

	Unit	Quantity	Rate	Amount
<u>BILL NO. 1</u>				
<u>ALTERATIONS</u>				
<u>SUPPLEMENTARY PREAMBLES</u>				
<u>View site</u>				
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				
<u>General</u>				
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				

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BILL NO. 1
ALTERATIONS
COLLECTION

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Carried to Summary

R

		Unit	Quantity	Rate	Amount
<u>BILL NO. 2</u>					
<u>EARTHWORKS</u>					
<u>EXCAVATION ETC</u>					
<u>Excavation in earth not exceeding 2m deep</u>					
1	Reduced levels under V-drains	m ³	53		
<u>Extra over all excavations for carting away</u>					
2	Surplus material from excavations and/or stock piles on site, to a dumping site to be located by the contractor	m ³	53		
Carried to Summary				R	
Bill No. 2					
Earthworks					

		Unit	Quantity	Rate	Amount
<u>BILL NO. 3</u>					
<u>CONCRETE, FORMWORK AND REINFORCEMENT</u>					
<u>REINFORCED CONCRETE CAST ON/IN FORMWORK</u>					
<u>20MPa/19mm concrete</u>					
1	V-drains cast in panels	m ³	26		
<u>25MPa/19mm concrete</u>					
2	Bases	m ³	2		
<u>CONCRETE SUNDRIES</u>					
<u>Finishing top surfaces of concrete smooth with a wood float</u>					
3	V-drains to falls and currents	m ²	176		
4	Water tank base	m ²	6		
<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>					
5	6 x 25mm Deep saw-cut joints	m	88		
<u>ROUGH FORMWORK (DEGREE OF ACCURACY II)</u>					
<u>Rough formwork to sides</u>					
6	Edges, risers, ends and reveals not exceeding 300mm high or wide	m	176		
<u>Boxing in rough formwork to form</u>					
7	25 x 25mm Chamfers along top or bottom edges	m	176		
<u>MOVEMENT JOINTS ETC</u>					
<u>Expansion joints with 13mm softboard between vertical concrete and brick surfaces</u>					
8	Not exceeding 300mm high to edges of surface beds	m	176		
<u>REINFORCEMENT</u>					
<u>Fabric reinforcement</u>					
9	Type 193 fabric reinforcement in concrete v-drains, etc.	m ²	176		
10	2 Layers type 193 fabric reinforcement in watertank base, etc.	m ²	6		
Carried to Summary				R	
Bill No. 3					
Concrete, Formwork And Reinforcement					

		Unit	Quantity	Rate	Amount
<u>BILL NO. 4</u>					
<u>MASONRY</u>					
<u>BRICKWORK IN SUPERSTRUCTURE</u>					
<u>Brickwork of NFP bricks in class II mortar</u>					
1	Half brick walls in beamfilling	m ²	30		
<u>BRICKWORK SUNDRIES</u>					
<u>2,5mm Brickwork reinforcement</u>					
2	75mm Wide reinforcement built in horizontally	m	70		
<u>FIBRE-CEMENT WINDOW SILLS</u>					
<u>Natural grey sills in single lengths bedded in class II mortar including metal fixing lugs etc.</u>					
3	120 x 15mm Wide sills set flat and slightly projecting	m	45		
4	120 x 15mm Wide sills set sloping and slightly projecting	m	45		
Carried to Summary				R	
Bill No. 4					
Masonry					

	Unit	Quantity	Rate	Amount
<u>BILL NO. 5</u>				
<u>WATERPROOFING</u>				
<u>SUPPLEMENTARY PREAMBLES</u>				
<u>Waterproofing</u>				
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				
<u>DAMPPROOFING OF WALLS AND FLOORS</u>				
<u>One layer 250 micron green polyethylene waterproof sheeting (SANS 952-1985 type C) sealed at laps with PVC self-adhesive tape</u>				
1	Under V-Drains, bases, etc	m ²	176	
<u>SEALING STRIPS, JOINT SEALANTS, ETC</u>				
<u>'Sika' or approved two-part grey polysulphide sealing compound including backing cord, bond breaker, primer, etc.</u>				
2	6 x 10mm In saw cut joints in floors	m	88	
3	15 x 15mm In expansion joints in soffits including raking out expansion joint filler as necessary	m	176	
Carried to Summary			R	
Bill No. 5 Waterproofing				

	Unit	Quantity	Rate	Amount
<u>BILL NO. 6</u>				
<u>ROOF COVERINGS</u>				
<u>PROFILED METAL SHEETING AND ACCESSORIES</u>				
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.				
<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>				
1 Roof covering with pitches not exceeding 25 degrees	m ²	565		
2 Ridge cappings 700mm girth	m	68		
3 Cover flashings 700mm girth	m	68		
4 Side wall flashings three times bent 650mm girth with one side slotted into wall	m	28		
5 Gable trims 580mm girth	m	38		
6 Narrow and broad flute closers	m	140		
7 Moulded narrow and broad rib polyethylene filler blocks	m	140		
<u>ROOF AND WALL INSULATION</u>				
<u>50mm Thick isotherm insulation layer laid over timber purlins (Timber purlins elsewhere measured) with and including galvanised straining wire</u>				
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 ²	565		
Carried to Summary			R	
Bill No. 6				
Roof Coverings				

	Unit	Quantity	Rate	Amount
<u>BILL NO. 7</u>				
<u>CARPENTRY AND JOINERY</u>				
<u>SUPPLEMENTARY PREAMBLES</u>				
<u>Fixing</u>				
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				
<u>Joinery</u>				
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				
<u>PLATE NAILED TIMBER ROOF TRUSS CONSTRUCTION ETC</u>				
<u>SUPPLEMENTARY PREAMBLES</u>				
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				
<u>Sawn softwood</u>				
1	38 x 114mm Wall plates	m	167	
2	38 x 114mm Longitudinal bracing	m	81	
3	50 x 76mm Cross bracing	m	137	
4	76 x 50mm Purlins	m	216	
5	Double pitched roof truss spanning 6.00 - 7.00m 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	35	
Carried to Collection			R	
Bill No. 7 Carpentry And Joinery				

		Unit	Quantity	Rate	Amount
6	Double pitched roof truss spanning 7.00 - 8.00m 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	17		
7	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	32		
8	Mono pitched roof truss spanning 2.00 - 3.00m 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	5		
9	Mono pitched roof truss spanning 4.00 - 5.00m 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	8		
10	Extra over timber trusses for the contractor's truss supplier / manufacturer to inspect and issue the TR1 and TR2 certificate that is required for compliancy	Item			
11	Extra over for wrought splayed purlins at eaves	m	187		
<u>EAVES, VERGES, ETC</u>					
<u>Medium density plain fibre-cement flat sheets</u>					
12	6mm Eaves soffit covering including 38 x 38mm sawn softwood branders along edges, along centre and at 400mm centres across sheets	m ²	65		
<u>High density plain fibre-cement fascias and barge boards</u>					
User Note - High density plain fascias and barge boards are available in 10mm and 15mm thicknesses					
13	325 x 15mm Fascias and barge boards, including galvanised steel H-profile joiners	m	126		
<u>SKIRTINGS</u>					
<u>Wrought meranti</u>					
14	96 x 19mm Skirtings plugged	m	241		
Carried to Collection				R	
Bill No. 7 Carpentry And Joinery					

		Unit	Quantity	Rate	Amount
	<u>DOORS</u>				
	<u>Wrought meranti doors hung to steel frames</u>				
15	44mm Solid 813 x 2032mm high	No	8		
16	40mm Solid 1620 x 2032mm high formed of two equal leaves including rebated edge	No	1		
	<u>Semi Solid doors with commercial veneer</u>				
17	40mm Door 813 x 2032mm high	No	5		
	<u>FRAMED FRAMES ETC</u>				
	<u>Wrought meranti</u>				
18	98 x 108mm Frames, bolted	m	72		
	<u>CUPBOARDS TO KITCHENS, BEDROOMS, ETC</u>				
	<u>Kitchen cupboards etc.</u>				
19	Floor cupboard formed of moisture resistant 'PG Bison V313' boarding 2400 x 580 x 820mm high with top, sides, bottom, division, shelf, back and 4 No. hinged doors, dividing framework, 120mm high base, etc.	No	2		
Carried to Collection				R	
Bill No. 7					
Carpentry And Joinery					

BILL NO. 7
CARPENTRY AND JOINERY
COLLECTION

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Carried to Summary

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	Unit	Quantity	Rate	Amount
<u>BILL NO. 8</u>				
<u>CEILINGS PARTITIONS AND ACCESS FLOORING</u>				
<u>SUPPLEMENTARY PREAMBLES</u>				
<u>Fixing</u>				
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				
<u>Ceilings</u>				
Unless otherwise described ceilings shall be deemed to be horizontal				
<u>Steel components</u>				
All steel components for ceilings, partitions, etc. are to be galvanised in accordance with SANS 121				
<u>SUSPENDED CEILINGS</u>				
<u>SUPPLEMENTARY PREAMBLES</u>				
<u>Proprietary suspended ceilings</u>				
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)				
<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>				
1	Ceilings suspended not exceeding 1m below timber trussess	m ²	366	
2	Extra over ceiling for opening for 600 x 1200mm light fitting	No	38	
Carried to Collection			R	
Bill No. 8 Ceilings Partitions And Access Flooring				

		Unit	Quantity	Rate	Amount
<u>Shadow line cornices, perimeter trims, etc. to suspended ceilings</u>					
3	Pre-painted cornices, plugged	m	241		
Carried to Collection				R	
Bill No. 8					
Ceilings Partitions And Access Flooring					

Amount

BILL NO. 8
CEILINGS PARTITIONS AND ACCESS FLOORING
COLLECTION

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		Unit	Quantity	Rate	Amount
<u>BILL NO. 9</u>					
<u>IRONMONGERY</u>					
<u>SUPPLEMENTARY PREAMBLES</u>					
<u>Proprietary items</u>					
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					
<u>Finishes to ironmongery</u>					
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					
<u>HINGES, BOLTS, ETC.</u>					
<u>Manufactured by Union or other approved</u>					
1	100 x 75mm Ball bearing brass hinge	No	39		
2	150 x 96mm Parliament brass hinge	No	6		
<u>CATCHES, CABIN HOOKS, ETC.</u>					
<u>Manufactured by Union or other approved</u>					
3	150mm Heavy duty cabin hook and eye including 70 x 70 x 20mm chamfered hardwood block twice oiled and plugged	No	2		
<u>LOCKS</u>					
<u>Manufactured by Union or other approved</u>					
4	Three-lever deadlock	No	5		
5	Two-lever lockset	No	8		
6	Three-lever rebated lockset	No	1		
Carried to Collection				R	
Bill No. 9					
Ironmongery					

Bill No. 9
Ironmongery

BILL NO. 9
IRONMONGERY
COLLECTION

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	Unit	Quantity	Rate	Amount
<u>BILL NO. 10</u>				
<u>METALWORK</u>				
<u>SUPPLEMENTARY PREAMBLES</u>				
<u>Descriptions of bolts, anchors, etc.</u>				
Descriptions of bolts shall be deemed to include nuts and washers				
Descriptions of expansion anchors and bolts and chemical anchors and bolts shall be deemed to include nuts, washers and mortices in brickwork or concrete				
Items described as 'holed for bolt(s)' shall be deemed to exclude the bolts unless otherwise described				
Items described as 'plugged' shall be deemed to include screwing to fibre, plastic or metal plugs at not exceeding 600mm centres				
<u>GALVANISED STEEL GATES, SCREENS, ETC</u>				
<u>Welded mesh fencing</u>				
1	Type 2 galvanised mesh fencing with a height of 1800mm, consisting of 2.5mm gauge wire fixed with and including 5 strands straining wire fixed to treated wooden posts with a nominal diameter of 100mm cast into unreinforced concrete bases	m	65	
2	Extra over fence for 500mm diameter galvanised flatwrap razor wire fixed to and including 3 strands of straining wire	m	65	
<u>GALVANISED PRESSED STEEL DOOR FRAMES</u>				
<u>1,2mm Rebated frames suitable for half brick walls</u>				
3	Frame for door 813 x 2032mm high	No	5	
<u>1,2mm Double rebated frames suitable for one brick walls</u>				
4	Frame for door 813 x 2032mm high	No	8	
5	Frame for door 1618 x 2032mm high	No	1	
Carried to Summary			R	
Bill No. 10 Metalwork				

	Unit	Quantity	Rate	Amount
<u>BILL NO. 11</u>				
<u>PLASTERING</u>				
<u>SUPPLEMENTARY PREAMBLES</u>				
User Note - The following preambles are to be included only when specifically required by the principal agent				
<u>Method</u>				
The method to be used shall be either the monolithic method or the bonded method				
<u>Preparation</u>				
For granolithic applied monolithically, the concrete floor shall be swept clean after bleeding of the concrete has ceased and the slab has begun to stiffen; any remaining bleed water shall be removed and the granolithic applied immediately thereafter. For granolithic to be bonded to the floor slab after it has hardened, the slab surface shall be hacked (preferably by mechanical means) until all laitance, dirt, oil, etc. is dislodged and swept clean of all loose matter. The slab shall then be wetted and kept damp for at least six hours before applying the granolithic.				
<u>Mix</u>				
Granolithic shall attain a compressive strength of at least 41MPa. The coarse aggregate shall comply with SANS 1083 and shall generally be capable of passing a 10mm mesh sieve. Where the thickness of the granolithic exceeds 25mm, the size of the coarse aggregate shall be increased to the maximum size compatible with the thickness of the granolithic.				
<u>Panels</u>				
Granolithic shall be laid in panels not exceeding 14m\² for monolithic finishes, not exceeding 9,5m\² for bonded finishes and not exceeding 6m\² for all external granolithic. Wherever possible, panels shall be square but at no time should the length of the panel exceed 1,5 times its width.				
Where possible joints between panels shall be positioned over joints in the floor slab and shall be at least 3mm wide through the full thickness of the finish, separated by strips of wood or fibreboard and finished with V-joints				
<u>Laying</u>				
Monolithic granolithic shall be applied to the partially set slab and thoroughly compacted and lightly wood floated to the required levels				
Carried to Collection			R	
Bill No. 11				
Plastering				

		Unit	Quantity	Rate	Amount
<p>Bonded granolithic shall be applied to the slab after applying a 1:1 sand-and-cement slurry brushed over the surface and allowed to partially set before applying the granolithic. The granolithic shall be thoroughly compacted and lightly wood floated to the required levels</p> <p>After wood floating, the monolithic and bonded granolithic shall remain undisturbed until bleeding has ceased and the surface has stiffened. Any remaining bleed water and laitance shall then be removed and the surface steel trowelled or power floated</p> <p><u>Curing, seasoning and protection</u></p> <p>Granolithic shall be covered with clean hessian with waterproof building foil over and kept wet for at least seven days after laying.</p> <p><u>Colour</u></p> <p>Coloured granolithic shall be tinted with an approved colouring pigment mixed into a true and even colour.</p> <p><u>EXTERNAL PLASTER</u></p> <p><u>Compo plaster wood floated, on brickwork</u></p>					
1	On walls	m ²	400		
2	On narrow widths	m ²	8		
Carried to Collection				R	
Bill No. 11 Plastering					

BILL NO. 11
PLASTERING
COLLECTION

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	Unit	Quantity	Rate	Amount
<u>BILL NO. 12</u>				
<u>TILING</u>				
<u>SUPPLEMENTARY PREAMBLES</u>				
<u>Fixing</u>				
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 ²				
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				
<u>WALL TILING</u>				
<u>'Johnson' or approved 200 x 200 x 5mm White matt ceramic tiles on brickwork including cement plaster backing</u>				
1	On walls	m ²	144	
2	On narrow widths	m ²	14	
3	Fair exposed cutting and fitting around pipe not exceeding 100mm internal diameter	No	4	
4	Fair exposed cutting and fitting around pipe exceeding 100mm and not exceeding 150mm internal diameter	No	5	
<u>FLOOR TILING</u>				
<u>'Johnson' or other approved 300 x 300 x 8mm 'Salt & Pepper' hard bodied porcelain ceramic floor tiles on 'Goldstar 6' bedding on concrete and flush pointed with tinted grout</u>				
5	On floors and landings	m ²	349	
6	On treads and risers	m ²	2	
<u>SUNDRIES</u>				
<u>M-trim or other approved protectors, stair nosings, expansion joint strips, etc.</u>				
7	Type ASE100.1N edgetrim	m	16	
Carried to Summary			R	
Bill No. 12				
Tiling				

	Unit	Quantity	Rate	Amount
<u>BILL NO. 13</u>				
<u>PLUMBING AND DRAINAGE</u>				
<u>SUPPLEMENTARY PREAMBLES</u>				
<u>Stormwater channels</u>				
Descriptions of channels shall be deemed to include necessary excavation, surface preparation, compaction, etc., and disposal of surplus material on site				
<u>Sealing of edges</u>				
Outer edges of sinks, basins, baths, urinals, etc. are to be sealed against adjacent surfaces with approved silicone				
<u>uPVC pipes and fittings</u>				
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				
<u>High density polyethylene (HDPE) pipes and fittings</u>				
Pipes shall be type IV and of the class specified with Plasson or Alprene compression fittings				
<u>Polycop polypropylene pipes</u>				
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				
<u>Copper pipes</u>				
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-siphon 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. 13				
Plumbing And Drainage				

	Unit	Quantity	Rate	Amount
<p><u>Reducing fittings</u></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><u>Fixing of pipes</u></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><u>Paper wrapping to pipes</u></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><u>Disinfection of water pipework</u></p> <p>Water pipework is to be disinfected at completion in accordance with SABS 1200L (provision for disinfection elsewhere)</p> <p><u>Densyl petrolatum anti-corrosion tape as manufactured by Denso SA (Pty) Ltd.</u></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><u>Laying, backfilling, bedding, etc. of pipes</u></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. 13				
Plumbing And Drainage				

	Unit	Quantity	Rate	Amount
<u>General</u>				
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)				
<u>As-built drawings</u>				
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)				
<u>RAINWATER DISPOSAL</u>				
<u>'Marley' or other approved 'Stream Line Double Flo' uPVC gutters and rainwater pipes</u>				
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	107	
2	Extra over gutter for 'Double Flo' outlet	m	20	
3	Extra over gutter for 'Double Flo' stop end	m	12	
4	Extra over for 80 x 80mm Upvc downpipe fixed to walls	m	108	
5	Extra over downpipe for bends	No	36	
6	Extra over downpipes for shoes	No	12	
7	Extra over downpipes for T- spreader	No	1	
Carried to Collection			R	
Bill No. 13 Plumbing And Drainage				

'Atlas Plastics' or other approved

No

5

No

5

Hose reels, etc.

No

8

Work for which budgetary allowances are provided for will be re-measured and valued by the Project Manager. If the sum is not utilised in part or whole, the Project Manager will deduct such an amount in part or in whole

Item

R

BILL NO. 13
PLUMBING AND DRAINAGE
COLLECTION

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Carried to Summary

R

	Unit	Quantity	Rate	Amount
<u>BILL NO. 14</u>				
<u>ELECTRICAL WORK</u>				
<u>ELECTRICAL INSTALLATION</u>				
<u>SUPPLEMENTARY PREAMBLES</u>				
<u>Distribution boards etc.</u>				
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				
<u>Switches, socket outlets, etc.</u>				
Rates for switches, socket outlets, etc. are to include for screwing to outlet boxes, connecting up and cover plates				
<u>Light fittings</u>				
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				
<u>ELECTRICAL WORK</u>				
<u>Electrical Installation</u>				
1	Provide the sum of R 480,000.00 (Four Hundred and Eighty Thousand Rand) for Electrcial Installation	Item		
2	Allowance for Contractor's Attendance for the above	Item		
3	Allowance for Contractor's Profit for the above	Item		
<u>Booster Pump</u>				
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. 14				
Electrical Work				

		Unit	Quantity	Rate	Amount
<u>BILL NO. 15</u>					
<u>GLAZING</u>					
<u>GLAZING TO STEEL WITH PUTTY</u>					
<u>6.38mm Clear safety glass</u>					
1	Panes exceeding 0,5m ² and not exceeding 2m ²	m ²	46		
<u>TOPS, SHELVES, DOORS, MIRRORS, ETC</u>					
<u>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</u>					
2	Mirror 400 x 600mm high	No	2		
Carried to Summary				R	
Bill No. 15					
Glazing					

	Unit	Quantity	Rate	Amount
<u>BILL NO. 16</u>				
<u>PAINTWORK</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				
<u>PAINT SPECIFICATIONS</u>				
<u>Painting, etc.</u>				
All painting shall be done in accordance with Dulux or other approved specifications unless otherwise described				
<u>ON INTERNAL FLOATED PLASTER SURFACES</u>				
<u>One coat primer, one coat alkyd based universal undercoat and two 'Dulux Polvin' paint, on work in sound condition</u>				
1	Walls	m ²	734	
<u>ON EXTERNAL FLOATED PLASTER SURFACES</u>				
<u>One coat oil based primer and one 'Dulux Rainshield' paint, on work in sound condition</u>				
2	Walls	m ²	400	
<u>One coat alkyd based universal undercoat and two 'Dulux Wall Guard' paint, on work in sound condition</u>				
3	Walls	m ²	400	
Carried to Collection			R	
Bill No. 16 Paintwork				

		Unit	Quantity	Rate	Amount
<u>ON FIBRE-CEMENT BOARD SURFACES</u>					
<u>Two coats extremely durable UV-resistant washable pure acrylic paint, on work in poor condition</u>					
4	Fascias and barge boards	m ²	53		
5	On eaves closures	m ²	57		
<u>ON WOOD SURFACES</u>					
<u>One coat 'Creosote' or other approved exterior quality penetrating wood preservative, on work in sound condition</u>					
6	Roof timbers at eaves and verges	m ²	460		
<u>Three coats superior quality clear matt varnish, on work in poor condition</u>					
7	Doors	m ²	57		
8	Door frames etc.	m ²	18		
9	On timber skirtings not exceeding 300mm high or wide	m	241		
Carried to Collection				R	
Bill No. 16					
Paintwork					

BILL NO. 16
PAINTWORK
COLLECTION

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Carried to Summary

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Amount

BILL NO. 17**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

7	Provide the sum of R150,000.00 (One Hundred and Fifty Thousand Rand) for under pinning building foundations, etc.	Item	0 00
8	Profit	Item	
9	Attendance	Item	

Structural Wall Repairs

10	Provide the sum of R50,000.00 (Fifty Thousand Rand) for structural stitching to walls	Item	0 00
11	Profit	Item	
12	Attendance	Item	

Fumigation

13	Provide the sum of R100,000.00 (One Hundred Thousand Rand) for specialist fumigation to building	Item	0 00
14	Profit	Item	
15	Attendance	Item	

Carried to Summary

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Bill No. 17
Provisional Sums

Amount

Bill No. **SUMMARY**

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SubTotal excluding Value Added Tax

ADD VAT @ 15%:

Carried to Tender

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SUMMARY

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