, etc. and all reinforcement, conduit, pipes, lintels, etc. built into that portion of the structure and the removal from site thereof.	Item		
3	Prices for the removal of doors and frames shall include for the removal of fanlights, ironmongery, architraves and other associated trim.	Item		
4	Prices for the removal of windows shall include for the removal of glass, louvres, etc. attached to the windows.	Item		
5	The Contractor is advised to take all dimensions affecting the existing building on the site as he will be held solely responsible for all new work being of the correct size.	Item		
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6	All sizes for building up or forming openings are net and the Contractor must allow in his prices for extra labour and material, cutting and bonding new to existing brickwork, building square jambs, building cavities solid and removing old sills as necessary, and for making good junction of new plaster with old including all extra patching to work disturbed beyond the net size of the openings, which are to be formed or built up.	Item		
7	All materials and workmanship in building up, making good etc., are to match existing and where new materials abut existing, they are to be neatly joined to same.	Item		
8	The contractor is advised to visit the site to acquaint himself with the types of construction and finishes so that he may price "to match existing" items where called for.	Item		
9	"Making good" existing work where disturbed or damaged shall mean the provision of the necessary new material to match existing and the necessary workmanship so that a complete and perfect restoration is achieved to the satisfaction of the Architect.	Item		
10	"Making good" where abutting walls etc. are removed shall mean the provision of the necessary material and workmanship in filling the gaps to match surrounding finishes so that a complete and perfect surface, is obtained to the satisfaction of the Architect.	Item		
11	The rates for "taking out", "taking down" of windows, doors etc., from brickwork to remain are to include for making good all work disturbed to match surrounding finishes.	Item		
12	Contractor to allow for removal of rubble, accumulated rubbish on site.	Item		
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Alteration				

13	Contractor to allow for full photographic survey of site internally and externally upon receipt of possession of site. Photos to be sent to Principal Agent and signed off before performing any work.		Item
	<u>Temporary barricades, screens, roofs, etc including removal</u>		
14	Temporary wire mesh fencing as hoarding from construction site, total height 3m with temp partition.	m	30
15	Extra over fencing for gate 813 x 2032mm high, including steel frame, padlock, primer and two coats paint	No	1
	<u>Hacking up/off and removing ceramic tiles including removing mortar bed or adhesive from concrete or brickwork and preparing surfaces for new screed, plaster, tile finish, etc</u>		
16	Tiles to floors	m2	17
17	Tiles to walls	m2	17
	<u>Taking out and removing piping, sanitary fittings, etc, including cutting off as necessary, disconnecting piping from fittings and making good floor and wall finishes (making good tiling and paintwork elsewhere)</u>		
18	Vitreous china WC pan with cistern	No	3
19	Vitreous china wash hand basin, including short lengths of piping, etc	No	2
20	Urinal bowl fixed to walls.	No	1
	<u>MAKING GOOD OF FINISHES, ETC</u>		
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	<u>Treatment of existing tiles</u>				
21	Existing tiled floors to be powerwashed deep cleaned with appropriate chemicals and high pressure water. Contractor to ensure adequate drainage into stormwater and avoid flooding tenanted areas.	m2	112		
22	Existing tiled walls to be powerwashed deep cleaned with appropriate chemicals and high pressure water. Contractor to ensure adequate drainage into stormwater and avoid flooding tenanted areas.	m2	337		
	<u>Treatment of existing painted and face brick walls</u>				
23	Existing face and painted walls to be powerwashed with high pressure water including soap. Contractor to ensure adequate drainage into stormwater and avoid flooding tenanted areas.	m2	441		
	<u>Making good cement screeds</u>				
24	25mm Thick on floors in patches	m2	1		
	<u>Making good gypsum plasterboard ceilings and timber branderling</u>				
25	Ceilings in patches	m2	3		
	<u>Making good internal cement plaster</u>				
26	Walls in patches	m2	10		
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PROFILED METAL SHEETING AND ACCESSORIES

Profiled metal sheeting is available in various thicknesses

Usually Z275 spelter galvanising is used in inland areas and Z600 spelter galvanising for coastal areas. However galvanised sheeting is generally not used in coastal areas

When the pitch of troughed roof covering is less than 5 degrees or if dustproofing is required then the description of roof coverings "with side laps sealed" is to be used

Where roof coverings are fixed on top of rigid board insulation to purlins etc they are to be described as such

Note that besides galvanised steel, sheeting is also available in corten steel, stainless steel, copper and aluminium

0,5mm Z275 spelter galvanised corrugated sheet steel and accessories, fixed to timber purlins or rails

1	Roof covering with pitches not exceeding 25 degrees	m2	10
2	Ridge cap 550 mm girth three times bent and notched on site to suit roof profile.	m	19

SERVICING OF EXISTING STEEL ROOFS

Contractors to check all flashings and roof coverings to locate leaks and allow for replacement of flashing and cleaning of existing gutters and downpipes as required.

3	Roof covering with pitches not exceeding 25 degrees	m2	117
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 Bill No. 3
 Roof Covering

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Bill No. 3

Roof Covering

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Item No		Quantity	Rate	Amount
	<u>SECTION NO. 4</u>			
	<u>BILL NO 4</u>			
	<u>CARPENTRY AND JOINERY</u>			
	NOTE: The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades (1999 Edition), the Department of Public Works document No. PW 371 Specification of Materials and Methods to be used and to the Supplementary Preambles which are incorporated at the front of these Bills of Quantities.			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	<u>DOORS ETC</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	<u>SEMI- SOLID FLUSH PANEL DOORS WITH TWO CONCEALED EDGES TO EACH LEAF HUNG TO STEEL OR TIMBER FRAMES</u>			
1	40 mm Door size 912 mm x 2955 mm with commercial veneer.	No	1	
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	Section No. 3 Bill No. 4 Carpentry and Joinery			

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Item No		Quantity	Rate	Amount
	<u>SECTION NO. 5</u>			
	<u>BILL NO.5</u>			
	<u>IRONMONGERY</u>			
	<p>NOTE:</p> <p>The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades (1999 Edition), the Department of Public Works document No. PW 371 Specification of Materials and Methods to be used and to the Supplementary Preambles which are incorporated at the front of these Bills of Quantities.</p> <p>NOTE: Prices are to include for fixing ironmongery to softwood, hardwood or pressed metal door frames, etc.</p> <p><u>Locks and furniture:</u></p>			
1	Supply (PC : R200) and installation of door handle.	No	30	
2	Supply (PC : R450) and installation of WC indicator bolt.	No	15	
3	Supply (PC : R50) and installation of door stop plugged and screwed to brickwork or concrete.	No	15	
4	Supply (PC : R2500) and installation of door closer fixed to frame.	No	1	
	<u>Supply and fix the following ironmongery:</u>			
5	32 mm Diameter stainless steel rear grab rail (Code SR2) from Chairman Industries bolted to wall with 6 mm diameter stainless steel bolts, all as the manufacturer's instructions.	No	1	
6	32 mm Diameter stainless steel side grab rail (Code DL2) from Chairman Industries ditto.	No	1	
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	Section No. 3			
	Bill No. 5			
	Ironmongery			

Item No	Quantity	Rate	Amount
<u>SECTION NO. 6</u>			
<u>BILL NO. 6</u>			
<u>METALWORK</u>			
NOTE: The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades (1999 Edition), the Department of Public Works document No. PW 371 Specification of Materials and Methods to be used and to the Supplementary Preambles which are incorporated at the front of these Bills of Quantities.			
<u>STEEL WELDED SCREENS, GATES, ETC</u>			
<u>Screens and gates</u>			
1	Service steel 900 x 2100mm entrance doors including grinding off welded shut locks, repairs to hinges, locks etc.	No	2
2	Service palisade gate 1400 x 2100mm including repairs to hinges, sliding bolt and locks etc.	No	1
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Metalwork			

Item No	Quantity	Rate	Amount
<u>SECTION NO. 7</u>			
<u>BILL NO. 7</u>			
<u>TILING</u>			
NOTE: The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades (1999 Edition), the Department of Public Works document No. PW 371 Specification of Materials and Methods to be used and to the Supplementary Preambles which are incorporated at the front of these Bills of Quantities.			
<u>WALL TILES</u>			
<u>Ceramic tiles (PC R 100-00/m2 supplied and delivered) fixed with "Tal" or a similar approved adhesive all in strict accordance with the manufacturer's instructions on a cement plaster backing (elsewhere measured) with joints grouted in solid in "Tal" or equal approved wall tile grout including all square cutting and waste to:</u>			
1	Walls.	m2	17
2	Walls in narrow widths not exceeding 300mm.	m2	3
<u>FLOOR TILES</u>			
<u>Ceramic floor tiles (PC R 70-00/m2 supplied and delivered) fixed with "Tal Gold Star 6" or similar approved adhesive in strict accordance with the manufacturer's instructions on power floated concrete floor with joints grouted in solid in "Tal" or equal approved floor tile grout including all square cutting and waste to:</u>			
3	Floors.	m2	17
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Section No. 3 Bill No. 7 Tiling			

Item No	Quantity	Rate	Amount
<u>SECTION NO. 8</u>			
<u>BILL NO. 8</u>			
<u>PLUMBING AND DRAINAGE</u>			
NOTE: The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades (1999 Edition), the Department of Public Works document No. PW 371 Specification of Materials and Methods to be used and to the Supplementary Preambles which are incorporated at the front of these Bills of Quantities.			
All rates supplied in this Bill of Quantities will be deemed to include scaffolding to any height and fixing of cold and hot water pipes up to and including roof height. All pipes suspended from concrete slabs, roof, ceiling, etc. shall be deemed to include in the rates, all necessary hanger brackets, threaded rod (irrespective of the suspension length), nuts, washers, anchors and drilling of holes in the concrete slab. For the complete supply, delivery and installation of supply piping, as specified, piping to include piping between geysers on roof. All cold and hot water pipes are to be chased into walls except where pipes are to be surface-mounted on wall face or run in ceiling voids or inside ducts, and fixed with standard type pipe saddlers and brackets at 1000mm maximum.			
Carried to Collection			R
Section No. 3 Bill No. 8 Plumbing and Drainage			

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These bills of quantities form part of and must be read in conjunction with the Technical Specifications and Drawings, which contain the full descriptions of the work to be done and material and equipment to be used. Unless otherwise described in these bills of quantities, reference should be made to the Technical Specifications for the full meaning of descriptions of work to be done and materials and equipment to be used in this service. All materials, equipment, fixings, brackets, etc., are to be supplied by the Contractor unless otherwise stated.

RAINWATER DISPOSAL

Gratings, covers, etc

- 1 Precast concrete stormwater inlet 370mm x 600mm frame

No

2

SANITARY FITTINGS

Wash Hand Basins

- 2 Surface mounted 500mm x 500mm white glazed semi-recessed wash hand vanity basin (PC : R 1000) with single tap hole complete with single lever tap (PC: R500) and including angle valves and chrome connectors including pop up waste, connected in position complete with an approved waterproof sealer.

No

2

Toilets

- 3 Close-coupled WC suite (PC : R1 500) comprising pan with double flap heavy duty wooden seat and matching 9 litre cistern.

No

2

- 4 Paraplegic close-coupled WC suite (PC : R4 000) comprising pan with matching 9 litre cistern and purpose made CP side flush lever (left or right) supplied with purpose made urea seat and cover plate.

No

1

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 Bill No. 8
 Plumbing and Drainage

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<u>Bowl Urinals</u>				
5	Stainless bowl urinal (PC : 1500) including hanger brackets, trap and associated parts fitted complete including urinal flush valve with shut of valve including all necessary connections to urinal.	No	1	
<u>Taps</u>				
6	Supply and installation of tap (PC R300)	No	5	
<u>Traps</u>				
<u>SOIL DRAINAGE</u>				
Extra over heavy duty (Class 34) 110mm diameter uPVC sewer and drain pipes for fittings				
7	Roding eye cover oval	No	1	
<u>REPAIR AND MAINTENANCE</u>				
8	Service existing Water Closet pan and cistern including unblocking if required and supply new lids to cisterns and toilet seats.	No	13	
9	Service existing Wash Hand Basin including unblocking if required.	No	9	
10	Service existing urinal including flush mechanism including unblocking if required.	No	7	
<u>COLD WATER RETICULATION INSTALLATION</u>				
<u>Supply and install Pexial Pex multilayer pipes in compliance with SANS ISO 15874</u>				
11	Ø50mm pipe	m	10	
12	Ø40mm pipe	m	30	
13	Ø32mm pipe	m	40	
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14	Ø26mm pipe	m	25		
15	Ø20mm pipe	m	50		
16	Ø16mm pipe	m	80		
<u>FITTINGS</u>					
<u>Supply and install PP-R multilayer faser fibre pipes in compliance with SANS ISO 15874 part 2 PN 20 SDR 7.4 Blue and Red colour – 20 x 2.8mm capillary brass threaded type fittings.</u>					
17	Ø16mm Equal T-piece	No	11		
18	Ø20mm Equal T-piece	No	11		
19	Ø26mm Equal T-piece	No	11		
20	Ø32mm Equal T-piece	No	11		
21	Ø20mm Ø20mm Ø16mm UN-Equal T-piece	No	6		
22	Ø26mm Ø26mm Ø20mm Equal T-piece	No	6		
23	Ø32mm Ø36mm Ø26mm UN-Equal T-piece	No	6		
24	Ø40mm Ø40mm Ø26mm UN-Equal T-piece	No	6		
25	Ø50mm Ø50mm Ø26mm UN-Equal T-piece	No	6		
26	Reducer: Ø50mm x Ø40mm	No	6		
27	Reducer: Ø40mm x Ø32mm	No	6		
28	Reducer: Ø32mm x Ø26mm	No	6		
29	Reducer: Ø26mm x Ø20mm	No	6		
30	Reducer: Ø20mm x Ø16mm	No	6		
31	Reducer: Ø32mm x Ø26mm	No	6		
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32	Ø50mm Female couplings	No	6	
33	Ø40mm Female couplings	No	6	
34	Ø32mm Female couplings	SUM	5	
35	Ø26mm Female couplings	No	5	
36	Ø20mm Female couplings	No	5	
37	Ø16mm Female couplings	No	5	
38	Ø50mm Elbow: 90°	No	5	
39	Ø40mm Elbow: 90°	No	5	
40	Ø32mm Elbow: 90°	No	5	
41	Ø26mm Elbow: 90°	No	6	
42	Ø20mm Elbow: 90°	No	6	
43	Pipe clamps and hangers	SUM	1	
<u>THREADED VALVES</u>				
44	Ø50mm isolating gate valve on cold water main pipes	No	1	
45	Ø40mm isolating gate valve on cold water main pipes	No	1	
46	Ø32mm isolating gate valve on cold water main pipes	No	6	
47	Ø26mm isolating gate valve on cold water main pipes	No	2	
48	Ø20mm isolating gate valve on cold water main pipes	No	11	
49	Ø16mm isolating gate valve on cold water main pipes	No	21	
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<u>SANITARY DRAINAGE INSTALLATION</u>					
<u>SANITARY DRAINAGE PIPING</u>					
HDP butt welded including electro fusion couplers in the running length, installed in accordance with SANS 10400 and SANS 10252-2:2004					
<u>PIPING</u>					
50	Ø56mm	m	75		
51	Ø75mm	m	50		
52	Ø110mm	m	50		
<u>PIPE FITTINGS</u>					
53	Ø56mm fitting; 90°elbow	No	60		
54	Ø110mm fitting; 45°elbow	No	14		
55	Ø110mm fitting; 95°elbow, with Ø50mm vent horn inspection	No	13		
56	Ø110mm fitting; 95°elbow, plain	No	25		
57	Ø56mm x Ø56mm x Ø56mm fitting; 90° Equal T-Piece	No	40		
58	Ø75mm x Ø56mm x Ø75mm fitting; 90° UN-Equal T-Piece	No	4		
59	Ø110mm x Ø110mm x Ø50mm branch fitting; 87.5° swept entry, lateral branch junction	No	4		
60	Ø110mm x Ø110mm x Ø110mm fitting; 87.5° swept entry, lateral branch junction	No	13		
61	Ø110mm x Ø56mm fitting; concentric reducer	No	2		
62	Ø110mm straight pan collars/connector	No	50		
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63	Ø56mm vent one way valve	No	21	
<u>WASTE TRAPS</u>				
64	50mm 'Dutton' flexi rubber "P" trap complete with coupling clamps.	No	60	
<u>PROVISIONAL SUM</u>				
<u>Allow the amount for adjustment of Mechanical engineering services to be used at the discretion of the principal agent and deducted in whole or in part if not required:</u>				
65	For Decommissioning and Removal of existing damaged piping and fittings including making good on chased walls and openings.	Item		45 000.00
66	For Unblocking existing main lines	Item		25 000.00
67	For Supply and Installation of any other item not included in the bill required to complete installations.	Item		20 000.00
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	<u>SECTION NO. 9</u>			
	<u>BILL NO. 9</u>			
	<u>ELECTRICAL INSTALLATION</u>			
	<u>GENERAL PURPOSE POWER OUTLETS AND LIGHTING</u>			
	<u>CONDUITS</u>			
	<u>Supply and installation of galvanised steel conduit complete with all accessories including couplings, bending and fixings as specified:</u>			
1	20mm - surface mounted	m	30	
	<u>CONDUIT BOXES</u>			
	<u>Supply and install conduit boxes complete with all accessories including conduit terminations</u>			
2	Round PVC looping boxes for 20mm conduit, complete with cover plates	No	24	
	<u>Steel outlet boxes excluding covers:</u>			
3	100mm x 50mm x 50mm conduit box.	No	2	
4	100mm x 100mm x 50mm conduit box.	No	1	
	<u>WIRING AND CONDUCTORS</u>			
	<u>Supply and install PVC insulated copper conductors in required colours, drawn into conduit or trunking:</u>			
5	2.5mm ²	m	1 800	
6	4mm ²	m	600	
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7	2.5mm ² B.C.E.W.	m	1 200		
	<u>LIGHT SWITCHES</u>				
	<u>Supply, install and connect flush mounted light switch complete with cover plate and all accessories:</u>				
8	16A 1 lever 1 way.	No	2		
	<u>LUMINAIRES</u>				
	<u>Supply, install and connect luminaires mounted as specified, complete with lamps, control gear and all accessories:</u>				
9	18W surface mounted bulkhead LED light fitting.	No	24		
	<u>SOCKET OUTLETS</u>				
	<u>Supply, install and connect Switched socket outlets mounted flush in wall or as specified, complete with cover plates and all accessories:</u>				
10	16A Double switch socket outlet (White).	No	1		
	<u>ISOLATORS</u>				
	<u>Supply and install Isolators mounted as specified complete with cover plates and all accessories.</u>				
11	Double pole	No	1		
	<u>UNIT SUPPLY CABLE</u>				
	<u>Supply, install and connect reticulation cables installed in existing sleeves.</u>				
12	6 mm ² 3-core PVC/SWA/PVC Cable	m	30		
13	6 mm ² 3-core PVC/SWA/PVC Cable Terminations	No	2		
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DISTRIBUTION BOARD

14 Unit Distribution Board

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Electrical Installation

Item No		Quantity	Rate	Amount
	<u>SECTION NO. 10</u>			
	<u>BILL NO. 10</u>			
	<u>GLAZING</u>			
	<u>User note</u>			
	NOTE: The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades (1999 Edition), the Department of Public Works document No. PW 371 Specification of Materials and Methods to be used and to the Supplementary Preambles which are incorporated at the front of these Bills of Quantities.			
	<u>GLAZING TO STEEL</u>			
	<u>4mm Obscure glass</u>			
1	Panes exceeding 0,1m2 and not exceeding 0,5m2	m2	2	
	<u>MIRRORS</u>			
	<u>8 mm Float glass silver backed mirror detail with bevelled edges glued to and including 16mm superwood frame fixed with chrome cupped mirror screws to wall all in accordance with Architects detail:</u>			
2	Size 400 mm x 600 mm.	No	9	
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Item No		Quantity	Rate	Amount
	<u>SECTION NO. 11</u>			
	<u>BILL NO. 11</u>			
	<u>PAINTWORK</u>			
	<u>User note</u>			
	NOTE: The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades (1999 Edition), the Department of Public Works document No. PW 371 Specification of Materials and Methods to be used and to the Supplementary Preambles which are incorporated at the front of these Bills of Quantities.			
	The following finishes, including primers and subsequent coats are to be those manufactured by "Plascon Paints" and of the highest type and quality specified.			
	Plascon new work painting specification document to be applied when pricing work accordingly.			
	Attention is drawn to the measurement rules in the measuring system regarding paint colours which read as follows: "4. Paintwork shall be classified in the different colour groups "White", "Pastel", "Deep" and "Transparent" (in accordance with the Natural Colour System (NCS) adopted by the SA National Standards)" and "5. Paintwork in one colour group may be given as extra over paintwork in another colour group"			
	<u>PAINTWORK ETC TO NEW WORK</u>			
	<u>ON WOOD</u>			
	Carried to Collection			
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<p>Prepare, stop and apply one coat primer and two coats Professional Eggshell Enamel paint on:</p>	m2	4	R
<p>General surfaces.</p>			
<p><u>PAINTWORK TO PREVIOUSLY PAINTED SURFACES</u></p>			
<p><u>SUPPLEMENTARY PREAMBLES</u></p>			
<p><u>PREPARATORY WORK TO EXISTING WORK</u></p>			
<p><u>Previously painted plastered surfaces</u></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><u>Previously painted metal surfaces</u></p>			
<p>Surfaces shall be thoroughly rubbed and cleaned down. Blistered or peeling paint shall be completely removed down to bare metal</p>			
<p><u>Previously painted wood surfaces</u></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><u>COLOURS</u></p>			
<p>Unless otherwise described paintwork on ceilings shall be deemed to be in the "White" colour group and paintwork on all other components shall be deemed to be in the "Pastel" colour group in accordance with the Natural Colour System (NCS) adopted by the SA National Standards</p>			
<p>Carried to Collection</p>			R
<p>Section No. 3 Bill No. 11 Paintwork</p>			

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ON FLOATED PLASTER

Remove any loose and flaking residue by means of wire brushing, wash with 'Polycell Sugar Soap' or weak spirits of salts, open up cracks and make good with 'Polycell Mendall 90' or 'Polycell Polyfilla Exterior' filler sanded smooth, apply one coat Plascon Professional Plaster/Gypsum Primer(PP 700) and two coats Plascon Professional Low Sheen Pure Acrylic (PEM 1000) paint on existing water based paint surfaces:

2	On interior walls	m2	84
3	On interior ceilings	m2	112

Remove any loose and flaking residue by means of wire brushing and hydro blast with equipment 200 to 300 bars, wash with 'Polycell Sugar Soap' or weak spirits of salts, open up cracks and make good with 'Polycell Mendall 90' or 'Polycell Polyfilla Exterior' filler sanded smooth and apply two coats "Plascon Wall & All (WAA)" pure acrylic on

4	On external walls	m2	441
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ON METAL

Remove any loose and flaking residue by means of wire brushing, wash with 'Polycell Sugar Soap' or weak spirits of salts, open up cracks and make good with 'Polycell Mendall 90' or 'Polycell Polyfilla Exterior' filler sanded smooth apply one coat 'Plascon Universal Undercoat' and two coats 'Plascon Velvagro Polyurethane Enamel' paint on existing enamel based paint surfaces:

5	Doors	m2	8
6	Pressed steel door frames.	m2	34

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 Bill No. 11
 Paintwork

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	<u>Remove any loose and flaking residue by means of wire brushing, wash with 'Polycell Sugar Soap' or weak spirits of salts, open up cracks and make good with 'Polycell Mendall 90' or 'Polycell Polyfilla Exterior' filler sanded smooth and apply two coats 'Plascon Wall & All (WAA)' pure acrylic on</u>				
7	On gates and screens	m2	282		
	<u>Spot priming bare metal surfaces, one coat alkyd based universal undercoat and two coats superior quality universal enamel paint, on work in poor condition</u>				
8	Rainwater downpipes not exceeding 300mm girth	m	54		
	<u>ON WOOD</u>				
	<u>Remove any loose and flaking residue by means of wire brushing, sand down, wash with 'Polycell Sugar Soap' or weak spirits of salts, rinse and apply one coat Plascon Oil Wood Primer (UC2/UC17) and two coats Plascon Gloss Enamel (PSB800) paint on existing enamel surfaces:</u>				
9	On doors	m2	48		
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Item No		Quantity	Rate	Amount
	<u>SECTION NO. 12</u>			
	<u>BILL NO. 12</u>			
	<u>EXTERNAL WORKS</u>			
	NOTE: The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades (1999 Edition), the Department of Public Works document No. PW 371 Specification of Materials and Methods to be used and to the Supplementary Preambles which are incorporated at the front of these Bills of Quantities.			
	<u>CONCRETE BLOCK PAVING ETC</u>			
	<u>Remove and set-aside existing concrete paving blocks (re-instate elsewhere measured)</u>			
1	60 mm Interlocking concrete paving blocks	m2	4	
	<u>Re-lay existing concrete paving blocks shall comply with the requirements of SABS 1058 - 1985 Specifications</u>			
2	Re-lay existing 60 mm Interlocking concrete paving blocks (Type SA-A, Ref UTG 2) or similar approved, light grey coloured laid to falls on and including a new 20 mm bed of washed river sand, application of weed killer, sand filling to joints, compacting and all necessary edge blocks.	m2	4	
	<u>Filling under floors, steps, paving, etc.</u>			
3	Suitable imported filling material (G7) laid under paving in maximum 150 mm thick layers and compacted to 97% modified AASHTO density at optimum moisture content.	m3	2	
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	External Works			

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<u>Compaction of surfaces</u>				
4	Rip up, scarify and re-compact earth surface 150 mm deep to 95% modified AASHTO density at optimum moisture content.	m2	12	
<u>Concrete paving blocks shall comply with the requirements SANS1058:2012 edition specifications (Paving to be inspected and re-sand grouted after three months)</u>				
5	60 mm Interlocking concrete paving blocks (Type SA-A, Ref UTG 2) or similar approved, charcoal grey coloured laid to falls in accordance with SANS 1200 MJ and CMA Concrete block manual on and including a 25 mm bed of washed river sand, application of weed killer, sand filling to joints, compacting and all necessary edge blocks.	m2	8	
<u>Treatment of existing paving blocks</u>				
6	Existing paving blocks to be powerwashed with high pressure water. Contractor to ensure adequate drainage into stormwater and avoid flooding tenanted areas.	m2	80	
<u>FENCING</u>				
<u>"CLEARVUE" or similar approved galvanised barbed/spiked wire fencing</u>				
<u>TEMPORARY CONTAINER RENTAL</u>				
<u>General</u>				
The following prefabricated structures have been measured as complete units i.e. the components of the units have not been separately measured. The descriptions, therefore, of such units shall be deemed to include all components, assembling, housing etc. Units include fittings such as window blinds, stove, single bowl sink, geysers wash hand basins, urinals, external doors, showers.				
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Allow for the supply, delivery and rental for prefabricated "KWIKSPACE" 40mm polyurethane filled, steel skinned panels to 112mm structurally insulated panels :

Note: Site must not slope more than 200mm over the area of the temporary building units.

3 000 x 6 000mm High unit

7	Deliver container to site and removal from site upon completion	No	1
8	Monthly rental	No	2

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External Works

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	<u>SECTION NO. 2</u>			
	<u>BILL NO.2</u>			
	<u>DEMOLITIONS AND ALTERATIONS</u>			
	NOTE: The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades (1999 Edition), the Department of Public Works document No. PW 371 Specification of Materials and Methods to be used and to the Supplementary Preambles which are incorporated at the front of these Bills of Quantities.			
1	The alterations to the electrical and air conditioning reticulation installations shall be executed by selected sub-contractors (as elsewhere provided) and the Contractor shall be responsible for the co-ordination of such work with his own.	Item		
2	Prices for the demolition of any portion of the structure shall include for its demolition complete with all surface finishes such as plaster, screeds, etc., all attached items of joinery such as skirtings, etc. and all reinforcement, conduit, pipes, lintels, etc. built into that portion of the structure and the removal from site thereof.	Item		
3	Prices for the removal of doors and frames shall include for the removal of fanlights, ironmongery, architraves and other associated trim.	Item		
4	Prices for the removal of windows shall include for the removal of glass, louvres, etc. attached to the windows.	Item		
5	The Contractor is advised to take all dimensions affecting the existing building on the site as he will be held solely responsible for all new work being of the correct size.	Item		
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6	All sizes for building up or forming openings are net and the Contractor must allow in his prices for extra labour and material, cutting and bonding new to existing brickwork, building square jambs, building cavities solid and removing old sills as necessary, and for making good junction of new plaster with old including all extra patching to work disturbed beyond the net size of the openings, which are to be formed or built up.	Item		
7	All materials and workmanship in building up, making good etc., are to match existing and where new materials abut existing, they are to be neatly joined to same.	Item		
8	The contractor is advised to visit the site to acquaint himself with the types of construction and finishes so that he may price "to match existing" items where called for.	Item		
9	"Making good" existing work where disturbed or damaged shall mean the provision of the necessary new material to match existing and the necessary workmanship so that a complete and perfect restoration is achieved to the satisfaction of the Architect.	Item		
10	"Making good" where abutting walls etc. are removed shall mean the provision of the necessary material and workmanship in filling the gaps to match surrounding finishes so that a complete and perfect surface, is obtained to the satisfaction of the Architect.	Item		
11	The rates for "taking out", "taking down" of windows, doors etc., from brickwork to remain are to include for making good all work disturbed to match surrounding finishes.	Item		
12	Contractor to allow for removal of rubble, accumulated rubbish on site.	Item		
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Alteration				

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	<u>Treatment of existing tiles</u>				
21	Existing tiled floors to be powerwashed deep cleaned with appropriate chemicals and high pressure water. Contractor to ensure adequate drainage into stormwater and avoid flooding tenanted areas.	m2	48		
22	Existing tiled walls to be powerwashed deep cleaned with appropriate chemicals and high pressure water. Contractor to ensure adequate drainage into stormwater and avoid flooding tenanted areas.	m2	209		
	<u>Treatment of existing painted and face brick walls</u>				
23	Existing face and painted walls to be powerwashed with high pressure water including soap. Contractor to ensure adequate drainage into stormwater and avoid flooding tenanted areas.	m2	108		
	<u>Making good cement screeds</u>				
24	25mm Thick on floors in patches	m2	0.5		
	<u>Making good gypsum plasterboard ceilings and timber brandering</u>				
25	Ceilings in patches	m2	2		
	<u>Making good internal cement plaster</u>				
26	Walls in patches	m2	6		
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Alteration

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Alteration

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<u>SECTION NO. 3</u>			
<u>BILL NO 3</u>			
<u>ROOF COVERINGS</u>			
NOTE: The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades (1999 Edition), the Department of Public Works document No. PW 371 Specification of Materials and Methods to be used and to the Supplementary Preambles which are incorporated at the front of these Bills of Quantities.			
Where battens for roof coverings form part of the plate nailed timber roof truss design it shall be included under the roof construction in the "Carpentry and Joinery" trade and not under this trade			
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PROFILED METAL SHEETING AND ACCESSORIES

Profiled metal sheeting is available in various thicknesses

Usually Z275 spelter galvanising is used in inland areas and Z600 spelter galvanising for coastal areas. However galvanised sheeting is generally not used in coastal areas

When the pitch of troughed roof covering is less than 5 degrees or if dustproofing is required then the description of roof coverings "with side laps sealed" is to be used

Where roof coverings are fixed on top of rigid board insulation to purlins etc they are to be described as such

Note that besides galvanised steel, sheeting is also available in corten steel, stainless steel, copper and aluminium

SERVICING OF EXISTING STEEL ROOFS

Contractors to check all flashings and roof coverings to locate leaks and allow for replacement of flashing and cleaning of existing gutters and downpipes as required.

1	Roof covering with pitches not exceeding 25 degrees	m2	48
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	<u>BILL NO 4</u>			
	<u>CARPENTRY AND JOINERY</u>			
	NOTE: The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades (1999 Edition), the Department of Public Works document No. PW 371 Specification of Materials and Methods to be used and to the Supplementary Preambles which are incorporated at the front of these Bills of Quantities.			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	<u>DOORS ETC</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	<u>SEMI- SOLID FLUSH PANEL DOORS WITH TWO CONCEALED EDGES TO EACH LEAF HUNG TO STEEL OR TIMBER FRAMES</u>			
1	40 mm Door size 813 mm x 2032 mm with commercial veneer backing.	No	4	
2	40 mm Door size 912 mm x 2955 mm with commercial veneer.	No	1	
	<u>SOLID FLUSH PANEL DOORS WITH TWO CONCEALED EDGES TO EACH LEAF HUNG TO STEEL OR TIMBER FRAMES</u>			
3	40 mm Door size 813 mm x 2032 mm with commercial veneer.	No	2	
	Carried Forward to Summary of Section No. 4			
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	Carpentry and Joinery			

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Item No		Quantity	Rate	Amount
	<u>SECTION NO. 5</u>			
	<u>BILL NO.5</u>			
	<u>IRONMONGERY</u>			
	<p>NOTE:</p> <p>The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades (1999 Edition), the Department of Public Works document No. PW 371 Specification of Materials and Methods to be used and to the Supplementary Preambles which are incorporated at the front of these Bills of Quantities.</p> <p>NOTE: Prices are to include for fixing ironmongery to softwood, hardwood or pressed metal door frames, etc.</p> <p><u>Locks and furniture:</u></p>			
1	Supply (PC : R300) and installation of mortice lock and furniture.	No	2	
2	Supply (PC : R200) and installation of door handle.	No	16	
3	Supply (PC : R450) and installation of WC indicator bolt.	No	6	
4	Supply (PC : R50) and installation of door stop plugged and screwed to brickwork or concrete.	No	8	
5	Supply (PC : R2500) and installation of door closer fixed to frame.	No	1	
	<u>Supply and fix the following ironmongery:</u>			
6	32 mm Diameter stainless steel rear grab rail (Code SR2) from Chairman Industries bolted to wall with 6 mm diameter stainless steel bolts, all as the manufacturer's instructions.	No	1	
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	Ironmongery			

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Bill No. 5

Ironmongery

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Ironmongery

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Item No		Quantity	Rate	Amount
	<u>SECTION NO. 6</u>			
	<u>BILL NO. 6</u>			
	<u>METALWORK</u>			
	NOTE: The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades (1999 Edition), the Department of Public Works document No. PW 371 Specification of Materials and Methods to be used and to the Supplementary Preambles which are incorporated at the front of these Bills of Quantities.			
	<u>STEEL WELDED SCREENS, GATES, ETC</u>			
	<u>Screens and gates</u>			
1	Service steel 900 x 2100mm entrance doors including grinding off welded shut locks, repairs to hinges, locks etc.	No	2	
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	Section No. 4 Bill No. 6 Metalwork			

Item No	Quantity	Rate	Amount
<u>SECTION NO. 7</u>			
<u>BILL NO. 7</u>			
<u>TILING</u>			
NOTE: The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades (1999 Edition), the Department of Public Works document No. PW 371 Specification of Materials and Methods to be used and to the Supplementary Preambles which are incorporated at the front of these Bills of Quantities.			
<u>WALL TILES</u>			
<u>Ceramic tiles (PC R 100-00/m2 supplied and delivered) fixed with "Tal" or a similar approved adhesive all in strict accordance with the manufacturer's instructions on a cement plaster backing (elsewhere measured) with joints grouted in solid in "Tal" or equal approved wall tile grout including all square cutting and waste to:</u>			
1	Walls.	m2	10
2	Walls in narrow widths not exceeding 300mm.	m2	2
<u>FLOOR TILES</u>			
<u>Ceramic floor tiles (PC R 70-00/m2 supplied and delivered) fixed with "Tal Gold Star 6" or similar approved adhesive in strict accordance with the manufacturer's instructions on power floated concrete floor with joints grouted in solid in "Tal" or equal approved floor tile grout including all square cutting and waste to:</u>			
3	Floors.	m2	7
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Item No		Quantity	Rate	Amount
	<u>SECTION NO. 8</u>			
	<u>BILL NO. 8</u>			
	<u>PLUMBING AND DRAINAGE</u>			
	<p>NOTE:</p> <p>The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades (1999 Edition), the Department of Public Works document No. PW 371 Specification of Materials and Methods to be used and to the Supplementary Preambles which are incorporated at the front of these Bills of Quantities.</p> <p>These bills of quantities form part of and must be read in conjunction with the Technical Specifications and Drawings, which contain the full descriptions of the work to be done and material and equipment to be used. Unless otherwise described in these bills of quantities, reference should be made to the Technical Specifications for the full meaning of descriptions of work to be done and materials and equipment to be used in this service. All materials, equipment, fixings, brackets, etc, are to be supplied by the Contractor unless otherwise stated.</p>			
	Carried to Collection			
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All rates supplied in this Bill of Quantities will be deemed to include scaffolding to any height and fixing of cold and hot water pipes up to and including roof height. All pipes suspended from concrete slabs, roof, ceiling, etc. shall be deemed to include in the rates, all necessary hanger brackets, threaded rod (irrespective of the suspension length), nuts, washers, anchors and drilling of holes in the concrete slab. For the complete supply, delivery and installation of supply piping, as specified, piping to include piping between geysers on roof. All cold and hot water pipes are to be chased into walls except where pipes are to be surface-mounted on wall face or run in ceiling voids or inside ducts, and fixed with standard type pipe saddlers and brackets at 1000mm maximum.

RAINWATER DISPOSAL

"Watertite" aluminium

1	150 x 140mm Gutters including snow straps at 500mm centre	m	10
---	---	---	----

Extra For

2	Stop end	No	1
---	----------	----	---

3	100 x 100mm Rainwater pipes in continuous lengths	m	7
---	---	---	---

4	Rainwater shoe	No	2
---	----------------	----	---

Gratings, covers, etc

5	Precast concrete stormwater inlet 370mm x 600mm frame	No	1
---	---	----	---

SANITARY FITTINGS

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Wash Hand Basins

- 6 Surface mounted 500mm x 500mm white glazed semi-recessed wash hand vanity basin (PC : R 1000) with single tap hole complete with single lever tap (PC: R500) and including angle valves and chrome connectors including pop up waste, connected in position complete with an approved waterproof sealer.

No

2

Toilets

- 7 Close-coupled WC suite (PC : R1 500) comprising pan with double flap heavy duty wooden seat and matching 9 litre cistern.

No

3

- 8 Paraplegic close-coupled WC suite (PC : R4 000) comprising pan with matching 9 litre cistern and purpose made CP side flush lever (left or right) supplied with purpose made urea seat and cover plate.

No

0.2

Bowl Urinals

- 9 Stainless bowl urinal (PC : 1500) including hanger brackets, trap and associated parts fitted complete including urinal flush valve with shut of valve including all necessary connections to urinal.

No

2

Taps

- 10 Supply and installation of tap (PC R600)

No

2

- 11 Supply and installation of tap (PC R300)

No

4

Traps

SOIL DRAINAGE

Extra over heavy duty (Class 34) 110mm diameter uPVC sewer and drain pipes for fittings

- 12 Roding eye cover oval

No

1

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REPAIR AND MAINTENANCE

13	Service existing Water Closet pan and cistern including unblocking if required and supply new lids to cisterns and toilet seats.	No	6
14	Service existing Wash Hand Basin including unblocking if required.	No	4
15	Service existing urinal including flush mechanism including unblocking if required.	No	3

COLD WATER RETICULATION INSTALLATION

Supply and install Pexial Pex multilayer pipes in compliance with SANS ISO 15874

16	Ø32mm pipe	m	10
17	Ø26mm pipe	m	3
18	Ø20mm pipe	m	3
19	Ø16mm pipe	m	3

FITTINGS

Supply and install PP-R multilayer faser fibre pipes in compliance with SANS ISO 15874 part 2 PN 20 SDR 7.4 Blue and Red colour – 20 x 2.8mm capillary brass threaded type fittings.

20	Ø16mm Equal T-piece	No	4
21	Ø20mm Equal T-piece	No	4
22	Ø26mm Equal T-piece	No	4
23	Ø32mm Equal T-piece	No	4
24	Ø20mm Ø20mm Ø16mm UN-Equal T-piece	No	4

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25	Ø26mm Ø26mm Ø20mm Equal T-piece	No	4	
26	Ø32mm Ø36mm Ø26mm UN-Equal T-piece	No	6	
27	Reducer: Ø32mm x Ø26mm	No	6	
28	Reducer: Ø26mm x Ø20mm	No	6	
29	Reducer: Ø20mm x Ø16mm	No	6	
30	Reducer: Ø32mm x Ø26mm	No	6	
31	Ø50mm Female couplings	No	6	
32	Ø40mm Female couplings	No	6	
33	Ø32mm Female couplings	SUM	5	
34	Ø26mm Female couplings	No	5	
35	Ø20mm Female couplings	No	5	
36	Ø16mm Female couplings	No	5	
37	Ø32mm Elbow: 90°	No	5	
38	Ø26mm Elbow: 90°	No	6	
39	Ø20mm Elbow: 90°	No	6	
40	Pipe clamps and hangers	SUM	1	
<u>THREADED VALVES</u>				
41	Ø32mm isolating gate valve on cold water main pipes	No	1	
42	Ø26mm isolating gate valve on cold water main pipes	No	2	
43	Ø20mm isolating gate valve on cold water main pipes	No	2	
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44	Ø16mm isolating gate valve on cold water main pipes	No	4		
<u>SANITARY DRAINAGE INSTALLATION</u>					
<u>SANITARY DRAINAGE PIPING</u>					
HDP butt welded including electro fusion couplers in the running length, installed in accordance with SANS 10400 and SANS 10252-2:2004					
<u>PIPING</u>					
45	Ø56mm	m	15		
46	Ø75mm	m	20		
47	Ø110mm	m	20		
<u>PIPE FITTINGS</u>					
48	Ø56mm fitting; 90°elbow	No	30		
49	Ø110mm fitting; 45°elbow	No	7		
50	Ø110mm fitting; 95°elbow, with Ø50mm vent horn inspection	No	7		
51	Ø110mm fitting; 95°elbow, plain	No	7		
52	Ø56mm x Ø56mm x Ø56mm fitting; 90° Equal T-Piece	No	14		
53	Ø110mm x Ø110mm x Ø50mm branch fitting; 87.5° swept entry, lateral branch junction	No	7		
54	Ø110mm x Ø110mm x Ø110mm fitting; 87.5° swept entry, lateral branch junction	No	7		
55	Ø110mm x Ø56mm fitting; concentric reducer	No	2		
56	Ø110mm straight pan collars/connector	No	6		
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Item No		Quantity	Rate	Amount
	<u>SECTION NO. 9</u>			
	<u>BILL NO. 9</u>			
	<u>ELECTRICAL INSTALLATION</u>			
	<u>GENERAL PURPOSE POWER OUTLETS AND LIGHTING</u>			
	<u>CONDUITS</u>			
	<u>Supply and installation of galvanised steel conduit complete with all accessories including couplings, bending and fixings as specified:</u>			
1	20mm - surface mounted	m	20	
	<u>CONDUIT BOXES</u>			
	<u>Supply and install conduit boxes complete with all accessories including conduit terminations</u>			
2	60mm round, 25mm deep for 20mm conduit mounted flush in wall or fixed to surface	No	13	
	<u>Steel outlet boxes excluding covers:</u>			
3	100mm x 50mm x 50mm conduit box.	No	1	
4	100mm x 100mm x 50mm conduit box.	No	1	
	<u>WIRING AND CONDUCTORS</u>			
	<u>Supply and install PVC insulated copper conductors in required colours, drawn into conduit or trunking:</u>			
5	2.5mm ²	m	900	
6	4mm ²	m	400	
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7	2.5mm ² B.C.E.W.	m	700		
	<u>LIGHT SWITCHES</u>				
	<u>Supply, install and connect flush mounted light switch complete with cover plate and all accessories:</u>				
8	16A 1 lever 1 way.	No	2		
	<u>LUMINAIRES</u>				
	<u>Supply, install and connect luminaires mounted as specified, complete with lamps, control gear and all accessories:</u>				
9	18W surface mounted bulkhead LED light fitting.	No	13		
	<u>SOCKET OUTLETS</u>				
	<u>Supply, install and connect Switched socket outlets mounted flush in wall or as specified, complete with cover plates and all accessories:</u>				
10	16A Double switch socket outlet (White).	No	1		
	<u>ISOLATORS</u>				
	<u>Supply and install Isolators mounted as specified complete with cover plates and all accessories.</u>				
11	Double pole	No	1		
	<u>UNIT SUPPLY CABLE</u>				
	<u>Supply, install and connect reticulation cables installed in existing sleeves.</u>				
12	6 mm ² 3-core PVC/SWA/PVC Cable	m	30		
13	6 mm ² 3-core PVC/SWA/PVC Cable Terminations	No	2		
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DISTRIBUTION BOARD

14 Unit Distribution Board

No

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Item No		Quantity	Rate	Amount
	<u>SECTION NO. 10</u>			
	<u>BILL NO. 10</u>			
	<u>GLAZING</u>			
	<u>User note</u>			
	NOTE: The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades (1999 Edition), the Department of Public Works document No. PW 371 Specification of Materials and Methods to be used and to the Supplementary Preambles which are incorporated at the front of these Bills of Quantities.			
	<u>GLAZING TO STEEL</u>			
	<u>4mm Obscure glass</u>			
1	Panes exceeding 0,1m2 and not exceeding 0,5m2	m2	2	
	<u>MIRRORS</u>			
	<u>8 mm Float glass silver backed mirror detail with bevelled edges glued to and including 16mm superwood frame fixed with chrome cupped mirror screws to wall all in accordance with Architects detail:</u>			
2	Size 400 mm x 600 mm.	No	4	
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	Bill No. 10			
	Glazing			

Item No	Quantity	Rate	Amount
<u>SECTION NO. 11</u>			
<u>BILL NO. 11</u>			
<u>PAINTWORK</u>			
<u>User note</u>			
NOTE:			
The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades (1999 Edition), the Department of Public Works document No. PW 371 Specification of Materials and Methods to be used and to the Supplementary Preambles which are incorporated at the front of these Bills of Quantities.			
The following finishes, including primers and subsequent coats are to be those manufactured by "Plascon Paints" and of the highest type and quality specified.			
Plascon new work painting specification document to be applied when pricing work accordingly.			
Attention is drawn to the measurement rules in the measuring system regarding paint colours which read as follows:			
"4. Paintwork shall be classified in the different colour groups "White", "Pastel", "Deep" and "Transparent" (in accordance with the Natural Colour System (NCS) adopted by the SA National Standards)" and			
"5. Paintwork in one colour group may be given as extra over paintwork in another colour group"			
<u>PAINTWORK ETC TO NEW WORK</u>			
<u>ON METAL SURFACES</u>			
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	<u>One coat alkyd based zinc phosphate primer and two coats premium quality polyurethane enamel paint, on steel</u>				
1	Eaves gutters not exceeding 300mm girth	m	10		
2	Rainwater downpipes not exceeding 300mm girth	m	7		
	<u>ON WOOD</u>				
	<u>Prepare, stop and apply one coat primer and two coats Professional Eggshell Enamel paint on:</u>				
3	General surfaces.	m2	24		
	<u>PAINTWORK TO PREVIOUSLY PAINTED SURFACES</u>				
	<u>SUPPLEMENTARY PREAMBLES</u>				
	<u>PREPARATORY WORK TO EXISTING WORK</u>				
	<u>Previously painted plastered surfaces</u>				
	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				
	<u>Previously painted metal surfaces</u>				
	Surfaces shall be thoroughly rubbed and cleaned down. Blistered or peeling paint shall be completely removed down to bare metal				
	<u>Previously painted wood surfaces</u>				
	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				
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COLOURS

Unless otherwise described paintwork on ceilings shall be deemed to be in the "White" colour group and paintwork on all other components shall be deemed to be in the "Pastel" colour group in accordance with the Natural Colour System (NCS) adopted by the SA National Standards

ON FLOATED PLASTER

Remove any loose and flaking residue by means of wire brushing, wash with 'Polycell Sugar Soap' or weak spirits of salts, open up cracks and make good with 'Polycell Mendall 90' or 'Polycell Polyfilla Exterior' filler sanded smooth, apply one coat Plascon Professional Plaster/Gypsum Primer(PP 700) and two coats Plascon Professional Low Sheen Pure Acrylic (PEM 1000) paint on existing water based paint surfaces:

4	On interior walls	m2	52
5	On interior ceilings	m2	52

Remove any loose and flaking residue by means of wire brushing and hydro blast with equipment 200 to 300 bars, wash with 'Polycell Sugar Soap' or weak spirits of salts, open up cracks and make good with 'Polycell Mendall 90' or 'Polycell Polyfilla Exterior' filler sanded smooth and apply two coats "Plascon Wall & All (WAA)" pure acrylic on

6	On external walls	m2	108
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ON METAL

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	<u>Remove any loose and flaking residue by means of wire brushing, wash with 'Polycell Sugar Soap' or weak spirits of salts, open up cracks and make good with 'Polycell Mendall 90' or 'Polycell Polyfilla Exterior' filler sanded smooth apply one coat 'Plascon Universal Undercoat' and two coats 'Plascon Velvagio Polyurethane Enamel' paint on existing enamel based paint surfaces:</u>			
7	Doors	m2	8	
8	Pressed steel door frames.	m2	18	
9	On windows	m2	3	
	<u>Remove any loose and flaking residue by means of wire brushing, wash with 'Polycell Sugar Soap' or weak spirits of salts, open up cracks and make good with 'Polycell Mendall 90' or 'Polycell Polyfilla Exterior' filler sanded smooth and apply two coats 'Plascon Wall & All (WAA)' pure acrylic on</u>			
10	On gates and screens	m2	3	
	<u>ON WOOD</u>			
	<u>Remove any loose and flaking residue by means of wire brushing, sand down, wash with 'Polycell Sugar Soap' or weak spirits of salts, rinse and apply one coat Plascon Oil Wood Primer (UC2/UC17) and two coats Plascon Gloss Enamel (PSB800) paint on existing enamel surfaces:</u>			
11	On doors	m2	3	
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	<u>SECTION NO. 12</u>			
	<u>BILL NO. 12</u>			
	<u>EXTERNAL WORKS</u>			
	NOTE: The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades (1999 Edition), the Department of Public Works document No. PW 371 Specification of Materials and Methods to be used and to the Supplementary Preambles which are incorporated at the front of these Bills of Quantities.			
	<u>CONCRETE BLOCK PAVING ETC</u>			
	<u>Take up and remove from site existing precast concrete etc.:</u>			
1	60mm Interlocking paving blocks .	m2	2	
	<u>Remove and set-aside existing concrete paving blocks (re-instate elsewhere measured)</u>			
2	60 mm Interlocking concrete paving blocks	m2	7	
	<u>Re-lay existing concrete paving blocks shall comply with the requirements of SABS 1058 - 1985 Specifications</u>			
3	Re-lay existing 60 mm Interlocking concrete paving blocks (Type SA-A, Ref UTG 2) or similar approved, light grey coloured laid to falls on and including a new 20 mm bed of washed river sand, application of weed killer, sand filling to joints, compacting and all necessary edge blocks.	m2	7	
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<u>Filling under floors, steps, paving, etc.</u>					
4	Suitable imported filling material (G7) laid under paving in maximum 150 mm thick layers and compacted to 97% modified AASHTO density at optimum moisture content.	m3	1		
<u>Compaction of surfaces</u>					
5	Rip up, scarify and re-compact earth surface 150 mm deep to 95% modified AASHTO density at optimum moisture content.	m2	9		
<u>Concrete paving blocks shall comply with the requirements SANS1058:2012 edition specifications (Paving to be inspected and re-sand grouted after three months)</u>					
6	60 mm Interlocking concrete paving blocks (Type SA-A, Ref UTG 2) or similar approved, charcoal grey coloured laid to falls in accordance with SANS 1200 MJ and CMA Concrete block manual on and including a 25 mm bed of washed river sand, application of weed killer, sand filling to joints, compacting and all necessary edge blocks.	m2	2		
<u>Treatment of existing paving blocks</u>					
7	Existing paving blocks to be powerwashed with high pressure water. Contractor to ensure adequate drainage into stormwater and avoid flooding tenanted areas.	m2	70		
<u>FENCING</u>					
<u>"CLEARVUE" or similar approved galvanised barbed/spiked wire fencing</u>					
<u>TEMPORARY CONTAINER RENTAL</u>					
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General

The following prefabricated structures have been measured as complete units i.e. the components of the units have not been separately measured. The descriptions, therefore, of such units shall be deemed to include all components, assembling, housing etc. Units include fittings such as window blinds, stove, single bowl sink, geysers wash hand basins, urinals, external doors, showers.

Allow for the supply, delivery and rental for prefabricated "KWIKSPACE" 40mm polyurethane filled, steel skinned panels to 112mm structurally insulated panels :

Note: Site must not slope more than 200mm over the area of the temporary building units.

3 000 x 6 000mm High unit

8	Deliver container to site and removal from site upon completion	No	1
9	Monthly rental	No	2

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	<u>BILL NO.2</u>			
	<u>DEMOLITIONS AND ALTERATIONS</u>			
	NOTE: The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades (1999 Edition), the Department of Public Works document No. PW 371 Specification of Materials and Methods to be used and to the Supplementary Preambles which are incorporated at the front of these Bills of Quantities.			
1	The alterations to the electrical and air conditioning reticulation installations shall be executed by selected sub-contractors (as elsewhere provided) and the Contractor shall be responsible for the co-ordination of such work with his own.	Item		
2	Prices for the demolition of any portion of the structure shall include for its demolition complete with all surface finishes such as plaster, screeds, etc., all attached items of joinery such as skirtings, etc. and all reinforcement, conduit, pipes, lintels, etc. built into that portion of the structure and the removal from site thereof.	Item		
3	Prices for the removal of doors and frames shall include for the removal of fanlights, ironmongery, architraves and other associated trim.	Item		
4	Prices for the removal of windows shall include for the removal of glass, louvres, etc. attached to the windows.	Item		
5	The Contractor is advised to take all dimensions affecting the existing building on the site as he will be held solely responsible for all new work being of the correct size.	Item		
	Carried to Collection		R	
	Section No. 5 Bill No. 2 Alteration			

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6	All sizes for building up or forming openings are net and the Contractor must allow in his prices for extra labour and material, cutting and bonding new to existing brickwork, building square jambs, building cavities solid and removing old sills as necessary, and for making good junction of new plaster with old including all extra patching to work disturbed beyond the net size of the openings, which are to be formed or built up.	Item		
7	All materials and workmanship in building up, making good etc., are to match existing and where new materials abut existing, they are to be neatly joined to same.	Item		
8	The contractor is advised to visit the site to acquaint himself with the types of construction and finishes so that he may price "to match existing" items where called for.	Item		
9	"Making good" existing work where disturbed or damaged shall mean the provision of the necessary new material to match existing and the necessary workmanship so that a complete and perfect restoration is achieved to the satisfaction of the Architect.	Item		
10	"Making good" where abutting walls etc. are removed shall mean the provision of the necessary material and workmanship in filling the gaps to match surrounding finishes so that a complete and perfect surface, is obtained to the satisfaction of the Architect.	Item		
11	The rates for "taking out", "taking down" of windows, doors etc., from brickwork to remain are to include for making good all work disturbed to match surrounding finishes.	Item		
12	Contractor to allow for removal of rubble, accumulated rubbish on site.	Item		
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13	Contractor to allow for full photographic survey of site internally and externally upon receipt of possession of site. Photos to be sent to Principal Agent and signed off before performing any work.		Item		
	<u>Temporary barricades, screens, roofs, etc including removal</u>				
14	Temporary wire mesh fencing as hoarding from construction site, total height 3m with temp partition.	m	30		
15	Extra over fencing for gate 813 x 2032mm high, including steel frame, padlock, primer and two coats paint	No	1		
	<u>Taking down and removing roofs, floors, panelling, ceilings, partitions, etc</u>				
16	Corrugated sheet steel roof covering and timber purlins	m2	120		
	<u>Hacking up/off and removing ceramic tiles including removing mortar bed or adhesive from concrete or brickwork and preparing surfaces for new screed, plaster, tile finish, etc</u>				
17	Tiles to floors	m2	18		
18	Tiles to walls	m2	15		
	<u>Taking out and removing piping, sanitary fittings, etc, including cutting off as necessary, disconnecting piping from fittings and making good floor and wall finishes (making good tiling and paintwork elsewhere)</u>				
19	Vitreous china WC pan with cistern	No	2		
20	Vitreous china wash hand basin, including short lengths of piping, etc	No	1		
21	Urinal bowl fixed to walls.	No	1		
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MAKING GOOD OF FINISHES, ETC

Treatment of existing tiles

22	Existing tiled floors to be powerwashed deep cleaned with appropriate chemicals and high pressure water. Contractor to ensure adequate drainage into stormwater and avoid flooding tenanted areas.	m2	120
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23	Existing tiled walls to be powerwashed deep cleaned with appropriate chemicals and high pressure water. Contractor to ensure adequate drainage into stormwater and avoid flooding tenanted areas.	m2	298
----	---	----	-----

Treatment of existing painted and face brick walls

24	Existing face and painted walls to be powerwashed with high pressure water including soap. Contractor to ensure adequate drainage into stormwater and avoid flooding tenanted areas.	m2	126
----	--	----	-----

Making good cement screeds

25	25mm Thick on floors in patches	m2	1
----	---------------------------------	----	---

Making good gypsum plasterboard ceilings and timber banderling

26	Ceilings in patches	m2	4
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Making good internal cement plaster

27	Walls in patches	m2	9
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Bill No. 2

Alteration

Item No	Quantity	Rate	Amount
<u>SECTION NO. 3</u>			
<u>BILL NO 3</u>			
<u>ROOF COVERINGS</u>			
<u>User note</u>			
NOTE: The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades (1999 Edition), the Department of Public Works document No. PW 371 Specification of Materials and Methods to be used and to the Supplementary Preambles which are incorporated at the front of these Bills of Quantities.			
Where battens for roof coverings form part of the plate nailed timber roof truss design it shall be included under the roof construction in the "Carpentry and Joinery" trade and not under this trade			
<u>PROFILED METAL SHEETING AND ACCESSORIES</u>			
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Section No. 5 Bill No. 3 Roof Covering			

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<u>User note</u>				
<p>Profiled metal sheeting is available in various thicknesses</p> <p>Usually Z275 spelter galvanising is used in inland areas and Z600 spelter galvanising for coastal areas. However galvanised sheeting is generally not used in coastal areas</p> <p>When the pitch of troughed roof covering is less than 5 degrees or if dustproofing is required then the description of roof coverings "with side laps sealed" is to be used</p> <p>Where roof coverings are fixed on top of rigid board insulation to purlins etc they are to be described as such</p> <p>Note that besides galvanised steel, sheeting is also available in corten steel, stainless steel, copper and aluminium</p> <p><u>0,5mm Z275 spelter galvanised corrugated sheet steel and accessories, fixed to timber purlins or rails</u></p>				
1	Roof covering with pitches not exceeding 25 degrees	m2	120	
2	Ridge cap 550 mm girth three times bent and notched on site to suit roof profile.	m	6	
3	Headwall flashing 375 mm girth two times bent and notched on site to suit roof profile.	m	2	
Carried to Collection				R
Section No. 5 Bill No. 3 Roof Covering				

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Bill No. 3

Roof Covering

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Bill No. 3

Roof Covering

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Item No		Quantity	Rate	Amount
	<u>SECTION NO. 4</u>			
	<u>BILL NO 4</u>			
	<u>CARPENTRY AND JOINERY</u>			
	NOTE: The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades (1999 Edition), the Department of Public Works document No. PW 371 Specification of Materials and Methods to be used and to the Supplementary Preambles which are incorporated at the front of these Bills of Quantities.			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	<u>DOORS ETC</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	<u>SEMI- SOLID FLUSH PANEL DOORS WITH TWO CONCEALED EDGES TO EACH LEAF HUNG TO STEEL OR TIMBER FRAMES</u>			
1	40 mm Door size 813 mm x 2032 mm with commercial veneer backing.	No	4	
2	40 mm Door size 912 mm x 2955 mm with commercial veneer.	No	2	
	<u>SOLID FLUSH PANEL DOORS WITH TWO CONCEALED EDGES TO EACH LEAF HUNG TO STEEL OR TIMBER FRAMES</u>			
3	40 mm Door size 813 mm x 2032 mm with commercial veneer.	No	2	
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	Bill No. 4			
	Carpentry and Joinery			

Item No	Quantity	Rate	Amount
<u>SECTION NO. 5</u>			
<u>BILL NO.5</u>			
<u>IRONMONGERY</u>			
NOTE: The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades (1999 Edition), the Department of Public Works document No. PW 371 Specification of Materials and Methods to be used and to the Supplementary Preambles which are incorporated at the front of these Bills of Quantities.			
NOTE: Prices are to include for fixing ironmongery to softwood, hardwood or pressed metal door frames, etc.			
<u>Locks and furniture:</u>			
1	Supply (PC : R300) and installation of mortice lock and furniture.	No	2
2	Supply (PC : R200) and installation of door handle.	No	24
3	Supply (PC : R450) and installation of WC indicator bolt.	No	10
4	Supply (PC : R50) and installation of door stop plugged and screwed to brickwork or concrete.	No	12
5	Supply (PC : R2500) and installation of door closer fixed to frame.	No	2
<u>Supply and fix the following ironmongery:</u>			
6	32 mm Diameter stainless steel rear grab rail (Code SR2) from Chairman Industries bolted to wall with 6 mm diameter stainless steel bolts, all as the manufacturer's instructions.	No	2
Carried to Collection			R
Section No. 5 Bill No. 5 Ironmongery			

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Bill No. 5

Ironmongery

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Bill No. 5

Ironmongery

Item No	Quantity	Rate	Amount
<u>SECTION NO. 6</u>			
<u>BILL NO. 6</u>			
<u>METALWORK</u>			
NOTE: The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades (1999 Edition), the Department of Public Works document No. PW 371 Specification of Materials and Methods to be used and to the Supplementary Preambles which are incorporated at the front of these Bills of Quantities.			
<u>STEEL WELDED SCREENS, GATES, ETC</u>			
<u>Screens and gates</u>			
1	No	2	
Service gate size 900 x 2100mm high including repairs to hinges, sliding bolt and locks etc.			
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Section No. 5 Bill No. 6 Metalwork			

Item No		Quantity	Rate	Amount
	<u>SECTION NO. 7</u>			
	<u>BILL NO. 7</u>			
	<u>TILING</u>			
	NOTE: The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades (1999 Edition), the Department of Public Works document No. PW 371 Specification of Materials and Methods to be used and to the Supplementary Preambles which are incorporated at the front of these Bills of Quantities.			
	<u>WALL TILES</u>			
	<u>Ceramic tiles (PC R 100-00/m2 supplied and delivered) fixed with "Tal" or a similar approved adhesive all in strict accordance with the manufacturer's instructions on a cement plaster backing (elsewhere measured) with joints grouted in solid in "Tal" or equal approved wall tile grout including all square cutting and waste to:</u>			
1	Walls.	m2	15	
2	Walls in narrow widths not exceeding 300mm.	m2	3	
	<u>FLOOR TILES</u>			
	<u>Ceramic floor tiles (PC R 70-00/m2 supplied and delivered) fixed with "Tal Gold Star 6" or similar approved adhesive in strict accordance with the manufacturer's instructions on power floated concrete floor with joints grouted in solid in "Tal" or equal approved floor tile grout including all square cutting and waste to:</u>			
3	Floors.	m2	18	
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	Section No. 5 Bill No. 7 Tiling			

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Item No		Quantity	Rate	Amount
	<u>SECTION NO. 8</u>			
	<u>BILL NO. 8</u>			
	<u>PLUMBING AND DRAINAGE</u>			
	<p>NOTE:</p> <p>The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades (1999 Edition), the Department of Public Works document No. PW 371 Specification of Materials and Methods to be used and to the Supplementary Preambles which are incorporated at the front of these Bills of Quantities.</p> <p>All rates supplied in this Bill of Quantities will be deemed to include scaffolding to any height and fixing of cold and hot water pipes up to and including roof height. All pipes suspended from concrete slabs, roof, ceiling, etc. shall be deemed to include in the rates, all necessary hanger brackets, threaded rod (irrespective of the suspension length), nuts, washers, anchors and drilling of holes in the concrete slab. For the complete supply, delivery and installation of supply piping, as specified, piping to include piping between geysers on roof. All cold and hot water pipes are to be chased into walls except where pipes are to be surface-mounted on wall face or run in ceiling voids or inside ducts, and fixed with standard type pipe saddlers and brackets at 1000mm maximum.</p>			
	Carried to Collection			
	<p>Section No. 5</p> <p>Bill No. 8</p> <p>Plumbing and Drainage</p>			
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These bills of quantities form part of and must be read in conjunction with the Technical Specifications and Drawings, which contain the full descriptions of the work to be done and material and equipment to be used. Unless otherwise described in these bills of quantities, reference should be made to the Technical Specifications for the full meaning of descriptions of work to be done and materials and equipment to be used in this service. All materials, equipment, fixings, brackets, etc., are to be supplied by the Contractor unless otherwise stated.

RAINWATER DISPOSAL

Gratings, covers, etc

- 1 Precast concrete stormwater inlet 370mm x 600mm frame

No

1

SANITARY FITTINGS

Wash Hand Basins

- 2 Surface mounted 500mm x 500mm white glazed semi-recessed wash hand vanity basin (PC : R 1000) with single tap hole complete with single lever tap (PC: R500) and including angle valves and chrome connectors including pop up waste, connected in position complete with an approved waterproof sealer.

No

1

Toilets

- 3 Close-coupled WC suite (PC : R1 500) comprising pan with double flap heavy duty wooden seat and matching 9 litre cistern.

No

2

- 4 Paraplegic close-coupled WC suite (PC : R4 000) comprising pan with matching 9 litre cistern and purpose made CP side flush lever (left or right) supplied with purpose made urea seat and cover plate.

No

1

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Bowl Urinals

- 5 Stainless bowl urinal (PC : 1500) including hanger brackets, trap and associated parts fitted complete including urinal flush valve with shut of valve including all necessary connections to urinal.

No

1

Taps

- 6 Supply and installation of tap (PC R300)

No

9

Traps

SOIL DRAINAGE

Extra over heavy duty (Class 34) 110mm diameter uPVC sewer and drain pipes for fittings

- 7 Roding eye cover oval

No

1

REPAIR AND MAINTENANCE

- 8 Service existing Water Closet pan and cistern including unblocking if required and supply new lids to cisterns and toilet seats.

No

10

- 9 Service existing Wash Hand Basin including unblocking if required.

No

7

- 10 Service existing urinal including flush mechanism including unblocking if required.

No

5

COLD WATER RETICULATION INSTALLATION

Supply and install Pexial Pex multilayer pipes in compliance with SANS ISO 15874

- 11 Ø50mm pipe

m

10

- 12 Ø40mm pipe

m

30

- 13 Ø32mm pipe

m

40

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 Plumbing and Drainage

14	Ø26mm pipe	m	25
15	Ø20mm pipe	m	50
16	Ø16mm pipe	m	80
<u>FITTINGS</u>			
<u>Supply and install PP-R multilayer faser fibre pipes in compliance with SANS ISO 15874 part 2 PN 20 SDR 7.4 Blue and Red colour – 20 x 2.8mm capillary brass threaded type fittings.</u>			
17	Ø16mm Equal T-piece	No	11
18	Ø20mm Equal T-piece	No	11
19	Ø26mm Equal T-piece	No	11
20	Ø32mm Equal T-piece	No	11
21	Ø20mm Ø20mm Ø16mm UN-Equal T-piece	No	6
22	Ø26mm Ø26mm Ø20mm Equal T-piece	No	6
23	Ø32mm Ø36mm Ø26mm UN-Equal T-piece	No	6
24	Ø40mm Ø40mm Ø26mm UN-Equal T-piece	No	6
25	Ø50mm Ø50mm Ø26mm UN-Equal T-piece	No	6
26	Reducer: Ø50mm x Ø40mm	No	6
27	Reducer: Ø40mm x Ø32mm	No	6
28	Reducer: Ø32mm x Ø26mm	No	6
29	Reducer: Ø26mm x Ø20mm	No	6
30	Reducer: Ø20mm x Ø16mm	No	6
31	Reducer: Ø32mm x Ø26mm	No	6
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32	Ø50mm Female couplings	No	6	
33	Ø40mm Female couplings	No	6	
34	Ø32mm Female couplings	SUM	5	
35	Ø26mm Female couplings	No	5	
36	Ø20mm Female couplings	No	5	
37	Ø16mm Female couplings	No	5	
38	Ø50mm Elbow: 90°	No	5	
39	Ø40mm Elbow: 90°	No	5	
40	Ø32mm Elbow: 90°	No	5	
41	Ø26mm Elbow: 90°	No	6	
42	Ø20mm Elbow: 90°	No	6	
43	Pipe clamps and hangers	SUM	1	
<u>THREADED VALVES</u>				
44	Ø50mm isolating gate valve on cold water main pipes	No	1	
45	Ø40mm isolating gate valve on cold water main pipes	No	1	
46	Ø32mm isolating gate valve on cold water main pipes	No	6	
47	Ø26mm isolating gate valve on cold water main pipes	No	2	
48	Ø20mm isolating gate valve on cold water main pipes	No	11	
49	Ø16mm isolating gate valve on cold water main pipes	No	21	
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SANITARY DRAINAGE INSTALLATION

SANITARY DRAINAGE PIPING

HDP butt welded including electro fusion couplers in the running length, installed in accordance with SANS 10400 and SANS 10252-2:2004

PIPING

50	Ø56mm	m	75
51	Ø75mm	m	50
52	Ø110mm	m	50

PIPE FITTINGS

53	Ø56mm fitting; 90°elbow	No	60
54	Ø110mm fitting; 45°elbow	No	14
55	Ø110mm fitting; 95°elbow, with Ø50mm vent horn inspection	No	13
56	Ø110mm fitting; 95°elbow, plain	No	25
57	Ø56mm x Ø56mm x Ø56mm fitting; 90° Equal T-Piece	No	40
58	Ø75mm x Ø56mm x Ø75mm fitting; 90° UN-Equal T-Piece	No	4
59	Ø110mm x Ø110mm x Ø50mm branch fitting; 87.5° swept entry, lateral branch junction	No	4
60	Ø110mm x Ø110mm x Ø110mm fitting; 87.5° swept entry, lateral branch junction	No	13
61	Ø110mm x Ø56mm fitting; concentric reducer	No	2
62	Ø110mm straight pan collars/connector	No	50

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63	Ø56mm vent one way valve	No	21	
<u>WASTE TRAPS</u>				
64	50mm 'Dutton' flexi rubber "P" trap complete with coupling clamps.	No	60	
<u>PROVISIONAL SUM</u>				
<u>Allow the amount for adjustment of Mechanical engineering services to be used at the discretion of the principal agent and deducted in whole or in part if not required:</u>				
65	For Decommissioning and Removal of existing damaged piping and fittings including making good on chased walls and openings.		Item	45 000.00
66	For Unblocking existing main lines		Item	25 000.00
67	For Supply and Installation of any other item not included in the bill required to complete installations.		Item	20 000.00
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Item No		Quantity	Rate	Amount
	<u>SECTION NO. 9</u>			
	<u>BILL NO. 9</u>			
	<u>ELECTRICAL INSTALLATION</u>			
	<u>GENERAL PURPOSE POWER OUTLETS AND LIGHTING</u>			
	<u>CONDUITS</u>			
	<u>Supply and installation of galvanised steel conduit complete with all accessories including couplings, bending and fixings as specified:</u>			
1	20mm - surface mounted	m	10	
	<u>CONDUIT BOXES</u>			
	<u>Supply and install conduit boxes complete with all accessories including conduit terminations</u>			
2	60mm round, 25mm deep for 20mm conduit mounted flush in wall or fixed to surface	No	8	
	<u>Steel outlet boxes excluding covers:</u>			
3	100mm x 50mm x 50mm conduit box.	No	1	RATE ONLY
4	100mm x 100mm x 50mm conduit box.	No	1	RATE ONLY
	<u>WIRING AND CONDUCTORS</u>			
	<u>Supply and install PVC insulated copper conductors in required colours, drawn into conduit or trunking:</u>			
5	2.5mm ²	m	800	
6	4mm ²	m	400	
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7	2.5mm ² B.C.E.W.	m	600		
	<u>LIGHT SWITCHES</u>				
	<u>Supply, install and connect flush mounted light switch complete with cover plate and all accessories:</u>				
8	16A 1 lever 1 way.	No	4		
	<u>LUMINAIRES</u>				
	<u>Supply, install and connect luminaires mounted as specified, complete with lamps, control gear and all accessories:</u>				
9	18W surface mounted bulkhead LED light fitting.	No	21		
	<u>SOCKET OUTLETS</u>				
	<u>Supply, install and connect Switched socket outlets mounted flush in wall or as specified, complete with cover plates and all accessories:</u>				
10	16A Double switch socket outlet (White).	No	1		
	<u>ISOLATORS</u>				
	<u>Supply and install Isolators mounted as specified complete with cover plates and all accessories.</u>				
11	Double pole	No	2		
	<u>UNIT SUPPLY CABLE</u>				
	<u>Supply, install and connect reticulation cables installed in existing sleeves.</u>				
12	6 mm ² 3-core PVC/SWA/PVC Cable	m	30		
13	6 mm ² 3-core PVC/SWA/PVC Cable Terminations	No	2		
	Carried to Collection			R	
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	Electrical Installation				

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DISTRIBUTION BOARD

14 Unit Distribution Board

No

1

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Section No. 5
 Bill No. 9
 Electrical Installation

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Electrical Installation

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Bill No. 9

Electrical Installation

Item No		Quantity	Rate	Amount
	<u>SECTION NO. 10</u>			
	<u>BILL NO. 10</u>			
	<u>GLAZING</u>			
	<u>User note</u>			
	NOTE: The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades (1999 Edition), the Department of Public Works document No. PW 371 Specification of Materials and Methods to be used and to the Supplementary Preambles which are incorporated at the front of these Bills of Quantities.			
	<u>GLAZING TO STEEL</u>			
	<u>4mm Obscure glass</u>			
1	Panes exceeding 0,1m2 and not exceeding 0,5m2	m2	3	
	<u>MIRRORS</u>			
	<u>8 mm Float glass silver backed mirror detail with bevelled edges glued to and including 16mm superwood frame fixed with chrome cupped mirror screws to wall all in accordance with Architects detail:</u>			
2	Size 400 mm x 600 mm.	No	7	
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	Section No. 5 Bill No. 10 Glazing			

Item No		Quantity	Rate	Amount
	<u>SECTION NO. 11</u>			
	<u>BILL NO. 11</u>			
	<u>PAINTWORK</u>			
	<u>User note</u>			
	NOTE: The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades (1999 Edition), the Department of Public Works document No. PW 371 Specification of Materials and Methods to be used and to the Supplementary Preambles which are incorporated at the front of these Bills of Quantities.			
	The following finishes, including primers and subsequent coats are to be those manufactured by "Plascon Paints" and of the highest type and quality specified.			
	Plascon new work painting specification document to be applied when pricing work accordingly.			
	Attention is drawn to the measurement rules in the measuring system regarding paint colours which read as follows: "4. Paintwork shall be classified in the different colour groups "White", "Pastel", "Deep" and "Transparent" (in accordance with the Natural Colour System (NCS) adopted by the SA National Standards)" and "5. Paintwork in one colour group may be given as extra over paintwork in another colour group"			
	<u>PAINTWORK ETC TO NEW WORK</u>			
	<u>ON WOOD</u>			
	Carried to Collection			
	Section No. 5 Bill No. 11 Paintwork			
			R	

1	<p><u>Prepare, stop and apply one coat primer and two coats Professional Eggshell Enamel paint on:</u></p> <p>General surfaces.</p> <p><u>PAINTWORK TO PREVIOUSLY PAINTED SURFACES</u></p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>PREPARATORY WORK TO EXISTING WORK</u></p> <p><u>Previously painted plastered surfaces</u></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><u>Previously painted metal surfaces</u></p> <p>Surfaces shall be thoroughly rubbed and cleaned down. Blistered or peeling paint shall be completely removed down to bare metal</p> <p><u>Previously painted wood surfaces</u></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><u>COLOURS</u></p> <p>Unless otherwise described paintwork on ceilings shall be deemed to be in the "White" colour group and paintwork on all other components shall be deemed to be in the "Pastel" colour group in accordance with the Natural Colour System (NCS) adopted by the SA National Standards</p> <p style="text-align: right;">Carried to Collection</p> <p>Section No. 5 Bill No. 11 Paintwork</p>	m2	28	<div>R</div>
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ON FLOATED PLASTER

Remove any loose and flaking residue by means of wire brushing, wash with 'Polycell Sugar Soap' or weak spirits of salts, open up cracks and make good with 'Polycell Mendall 90' or 'Polycell Polyfilla Exterior' filler sanded smooth, apply one coat Plascon Professional Plaster/Gypsum Primer(PP 700) and two coats Plascon Professional Low Sheen Pure Acrylic (PEM 1000) paint on existing water based paint surfaces:

2	On interior walls	m2	74
3	On interior ceilings	m2	120

Remove any loose and flaking residue by means of wire brushing and hydro blast with equipment 200 to 300 bars, wash with 'Polycell Sugar Soap' or weak spirits of salts, open up cracks and make good with 'Polycell Mendall 90' or 'Polycell Polyfilla Exterior' filler sanded smooth and apply two coats "Plascon Wall & All (WAA)" pure acrylic on

4	On external walls	m2	126
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ON METAL

Remove any loose and flaking residue by means of wire brushing, wash with 'Polycell Sugar Soap' or weak spirits of salts, open up cracks and make good with 'Polycell Mendall 90' or 'Polycell Polyfilla Exterior' filler sanded smooth apply one coat 'Plascon Universal Undercoat' and two coats 'Plascon Velvaglo Polyurethane Enamel' paint on existing enamel based paint surfaces:

5	Pressed steel door frames.	m2	27
6	On windows	m2	5

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	<u>Remove any loose and flaking residue by means of wire brushing, wash with 'Polycell Sugar Soap' or weak spirits of salts, open up cracks and make good with 'Polycell Mendall 90' or 'Polycell Polyfilla Exterior' filler sanded smooth and apply two coats 'Plascon Wall & All (WAA)' pure acrylic on</u>				
7	On gates and screens	m2	23		
	<u>Spot priming bare metal surfaces, one coat alkyd based universal undercoat and two coats superior quality universal enamel paint, on work in poor condition</u>				
8	Rainwater downpipes not exceeding 300mm girth	m	10		
	<u>ON WOOD</u>				
	<u>Remove any loose and flaking residue by means of wire brushing, sand down, wash with 'Polycell Sugar Soap' or weak spirits of salts, rinse and apply one coat Plascon Oil Wood Primer (UC2/UC17) and two coats Plascon Gloss Enamel (PSB800) paint on existing enamel surfaces:</u>				
9	On doors	m2	14		
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Item No		Quantity	Rate	Amount
	<u>SECTION NO. 12</u>			
	<u>BILL NO. 12</u>			
	<u>EXTERNAL WORKS</u>			
	NOTE: The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades (1999 Edition), the Department of Public Works document No. PW 371 Specification of Materials and Methods to be used and to the Supplementary Preambles which are incorporated at the front of these Bills of Quantities.			
	<u>CONCRETE BLOCK PAVING ETC</u>			
	<u>Take up and remove from site existing precast concrete etc.:</u>			
1	60mm Interlocking paving blocks .	m2	3	
	<u>Remove and set-aside existing concrete paving blocks (re-instate elsewhere measured)</u>			
2	60 mm Interlocking concrete paving blocks	m2	15	
	<u>Re-lay existing concrete paving blocks shall comply with the requirements of SABS 1058 - 1985 Specifications</u>			
3	Re-lay existing 60 mm Interlocking concrete paving blocks (Type SA-A, Ref UTG 2) or similar approved, light grey coloured laid to falls on and including a new 20 mm bed of washed river sand, application of weed killer, sand filling to joints, compacting and all necessary edge blocks.	m2	15	
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<u>Filling under floors, steps, paving, etc.</u>					
4	Suitable imported filling material (G7) laid under paving in maximum 150 mm thick layers and compacted to 97% modified AASHTO density at optimum moisture content.	m3	3		
<u>Compaction of surfaces</u>					
5	Rip up, scarify and re-compact earth surface 150 mm deep to 95% modified AASHTO density at optimum moisture content.	m2	18		
<u>Concrete paving blocks shall comply with the requirements SANS1058:2012 edition specifications (Paving to be inspected and re-sand grouted after three months)</u>					
6	60 mm Interlocking concrete paving blocks (Type SA-A, Ref UTG 2) or similar approved, charcoal grey coloured laid to falls in accordance with SANS 1200 MJ and CMA Concrete block manual on and including a 25 mm bed of washed river sand, application of weed killer, sand filling to joints, compacting and all necessary edge blocks.	m2	3		
<u>Treatment of existing paving blocks</u>					
7	Existing paving blocks to be powerwashed with high pressure water. Contractor to ensure adequate drainage into stormwater and avoid flooding tenanted areas.	m2	300		
<u>FENCING</u>					
<u>"CLEARVUE" or similar approved galvanised barbed/spiked wire fencing</u>					
<u>TEMPORARY CONTAINER RENTAL</u>					
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General

The following prefabricated structures have been measured as complete units i.e. the components of the units have not been separately measured. The descriptions, therefore, of such units shall be deemed to include all components, assembling, housing etc. Units include fittings such as window blinds, stove, single bowl sink, geysers wash hand basins, urinals, external doors, showers.

Allow for the supply, delivery and rental for prefabricated "KWIKSPACE" 40mm polyurethane filled, steel skinned panels to 112mm structurally insulated panels :

Note: Site must not slope more than 200mm over the area of the temporary building units.

3 000 x 6 000mm High unit

8	Deliver container to site and removal from site upon completion	No	1
9	Monthly rental	No	2

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