

	Unit	Quantity	Rate	Amount
<b><u>BILL NO. 1</u></b>				
<b><u>ALTERATIONS</u></b>				
<b><u>SUPPLEMENTARY PREAMBLES</u></b>				
<b><u>View site</u></b>				
Before submitting his tender the contractor shall visit the site and satisfy himself as to the nature and extent of the work to be done and the value of the materials contained in the buildings or portions of the buildings to be demolished. No claim for any variations of the contract sum in respect of the nature and extent of the work or of inferior or damaged materials will be entertained				
<b><u>General</u></b>				
The contractor shall carry out the whole of the works with as little mess and noise as possible and with a minimum of disturbance to adjoining premises and their tenants. He shall provide proper protection and provide, erect and remove when directed, any temporary tarpaulins that may be necessary during the progress of the works, all to the satisfaction of the principal agent				
Water supply pipes and other piping that may be encountered and found necessary to disconnect or cut, shall be effectually stopped off or grubbed up and removed, and any new connections that may be necessary shall be made with proper fittings, to the satisfaction of the principal agent				
Doors, fanlights, fittings, frames, linings, etc. which are to be re-used shall be thoroughly overhauled before refixing including taking off, easing and rehanging, cramping up, re-wedging as required and making good cramps, dowels, etc., and easing, oiling, adjusting and repairing ironmongery as necessary, replacing any glass damaged in removal or subsequently and stopping up all nail and screw holes with tinted plastic wood to match timber, unless otherwise described. Re-painting or re-varnishing is given separately				
Prices for taking out of doors, windows, etc. shall include for removal of all beads, architraves, ironmongery, etc.				
Prices for taking out and removing doors and frames shall include for removing door stops, cabin hooks, etc. and making good floor and wall finishes to match existing				
With regard to building up of openings in existing walls, cement screeds and pavings, granolithic, tops of walls, etc., shall be levelled and prepared for raising of brickwork				
Carried to Collection			R	
Bill No. 1				
Alterations				

		Unit	Quantity	Rate	Amount
	Making good of finishes shall include making good of the brick and concrete surfaces onto which the new finishes are applied, where necessary				
	The contractor will be required to take all dimensions affecting the existing buildings on the site and he will be held solely responsible for the accuracy of all such dimensions where used in the manufacture of new items (doors, windows, fittings, etc.)				
	<b><u>REMOVAL OF EXISTING WORK</u></b>				
	<b><u>Taking out and removing doors, windows, etc., including thresholds, sills, etc. and building up openings in brick walls, including making good cement plaster on both sides of wall façade</u></b>				
1	Timber single door and frame 813 x 2032m high overall from half brick wall	No	12		
2	Timber double door and frame 1618 x 2032m high overall from half brick wall	No	2		
3	Steel window including glazing approximate size 580 x 700mm	No	4		
4	Steel window including glazing approximate size 2050 x 700mm	No	1		
5	Steel window including glazing approximate size 2100 x 700mm	No	2		
6	Steel window including glazing approximate size 1550 x 1300mm	No	1		
7	Steel window including glazing approximate size 1600 x 1500mm	No	4		
8	Steel window including glazing approximate size 2100 x 900mm	No	4		
	<b><u>Taking down and removing roofs, floors, panelling, ceilings, partitions, etc.</u></b>				
9	IBR profiled steel sheeted roof covering and timber purlins with and including timber trusses, rafters, etc.	m <sup>2</sup>	285		
10	Gypsum plasterboard ceilings, including cornices, timber bandering, etc.	m <sup>2</sup>	228		
	<b><u>Taking up and removing wood block floor coverings, vinyl floor coverings, carpets, etc. and preparing screeds for new floor coverings</u></b>				
11	Carpet tile floor covering	m <sup>2</sup>	29		
	Carried to Collection			R	
	Bill No. 1				
	Alterations				

		Unit	Quantity	Rate	Amount
	<b><u>Taking out/off and removing sundry metalwork</u></b>				
12	Steel wire mesh burglar proofing with frame 1000 x 1000mm high bolted to brickwork, including making good surfaces	No	1		
	<b><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></b>				
13	PVC piping not exceeding 50mm diameter	m	96		
14	PVC piping exceeding 50mm and not exceeding 160mm diameter	m	18		
15	Vitreous china wash hand basin	No	2		
16	Vitreous china WC pan with cistern	No	4		
17	Vitreous china wall hung urinal with flush valve	No	1		
18	Stainless steel sink	No	1		
	<b><u>PREPARATORY WORK TO EXISTING SURFACES</u></b>				
	<b><u>Preparatory work</u></b>				
19	Hacking faces of existing painted wall and apply two coats of 'Sika' or other approved bonding agent and cementious slurry to receive wall tiles (Wall tiles elsewhere measured)	m <sup>2</sup>	128		
20	Hacking faces of existing floors and apply two coats of 'Sika' or other approved bonding agent and cementious slurry to receive floor tiles (Floor tiles elsewhere measured)	m <sup>2</sup>	231		
21	Making good defects in existing screeded floors with 'Sika' or other approved structural grout	m <sup>2</sup>	3		
22	Making good defects in existing screeded floors with 30mm new cementious screed including hacking out old screeds and preparing existing surafces to receive new screeds	m <sup>2</sup>	15		
	<b><u>MAKING GOOD OF FINISHES, ETC</u></b>				
	<b><u>Making good untinted granolithic</u></b>				
23	25mm Thick on floors in patches	m <sup>2</sup>	24		
	<b><u>Making good internal cement plaster</u></b>				
24	Walls in patches	m <sup>2</sup>	20		
	Carried to Collection			R	
	Bill No. 1				
	Alterations				

Amount

**BILL NO. 1**  
**ALTERATIONS**  
**COLLECTION**

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		Unit	Quantity	Rate	Amount
<b><u>BILL NO. 3</u></b>					
<b><u>CONCRETE, FORMWORK AND REINFORCEMENT</u></b>					
<b><u>REINFORCED CONCRETE CAST ON/IN FORMWORK</u></b>					
<b><u>20MPa/19mm concrete</u></b>					
1	V-drains cast in panels	m <sup>3</sup>	25		
<b><u>25MPa/19mm concrete</u></b>					
2	Bases	m <sup>3</sup>	2		
<b><u>CONCRETE SUNDRIES</u></b>					
<b><u>Finishing top surfaces of concrete smooth with a wood float</u></b>					
3	V-drains to falls and currents	m <sup>2</sup>	90		
4	Water tank base	m <sup>2</sup>	6		
<b><u>Carefully saw-cut grooves into existing concrete surfaces with and including preparing and cleaning surfaces to receive new joint sealants (new joint sealants elsewhere measured)</u></b>					
5	6 x 25mm Deep saw-cut joints	m	36		
<b><u>ROUGH FORMWORK (DEGREE OF ACCURACY II)</u></b>					
<b><u>Rough formwork to sides</u></b>					
6	Edges, risers, ends and reveals not exceeding 300mm high or wide	m	110		
<b><u>Boxing in rough formwork to form</u></b>					
7	25 x 25mm Chamfers along top or bottom edges	m	110		
<b><u>MOVEMENT JOINTS ETC</u></b>					
<b><u>Expansion joints with 13mm softboard between vertical concrete and brick surfaces</u></b>					
8	Not exceeding 300mm high to edges of surface beds	m	80		
<b><u>REINFORCEMENT</u></b>					
<b><u>Fabric reinforcement</u></b>					
9	Type 193 fabric reinforcement in concrete v-drains, etc.	m <sup>2</sup>	80		
10	2 Layers type 193 fabric reinforcement in watertank base, etc.	m <sup>2</sup>	6		
Carried to Summary				R	
Bill No. 3					
Concrete, Formwork And Reinforcement					

		Unit	Quantity	Rate	Amount	
<b><u>BILL NO. 4</u></b>						
<b><u>MASONRY</u></b>						
<b><u>FIBRE-CEMENT WINDOW SILLS</u></b>						
<b><u>Natural grey sills in single lengths bedded in class II mortar including metal fixing lugs etc.</u></b>						
1	120 x 15mm Wide sills set flat and slightly projecting	m	32			
2	120 x 15mm Wide sills set sloping and slightly projecting	m	32			
Carried to Summary				R		
Bill No. 4						
Masonry						

	Unit	Quantity	Rate	Amount
<b><u>BILL NO. 5</u></b>				
<b><u>WATERPROOFING</u></b>				
<b><u>SUPPLEMENTARY PREAMBLES</u></b>				
<b><u>Waterproofing</u></b>				
Waterproofing of roofs, basements, etc. shall be laid under a ten year guarantee. Waterproofing to roofs shall be laid to even falls to outlets etc. with necessary ridges, hips and valleys. Descriptions of sheet or membrane waterproofing shall be deemed to include additional labour to turn-ups and turn-downs				
<b><u>DAMPPROOFING OF WALLS AND FLOORS</u></b>				
<b><u>One layer 250 micron green polyethylene waterproof sheeting (SANS 952-1985 type C) sealed at laps with PVC self-adhesive tape</u></b>				
1 Under V-Drains, bases, etc	m <sup>2</sup>	87		
<b><u>SEALING STRIPS, JOINT SEALANTS, ETC</u></b>				
<b><u>'Sika' or approved two-part grey polysulphide sealing compound including backing cord, bond breaker, primer, etc.</u></b>				
2 6 x 10mm In saw cut joints in floors	m	36		
3 15 x 15mm In expansion joints in soffits including raking out expansion joint filler as necessary	m	80		
Carried to Summary			R	
Bill No. 5 Waterproofing				



	Unit	Quantity	Rate	Amount
<b><u>BILL NO. 6</u></b>				
<b><u>ROOF COVERINGS</u></b>				
<b><u>PROFILED METAL SHEETING AND ACCESSORIES</u></b>				
User Note - 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.				
<b><u>0.8mm Z600 Spelter galvanised IBR with colour bond one one side (Charcoal Grey) and colour bond (Grey) on the other side with and including and accessories, fixed to timber purlins (Timber purlins elsewhere measured)</u></b>				
1 Roof covering with pitches not exceeding 25 degrees	m <sup>2</sup>	487		
2 Ridge cappings 700mm girth	m	19		
3 Cover flashings 700mm girth	m	48		
4 Side wall flashings three times bent 650mm girth with one side slotted into wall	m	37		
5 Gable trims 580mm girth	m	50		
6 Narrow and broad flute closers	m	149		
7 Moulded narrow and broad rib polyethylene filler blocks	m	149		
<b><u>ROOF AND WALL INSULATION</u></b>				
<b><u>50mm Thick isotherm insulation layer laid over timber purlins (Timber purlins elsewhere measured) with and including galvanised straining wire</u></b>				
8 Insulation blanket laid taut over purlins (at approximately 1200mm centres) and fixed concurrent with roof covering with stapled longitudinal flap joints, including fixing at top and bottom edges to purlins with and including hoop iron straps	m <sup>2</sup>	487		
Carried to Summary			R	
Bill No. 6				
Roof Coverings				

	Unit	Quantity	Rate	Amount
<b><u>BILL NO. 7</u></b>				
<b><u>CARPENTRY AND JOINERY</u></b>				
<b><u>SUPPLEMENTARY PREAMBLES</u></b>				
<b><u>Fixing</u></b>				
Items described as 'nailed' shall be deemed to be fixed with hardened steel nails or pins, or to be 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 500mm centres, and where described as 'bolted', the bolts have been given elsewhere				
<b><u>Joinery</u></b>				
Descriptions of frames shall be deemed to include frames, transomes, rails, etc.				
Descriptions of hardwood joinery shall be deemed to include sinking and pelleting heads and nuts of bolts				
<b><u>PLATE NAILED TIMBER ROOF TRUSS CONSTRUCTION ETC</u></b>				
<b><u>SUPPLEMENTARY PREAMBLES</u></b>				
Trusses are at maximum 700mm centres				
Roof coverings are IBR roof sheets on purlins				
Ceilings are suspended grid ceilings				
Dimensions in descriptions of trusses are nominal and actual measurements are to be obtained from the architect/engineer and/or taken on site before design or fabrication commences				
<b><u>Sawn softwood</u></b>				
1	38 x 114mm Wall plates	m	74	
2	38 x 114mm Longitudinal bracing	m	35	
3	50 x 76mm Cross bracing	m	54	
4	76 x 50mm Purlins	m	484	
5	Double pitched roof truss spanning 8.00 - 9.00m with height of 2.5m overall, to be manufactured as per truss designers specifications ( The Contractor is to obtain a price which includes labour installation and all sundry fixings)	No	28	
Carried to Collection			R	
Bill No. 7				
Carpentry And Joinery				

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Amount

**BILL NO. 7**  
**CARPENTRY AND JOINERY**  
**COLLECTION**

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	Unit	Quantity	Rate	Amount
<b><u>BILL NO. 8</u></b>				
<b><u>CEILINGS PARTITIONS AND ACCESS FLOORING</u></b>				
<b><u>SUPPLEMENTARY PREAMBLES</u></b>				
<b><u>Fixing</u></b>				
Items described as 'nailed' shall be deemed to be fixed with hardened steel nails or pins, or to be 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 500mm centres, and where described as 'bolted', the bolts have been given elsewhere				
<b><u>Ceilings</u></b>				
Unless otherwise described ceilings shall be deemed to be horizontal				
<b><u>Steel components</u></b>				
All steel components for ceilings, partitions, etc. are to be galvanised in accordance with SANS 121				
<b><u>SUSPENDED CEILINGS</u></b>				
<b><u>SUPPLEMENTARY PREAMBLES</u></b>				
<b><u>Proprietary suspended ceilings</u></b>				
User Note - The following preamble to be included in the bills of quantities after confirmation of the basic design of the ceilings, lighting, air conditioning, etc.				
Hangers, suspension grids, lay-in panels, etc. are to be in accordance with the manufacturers' recommendations				
Electrical light fittings, diffusers, panels etc. are generally lay-in units of the same dimensions as the suspension grid described and allowance must be made in the rates accordingly for their support inclusive of any flexibility in setting out that may be required (ceiling panels have not been deducted and pricing is to take cognisance thereof)				
<b><u>600 x 1200 x 15mm 'Owa Acoustic' or other approved pre-painted acoustic panels on exposed suspension grid system including hangers, necessary hold-down clips and wedges, etc.</u></b>				
1	Ceilings suspended not exceeding 1m below timber trussess	m <sup>2</sup>	137	
2	Extra over ceiling for opening for 600 x 1200mm light fitting	No	36	
Carried to Collection			R	
Bill No. 8				
Ceilings Partitions And Access Flooring				



Amount

**BILL NO. 8**  
**CEILINGS PARTITIONS AND ACCESS FLOORING**  
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		Unit	Quantity	Rate	Amount
<b><u>BILL NO. 9</u></b>					
<b><u>IRONMONGERY</u></b>					
<b><u>SUPPLEMENTARY PREAMBLES</u></b>					
<b><u>Proprietary items</u></b>					
Where applicable the manufacturers' names or product catalogue titles are given in sub-headings preceding the items. Prices are to be based on the specific products/articles specified. If tenderers wish to offer alternative products/articles for certain items, these items are to be clearly marked and the alternative specification given with supporting brochures etc. clarifying the features of the products/articles offered. On request returnable samples are to be provided to the principal agent for consideration.					
<b><u>Finishes to ironmongery</u></b>					
Where applicable finishes to ironmongery are indicated by suffixes in accordance with the following list: BS Satin bronze lacquered CH Chromium plated SC Satin chromium plated SE Silver enamelled GE Grey enamelled AN Anodised natural AS Anodised silver AB Anodised bronze AG Anodised gold ABL Anodised black PB Polished brass PL Polished and lacquered PT Epoxy coated SD Sanded					
<b><u>HINGES, BOLTS, ETC.</u></b>					
<b><u>Manufactured by Union or other approved</u></b>					
1	100 x 75mm Ball bearing brass hinge	No	51		
2	150 x 96mm Parliament brass hinge	No	12		
<b><u>CATCHES, CABIN HOOKS, ETC.</u></b>					
<b><u>Manufactured by Union or other approved</u></b>					
3	150mm Heavy duty cabin hook and eye including 70 x 70 x 20mm chamfered hardwood block twice oiled and plugged	No	4		
<b><u>LOCKS</u></b>					
<b><u>Manufactured by Union or other approved</u></b>					
4	Indicator bathroom lockset	No	3		
5	Three-lever deadlock	No	5		
6	Two-lever lockset	No	2		
7	Three-lever rebated lockset	No	2		
Carried to Collection				R	
Bill No. 9					
Ironmongery					

Bill No. 9  
Ironmongery

Amount

**BILL NO. 9**  
**IRONMONGERY**  
**COLLECTION**

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		Unit	Quantity	Rate	Amount
<b><u>BILL NO. 10</u></b>					
<b><u>METALWORK</u></b>					
<b><u>ALUMINIUM WINDOWS, DOORS, ETC.</u></b>					
<b><u>'Wispeco' or other approved anodised casement windows as per AMSA specification system, complete with subframes, ironmongery, glass, sealing, etc. and fixing to brickwork or concrete</u></b>					
1	Window type W1, 2100 x 1900mm high	No	4		
2	Window type W2, 2100 x 700mm high	No	1		
3	Window type W3, 1550 x 1300mm high	No	1		
4	Window type W4, 580 x 700mm high	No	4		
5	Window type W5, 2050 x 700mm high	No	2		
6	Window type W6, 1600 x 1500mm high	No	4		
Carried to Summary				R	
Bill No. 10					
Metalwork					

	Unit	Quantity	Rate	Amount
<b><u>BILL NO. 11</u></b>				
<b><u>TILING</u></b>				
<b><u>SUPPLEMENTARY PREAMBLES</u></b>				
<b><u>Fixing</u></b>				
Unless described as 'fixed with adhesive to plaster (plaster elsewhere)' descriptions of tiling on brick or concrete walls, columns, etc. shall be deemed to include 1:4 cement plaster backing and descriptions of tiling on concrete floors etc. shall be deemed to include 1:3 plaster bedding				
Tiling described as 'fixed with adhesive on power floated concrete' shall be deemed to include for approved tiling key-coat <sup>2</sup>				
Ceramic, porcelain, marble and granite tiles are to be fixed and grouted with suitable adhesives and grouts from the Tal Professional range of products as recommended by the manufacturer of the tiles				
<b><u>WALL TILING</u></b>				
<b><u>'Johnson' or approved 200 x 200 x 5mm White matt ceramic tiles on brickwork including cement plaster backing</u></b>				
1	On walls	m <sup>2</sup>	125	
2	On narrow widths	m <sup>2</sup>	3	
3	Fair exposed cutting and fitting around pipe not exceeding 100mm internal diameter	No	3	
4	Fair exposed cutting and fitting around pipe exceeding 100mm and not exceeding 150mm internal diameter	No	4	
<b><u>FLOOR TILING</u></b>				
<b><u>'Johnson' or other approved 300 x 300 x 8mm 'Salt &amp; Pepper' hard bodied porcelain ceramic floor tiles on 'Goldstar 6' bedding on concrete and flush pointed with tinted grout</u></b>				
5	On floors and landings	m <sup>2</sup>	223	
6	On treads and risers	m <sup>2</sup>	8	
<b><u>SUNDRIES</u></b>				
<b><u>M-trim or other approved protectors, stair nosings, expansion joint strips, etc.</u></b>				
7	Type ASE100.1N edgetrim	m	58	
Carried to Summary			R	
Bill No. 11				
Tiling				

	Unit	Quantity	Rate	Amount
<b><u>BILL NO. 12</u></b>				
<b><u>PLUMBING AND DRAINAGE</u></b>				
<b><u>SUPPLEMENTARY PREAMBLES</u></b>				
<b><u>Stormwater channels</u></b>				
Descriptions of channels shall be deemed to include necessary excavation, surface preparation, compaction, etc., and disposal of surplus material on site				
<b><u>Sealing of edges</u></b>				
Outer edges of sinks, basins, baths, urinals, etc. are to be sealed against adjacent surfaces with approved silicone				
<b><u>uPVC pipes and fittings</u></b>				
Sewer and drainage pipes and fittings shall be jointed and sealed with butyl rubber rings Soil, waste and vent pipes and fittings shall be solvent weld jointed or sealed with butyl rubber rings				
<b><u>High density polyethylene (HDPE) pipes and fittings</u></b>				
Pipes shall be type IV and of the class specified with Plasson or Alprene compression fittings				
<b><u>Polycop polypropylene pipes</u></b>				
Polypropylene pipes 54mm diameter and smaller shall be seamless copper coloured Class 16 pipes jointed with Fast-fuse heat welded thermoplastic or where so described Polylock compression fittings Pipes shall be firmly fixed to walls, etc. with coloured nylon snap-in pipe clips with provision for accommodating thermal movement and jointed and fixed strictly in accordance with the manufacturer's instructions				
<b><u>Copper pipes</u></b>				
Pipes shall be hard drawn and half-hard Maksal pipes of the class described. Class 0 (thin walled hard drawn) pipes shall not be bent. Class 1 (thin walled half-hard), Class 2 (half-hard) and Class 3 (heavy walled half-hard) pipes shall only be bent with benders with inner and outer formers. Fittings to copper waste, vent and anti-syphon pipes, capillary solder fittings and compression fittings shall be Cobra Watertech type. Capillary solder fittings shall comply with ISO 2016				
Copper pipes are to be installed in accordance with the latest revision of the Code of Practice for Copper Plumbing soldering techniques. Flux, solder, etc. to be strictly in accordance with the manufacturer's requirements with special attention to copper flux composition				
Carried to Collection			R	
Bill No. 12				
Plumbing And Drainage				

	Unit	Quantity	Rate	Amount
<p><b><u>Reducing fittings</u></b></p> <p>Where fittings have reducing ends or branches they are described as 'reducing' and only the largest end or branch size is given. Should the contractor wish to use other fittings and bushes or reducers he may do so on the understanding that no claim in this regard will be entertained</p> <p><b><u>Fixing of pipes</u></b></p> <p>Unless specifically otherwise stated, descriptions of pipes shall be deemed to include fixing to walls, etc., casting in, building in or suspending not exceeding 1m below suspension level</p> <p><b><u>Paper wrapping to pipes</u></b></p> <p>Pipes chased into brickwork must be wrapped with two layers of stout brown paper tied with wire. Rates are to include for wrapping around joints and fittings</p> <p><b><u>Disinfection of water pipework</u></b></p> <p>Water pipework is to be disinfected at completion in accordance with SABS 1200L (provision for disinfection elsewhere)</p> <p><b><u>Densyl petrolatum anti-corrosion tape as manufactured by Denso SA (Pty) Ltd.</u></b></p> <p>Pipes to be taped shall be coated with the appropriate primer and the tape shall be applied in the appropriate widths and with 10% overlaps. Couplings and fittings to pipes shall be taped in strict accordance with the manufacturer's instructions including mastic, tape, Layflat sheeting, securing of same, etc.</p> <p>Prices for wrapping of pipes shall include for all work as described to couplings in the length</p> <p><b><u>Laying, backfilling, bedding, etc. of pipes</u></b></p> <p>Pipes shall be laid and bedded in accordance with manufacturers' instructions and trenches shall be carefully backfilled</p> <p>Where no manufacturers' instructions exist, pipes shall be laid in accordance with Clauses 5.1 and 5.2 of each of the following: SABS 1200L : Medium-pressure pipelines SABS 1200LD : Sewers SABS 1200LE : Stormwater drainage Pipe trenches, etc. shall be backfilled in accordance with Clauses 3, 5.5, 5.6, 5.7 and 7 of SABS 1200DB : Earthworks (Pipe trenches) Pipes shall be bedded in accordance with Clauses 3.1 to 3.4.1, 5.1 to 5.3 and 7 of SABS 1200LB : Bedding (Pipes) Unless otherwise described bedding of rigid pipes shall be Class B bedding</p>				
Carried to Collection			R	
Bill No. 12				
Plumbing And Drainage				

	Unit	Quantity	Rate	Amount
<b><u>General</u></b>				
Descriptions of cast iron roof outlets shall be deemed to include joints to pipes and casting into concrete (adaptors for joints to PVC pipes, etc. are given separately) Descriptions of overflow pipes where measured in number, shall be deemed to include joints to cisterns and splay cut ends				
Descriptions of pipes laid in and including trenches and of inspection chambers, catchpits, etc. shall be deemed to include excavation, bedding, backfilling, compaction to a minimum of 95% Mod AASHTO density and disposal of surplus material on site				
Descriptions of service pipes and flexible connecting pipes shall be deemed to include connections to taps, cisterns, etc. and to steel pipes (adaptors for connections to copper pipes, etc. are given separately)				
Descriptions of WC pans, slop hoppers, etc. shall be deemed to include for joints to soil pipes (pan connectors are separately measured)				
<b><u>As-built drawings</u></b>				
Where required, the contractor shall prepare an updated set of as-built drawings. At completion of the contract the contractor shall hand these drawings to the principal agent for reproducing onto the originals for handing over to the employer (provision for allowance of as-built drawings elsewhere)				
<b><u>RAINWATER DISPOSAL</u></b>				
<b><u>'Marley' or other approved 'Stream Line Double Flo' uPVC gutters and rainwater pipes</u></b>				
1	125 x 75mm Roof gutters fixed with and including 'Double Flo' fascia brackets to fibre cement fascia at 700mm centres (Fibre cement fascia elsewhere measured)	m	77	
2	Extra over gutter for 'Double Flo' outlet	m	8	
3	Extra over gutter for 'Double Flo' stop end	m	8	
4	Extra over for 80 x 80mm Upvc downpipe fixed to walls	m	96	
5	Extra over downpipe for bends	No	32	
6	Extra over downpipes for shoes	No	4	
7	Extra over downpipes for T- spreader	No	4	
Carried to Collection			R	
Bill No. 12				
Plumbing And Drainage				



		Unit	Quantity	Rate	Amount
	<b><u>SANITARY FITTINGS</u></b>				
	<b><u>'Franke' or other approved stainless steel</u></b>				
8	1600 x 510mm sink with 400 x 400mm end bowl and draining board	No	1		
	<b><u>Vaal</u></b>				
9	560 x 405mm Springbok 0112 lavatory basin on brackets	No	3		
10	Klip 400010 low level WC suite comprising WC pan with double flap heavy duty plastic seat and matching 9 litre cistern with flush pipe	No	5		
	<b><u>WASTE UNIONS ETC</u></b>				
	<b><u>Cobra Watertech</u></b>				
11	32mm 301 CP basin waste union	No	3		
12	40mm 316 CP bath or sink waste union	No	1		
	<b><u>TRAPS ETC</u></b>				
	<b><u>Rubber</u></b>				
13	40mm P trap	No	1		
	<b><u>Cobra Watertech</u></b>				
14	32mm 340 CP bottle trap	No	3		
	<b><u>TAPS, VALVES, ETC</u></b>				
	<b><u>Cobra Watertech</u></b>				
15	15mm 1065-15CP fullway isolating ball valve	No	9		
16	15mm 111-15CP pillar tap	No	3		
17	15mm 114AQ-15CP Aquila pillar tap	No	1		
	<b><u>SANITARY PLUMBING</u></b>				
	<b><u>uPVC soil and vent pipes</u></b>				
18	50mm Pipes	m	27		
19	110mm Pipes	m	36		
	<b><u>Extra over uPVC soil and vent pipes for fittings</u></b>				
20	110mm Pan connector	No	5		
21	50mm Bend	No	12		
22	110mm Bend	No	10		
23	50mm Junction	No	7		
	Carried to Collection			R	
	Bill No. 12				
	Plumbing And Drainage				

		Unit	Quantity	Rate	Amount
24	110mm Junction	No	5		
25	110mm Reducing junction	No	5		
26	110mm Air vent cowl	No	5		
	<b><u>Testing</u></b>				
27	Testing waste pipe system	Item			
	<b><u>WATER SUPPLIES</u></b>				
	<b><u>Class 16 uPVC pressure pipes with solvent welded joints</u></b>				
28	32mm Pipes laid in and including trenches not exceeding 1m deep	m	68		
	<b><u>Extra over Class 16 uPVC pressure pipes for fittings with solvent welded joints</u></b>				
29	32mm Bend	No	3		
30	32mm Reducer	No	2		
	<b><u>Class 0 copper pipes with capillary couplings</u></b>				
	User Note - Class 1 copper pipes are recommended for high quality installations				
31	15mm Pipes	m	146		
	<b><u>Class 0 copper pipes with brass compression couplings</u></b>				
32	22mm Pipes	m	43		
	<b><u>Extra over Class 0 copper pipes for capillary fittings</u></b>				
33	15mm Fittings	No	64		
	<b><u>Extra over Class 0 copper pipes for brass compression fittings</u></b>				
34	15mm Fittings	No	27		
	<b><u>Testing</u></b>				
35	Testing water pipe system	Item			
	<b><u>FIRE APPLIANCES ETC</u></b>				
	<b><u>Hose reels, etc.</u></b>				
36	9Kg Dry chemical powder fire extinguisher	No	6		
Carried to Collection				R	
Bill No. 12					
Plumbing And Drainage					



Amount

**BILL NO. 12**  
**PLUMBING AND DRAINAGE**  
**COLLECTION**

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	Unit	Quantity	Rate	Amount
<b><u>BILL NO. 13</u></b>				
<b><u>ELECTRICAL WORK</u></b>				
<b><u>ELECTRICAL INSTALLATION</u></b>				
<b><u>SUPPLEMENTARY PREAMBLES</u></b>				
<b><u>Distribution boards etc.</u></b>				
Rates for distribution boards etc. are to include for busbars, jumpers, neutral bars, internal wiring and connections, circuit identification markers, control gear labels, circuit legend cards and working drawings				
<b><u>Switches, socket outlets, etc.</u></b>				
Rates for switches, socket outlets, etc. are to include for screwing to outlet boxes, connecting up and cover plates				
<b><u>Light fittings</u></b>				
Rates for light fittings are to include for hanging, fixing and connecting and for lamp holders and fluorescent tubes and lamps of the type and wattage described				
<b><u>ELECTRICAL WORK</u></b>				
<b><u>Electrical Installation</u></b>				
1	Provide the sum of R 240,000.00 (Two Hundred and Forty Thousand Rand) for Electrical Installation	Item		
2	Allowance for Contractor's Attendance for the above	Item		
3	Allowance for Contractor's Profit for the above	Item		
<b><u>Booster Pump</u></b>				
4	Provide the sum of R 10,000.00 (Ten Thousand Rand) for supply and installation of a domestic water booster pump	Item		
5	Allowance for Contractor's Attendance for the above	Item		
6	Allowance for Contractor's Profit for the above	Item		
Carried to Summary			R	
Bill No. 13				
Electrical Work				

**6mm Silvered float glass copper backed mirrors  
with polished edges, holed for and fixed with  
chromium plated dome capped mirror screws with  
rubber buffers to plugs in brickwork or concrete**

[illegible]

	Unit	Quantity	Rate	Amount
<b><u>BILL NO. 15</u></b>				
<b><u>PAINTWORK</u></b>				
<b><u>PREPARATORY WORK TO EXISTING WORK</u></b>				
<b><u>Previously painted plastered surfaces</u></b>				
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				
<b><u>Previously painted metal surfaces</u></b>				
Surfaces shall be thoroughly rubbed and cleaned down. Blistered or peeling paint shall be completely removed down to bare metal				
<b><u>Previously painted wood surfaces</u></b>				
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				
<b><u>PAINT SPECIFICATIONS</u></b>				
<b><u>Painting, etc.</u></b>				
All painting shall be done in accordance with Dulux or other approved specifications unless otherwise described				
<b><u>ON INTERNAL FLOATED PLASTER SURFACES</u></b>				
<b><u>One coat primer, one coat alkyd based universal undercoat and two 'Dulux Polvin' paint, on work in sound condition</u></b>				
1	Walls	m <sup>2</sup>	664	
<b><u>ON EXTERNAL FLOATED PLASTER SURFACES</u></b>				
<b><u>One coat oil based primer and one 'Dulux Rainshield' paint, on work in sound condition</u></b>				
2	Walls	m <sup>2</sup>	426	
<b><u>One coat alkyd based universal undercoat and two 'Dulux Wall Guard' paint, on work in sound condition</u></b>				
3	Walls	m <sup>2</sup>	426	
Carried to Collection			R	
Bill No. 15 Paintwork				

		Unit	Quantity	Rate	Amount
<b><u>ON FIBRE-CEMENT BOARD SURFACES</u></b>					
<b><u>Two coats extremely durable UV-resistant washable pure acrylic paint, on work in poor condition</u></b>					
4	Fascias and barge boards	m <sup>2</sup>	99		
5	On eaves closures	m <sup>2</sup>	77		
<b><u>ON WOOD SURFACES</u></b>					
<b><u>One coat 'Creosote' or other approved exterior quality penetrating wood preservative, on work in sound condition</u></b>					
6	Roof timbers at eaves and verges	m <sup>2</sup>	30		
<b><u>Three coats superior quality clear matt varnish, on work in poor condition</u></b>					
7	Doors	m <sup>2</sup>	73		
8	Door frames etc.	m <sup>2</sup>	29		
9	On timber skirtings not exceeding 300mm high or wide	m	157		
Carried to Collection				R	
Bill No. 15					
Paintwork					



Amount

**BILL NO. 15**  
**PAINTWORK**  
**COLLECTION**

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**BILL NO. 16****PROVISIONAL SUMS****PROVISIONAL SUMS FOR NOMINATED/SELECTED SUBCONTRACT WORKS****Signage**

1	Provide the sum of R5,000.00 (Five Thousand Rand) for signage	Item	0 00
2	Profit	Item	
3	Attendance	Item	

**Flagpost**

4	Provide the sum of R7,000.00 (Seven Thousand Rand) for the supply and the installation of flagpost	Item	0 00
5	Profit	Item	
6	Attendance	Item	

**Under Pinning of Foundations**

7	Provide the sum of R80,000.00 (Eighty Thousand Rand) for foundation repairs to existing structure	Item	0 00
8	Profit	Item	
9	Attendance	Item	

**Structural Stitching of Walls**

10	Provide the sum of R25,000.00 (Twenty Five Thousand Rand) for strcutural repairs to walls and floors	Item	0 00
11	Profit	Item	
12	Attendance	Item	

Carried to Summary

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Bill No. 16  
Provisional Sums

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