

Item No		Quantity	Rate	Amount
	<p><u>SECTION NO.2</u></p> <p><u>BUILDING WORK</u></p> <p><u>BILL NO.1</u></p> <p><u>EARTHWORKS (PROVISIONAL)</u></p> <p>The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades (2008 Edition) and to the Supplementary Preambles which are incorporated in this Bill.</p> <p><u>Nature of Ground.:</u></p> <p>The soil material on site varies between clayey-silty sands and clays of low plasticity, respectively classifying as SC-SM and CL. These soils are corrosive. The shale encountered at depth is characterised as either poorly graded gravels or clayey gravels of low plasticity.</p> <p>(For more details on the soil conditions, please refer to the attached geotechnical investigation report marked as annexure E)</p> <p>Descriptions of excavations shall be deemed to include all ground conditions classified as "earth" described in the above report and where more difficult character as indicated, these are separately measured.</p> <p><u>Carting away of excavated material.:</u></p> <p>Descriptions of carting away of excavated material shall be deemed to include loading excavated material onto trucks directly from the excavations or alternatively, from stock piles situated on the building site.</p>			
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Excavations, Filling , etc.

The Contractor shall notify the Principal Agent as soon as the excavations are ready to receive foundations and no building work may be started until the Principal Agent has approved the excavations.

Over excavations taken beyond the levels and sizes shown or required to obtain a solid foundation shall be filled by the contractor, at his own expense, with 15MPa concrete.

Should the Contractor consider that any of the excavations are more difficult in nature than excavations in "earth" he shall immediately notify the Quantity Surveyor in writing. Failing such notification the excavations shall be deemed to be in "earth" and shall be measured and valued accordingly.

The Contractor may use any method he chooses to excavate any class of material, but his chosen method of excavations shall not determine the classification of the material excavated.

Blasting:

No blasting will be allowed without the written permission of the Principal Agent.

Should blasting be necessary, the Contractor shall take every precaution to protect the Works and persons, animals and property in the vicinity of the Works. The Contractor will be held responsible for any injury or damage caused by any blasting operations and shall make good such damage at his own expense.

Testing:

Prices for filling are to include for all necessary density tests in accordance with SANS 1200D.

Prescribed density tests:

BULK EXCAVATION, FILLING, ETC

Open face excavation in all materials other than rock over sloping site.:

1	Reduced levels under floors.	m3	128	
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<u>Extra over bulk excavation in earth for excavation in</u>			
2	Soft rock	m3	4
3	Hard rock	m3	2
<u>Extra over all Bulk 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	86
<u>Earth filling supplied by the contractor, temporarily stockpiled on site including haulage approximately 100m from perimeter of stock piles.:</u>			
5	150mm Thick sub-base course of G5 material compacted to 93% MOD AASHTO density in 150mm thick layers, under floors, aprons, ramps, steps, etc.	m3	43
6	150mm Thick sub-base course of G6 material compacted to 98% MOD AASHTO density in 150mm thick layers, under floors, aprons, ramps, steps, etc.	m3	43
<u>Prescribed density tests on filling.:</u>			
7	Modified AASHTO Density test.	No	19
8	"Field Density" test including "Optimum Moisture Content" (four readings per test)	No	36
<u>Compaction of surfaces:</u>			
9	Rip and scarify top surface of existing formation to a depth of 150mm and compact to not less than 100% of Modified AASHTO density.	m2	285
<u>EXCAVATION, FILLING, ETC OTHER THAN BULK</u>			
<u>Excavation in all materials other than rock not exceeding 2m deep.:</u>			
10	Trenches.	m3	55
11	Holes.	m3	4
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<u>Extra over excavation other than bulk in all materials for excavation in (on-site verification required for payment):</u>					
12	Soft rock.	m3	6		
13	Hard rock.	m3	3		
<u>Back excavation of vertical sides of excavation in all materials other than rock for working space including backfilling compacted to 93% Mod. AASHTO maximum density.:</u>					
14	Exceeding 500mm and not exceeding 1500mm deep for erection and removal of formwork to strip footing, bases, ground beams, etc.	m2	78		
<u>Risk of collapse of excavations other than bulk.:</u>					
15	Sides of trench and hole excavations not exceeding 1,5m deep.	m2	166		
<u>Extra over all excavations other than bulk for loading, carting and dumping surplus excavated material (no allowance made for increase in bulk):</u>					
16	Off site to a dumping site to be found by the Contractor.	m3	31		
<u>Earth filling supplied by the contractor, temporarily stockpiled on site including haulage approximately 100m from perimeter of stock piles.:</u>					
17	150mm Thick sub-base course of G5 material compacted to 93% MOD AASHTO density in 150mm thick layers, under floors, aprons, ramps, steps, etc.	m3	28		
18	150mm Thick sub-base course of G6 material compacted to 93% MOD AASHTO density in 150mm thick layers, under floors, aprons, ramps, steps, etc.	m3	29		
<u>Coarse river sand filling compacted to 98% Mod. AASHTO maximum density.:</u>					
19	Under floors, etc.	m3	14		
<u>Keeping excavations free of water.:</u>					
20	Keeping excavations free of all water other than subterranean water.		Item		
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SOIL POISONING

Approved brand of anti-termite soil poison applied by a Registered Pest Control company and guaranteed against termite infestation for ten years.:

21	Under floors etc. including forming and poisoning shallow furrows against foundation walls etc, filling in furrows and ramming (Provisional).	m2	285	
22	To bottoms and sides of trenches etc	m2	243	

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Formwork to soffits of slabs, beams, etc. shall be deemed to be propped up exceeding 1,5m and not exceeding 3,5m high unless otherwise described.

Unless otherwise agreed as being measurable in terms of the foregoing paragraph, formwork necessitated by irregularly excavated faces or for other reasons decided upon by the contractor (e.g. over excavation) is not separately measurable. The cost thereof shall be deemed to be included in the contractor's allowance for concrete cast against excavated surfaces.

Provisional quantities allowing for the formwork described above together with the associated excavation for working space, have been measured in these Bills of Quantities. In the final account, these provisional quantities will be omitted and formwork to be measured will be determined by the initial prescription and/or subsequent authorised instructions of the structural engineer, together with formwork determined by the quantity surveyor as being necessary as defined above

For tendering purposes, the structural engineer has indicated that, for design purposes, he will require formwork to all the sides of the following concrete elements below ground level:

The vertical strutting shall be carried down to such construction as is sufficiently strong to afford the required support without damage and shall remain in position until the newly constructed work is able to support itself.

Formwork to sides of bases, pile caps, ground beams, etc., will only be measured where it is prescribed by the Engineer for design reasons. Formwork necessitated by irregularity or collapse of excavated faces will not be measured and the cost thereof shall be deemed to be included in the allowance for taking the risk of collapse of the sides of the excavations, provision for which is made in Earthworks.

The structural engineer reserves the right to vary the above requirements at any time during the construction period at his discretion

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<u>REINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u>			
<u>25 Mpa/19mm Concrete:</u>			
1	Strip footings.	m3	18
2	Bases.	m3	1
<u>REINFORCED CONCRETE</u>			
<u>25 Mpa/19mm Concrete.:</u>			
3	Surface beds on waterproofing.	m3	44
4	Slabs, including beams and inverted beams	m3	2
5	Columns in foundations.	m3	0.1
<u>TEST BLOCKS</u>			
<u>Test blocks.:</u>			
6	Making and testing sets of three 150 x 150 x 150 mm concrete strength test cubes (Provisional).	Sets	11
<u>CONCRETE SUNDRIES</u>			
<u>Finishing top surfaces of concrete smooth with a power float:</u>			
7	Surface beds, slabs, etc.	m2	216
<u>Finishing top surfaces of concrete smooth with a wood float.:</u>			
8	Finishing smooth top surfaces of grading to falls for waterproofing.	m2	70
<u>ROUGH FORMWORK (DEGREE OF ACCURACY III)</u>			
<u>Rough formwork to Sides.:</u>			
9	Strip footings (Provisional).	m2	49
10	Bases (Provisional).	m2	13
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11	Columns in foundations (Provisional).	m2	1		
12	Edges, risers, ends, and reveals not exceeding 300mm high.	m	50		
	<u>Rough formwork to soffits</u>				
13	Slabs exceeding 250mm and not exceeding 500mm thick, propped up exceeding 1500mm and not exceeding 3500mm high	m2	12		
	<u>MOVEMENT JOINTS ETC.</u>				
	<u>Saw cut joints.:</u>				
14	40 x 3mm Saw cut joint in top of concrete.	m	30		
	<u>REINFORCEMENT (PROVISIONAL)</u>				
	<u>High tensile steel reinforcement to structural concrete work.:</u>				
15	High tensile steel bars of varying diameter.	t	3.09		
	<u>Mild steel reinforcement to structural concrete work.:</u>				
16	Mild steel bars of varying diameter.	t	3.09		
	<u>Fabric reinforcement.:</u>				
17	Type 395 fabric reinforcement in concrete surface in concrete surface beds, slabs, etc.	m2	285		
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	<p><u>SECTION NO.2</u></p> <p><u>BUILDING WORK</u></p> <p><u>BILL NO.3</u></p> <p><u>MASONRY</u></p> <p>The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades (2008 Edition) and to the Supplementary Preambles which are incorporated in this Bill.</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>BRICKWORK</u></p> <p><u>Sizes in descriptions.:</u></p> <p>Where sizes in descriptions are given in brick units, 'one brick' shall represent the length and 'half brick' the width of a brick.</p> <p><u>Hollow walls etc.:</u></p> <p>Descriptions of hollow walls shall be deemed to include leaving every fifth perpend of the bottom course of the external skin open as a weep hole.</p> <p><u>Face bricks.:</u></p> <p>Bricks shall be ordered timeously to obtain uniformity in size and colour.</p> <p><u>Pointing.:</u></p> <p>Descriptions of recessed pointing to fair face brickwork and face brickwork shall be deemed to include square recessed, hollow recessed, weathered pointing, etc.</p> <p>All pointing to be approved by the Architect via sample panel which is to be built on site.</p>			
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<u>FOUNDATION BRICKWORK</u>					
<u>Brickwork of NFX bricks in class II mortar.:</u>					
1	One brick walls.	m2	49		
<u>BRICKWORK IN SUPERSTRUCTURE</u>					
<u>Brickwork of NFP bricks in class II mortar.:</u>					
2	Half brick walls in beam filling.	m2	17		
3	One brick walls.	m2	374		
<u>BRICKWORK SUNDRIES</u>					
<u>Brickwork reinforcement (Provisional).:</u>					
4	75mm Wide reinforcement built in horizontally.	m	199		
5	150mm Wide reinforcement built in horizontally.	m	2 613		
<u>Pre stressed fabricated lintels.:</u>					
6	Lintels in lengths not exceeding 3m suitable for one brick wall.	m	87		
<u>FACE BRICKWORK</u>					
<u>Facebricks Prime Cost Of R6 500.00 Per Thousand Excluding VAT Delivered To The Site Pointed With Square Recessed Horizontal And Vertical Joints.:</u>					
7	Extra over brickwork for face brickwork in foundations.	m2	53		
8	Extra over brickwork for face brickwork.	m2	266		
9	Extra over brickwork for facing 440 x 440mm piers.	m	19		
10	220mm Wide brick od edge header course sills set sloping and slightly projecting.	m	21		
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NUTEC-CEMENT/FIBRE-CEMENT WINDOW SILLS

Natural grey sills in single lengths bedded in class I mortar including metal fixing lugs etc.:

11	15 x 120mm Window sills set flat and slightly projecting.	m	21	
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	<p><u>SECTION NO.2</u></p> <p><u>BUILDING WORK</u></p> <p><u>BILL NO.4</u></p> <p><u>WATERPROOFING</u></p> <p>The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades (2008 Edition) and to the Supplementary Preambles which are incorporated in this Bill.</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>Waterproofing.:</u></p> <p>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.</p> <p><u>DAMPPROOFING OF WALLS AND FLOORS</u></p> <p><u>One layer of 375 micron Consol Plastics Brikgrip DPC embossed damp proof course or equal and approved.:</u></p>			
1	Vertically in walls.	m2	23	
	<p><u>One layer of 350 micron Consol Plastics Gunplas USB Green waterproof sheeting (or equal and approved) sealed at laps with Gunplas Pressure Sensitive Tape.:</u></p>			
2	Under surface beds.	m2	285	
	<p><u>Two part grey polysulphide sealing compound including backing cord, bond breaker, primer, etc including raking out expansion joint filler if necessary.:</u></p>			
3	In 40 x 3 mm saw cut joints in floors.	m	19	
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4	<p><u>Approved polyurethane sealing compound including backing cord, bond breaker, primer, etc:</u></p> <p>In joints between steel frames and walls</p>	m	89	
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<p>Section No. 1 Bill No. 4 WATERPROOFING</p>				

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	<p><u>SECTION NO.2</u></p> <p><u>BUILDING WORK</u></p> <p><u>BILL NO.5</u></p> <p><u>ROOF COVERINGS</u></p> <p>The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades (2008 Edition) and to the Supplementary Preambles which are incorporated in this Bill.</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>Ribbed roofing sheets.:</u></p> <p>The sheets shall be fixed in accordance with the manufacturer's recommendations with side-laps on the leeward side of the prevailing wind direction.</p> <p><u>Cutting of sheets.:</u></p> <p>All cutting of sheets shall be properly performed and all exposed cut edges shall be perfectly straight and treated to match roof finish.</p> <p><u>PROFILED METAL SHEETING AND ACCESSORIES</u></p> <p><u>GALVANISED STEEL ROOF SHEETING</u></p> <p><u>0.6mm Galvanised IBR sheet steel with Chromadek finish on one side in single lengths fixed to timber purlins or rails and 0.6mm galvanised sheet steel accessories with Chromadek finish on one side:</u></p>			
1	Roof covering with pitch not exceeding 25 degrees, in transportable lengths not exceeding 20m.	m2	400	
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INSULATION TO ROOFS

Sisalation 405 Housing grade aluminium foil based insulation.:

2 Insulation to timber purlins fixed concurrent with roof covering including fitment strictly to the manufacturer's instructions.

m2

400

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	<p><u>SECTION NO.2</u></p> <p><u>BUILDING WORK</u></p> <p><u>BILL NO.6</u></p> <p><u>CARPENTRY AND JOINERY</u></p> <p><u>PREAMBLES</u></p> <p>The Model Preambles for Trades (2008 edition), as published by the Association of South African Quantity Surveyors, shall be deemed to be incorporated in these bills of quantities and no claims arising from brevity of description of items, fully described in the said Model Preambles, will be entertained.</p> <p>The following "Supplementary Preambles" are incorporated in this bill to satisfy the requirements of the project and shall take precedence over the provisions of the said Model Preambles.</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>PREFABRICATED TIMBER ROOF TRUSSES</u></p> <p><u>Prefabricated metal connected timber roof trusses:</u></p> <p>All trusses shall be fabricated by an approved truss manufacturer who holds a current Certificate of Competence awarded by the Institute for Timber Construction.</p> <p><u>Descriptions for pre-fabricated timber roof trusses:</u></p> <p>Descriptions of trusses shall be deemed to include all necessary splay cut ends, mitres, joining, wrought and shaped ends, connectors, plate connectors, clips, etc.</p> <p>Tendered rates must make provision for the aforesaid as no additional claims in this regard will afterwards be entertained.</p>			
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Timber:

Timber for trusses to be South African softwood and shall be in accordance with the grades as defined in SABS Specification No. 563 or as defined in SABS Specification No. 1460.

Bolts:

Bolts shall be in accordance with BS 4190 or SABS 135.

Shear plates, tooth connectors and split rings:

Shear plates, tooth connectors and split rings shall be in accordance with BSS 1759 : 1960 and installed in accordance with the CSIR Publication HOUT 468, "The Design, Manufacturing and Erection of Timber Trusses".

Washers:

Square or round washers of the following dimensions shall be used with all bolts:

1. **Bolts up to 8mm diameter:**

Washers shall be minimum 25mm wide of minimum 2.5mm thickness.

2. **Bolts up to 12mm diameter:**

Washers shall be a minimum 36mm wide of minimum 4mm thickness.

3. **Bolts up to 20mm diameter:**

Washers shall be a minimum 60mm wide of minimum 5mm thickness.

Metal connector plates:

Metal connector plates shall be fabricated out of not less than 1mm thick drawn quality galvanised steel.

The steel shall have a minimum yield strength of 228MPa and a minimum ultimate tensile strength of 330MPa. The corrosion resisting coating shall be not less than 275g/m² commercial class hot dipped galvanised as per SABS 934 before stamping.

All connector plates shall have been tested by CSIR and be of size capable of transmitting the forces between members of a truss without exceeding the design values published in the CSIR reports.

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Truss construction:

Trusses shall be constructed in jigs specially designed to ensure the correct profile, overhangs and cambers.

Where metal connector plates are used all joints are to be close fitted butt joints made by precision pressing of the metal connector plates into each side of the joint.

Truss design:

All trusses shall be designed by a registered Professional Engineer in accordance with SABS 0163, "Design of Timber Structures" and Code 0160, "Loadings".

Truss spacing:

The truss centres shall be less than or equal to that as described in this bill for each respective truss.

Truss pitch:

The truss pitch shall be as described in this bill for each respective truss type.

Truss loading:

Trusses shall be designed for a live load of 0.50kN/m² and dead load as specified under the sub-heading "Specific load specifications for roof trusses".

Workshop drawings, design and erection guarantee certificates:

It will be expected from the contractor to timeously prepare, submit and obtain the necessary approvals from the Architect in respect of the required shop drawings, design and erection guarantee certificates as specified.

Dimensions:

All dimensions given in the descriptions of the trusses are nominal and actual measurements are to be obtained by actual measurements taken on the site before design or fabrication commences.

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Erection:

All trusses are to be hoisted and erected strictly in accordance with the procedures and recommendations of the manual “The Erection and Bracing of Timber roof Trusses: as published by the institute for Timber Construction and the CSIR, or the SABS Code of Practice “The Design, Manufacture and Erection of Timber Roof Trusses”, or as designed and detailed by the designer.

Design system:

The design system as documented in the bill is based on the “MiTek” system and all references given in the descriptions are related to specific type of trusses based on the design system.

However, contractors are to note that any design system of similar quality maybe used subject to prior written approval of the Architect.

Specific specifications for roof trusses
 Unless specifically otherwise described, the following specifications will apply:

1. The pitch of all trusses to be 10°

2. All trusses to be single ply, unless otherwise described trusses at maximum 1200mm centres.

3. All trusses to be at maximum 1200mm centres, unless otherwise described.

4. All exposed structural laminated beams shall be of architectural finish, i.e. manufactured of clean grade (absolutely clean) high density timber wrought all round.

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Rates:

Tendered rates to include for the complete roof construction, including the design of the roof construction, all timber of required grade and type shown on the design, all cutting and waste, cutting to the exact lengths and end angles to manufacture the respective truss type, supply of all connector plates, fabrication of trusses, checking the completed truss for quality, loading, storing under cover and protecting from the weather, hoisting up in position and erection of the roof truss structure, necessary supervision, submission of all shop drawings, design and erection guarantee certificates, etc. as specified.

Fixing.:

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 separately elsewhere.

Decorative laminate finish.:

Laminate finish shall be glued under pressure. Edge strips shall be butt jointed at junctions with adjacent similar finish.

Joinery.:

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.

All doors are to be pre-treated with a sealer as per Swartland specification.

Door types indicated refer to the full door specification and detail on the Door Schedule on Architect Drawing No. 500 and 501.

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ROOFS, ETC

PREFABRICATED ROOF TRUSSES, ETC.

Allow for the preparation and submission of the following documents:

1	Mono-pitched timber roof structure for computer labs building measuring approximately 25152mm x 10340mm on plan excluding overhangs and 1200mm high overall including wall plates, trusses, jack rafters, permanent bracing and 76 x 50mm purlins/battens placed at 750mm centre for roof covering.	No	34
2	Mono-pitched timber roof structure for computer labs verandah building measuring approximately 25152mm x 2000mm on plan excluding overhangs and 1200mm high overall including wall plates, trusses, jack rafters, permanent bracing and 76 x 50mm purlins/battens placed at 750mm centre for roof covering.	No	21
3	Detailed shop drawings indicating truss sizes, truss positions, bracing, details, etc. to be submitted for approval prior the commencement of any fabrication.		Item
4	Design certificate indicating the licensed programme used, SABS specifications adhered to, general procedures and loadings adopted, sizes and grading of timber components, details, etc.		Item
5	Erection guarantee certificate after the whole completed roof truss structure have been inspected, all defective work have been taken out and made good, etc. to the full satisfaction of the Architect		Item
	<u>Sawn softwood.:</u>		
6	50 x 76mm Purlins	m	524
7	Wall plate size 38 x 114mm.	m	82

EAVES, VERGES, ETC

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8	<p><u>"Everite Flexit" pressed nutec-cement</u></p> <p>225 x 12mm Fascias and barge boards including galvanised steel H-profile jointing strips.</p>	m	118	
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<p>Section No. 1 Bill No. 6 CARPENTRY AND JOINERY</p>				

DOORS, ETC.

SOLID CORE FLUSH DOORS

'TDM' or similar and approved Solid flush panel doors with commercial veneer on both sides and hardwood edge strips to vertical edges suitable for painting hung to steel frames (Steel frames measured elsewhere):

9	44mm Door 813 x 2032mm high.	No	7	
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Section No. 1
 Bill No. 6
 CARPENTRY AND JOINERY

Section No. 1

Bill No. 6

CARPENTRY AND JOINERY

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Bill No. 6

CARPENTRY AND JOINERY

Item No		Quantity	Rate	Amount
	<p><u>SECTION NO.2</u></p> <p><u>BUILDING WORK</u></p> <p><u>BILL NO.7</u></p> <p><u>CEILING, PARTITIONS, ACCESS FLOORING, ETC.</u></p> <p><u>PREAMBLES</u></p> <p>The Model Preambles for Trades (2008 edition), as published by the Association of South African Quantity Surveyors, shall be deemed to be incorporated in these bills of quantities and no claims arising from brevity of description of items, fully described in the said Model Preambles, will be entertained.</p> <p>The following "Supplementary Preambles" are incorporated in this bill to satisfy the requirements of the project and shall take precedence over the provisions of the said Model Preambles.</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>Descriptions.:</u></p> <p>Items described as "nailed" shall be deemed to be fixed with hardened steel nails or pins or shot pinned to brickwork or concrete.</p> <p>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 elsewhere.</p> <p>Hangers, suspension grids, "lay-in" panels, etc are to be in accordance with the manufacturers' recommendations.</p>			
	Carried to Collection			R
	Section No. 1 Bill No. 7 CEILING ETC			

Flush plastered suspended ceilings, bulkheads, etc.:

Descriptions of ceilings, bulkheads, etc are deemed to include for the total design, fabrication, erection, etc of suspension systems, grids, sub-grids, hangers, framing, bracing, etc and for gypsum plasterboard as described fixed with Rhino Drywall screws to tee section Screw-Up suspension system or Drywall steel tracks, studs, rails, braces, etc.

All joints in boards are to be covered with 50mm wide self adhesive Fibatape and whole finished with Rhinolite gypsum plaster trowelled to a smooth polished surface to the thickness recommended by the manufacturer, including galvanised pressed metal beads, arises to the plaster, etc.

General.:

Description of ceilings, bulkheads, etc generally are deemed to include for all necessary bridging, hangers, bracing, etc over and around services, pipes, air-conditioning ducting, etc. occurring within the ceiling and/or bulkhead voids and no claims for extras will be entertained for non co-ordination with other sub-contractors involved in this regard.

All work to be executed in strict accordance with the manufacturer's recommendations and carried out by specialist ceiling and bulkhead installers.

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 Bill No. 7
 CEILINGS ETC

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<u>CEILING</u>					
<u>"Aeropink" or equal and approved non-combustible lightweight glass wool insulation:</u>					
1	135mm Insulation in blanket form, closely fitted and laid on top of branderings between roof timbers, etc (Branderings elsewhere measured).	m2	203		
<u>NAILED - UP CEILINGS</u>					
<u>6.4mm "Rhino" or equal and approved gypsum plasterboard with taped and skimmed joints:</u>					
2	Ceilings including 38 x 38mm sawn softwood branderings.	m2	203		
3	Extra over rhino board ceiling for 600 x 600mm trap door of 38 x 38mm wrot softwood rebated framing with one 38 x 76mm sawn softwood cross brander covered with ceiling board and fitted flush in opening.	No	3		
<u>Gypsum cornices.:</u>					
4	75mm Coved cornice.	m	97		
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CEILINGS ETC

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CEILINGS ETC

Item No		Quantity	Rate	Amount
	<u>SECTION NO.2</u>			
	<u>BUILDING WORK</u>			
	<u>BILL NO.8</u>			
	<u>FLOOR COVERING</u>			
	<u>PREAMBLES</u>			
	The Model Preambles for Trades (2009 edition), as published by the Association of South African Quantity Surveyors, shall be deemed to be incorporated in these bills of quantities and no claims arising from brevity of description of items, fully described in the said Model Preambles, will be entertained			
	<u>VINYL FLOOR COVERINGS, WALL LININGS, ETC.</u>			
	<u>300 x 300 x 2.5mm "Floorworx superflex" or equal and approved vinyl tiles fixed to floors with "Floorworx No.62" or equal and approved acrylic adhesive, all in strict accordance with manufacture's instructions:</u>			
1	On screeded floors.	m2	216	
2	Turn-ups over coves and up against walls not exceeding 500mm girth	m	117	
	<u>POLISH, SEALERS, ETC</u>			
	<u>Polisher, Sealers, etc.:</u>			
3	Two coats wax polish on vinyl flooring.	m2	216	
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	Section No. 1			
	Bill No. 8			
	FLOOR COVERING, ETC.			

Item No		Quantity	Rate	Amount
	<p><u>SECTION NO.2</u></p> <p><u>BUILDING WORK</u></p> <p><u>BILL NO.9</u></p> <p><u>IRONMONGERY</u></p> <p><u>PREAMBLES</u></p> <p>The Model Preambles for Trades (2008 edition), as published by the Association of South African Quantity Surveyors, shall be deemed to be incorporated in these bills of quantities and no claims arising from brevity of description of items, fully described in the said Model Preambles, will be entertained</p> <p>The following "Supplementary Preambles" are incorporated in this bill to satisfy the requirements of the project and shall take precedence over the provisions of the said Model Preambles</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>Locks.:</u></p> <p>Notwithstanding Clause 4 of the "Ironmongery" trade of the "Standard System of Measuring Building Work", descriptions of locks shall be deemed to include two keys per lock.</p>			
	Carried to Collection			R
	<p>Section No. 1 Bill No. 9 IRONMONGERY</p>			

Finishes to ironmongery, etc:

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
- : AS Anodised silver
- : AB Anodised bronze
- : AG Anodised gold
- : ABL Anodised black
- : PB Polished brass
- : PL Polished and lacquered
- : PT Epoxy coated.

All locks are Master key operational.

All ironmongery is deemed to include fitment of screws that best match the finish of the item specified.

HINGES, BOLTS, ETC

"Geze" or similar and approved.:

1	75 x 100mm Nylon washered aluminium butts.	No	28	
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LOCKS

"Dormakaba" or equal and approved

2	Round Cylinder escutcheon (Code: DCE-002 SS)	Pairs	7.0	
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3	Cylinder lockset with chrome handle finish including powder coated cylinder lock complete with zinc coated backplate.	No	7	
---	---	----	---	--

4	Satin nickel plated 66mm master keyed double cylinder.	No	7	
---	--	----	---	--

HANDLES

"Geze" or similar and approved.:

5	"JD213/111 - GEKA2131169" 130 x 111 x 19mm stainless back-to-back pull handles.	Pairs	7.0	
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PUSH PLATES AND KICKING PLATES

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Section No. 1
 Bill No. 9
 IRONMONGERY

	<u>"Geze" or similar and approved.:</u>			
6	813 x 500 x 2mm Thick stainless steel kick plate.	No	7	
	<u>CATCHES, CABIN HOOKS, ETC</u>			
	<u>"Geze" or similar and approved.:</u>			
7	"Ref. 154/69-GESD00169" Stainless steel hat and coat hook with rubber buffer.	No	7	

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 Bill No. 9
 IRONMONGERY

LETTERS, NAMEPLATES, ETC

"Union" or similar and approved.:

8	Union AL5066-06ASE15 fire escape indicator plate.	No	7	
9	Union AL5066-06ASE15 Exit indicator sign.	No	7	

SUNDRIES

"Geze" or similar approved.:

10	"Ref. 140/69-GESC00069" Stainless steel door stop , plugged.	No	7	
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DOOR CLOSERS

"Geze" or similar and approved.:

11	Adjustable power regular arm overhead door closer with hold open device and smoke switch control unit (Code: TS5000) complete.	No	3	
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IRONMONGERY

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IRONMONGERY

Item No		Quantity	Rate	Amount
	<p><u>SECTION NO.2</u></p> <p><u>BUILDING WORK</u></p> <p><u>BILL NO.10</u></p> <p><u>METALWORK</u></p> <p><u>PREAMBLES</u></p> <p>The Model Preambles for Trades (2008 edition), as published by the Association of South African Quantity Surveyors, shall be deemed to be incorporated in these bills of quantities and no claims arising from brevity of description of items, fully described in the said Model Preambles, will be entertained.</p> <p>The following "Supplementary Preambles" are incorporated in this bill to satisfy the requirements of the project and shall take precedence over the provisions of the said Model Preambles.</p> <p><u>SUPPLEMENTARY PREAMBLES:</u></p> <p><u>Descriptions.:</u></p> <p>Descriptions of bolts shall be deemed to include nuts and washers.</p> <p>Descriptions of expansion anchors and bolts and chemical anchors and bolts shall be deemed to include nuts, washers and mortices in brickwork or concrete.</p> <p>Metalwork described as holed for bolt(s) shall be deemed to exclude the bolts unless otherwise described.</p>			
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	Section No. 1 Bill No. 10 METALWORK			

MILD STEEL GATES, SCREENS, ETC

Welded gates, screens, etc.:

1	Single gate 1100 x 1710mm high overall, comprising 76 x 50 x 3mm hollow section frame all round with mitred corners and 10 x 10 x 3mm diameter solid bars placed 100mm centres between rails and frame at and angle of 45 degrees, fitted with weld-on box housing for lock (Lock elsewhere measured) and hung on three approved heavy duty hinges welded to angle posts (Steel posts elsewhere measured) (Type G01 as per Architects Door Schedule with drawing no: 501).	No	7
2	Ditto, but with three heavy duty hinges welded on other flange.	No	21
3	12mm Chemical anchor.	No	42
4	"CISA Security" or similar and approved 22mm gate lock (Code: 42032) complete with cylinder (Code: OG345-05), striker plate (Code: 06079-20) and a 22mm rose set (Code: 06012-00) fitted in a 25 x 110mm high metal weld-on box (Code: 423MB).	No	7

PRESSED STEEL DOOR FRAMES

1,6mm Standard pressed steel double rebated frames suitable for one brick walls.:

5	Frame for door 813 x 2 032mm high with fanlight.	No	7
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 METALWORK

PURPOSE MADE ALUMINIUM APPROVED DOORS, SHOPFRONTS AND WINDOWS, FRAMES AND FIXED SECTIONS, WITH GLAZING IN ACCORDANCE WITH SANS 10400 CODE OF PRACTICE PART N, THE FRAMES OF 76 X 25 MM HOLLOW SECTIONS FIXED IN OPENINGS IN BRICKWORK OR TO STRUCTURAL STEEL, IN ACCORDANCE WITH THE MANUFACTURER'S PRINTED INSTRUCTIONS.

Tenderers are advised to acquaint themselves with the Architect's window and door schedules with drawing numbers 505 and 500 - 501 respectively before pricing this section. Should there be any discrepancies between these bills of quantities and the architect's window and door schedules, the architect's window and door schedule shall take precedence over these bills of quantities.

No claim of any nature whatsoever will be considered after submission of this tender, due to the failure of the contractor to fulfil the aforementioned obligation.

The following glazed with 4mm Low-E clear glass and safety glass where applicable (refer to window schedule), with gasket and powder coated glazing beads unless otherwise described. All glazing to comply with SABS 0137 and SANS 10400.:

6	Window overall size 600 x 850mm high overall.	No	2
7	Window overall size 950 x 1400mm high overall.	No	9
8	Window overall size 1100 x 1120mm high overall.	No	10
9	Window overall size 1200 x 1200mm high overall. (Fixed pane).	No	2

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METALWORK

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 METALWORK

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	<u>SECTION NO.2</u>			
	<u>BUILDING WORK</u>			
	<u>BILL NO.11</u>			
	<u>PLASTERING</u>			
	The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades (2008 Edition) and to the Supplementary Preambles which are incorporated in this Bill.			
	<u>SCREEDS</u>			
	<u>Screeds on concrete.:</u>			
1	30mm Thick on floors and landings.	m2	70	
	<u>Self-levelling screeds applied with adjustable leveller followed by spike roller on concrete.:</u>			
2	2.5mm Thick on floors and landings.	m2	216	
	<u>INTERNAL PLASTER</u>			
	<u>Cement plaster on brickwork:</u>			
3	On walls.	m2	418	
4	On narrow widths.	m2	12	
	<u>Gypsum skim plaster on concrete:</u>			
5	On concrete ceilings.	m2	12	
	<u>EXTERNAL PLASTER</u>			
	<u>Cement plaster on brickwork</u>			
6	On walls	m2	200	
7	On narrow widths	m2	22	
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	Bill No. 11			
	PLASTERING			

Item No		Quantity	Rate	Amount
	<p><u>SECTION NO.2</u></p> <p><u>BUILDING WORK</u></p> <p><u>BILL NO.12</u></p> <p><u>TILING</u></p> <p>The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades (2008 Edition) and to the Supplementary Preambles which are incorporated in this Bill.</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>Fixing.:</u></p> <p>Unless described as "fixed with adhesive to plaster (plaster elsewhere)" descriptions of tiling on brick or concrete walls, columns, etc shall be deemed to include 1:4 cement plaster backing and descriptions of tiling on concrete floors, etc. shall be deemed to include 1:3 plaster bedding.</p> <p>Tiling described as "fixed with adhesive on power floated concrete" shall be deemed to include for approved tiling key-coat.</p> <p>Ceramic, porcelain, marble and granite tiles are to be fixed and grouted with suitable adhesives and grouts from the range of products as recommended by the manufacturer of the tiles.</p>			
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FLOOR TILING

200 x 200mm Non-slip full body porcelain tiles (PC R145/m² for supply and delivery) fixed with adhesive to screed (Screed measured elsewhere) and flush pointed with tinted jointing compound.:

1	On floors and landings.	m2	70	
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TILING

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	<p><u>SECTION NO.2</u></p> <p><u>BUILDING WORK</u></p> <p><u>BILL NO.13</u></p> <p><u>PLUMBING AND DRAINAGE</u></p> <p><u>PREAMBLES</u></p> <p>The Model Preambles for Trades (2008 edition), as published by the Association of South African Quantity Surveyors, shall be deemed to be incorporated in these bills of quantities and no claims arising from brevity of description of items, fully described in the said Model Preambles, will be entertained.</p> <p>The following "Supplementary Preambles" are incorporated in this bill to satisfy the requirements of the project and shall take precedence over the provisions of the said Model Preambles.</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>'Polycop' polypropylene pipes.:</u></p> <p>Polypropylene pipes 54mm diameter and under shall be seamless copper coloured class 16 pipes jointed with 'Fast-fuse' heat welded thermoplastic or brass compression fittings as designed for use with copper pipes as stated.</p> <p>Pipes shall be firmly fixed to walls etc with coloured nylon snap-in pipe clips with provision for accommodating thermal movement and jointed and fixed strictly in accordance with the manufacturer's instructions.</p> <p>All pipe diameters are nominal external.</p> <p><u>uPVC pipes and fittings.:</u></p> <p>Soil, waste and vent pipes and fittings shall be solvent weld jointed.</p>			
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	<p>Section No. 1 Bill No. 13 PLUMBING AND DRAINAGE</p>			

Copper pipes.:

Pipes shall be hard drawn and half-hard pipes of the class stated. Class 0 (thin walled hard drawn) pipes shall not be bent. Class 1 (thin walled half-hard), class 2 (half-hard) and class 3 (heavy walled half-hard) pipes shall only be bent with benders with inner and outer formers. Fittings to copper waste, vent and anti-syphon pipes, capillary solder fittings and compression fittings shall be 'Cobra Watertech' type. Capillary solder fittings shall comply with ISO 2016. Only compression fittings shall be used in walls or in ground.

Fixing of pipes.:

Unless specifically otherwise stated, descriptions of pipes shall be deemed to include for fixing to walls etc. casting in, building in or suspending not exceeding 1m below suspension level.

Reducing fittings.:

Where fittings have reducing ends or branches they are described as 'reducing'. In the case of pipes with diameters not exceeding 60mm 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. In the case of pipes with diameters exceeding 60mm all sizes are given and no claim for extra bushes, reducers, etc will be entertained.

Excavations.:

No claim for rock excavation will be entertained unless the Contractor has timeously notified the quantity surveyor thereof prior to backfilling.

'Soft rock' and 'hard rock' shall be as defined in 'Earthworks'.

Laying, backfilling, bedding, etc of pipes.:

Pipes shall be laid and bedded and trenches shall be carefully backfilled in accordance with manufacturers' instructions.

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Where no manufacturers' instructions exist pipes shall be laid in accordance with clauses 5.1 and 5.2 of each of the following: SABS 1200 L : Medium pressure pipelines LD : Sewers LE : Stormwater drainage Pipe trenches etc shall be backfilled in accordance with clause 3, 5.5, 5.6, 5.7 and 7 of SAB.

Flush pans.:

Flush pans shall have straight or side outlets and 'P' or 'S' traps as necessary.

Stainless steel basins, sinks, wash troughs, urinals, etc.:

Units shall have standard aprons on all exposed edges and tiling keys against walls where applicable.

Waste unions.:

Descriptions of waste unions shall be deemed to include rubber or vulcanite plugs and chains fixed to fittings.

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RAINWATER DISPOSAL

"Watertite" aluminium

1	?mm Ogee eaves gutters	m	82
2	Extra over ? eaves gutter for stopped end	No	6
3	Extra over ? eaves gutter for outlet for ?mm pipe	No	6
4	? x ?mm Rainwater pipes	m	18
5	Extra over ? rainwater pipe for bend	No	6
6	Extra over ? rainwater pipe for shoe	No	6

FIRE SERVICE

Fire Fighting Equipment

Supply, deliver and install the following Fire extinguisher

7	4.5kg DCP with backing boards	No	
8	Photoluminescent signage		SUM

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PLUMBING AND DRAINAGE

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PLUMBING AND DRAINAGE

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	<p><u>SECTION NO.2</u></p> <p><u>BUILDING WORK</u></p> <p><u>BILL NO.14</u></p> <p><u>GLAZING</u></p> <p>The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades (2008 Edition) and to the Supplementary Preambles which are incorporated in this Bill.</p> <p><u>GLAZING TO WOOD WITH PINNED-ON BEADS (BEADS ELSEWHERE)</u></p> <p><u>6.50mm Normal strength (NS) clear laminated safety glass.:</u></p>			
1	Panes exceeding 0,1m ² and not exceeding 0.5m ² .	m2	5	
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	Section No. 1 Bill No. 14 GLAZING			

Item No		Quantity	Rate	Amount
	<p><u>SECTION NO.2</u></p> <p><u>BUILDING WORK</u></p> <p><u>BILL NO.15</u></p> <p><u>PAINTWORK</u></p> <p><u>PREAMBLES</u></p> <p>The Model Preambles for Trades (2008 edition), as published by the Association of South African Quantity Surveyors, shall be deemed to be incorporated in these bills of quantities and no claims arising from brevity of description of items, fully described in the said Model Preambles, will be entertained.</p> <p>The following "Supplementary Preambles" are incorporated in this bill to satisfy the requirements of the project and shall take precedence over the provisions of the said Model Preambles.</p> <p><u>COLOURS</u></p> <p>Unless otherwise described, all paintwork shall be deemed to have a colour value in excess of 7 the Munsel system in accordance with SANS 1091</p> <p><u>PREPARATORY WORK TO EXISTING WORK</u></p> <p><u>Previously painted plastered surfaces</u></p> <p>Surfaces shall be thoroughly washed down and allowed to dry completely before any paint is applied. Blistered or peeling paint shall be completely removed and cracks shall be opened, filled with a suitable filler and finished smooth</p> <p><u>ON FLOATED PLASTER</u></p> <p><u>PAINTWORK, ETC. TO NEW WORK</u></p> <p><u>ON FLOATED PLASTER</u></p>			
	Carried to Collection			R
	<p>Section No. 1 Bill No. 15 PAINTWORK</p>			

1	<u>Prepare and apply one coat alkali resistant primer and two coats "PVA" emulsion paint for interior use, on.:</u>	m2	431		
	On internal walls.				
	<u>Prepare and apply one coat alkali resistant primer and two coats "PVA" emulsion paint for exterior use, on.:</u>				
2	On external walls	m2	226		
	<u>Prepare and apply one coat alkali resistant primer and two coats "PVA" emulsion paint for interior use, on.:</u>				
3	On skimmed ceilings and beams.	m2	12		
	<u>ON PLASTER BOARD</u>				
	<u>Prepare and apply one coat Primer, one coat alkali based universal undercoat and two coats superior quality universal enamel paint.:</u>				
4	Ceilings and cornices.	m2	203		
	<u>ON METAL SURFACES</u>				
	<u>Prepare and apply one coat universal undercoat and two coats 'Plascon' superior quality universal enamel paint, on galvanised steel, etc.:</u>				
5	On door frames.	m2	9		
	<u>ON WOOD</u>				
	<u>Stop, sand down and prepare wood surfaces and apply one coat pink wood primer and two coats 'Plascon' velvagio on.:</u>				
6	On exterior doors.	m2	11		
7	On interior doors.	m2	14		
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	<p><u>BILL NO 18</u></p> <p><u>PROVISIONAL SUMS ETC</u></p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>Work executed by direct contractors</u></p> <p>Work listed under the heading "DIRECT CONTRACTORS WORK" will commence during the execution of this contract and the contractor shall allow free access to the site for these direct contractors. The contractor shall prepare a programme in conjunction with these direct contractors in order to complete the work successfully. The direct contractors will be regarded as nominated sub-contractors but payment will not be made to them via the contractor. The estimated values of these contracts are listed to enable the contractor to determine profit and attendances, if required</p> <p><u>General</u></p> <p>Unless otherwise described, all prime cost amounts and provisional sums exclude the cash discount of 5% and include for delivery to site of all articles concerned</p> <p>All prime cost amounts and provisional sums are net and include for delivery to site of all articles concerned</p> <p><u>Preliminaries</u></p> <p>The contractor is referred to the Preliminaries for further amplification of "Prime Cost Amounts and Provisional Sums"</p> <p>PROVISIONAL ITEMS TO BE DESCRIBED</p> <p><u>SPECIALIST WORK (SELECTED SUB-CONTRACTORS)</u></p> <p><u>JOINERY FITTINGS</u></p>			
	Carried to Collection		R	
	<p>Section No. 2 Bill No. 1 Provisional Sums</p>			

<u>Supply and installation of fixed joinery fittings:</u>				
1	Provide the amount of R 300 000.00 (Three Hundred Thousand Hundred Rands) for Fixed Furniture complete.	Item		300 000.00
2	Profit on above item.	Item		
3	Attendance on Ditto.	Item		
<u>ELECTRICAL INSTALLATION</u>				
<u>Electrical installation:</u>				
4	Provide the amount of R 180 000.00 (One Hundred and Eighty Thousand Hundred Rands) for Electrical Installation complete.	Item		180 000.00
5	Profit on above item.	Item		
6	Attendance on Ditto.	Item		
<u>Fire Detection System complete with all accessories & equipment as per project specification</u>				
7	Allow a provisional amount of R 30 000.00 (Thirty Thousand Rand) for a complete Fire detection system installation complete to be installed by a specialist.	Item		30 000.00
8	Profit on above item.	Item		
9	Attendance on Ditto.	Item		
<u>ICT & Data Installation</u>				
10	Allow a provisional amount of R 90 000.00 (Ninety Thousand Rand) for a complete ICT system to be installed by a specialist.	Item		90 000.00
11	Profit on above item.	Item		
12	Attendance on Ditto.	Item		
<u>CCTV Installation</u>				
13	Allow a provisional amount of R 50 000.00 (Fifty Thousand Rand) for a complete CCTV system to be installed by a specialist.	Item		50 000.00
Carried to Collection				
Section No. 2			R	
Bill No. 1				
Provisional Sums				

14	Profit on above item.	Item	
15	Attendance on Ditto.	Item	
Carried to Collection			R
Section No. 2 Bill No. 1 Provisional Sums			

Section No. 2

Bill No. 1

Provisional Sums

COLLECTION

Total Brought Forward from Page No.

**Page
No**

Amount

59

60

61

Carried to Final Summary

R

Section No. 2
 Bill No. 1
 Provisional Sums

Item No		Quantity	Rate	Amount
	<u>BILL NO 18</u>			
	<u>PROVISIONAL SUMS ETC</u>			
	<u>Occupational Health & Safety:</u>			
1	Health and Safety overall cost	Item		30 000.00
	Carried to Final Summary		R	
	Section No. 3			
	Bill No. 1			
	Occupational Health & Safety			

Section No	<u>FINAL SUMMARY</u>	Page No		Amount
1	Building Works	58		
2	Provisional Sums	62		
3	Occupational Health & Safety	63		
	Sub Total		R	
	ADD: Preliminaries		R	
	Sub Total		R	
	VAT @ 15%		R	
	Carried to Form of Tender		R	