

## CONSTRUCTION OF WARD 2 COUNCILLORS OFFICE

ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	<u>Provisional Bill Of Quantities</u>				
	<u>SECTION NO. 1</u>				
	<u>BILL NO. 01</u>				
	<u>PRELIMINARIES</u>				
1	The P&G's are priced excluding Vat but are inclusive of all items and expressed as a percentage amount of the Contract Sum in the appropriate category as indicated in a percentage amount to form a Final Contract Amount.	Item	1		
	Carried to summary				
	<u>SECTION NO. 3</u>				
	<u>BILL NO. 01</u>				
	<u>EARTHWORKS</u>				
	<u>PREAMBLES FOR TRADES</u>				
	For preambles see Model Preambles for all trades 1999 Edition for the amplification in the following clauses.				
	Where trade names are given in the following items, the materials used shall be of the make and type specified or either equal approved.				
	The contractor's prices for all items throughout these specifications must take account of and include for all off the obligations, requirements and specifications given in the said Model Preambles and in any supplementary preambles.				
	<u>SITE CLEARANCE</u>				
1	Digging up and removing rubbish, debris, vegetation, hedges and shrubs not exceeding 200mm girth.	m2	120		
2	Stripping average 150mm thick layer of top soil and stockpiling on site	m2	120		
	<u>Excavations</u>				
	<u>Excavation in earth not exceeding 2m deep</u>				
3	Trenches	m3	24		
	<u>Extra over all excavations for carting away</u>				
4	Surplus material from excavations and or stock piles on site to a dumping site to be located by the contractor.	m3	15		
	<u>Risk of collapse of excavations:</u>				
5	Sides of trench and hole excavations not exceeding 1,5m deep.	m2	34		
	<u>Keeping excavations free of water:</u>				
6	Keeping excavations free from mud and all water including subterranean sources.	Item	1		

	<b><u>FILLING, ETC</u></b>				
	<b><u>Earth filling obtained from the excavations and / or prescribed stock piles on site compacted to 95% Mod AASHTO density</u></b>				
7	Under floors, steps, pavings, etc	m3	20		
8	Backfilling to trenches, holes, etc	m3	9		
	<b><u>Compaction of surfaces</u></b>				
9	Compaction of ground surface under floors etc including scarifying for a depth of 250mm, breaking down oversized material, adding suitable material where necessary and compacting to 93% Mod	m2	21		
	<b><u>SOIL POISONING</u></b>				
	<b><u>Approved brand of anti-termite soil poison applied by a Registered Pest Control company and guaranteed against termite infestation for ten years:</u></b>				
10	Under floors, etc., including forming and poisoning shallow furrows against foundation walls, etc., filling in furrows and ramming.	m2	28		
11	To bottom and side of trenches, holes, etc	m2	35		
	Carried to summary				
	<b><u>BILL NO. 02</u></b>				
	<b><u>CONCRETE, FORMWORK AND REINFORCEMENT</u></b>				
	<b><u>PREAMBLES FOR TRADES</u></b>				
	The Tenderer is referred to the relevant Clauses in the separate document. The Model Preambles for Trades 2008 published by the Association of South African Quantity Surveyors and to be Supplementary Preambles which are incorporated at the front of the Mater Bill of Quantities.				
	<b><u>REINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u></b>				
	<b><u>15MPa/19mm concrete</u></b>				
12	Concrete footings	m3	9		
	<b><u>15MPa/19mm concrete</u></b>				
13	Surface bed	m3	16		
	<b><u>TEST BLOCKS</u></b>				
14	Making and testing set of three 150x150x150mm concrete strength test cubes (Provisional).	No	2		
	<b><u>REINFORCEMENT</u></b>				
	<b><u>Fabric reinforcement</u></b>				
15	Type 193 fabric reinforcement in concrete surface beds, slabs etc	m2	83		
	Carried to summary				

BILL NO. 03			
<b>MASONRY</b>			
<b>PREAMBLES FOR TRADES</b>			
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<b>FOUNDATIONS</b>			
<b>BRICKWORK IN FOUNDATION</b>			
<u>100mm high NFX with 3 courses of facebrick below ground level externally in strecher bond with well raked and smoothed recessed joints. External face of internal skin to be bagged and sealed with a.b.e brixal (or equal and approved) to manufactures instructions</u>			
16	One brick wall	m2	21
<b>SUPERSTRUCTURE</b>			
<u>"Corobrik Montrose Travertine Imperial FBA" clay face brick or equal and approved, size 222 x 106 x 73mm, bedded and jointed in Class II mortar and pointed with recessed vertical and recessed horizontal joints:</u>			
<u>Brickwork in superstructure</u>			
17	Half brick wall	m2	53
18	One brick wall in beamfilling	m2	15
19	One brick wall pointed on both sides	m2	141
<b>BRICKWORK SUNDRIES</b>			
20	<u>Brickwork reinforcement</u>		
21	75mm wide reinforcement built in horizontally	m	48
22	150mm wide reinforcement built in horizontally	m	250
<u>Galvanised hoop iron cramps. Ties etc</u>			
23	30 x 1,6mm Cramp 500mm long with one end fixed to wood and other end built into brickwork	No	34
<u>Brick-on-edge header course coping external window cill</u>			
24	220mm wide window cill set sloping and slightly projected	m	11
Carried to summary			
BILL NO. 04			
<b>WATERPROOFING</b>			
<b>PREAMBLES FOR TRADES</b>			
The Tenderer is referred to the relevant Clauses in the separate document. The Model Preambles for Trades 2008 published by the Association of South African Quantity Surveyors and to be Supplementary Preambles which are incorporated at the front of the Mater Bill of Quantities.			
<b>DAMPPROOFING OF WALLS AND FLOORS</b>			
<u>One layer of 375 micron embossed dampcourse waterproof sheeting below walls, sills, etc:</u>			
25	On walls, stepped up in cavities, under cills, etc.	m2	15

<p><u>One layer of 250 micron 'USB GREEN' waterproof sheeting sealed at laps with 'Gunplas Pressure Sensitive Tape':</u></p>				
26	Under surface beds.	m2	85	
Carried to summary				
<b>BILL NO. 05</b>				
<p><b><u>ROOF COVERINGS</u></b></p> <p><b><u>PREAMBLES FOR TRADES</u></b></p> <p>The Tenderer is referred to the relevant Clauses in the separate document. The Model Preambles for Trades 2008 published by the Association of South African Quantity Surveyors and to be Supplementary Preambles which are incorporated at the front of the Mater Bill of Quantities.</p> <p><b><u>CORRUGATED METAL SHEETING AND ACCESSORIES</u></b></p> <p><b><u>0.53mm Factory painted IBR profile roof sheeting (colour as per Architect's approval) on 50 x 76mm S.A. Pine purlins fixed to rafters at maximum 1 200mm centres on pitch of 25 degrees. Roof structure to be tied down into walls with galvanised hoop iron streps taken down 600mm(elsewhere). Sheetting shall be drilled and not punched for fixing of the screws. Use "Dunrose" or equally approved convex head screws of 75mm in conjunction with neoprene and metal washers. All fixing etc to be carried out in strict accordance with the manufacturers instructions:</u></b></p>				
27	Roof covering with pitch not exceeding 25 degrees.	m2	123	
<b><u>0.53mm Nominal thickness ditto, but flashings:</u></b>				
28	Ridge 550mm girth with minimum 225mm laps, fixed to roof sheeting (measured net).	m	18	
<p><b><u>ROOF AND WALL INSULATION</u></b></p> <p><b><u>"Sisalation 430" or similar approved heavy industrial grade aluminium foil based insulation</u></b></p>				
29	Insulation laid taut over rafters (at approximately 950mm centres) and fixed concurrent with roof covering including galvanised steel straining wires	m2	123	
Carried to summary				
<b>BILL NO. 06</b>				
<p><b><u>CARPENTRY &amp; JOINERY</u></b></p> <p><b><u>PREAMBLES FOR TRADES</u></b></p> <p>The Tenderer is referred to the relevant Clauses in the separate document. The Model Preambles for Trades 2008 published by the Association of South African Quantity Surveyors and to be Supplementary Preambles which are incorporated at the front of the Mater Bill of Quantities.</p> <p><b><u>SUPPLEMENTARY PREAMBLES</u></b></p> <p><b><u>Proprietary products in descriptions:</u></b></p> <p>Proprietary products shall be used as specified. Substitute products of similar quality and specification may only be used with prior approval by the Principal Agent.</p>				

**Prefabricated roof trusses:**

Prefabricated timber roof trusses shall be constructed of South African pine by a firm of specialist designer manufacturer's as approved by the Architect.

Prices must include for all cross and windbracing according to the manufacturer's instruction.

Prices must include for the design, plans and approval of all timber trusses and no claim shall be considered.

Pre-fabricated timber roof trusses shall comply with the requirements of SABS Specification 0163 and be constructed of South African pine as described in clause 8.5 to the designs shown on the Manufacturer's detail drawings. The timber shall be of cross-sectional dimensions shown, cut to correct lengths with ends square or at the required angle.

Trusses shall be assembled in truss fabricating jigs with the truss having the proper camber, all tightly clamped together with joints secured using approved connector plates of galvanised steel sheet. Connector plates shall be pressed into the timber simultaneously from both sides of the truss with a hydraulic press capable of exerting such pressure as will ensure complete penetration of the teeth into the timber.

The connector plates shall be of such size as will ensure that the joints so made will adequately withstand the forces exerted on the joints.

In coastal areas connector plates in buildings without ceilings shall be painted with two coats of epoxy tar complying with SABS Specification 801 Type 2, or rust neutralising paint.

Approval of pre-fabricated roofing systems, whether measured as an alternative or not, shall be subject to the following requirements: (a) The Manufacturer of the pre-fabricated trusses shall hold a certificate of competence issued by the Insitute for Timber Construction. (b) A polyester print, size A1 having a minimum thickness of 0,5mm, shall be submitted by the Contractor to the Regional Representative at an early stage for approval by the Directorate: Structural Engineering Services. (c) The drawings shall be signed by a Registered Professional Engineer whose name appears on the Departmental panel for structural work. (d) In the case of systems buildings, approval shall be given with submission of the contract drawings on acceptance of the tender.

The following minimum information shall be shown on the drawings:

(a) Details of the roof system with the position of the rafters and purlins indicated thereon as well as typical elevations.

(b) Bracing as recommended by the Institute for Timber Construction.

(c) Sizes and grading of the timber components.

(d) Truss sizes, e.g. height of ridge or angle of pitch

(e) Plate sizes for every construction point. (Code numbers only are deemed insufficient).

(f) Seperate connection details for hip, valley and jack rafters.

(g) Maximum spacing for purlins and branderling to ceilings shall be according to Subclauses 7.6.1 and 7.6.2 and Clauses 7.8, 7.9 and 9.5.

(h) The type of roof covering as well as the design load. Over and above the supervision undertaken by the Representative / Agent, the Truss Fabricator or his Design Engineer shall inspect the completed roof structure and issue a certificate of confirmation to the Department that:

"The roof structure(s) has (have) been erected in accordance with the Design Engineer's drawings, as accepted by the Department, and the relevant details given in the manual "THE ERECTION AND BRACING OF TIMBER ROOF TRUSSES" issued by the National Timber Research Institute and the Institute for Timber Construction".

**Joinery:**

Descriptions of frames shall be deemed to include frames, transomes, mullions, rails, etc.

	Descriptions of hardwood joinery shall be deemed to include pelleting of bolt holes.				
	<b><u>Fixing:</u></b>				
	All nailing of timber roof trusses, purlins, etc shall be done with galvanised nails. In coastal areas, copper, aluminium or stainless steel nails shall be used.				
	Items described as "nailed" shall be deemed to be fixed with hardened steel nails or shot pins to brickwork or concrete.				
	Where items are described as "bolted" the bolts have been measured elsewhere.				
	<b><u>ROOFS ETC</u></b>				
	<b><u>Sawn softwood:</u></b>				
30	38 x 114mm Wall plate.	m	50		
31	76 x 76mm Purlins	m	246		
	<b><u>PREFABRICATED ROOF TRUSSES, ETC.</u></b>				
	<b><u>Prefabricated timber roof trusses shall be constructed of South African pine by a firm of specialist designer manufacturers. Trusses to be a minimum of 1200mm centres and are to support metal roof covering. Ceilings are either gypsum plasterboard or claddit (suspended or fixed). Prices must include for the design , plans and approval of all timber trusses and no claim shall be considered. An Engineers approval certificate is required once the roof truss installation is complete and is for the contractors account.</u></b>				
	<b><u>Plate nailed timber roof truss construction:</u></b>				
	The contractor will be required to provide a certificate of approval signed by a registered Profesional Engineer that the trusses have been designed, manufactured and installed in accordance with the relevant SABS specifications				
32	Double pitch truss 6,00 x 1,50m high overall with 1200mm eaves overhang with truss sprocket at eaves	No	17		
	<b><u>EAVES, VERGES, ETC</u></b>				
	<b><u>Pressed fibre-cement:</u></b>				
33	12 x 225mm Fascia board three times drilled, and brass screwed to and including 38 x 50 x 114mm long S.A. Pine cleats twice brass screwed to rafter foot including galvanised steel H-profile jointing strips, screws, holes etc.	m	35		
34	80 x 275 x 12mm Barge board drilled and brass screwed to purlin ends including galvanised steel H-profile jointing strips, screws, holes etc.	m	14		
	<b><u>SKIRTINGS</u></b>				
	<b><u>Hardwood Skirting:</u></b>				
35	19 x 70mm Skirting including 19mm quadrant bead nailed.	m	65		

<b><u>DOORS ETC</u></b>					
<b><u>Semi-solid flush doors with 10mm hardwood edges and faced with tempered smooth faced hardwood suitable for painting both sides:</u></b>					
36	40mm Door 813 x 2032mm high.	No	2		
<b><u>Meranti Doors or Equal Architect approved</u></b>					
37	44mm Door 813 x 2032mm high.	No	4		
<b><u>Kitchen cupboards</u></b>					
Kitchen cupboards are to be manufactured of 16 mm particle board with 1mm melaply finish on both sides and edges. Tops are to be of 32mm water resistant particle board with 1,2mm decorative thermosetting plastic laminate finish to top with balancing veneer to underside. Edges of tops are to be finished with matching laminate (Edges of tops are to be half-round post-formed with laminate wrapped around)					
Doors to be of 16mm particle board with 0,8mm melamine finish on both sides and edges (Doors to be of 16mm melamine with half-round edges and with 0,8mm melamine finish on both sides and wrapped around edges)					
Drawers are to be fitted with telescopic runners					
Doors are to be hung on self closing adjustable hinges					
Doors and drawers are to be fitted with handles or knobs					
Where described as "lockable", doors and drawers are to be fitted with cupboard locks with necked barrel bolts to double doors					
<b><u>Kitchen cupboards, plugged</u></b>					
38	Floor unit 3 500 x 800 x 900mm high (granite top elsewhere)	No	1		
<b><u>Worktops</u></b>					
30mm thick worktop colour Brazillian Coffee with 20mm all exposed edges large large bevel, fixed to supports (elsewhere specified) using dabs of 100% clear silicone adhesive at 200mm to 300mm centres along all supports with all joints filled with matching polyester resin glue. Surface to be sealed using an approved stone sealer, all in accordance with the manufacturer's recommendations.					
39		m²	2		
Carried to summary					
<b><u>BILL NO. 07</u></b>					
<b><u>CEILINGS, PARTITIONS &amp; ACCESS FLOORING</u></b>					
<b><u>PREAMBLES FOR TRADES</u></b>					
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<b><u>SUPPLEMENTARY PREAMBLES</u></b>					
<b><u>Proprietary products in descriptions:</u></b>					
Proprietary products shall be used as specified. Substitute products of similar quality and specification may only be used with prior approval by the Principal Agent.					

<b><u>Descriptions:</u></b>					
Items described as nailed shall be deemed to be fixed with hardened steel nails or pins or shot pinned to brickwork or concrete.					
Items described as plugged shall be deemed to include screwing to fibre, plastic or metal plugs at not exceeding 600mm centres, and where described as bolted the bolts have been given.					
<b><u>CEILING TIMBERS, BEADS, INSULATION, ETC</u></b>					
<b><u>Sawn softwood</u></b>					
40	38 x 38mm Branders	m	148		
<b><u>Cornice</u></b>					
41	110 x 110mm Cornices, nailed	m	81		
<b><u>NAILED UP CEILINGS ETC</u></b>					
<b><u>6.4mm "Rhino" or equal similar Architect approved gypsum plasterboard with H-type pressed steel jointing strips</u></b>					
42	Ceilings	m <sup>2</sup>	71		
43	Extra over ceiling for 600 x 600mm trap door of 38 x 38mm wrought softwood rebated framing with one 38 x 38mm sawn softwood cross brander covered with ceiling board and fitted flush in opening	No	1		
Carried to summary					
<b><u>BILL NO. 08</u></b>					
<b><u>IRONMONGERY</u></b>					
<b><u>PREAMBLES FOR TRADES</u></b>					
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<b><u>HINGES, BOLTS</u></b>					
44	100 mm Steel Hinges	No	12		



<b><u>LOCKS</u></b>					
<b><u>Solid / Union or equal Architect approved</u></b>					
45	Solid four lever lockset	No	6		
<b><u>SUNDRIES</u></b>					
<b><u>Solid / Union or equal similar approved"</u></b>					
46	38mm Diameter rubber door stop	No	6		
Carried to summary					
<b><u>BILL NO. 09</u></b>					
<b><u>METALWORKS</u></b>					
<b><u>PREAMBLES FOR TRADES</u></b>					
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<b><u>GALVANIZED PRESSED STEEL DOOR FRAMES</u></b>					
<b><u>1.2mm Rebated frames suitable for brick walls</u></b>					
47	Size 813 x 2032mm for Half Brick Wall	No	6		
<b><u>STEEL GATES, SCREENS, POSTS, GATES, ETC</u></b>					
Supply and install 38 x 38 x 2mm thick frame size 900 x 2080mm high fitted to brickwork with 8 x					
48	120mm M8 Dyna bolts compete and make good on completion	No	4		
49	Security gate	No	4		
<b><u>1,6mm Steel Windows all Hot dip galvanised (SABS) to comply with SANS 727</u></b>					
50	Window Size 914 x 600mm high	No	11		
51	Window Size 813 x 600mm high	No	2		
Carried to summary					

BILL NO. 10					
<b><u>TILING</u></b>					
<b><u>PREAMBLES FOR TRADES</u></b>					
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<b><u>TILING</u></b>					
<b><u>Allow the prime cost amount of R100/m2 for ceramic wall tiles, with 6mm straight joints fixed with approved tile adhesive and grout, all to Manufacturer's recommendations:</u></b>					
52	On walls in isolated panels, splashbacks, etc.	m <sup>2</sup>	5		
<b><u>Allow the prime cost amount of R100.00/m2 for ceramic floor tiles "TAL" or other equal Architect approved with a m.o.h.s. of at least 7 on screed with a minimum 3 mm joints using quick setting high strength gray powder adhesive. Surfaces to be tiled are to be primed before tiling using a cement slurry mixed using liquid latex:</u></b>					
53	On floors	m <sup>2</sup>	71		
Carried to summary					
BILL NO. 11					
<b><u>PLUMBING AND DRAINAGE</u></b>					
<b><u>PREAMBLES FOR TRADES</u></b>					
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<b><u>RAINWATER DISPOSAL:</u></b>					
<b><u>Seamless aluminium prepainted gutters and rainwater pipes</u></b>					
54	155 x 100 x 115mm Aluminium ogee roof gutters with baked enamel finish fixed with concealed brackets	m	35		
55	75mm Diameter rainwater downpipe with brackets fixed to brick wall or concrete	m	12		
<b><u>SANITARY FITTINGS</u></b>					
<b><u>Vaal Sanitaryware or equal similar Architect approved</u></b>					
56	Vitreous china 510 x 405mm rounded "Hibiscus" basin with three semi-punched tapholes (i.e. available in zero, one, two or three taphole configurations), integrated overflow, and chainstay hole through the centre semi-punched taphole.	No	2		

	Vitreous china "Entice" 90° outlet back inlet closed rim back-to-wall pan Product Code 431800, with quality thermoset soft-close seat and floor brackets to be used with a concealed cistern. Flush volume 6/3 litres, subject to the pan being installed with a cistern providing an effective 6/3 litre flush volume.				
57	Accessories to include Flush 120 Stainless steel control panel (code 431808)	No	2		
	<b><u>'Franke (t/a Citimetal)' grade 304 (18/10) or equal Architect approved stainless steel catering ware:</u></b>				
	Left Hand Bowl: Trendline Drop-on Single Bowl Sink (code: 311850) size 1200L x 535W mm unit to be manufactured from Austenitic Stainless Steel with a Satin finish, and installed complete with 38mm PVC waste fitting and plug or other equal Architect approved.	No	1		
	<b><u>uPVC piping 9SABS 967 - 1987)</u></b>				
59	50mm pipe and laying in filling under solid floors	m	20		
60	110mm pipe laying in ground not exceeding 1m deep including excavation, filling in and ramming	m	20		
	<b><u>Extra over uPVC piping for:</u></b>				
61	50mm Bend	no	3		
62	110mm Ditto	no	2		
63	50mm Access junction	no	2		
64	110mm Ditto	no	2		
	<b><u>Extra over PVC-U soil and vent pipe fittings</u></b>				
65	110mm	No	1		
66	Testing waste water pipe system	Item	1		
67	20mm brass fullway isolating ball valve with lever handle	No	1		
68	Excavation in earth not exceeding 1m deep for pipe trenches	m3	4		
69	Backfilling to pipe trenches	m3	4		
70	Backfilling to pipe trenches compacted to 93% Mod AASHTO density	m3	4		
	<b><u>Class 16 PVC-U pressure pipes</u></b>				
71	25mm Pipes laid in and including trenches not exceeding 1m deep	m	13		
	<b><u>Extra over Class 16 PVC-U pressure pipes for fittings with joints</u></b>				
72	25mm bend	No	8		
	<b><u>Class 2 copper pipes or equal approved:</u></b>				
73	22mm pipe	m	8		

<u>Extra over class 2 copper pipes</u>				
74	22mm Fittings	No	5	
<u>Testing</u>				
75	Testing water supply pipe system	Item	1	
Carried to summary				
<b>BILL NO. 12</b>				
<u>GLAZING</u>				
<u>PREAMBLES FOR TRADES</u>				
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<u>GLAZING TO STEEL WITH PUTTY</u>				
All glazing shall be in accordance with SABS 0400 - 1990, SABS 1263 - 1. All safety flazing materials (individual panes) shall be permanently marked. Such marking shall be visible after glazing process. If it is not marked, it is not safety glass.				
<u>3mm Clear float glass</u>				
76	Panes exceeding 0,1m <sup>2</sup> and not exceeding 0,5m <sup>2</sup> .	m2	10	
<u>3mm Obscure glass</u>				
77	Panes exceeding 0,1m <sup>2</sup> and not exceeding 0,5m <sup>2</sup> .	m2	2	
Carried to summary				
<b>BILL NO. 13</b>				
<u>PAINTWORK</u>				
<u>PREAMBLES FOR TRADES</u>				
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<b><u>ON PLASTER BOARD</u></b>					
<b><u>Prepare, brush surface to remove all loose contaminants and apply one coat "Timesaver" or equal approved alkali resistant primer and two coats "Plascon Polvin" or equal approved super acrylic PVA</u></b>					
<b><u>Colour: White</u></b>					
78	On ceilings and cornices	m2	71		
79	On Fascial boards	m2	11		
80	On Bargeboards	m2	4		
<b><u>ON METAL</u></b>					
<b><u>Prepare surfaces and remove all loose material, check for dents in frame and fill with body filler as required. Wash down with galv clean. Touch up factory applied primer and apply one undercoat, followed by two coats gloss enamel paint:</u></b>					
81	On door frames.	m2	12		
<b><u>ON WOOD, WOOD BOARD</u></b>					
<b><u>Stop, fill, sand down and prepare wood surfaces and apply one coat wood primer', one coat universal undercoat and two coats premium non drip polyurethane enamel paint:</u></b>					
82	On doors.	m2	24		
<b><u>Apply one coat oil wood primer, one coat universal undercoat and two super universal enamel paint on</u></b>					
83	Skirting	m	65		
Carried to summary					
<b><u>BILL NO. 14</u></b>					
<b><u>EXTERNAL WORKS</u></b>					
<b><u>PREAMBLES FOR TRADES</u></b>					
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<b><u>PAVING ETC</u></b>					
84	25MPa reinforced concrete in apron slab	m3	4		
85	25MPa reinforced concrete in steps	m3	2		

86	Half brickwall in steps	m2	2	
87	Temporary formwork to sides of concrete apron not exceeding 300mm wide	m	32	
88	Wood float finish to top of concrete apron slab	m2	24	
89	Type 193 fabric reinforcement in concrete aprons	m2	24	
<b><u>INTERLOCKING BLOCK RETAINING STRUCTURES</u></b>				
<b><u>Loffelstein precast concrete interlocking planter blocks finished smooth on exposed surfaces</u></b>				
90	Retaining structure with stepped face and curves as required to suit slopes comprising 500 x 450 x 170mm high type L500 standard interlocking planter blocks laid with horizontal bed joints to 70 degree slope including backfilling with earth obtained from the excavations and filling the blocks with garden soil lightly tamped as the work proceeds	m2	20	
Carried to summary				
<b>SUMMARY PAGE</b>				<b>AMOUNT</b>
1	PRELIMINARIES AND GENERAL	BILL	1	
2	EARTHWORKS	BILL	1	
3	CONCRETE, FORMWORK AND REINFORCEMENT	BILL	2	
4	MASONRY	BILL	3	
5	WATERPROOFING	BILL	4	
6	ROOF COVERINGS	BILL	5	
7	CARPENTRY & JOINERY	BILL	6	
8	CEILINGS, PARTITIONS & ACCESS FLOORING	BILL	7	
9	IRONMONGERY	BILL	8	
10	METALWORKS	BILL	9	
11	TILING	BILL	10	
12	PLUMBING & DRAINAGE	BILL	11	
13	GLAZING	BILL	12	
14	PAINTWORK	BILL	13	
15	EXTERNAL WORKS	BILL	14	
SUB - TOTAL				
ADD VAT @ 15%				
CARRIED TO FORM OF TENDER				