

Brought Forward			R
<u>Cutting down and removing, grubbing up roots and filling in holes</u>			
2	Tree exceeding 200mm and not exceeding 500mm girth and dispose	No	2
3	Tree exceeding 500mm and not exceeding 1000mm girth and dispose	No	3
4	Tree exceeding 1000mm and not exceeding 2000mm girth and dispose	No	1
<u>EXCAVATION, FILLING, ETC OTHER THAN BULK</u>			
<u>Excavation in earth not exceeding 2m deep</u>			
5	Trenches	m3	27
<u>Extra over bulk excavation in earth for excavation in</u>			
6	Soft rock	m3	3
7	Hard rock	m3	2
<u>Extra over all excavations for carting away</u>			
8	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor – free haul 10km	m3	19
<u>Risk of collapse of excavations</u>			
9	Sides of trench and hole excavations not exceeding 1,5m deep	m2	89
<u>Keeping excavations free of water</u>			
10	Keeping excavations free of all water other than subterranean water		Item
<u>Earth filling obtained from the excavations and/or prescribed stock piles on site</u>			
11	Backfilling to trenches, holes, etc	m3	8
12	Under floors, steps, pavings, etc	m3	15
<u>Earth filling supplied by the contractor compacted to 93% Mod AASHTO density</u>			
13	Under floors, steps, pavings, etc	m3	30
Carried Forward			R
Section No. 1 Bill No. 1 FOUNDATIONS			

Brought Forward

R

	<u>Prescribed density tests on filling</u>		
14	"Modified AASHTO Density" test	No	12
	<u>SOIL POISONING</u>		
	<u>Soil insecticide</u>		
15	Under floors etc including forming and poisoning shallow furrows against foundation walls etc, filling in furrows and ramming	m2	102
16	To bottoms and sides of trenches etc	m2	127
17	Ditto, but under aprons, etc	m2	31
	<u>CONCRETE, FORMWORK & REINFORCEMENT</u>		
	<u>UNREINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u>		
	<u>25MPa/19mm concrete</u>		
18	Strip footings	m3	11
	<u>MASONRY</u>		
	<u>FOUNDATION BRICKWORK</u>		
	<u>Brickwork of NFX bricks (14 MPa nominal compressive strength) in class I mortar</u>		
19	230mm brick wall	m2	57
	<u>Brickwork reinforcement</u>		
20	150mm Wide reinforcement built in horizontally	m	671

Carried Forward to Summary of Section No. 1

Section No. 1
Bill No. 1
FOUNDATIONS

R

Item No	Quantity	Rate	Amount
<p><u>BILL NO 2</u></p>			
<p><u>CONCRETE, FORMWORK AND REINFORCEMENT</u></p>			
<p><u>SUPPLEMENTARY PREAMBLES</u></p>			
<p>Cost of tests</p>			
<p>The costs of making, storing and testing of concrete test cubes as required under clause 7 "Tests" of SABS 1200 G shall include the cost of providing cube moulds necessary for the purpose, for testing costs and for submitting reports on the tests to the project manager. The testing shall be undertaken by an independent firm or institution nominated by the contractor to the approval of the project manager. (Test cubes are measured separately)</p>			
<p>Formwork</p>			
<p>Description of formwork shall be deemed to include use and waste only (except where described as "left in" or "permanent"), for fitting together in the required forms, wedging, plumbing and fixing to true angles and surfaces as necessary to ensure easy release during stripping and for reconditioning as necessary before re-use</p>			
<p>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.</p>			
<p>Formworks to soffits of solid slabs, etc. shall be deemed to be slabs not exceeding 250mm thick unless otherwise described</p>			
<p>Formwork to sides of bases, pile caps, ground beams, etc will only be measured where it is prescribed by the engineer for design reasons.</p>			
<p>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"</p>			
<p><u>UNREINFORCED CONCRETE</u></p>			
<p>Carried Forward</p>			
<p>Section No. 1 Bill No. 2 CONCRETE, FORMWORK AND REINFORCEMENT</p>			
			R

Brought Forward			R
	<u>25MPa/19mm concrete</u>		
1	Surface beds cast in panels on waterproofing	m3	10
<u>REINFORCED CONCRETE</u>			
	<u>25MPa/19mm concrete</u>		
2	Vanity slabs, cupboard slabs, cover slabs, aprons etc	m3	0.1
3	Suspended Slab including beams	m3	1
<u>TEST BLOCKS</u>			
4	Making and testing 150 x 150 x 150mm concrete strength test cube (Provisional)	No	4
<u>CONCRETE SUNDRIES</u>			
	<u>Finishing top surfaces of concrete smooth with a wood float</u>		
5	Surface beds, Apron, slabs, etc.	m2	147
<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	49
	<u>Rough formwork to soffits</u>		
7	Vanity slabs, cupboard slabs, cover slabs, etc	m2	1
8	Suspended slab not exceeding 3.5m high from bearing level	m2	3
<u>MOVEMENT JOINTS ETC</u>			
	<u>Expansion joints between vertical concrete and brick surfaces</u>		
9	12mm Jointex expanded board not exceeding 300mm high	m	1
	<u>Polysulphide sealant</u>		
10	12 x 10mm sealant on top of expansion joint	m	1
Carried Forward			R
Section No. 1			
Bill No. 2			
CONCRETE, FORMWORK AND REINFORCEMENT			

Brought Forward

R

REINFORCEMENT

Fabric reinforcement

11	Type 193 fabric reinforcement in concrete surface beds, slabs, etc	m2	147
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Rebar

12	Reinforcement or rebar (all types)	t	2.00
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PAVING, ETC

Precast Concrete paving

13	60mm concrete paving bricks laid on 20mm river sand with sand vibrated into joints	m2	26
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14	80mm concrete paving bricks laid on 20mm river sand with sand vibrated into joints	m2	12
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15	200 x 200 x 30mm precast concrete coping	m	15
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Carried Forward to Summary of Section No. 1

Section No. 1
 Bill No. 2
 CONCRETE, FORMWORK AND REINFORCEMENT

R

Item No		Quantity	Rate	Amount
	<u>BILL NO 3</u>			
	<u>MASONRY</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	<u>BRICKWORK</u>			
	Sizes in descriptions			
	Where sizes in descriptions are given in brick units, "one brick" shall represent the length and "half brick" the width of a brick			
	Samples			
	Samples of all masonry building units, except those for walls described as "load bearing", shall consist of a minimum of 6 units. Samples of building units to be used in walls described as "load bearing" shall consist of 30 units from every 30 000 units delivered to site			
	<u>SUPERSTRUCTURE BRICKWORK</u>			
	<u>Brickwork of NFP bricks in class I mortar</u>			
1	Half brick walls in beam filling	m2	19	
2	Half brick walls	m2	20	
3	150mm Maxi brick walls	m2	197	
4	230mm brick walls	m2	18	
5	230mm brick walls on curved as stated on the plan	m2	12	
	<u>Face brickwork</u>			
6	Extra over for 115mm Clay brick wall - FBS	m2	23	
7	Extra over for 230mm Clay brick wall - FBS	m2	42	
8	Extra over for 115mm Clay brick wall - Travertine FB	m2	24	
9	Extra over for 115mm Clay brick wall - Travertine FB	m2	12	
10	Extra over facebrick wall (Corobrik Bergendal Blend Satin) in braai wall	m2	3	
	Carried Forward			R
	Section No. 1 Bill No. 3 MASONRY			

Brought Forward		
	<u>Brick-on-edge header course coping, sills, etc. of face bricks (purchase price of R 7000.00/1000 delivered to site excluding VAT) pointed with recessed joints on all exposed faces</u>	
11	Extra over brick-on-edge top course on walls	m 3
12	Extra over brick-on-edge top course on walls but curved on plan	m 16
<u>BRICKWORK SUNDRIES</u>		
<u>Brickwork reinforcement</u>		
13	75mm Wide reinforcement built in horizontally	m 153
14	150mm Wide reinforcement built in horizontally	m 773
<u>Prestressed fabricated lintels in accordance with SABS 1504 - 1990</u>		
15	110 x 75mm Lintels in lengths not exceeding 3m	m 44
<u>Galvanised hoop iron cramps, ties, etc</u>		
16	30 x 1,6mm Roof tie 1,5m long with one end fixed to timber and other end built into brickwork	No 24
<u>NUTEC-CEMENT/FIBRE-CEMENT WINDOW SILLS</u>		
<u>Natural grey sills in single lengths bedded in class I mortar including metal fixing lugs etc</u>		
17	15 x 175mm Wide sills set sloping and slightly projecting	m 11

Carried Forward to Summary of Section No. 1

Section No. 1
 Bill No. 3
 MASONRY

R

R

Item No		Quantity	Rate	Amount
	<u>BILL NO 4</u>			
	<u>WATERPROOFING</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	Waterproofing			
	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>DAMP-PROOFING OF WALLS AND FLOORS</u>			
	<u>One layer of 375 micron "Consol Plastics Brikgrip DPC" embossed damp proof course</u>			
1	Under surface beds, cavity wall, window sill, etc	m2	147	
	<u>One layer of 250 micron "Consol Plastics Gunplas USB Green" waterproof sheeting sealed at laps with "Gunplas Pressure Sensitive Tape"</u>			
2	In walls	m2	16	
	<u>WATERPROOFING TO ROOFS, BASEMENTS, ETC</u>			
	<u>Evolite SP3 & SP4 waterproofing system laid to falls and cross falls including dressing around fulbore outlets and turn-ups 100mm high on parapet wall on screeded bed (fulbore and screeded bed elsewhere measured) and 10 year guarantee to be provided by certified installer.</u>			
3	On roofs including turnups and turndowns	m2	30	
	<u>PROTECTIVE ROOFING PAINT</u>			
	<u>Sika flex Waterproofing paint</u>			
4	On waterproofing to roofs	m2	30	
5	On planter walls	m2	7	
	<u>JOINT SEALANTS ETC</u>			
	Carried Forward			R
	Section No. 1 Bill No. 4 WATERPROOFING			

Brought Forward

"Bostik" silicone sealing compound including backing cord, bond breaker, primer, etc

6 Between sanitary fittings and walls, slabs, etc m 9

7 25 x 25mm Aluminium angle beading around windows and doors m 56

R

Carried Forward to Summary of Section No. 1

Section No. 1
Bill No. 4
WATERPROOFING

R

Item No		Quantity	Rate	Amount
	<u>BILL NO 5</u>			
	<u>ROOF COVERINGS</u>			
	<u>PROFILED METAL SHEETING AND ACCESSORIES</u>			
	<u>0.5mm Corrugated iron spelter galvanised sheet steel with "Chromadek" finish on one side fixed to timber/steel purlins or rails</u>			
1	Roof covering with pitch not exceeding 25 degrees	m2	131	
2	Ridge capping 455mm girth	m	12	
3	Roof flashing 300mm girth including painting	m	43	
	<u>0.6mm Polycarbonate sheeting</u>			
4	Roof covering with pitch not exceeding 25 degrees	m2	12	
	<u>Harvey thatch tiling</u>			
5	Harvey thatch tiling (colour: doe grey) including 50mm cape reed, sisalation, lathes and purlins	m2	86	
6	Harvey tile ridge or flashing 300mm wide	m	55	
7	Fire retardant on existing thatched roof	m2	86	
	<u>Aluminium Roofing</u>			
8	Aluminium Chromadex roof covering	m2	31	
	<u>SHEET METAL FLASHINGS, LININGS, COPINGS, ETC</u>			
	<u>5mm Galvanised sheet iron</u>			
9	Side wall flashing 450mm girth	m	12	
	Carried Forward to Summary of Section No. 1			
	Section No. 1			
	Bill No. 5			
	ROOF COVERINGS			
			R	

Item
No

Quantity

Rate

Amount

BILL NO 6

CARPENTRY AND JOINERY

ROOFS ETC

Roof truss construction for metal roof sheeting

The following is applicable in respect of the roof construction:

Trusses to be prefabricated "Gangnail" trusses

All trusses are to be fabricated in a factory by approved specialists and designed by a registered professional Engineer and shall be in accordance with SABS 0160 and 0163

The SA Pine roof trusses shall be fabricated in a properly equipped factory by an approved specialist firm of Truss Fabrications using metal plate connectors

Rates are further to include for such site supervision as deemed necessary by the fabricator of the trusses to ensure that all the erection details have been complied with to his satisfaction and the issue of a certificate from the fabricator to that effect and include:

1. Detailed shop drawings indicating truss sizes, truss positions, bracings, details, etc. to be submitted for approval prior the commencement of any fabrication item.
2. Design certificate indicating the licensed programme used, SABS specifications adhered to, general procedures and loadings adopted, sizes and grading of timber components, details, etc
3. 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 representative / agent

The trusses are to be spread at average 1200mm centres and are to be designed for:

- (1) 0.6mm Corrugated sheet iron roof sheeting on 50 x 76mm purlins at 1200mm centres
- (2) 6mm Fibre cement ceilings

Carried Forward

R

Section No. 1
Bill No. 6
CARPENTRY AND JOINERY

Brought Forward

R

The prices of the roof trusses are to include for the following:

- All roof trusses complete with toothed connections, etc
- All bearers, hangers bracings, etc
- All shoes and hangers to support trusses as necessary
- Detailed shop drawings as above
- Design certificate as above
- Erection guarantee certificate as above

Roof trusses with a pitch of approximately of 25 degrees

1	Complete roof construction including all trusses, ties, struts, connector and end plates, etc (purlins elsewhere) (measured on slope)	m2	24
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Sawn softwood

2	38 x 114mm Rafters in lengths exceeding 2,4m and not exceeding 3,9m	m	95
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3	50 x 75mm Purlins	m	176
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Sundries

4	Two coats creosote on sawn timbers	m2	9
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EAVES, VERGES, ETC"Everite Flexit" pressed nutec-cement

5	10 x 225mm Fascias and barge boards including galvanised steel H-profile jointing strips	m	58
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DOORS ETCHollow core flush doors with "Sapele" veneer on both sides hung to steel frames

6	40mm Door 813 x 2032mm high	No	4
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Semi-solid doors with "Sapele" veneer on both sides hung to steel frames

7	40mm Door 813 x 2032mm high	No	2
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FLYSCREEN DOORS**Carried Forward**

R

Section No. 1

Bill No. 6

CARPENTRY AND JOINERY

Brought Forward

R

Wrought meranti doors hung to steel frames

8	40mm Framed fly screen door 813 x 2032mm high of 40 x 100 mm top rail and stiles and, 40 x 100mm middle ledge and 40 x 200mm bottom rail filled in with chicken mesh	No	2
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FITTINGS

CUPBOARDS

9	Kitchen and bedroom cupboards per unit		Item
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Granite Topping

10	20mm Granite topping	m2	1
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11	20mm wall lining	m2	2
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12	20mm flash backing 150mm high	m	2
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DECKING

Timber decking

13	Treated S.A Pine 32 x 100mm timber decking	m2	25
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14	32 x 100mm balau timber decking	m2	25
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15	32 x 100mm Massaranduba timber decking	m2	25
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SABS Pine or Similar Approved

16	50 x 150mm wide door or window Sb-Frame Lining	m	84
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17	50 x 150mm wide Meranti floor finish breaker	m	4
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18	Meranti 25 x 25 Quardrant	m	1
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19	Meranti Skirting 19 x 50mm high	m	34
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Carried Forward to Summary of Section No. 1

R

Section No. 1
 Bill No. 6
 CARPENTRY AND JOINERY

Item No		Quantity	Rate	Amount
	<u>BILL NO 7</u>			
	<u>CEILINGS, PARTITIONS AND ACCESS FLOORING</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	Descriptions:			
	Items described as "nailed" shall be deemed to be fixed with hardened steel nails or pins or shot pinned to brickwork or concrete			
	Items described as "plugged" shall be deemed to include screwing to fibre, plastic or metal plugs at not exceeding 600mm centres, and where described as "bolted" the bolts have been given elsewhere			
	<u>INSULATION</u>			
	<u>"Aerolite" insulation</u>			
1	50mm Insulation closely fitted and laid on top of branderling between roof timbers etc	m2	85	
	<u>NAILED UP CEILINGS</u>			
	<u>6mm "Everite Nutec" fibre-cement boards with H-profile jointing strips</u>			
2	Ceilings including 38 x 38mm sawn softwood branderling at 450mm centres	m2	85	
3	Extra over ceiling for 600 x 600mm trap door of 38 x 114mm wrought softwood rebated framing with 38 x 38mm sawn softwood surround and cross branders covered with ceiling board and with 19 x 50mm wrot meranti surround, fitted flush in opening	No	2	
	<u>"Rhino" gypsum plasterboard cornices</u>			
4	75mm Coved cornices	m	89	
	<u>CEILING</u>			
5	60mm Lambdaboard ceiling	m2	19	
6	Double-sided Radenshield foil insulation underlay	m2	19	
7	CCA treated SABS approved 38 x 75mm pine	m	12	
	Carried Forward			R
	Section No. 1			
	Bill No. 7			
	CEILINGS, PARTITIONS AND ACCESS FLOORING			

Brought Forward

8	Cape reed ceiling	m2	91
9	25-50mm Lattice Fascia to roof - curved on plan	m2	2

R

Carried Forward to Summary of Section No. 1

Section No. 1
Bill No. 7
CEILINGS, PARTITIONS AND ACCESS FLOORING

R

Item No	<u>BILL NO 8</u>	Quantity	Rate	Amount
	<u>IRONMONGERY</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	Finishes to ironmongery			
	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			
	SD Sanded			
	<u>HINGES, BOLTS, ETC</u>			
1	75mm Brass hinge with nylon washers	No	16	
2	75mm Brass barrel bolt with keep fixed to metal	No	2	
	<u>CATCHES, CABIN HOOKS, ETC</u>			
3	90mm Cabin hook and eye including 70 x 70 x 20mm chamfered hardwood block twice oiled and plugged	No	4	
	<u>LOCKS</u>			
	<u>"Union"</u>			
4	"CZ51741CH" push button cupboard catch	No	3	
	<u>"EN-SUITE" LOCKS</u>			
	The following locks are to be suitable for master and grand master key operation			
	<u>"Solid"</u>			
	The following locks are to be suitable for master key operation			
	Carried Forward			R
	Section No. 1 Bill No. 8 IRONMONGERY			

Brought Forward			
5	"Springbok 390/311/E41" two lever lockset	No	6
<u>HANDLES</u>			
	<u>"Solid"</u>		
6	Black Japan pull handle	No	4
<u>DOOR CLOSERS</u>			
	<u>"Dorma"</u>		
7	"TS73" door closer with bracket fixed to metal	No	2
<u>PELMETS AND CURTAIN TRACKS</u>			
	<u>"Kirton"</u>		
8	"Kirsch" regular duty single curtain track for face fixing with 53mm projection	m	13
<u>BATHROOM FITTINGS</u>			
	<u>"Solid"</u>		
9	19mm Diameter chromium plated curtain or hanging rail 1000mm long including flan	No	2
<u>SUNDRIES</u>			
	<u>"Solid"</u>		
10	38mm Diameter rubber door stop plugged	No	8
11	Power Cornice/Pelmet	No	17
12	Master key system on each door	No	1
13	QS4420 stainless steel wall mounted door stop BLACK	No	4
14	Geimar or similar 150mm black cabin hook	No	1
15	Geimar or similar black magnetic door stop	No	1
16	Satin half moon door stop	No	2
17	Foot operated door stop	No	1
18	Dorma TS73V (silver colour) elbow action door closer	No	1

R

Carried Forward

R

Section No. 1
 Bill No. 8
 IRONMONGERY

Brought Forward

19

230mm Mild steel drop bolt

No

1

R

Carried Forward to Summary of Section No. 1

Section No. 1
Bill No. 8
IRONMONGERY

R

Item No		Quantity	Rate	Amount
	<u>BILL NO 9</u>			
	<u>METALWORK</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	Descriptions			
	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			
	Metalwork described as "holed for bolt(s)" shall be deemed to exclude the bolts unless otherwise described			
	<u>PRESSED STEEL DOOR FRAMES</u>			
	<u>1.2mm Rebated frames suitable for one brick walls</u>			
1	Frame for door 813 x 2032mm high	No	6	
	<u>STEEL WINDOWS, DOORS, ETC</u>			
	<u>Standard residential windows with standard type 15 x 15mm solid section B1F horizontal burglar bars at equal spacings to all sashes</u>			
2	Window Type D22H, size 2000 x 1245mm.	No	4	
3	Window Type D1H, size 533 x 1245mm.	No	4	
4	Window Type D2FH, size 1022 x 949mm.	m	2	
	<u>ALUMINIUM FLYSCREENS FOR WINDOWS</u>			
	<u>Bronze anodised powder coated aluminium folding staking doors glazed with 6.38mm thick UV protection laminated clear safety glass and plugged to brickwork or concrete</u>			
5	Aluminium Sliding/Swing door size 1800 x 2100mm high	No	1	
6	Aluminium Sliding/Swing door size 1500 x 2100mm high	No	1	
	Carried Forward			R
	Section No. 1 Bill No. 9 METALWORK			

Brought Forward			R
7	Aluminium swing door size 900mm x 2100mm high	No	1
8	Aluminium swing door size 900mm x 1500mm (universal access)	No	1
9	Aluminium swing/sliding door size 1900mm x 2100mm (universal access)	No	1
10	Aluminium swing/sliding door size 1000mm x 2400mm (universal access)	No	1
11	Combination Louvre and screen door size 650 x 1350mm high D6	No	1
<u>Bronze anodised powder coated aluminium windows glazed with 6.38mm thick clear safety glass and plugged to brickwork or concrete</u>			
12	Aluminium window Size 600 x 450mm high	No	1
13	Aluminium window Size 600 x 600mm high	No	1
14	Aluminium window Size 600mm x 900mm high	No	1
15	Aluminium window Size 600 x 1200mm high	No	1
16	Aluminium window Size 900mm x 1800mm	No	1
17	Aluminium window Size 890mm x 890mm	No	1
18	Aluminium window Size 830mm x 1800mm	No	1
19	Aluminium window Size 900mm x 1800mm	No	1
20	Aluminium window Size 1500mm x 700mm	No	1
21	Aluminium window Size 1500 x 900mm high	No	1
22	Aluminium window Size 1500mm x 1800mm	No	1
23	Aluminium window Size 1580 x 1800mm high	No	1
24	Aluminium window Size 1800 x 450mm high	m	1
25	Aluminium window Size 1800mm x 1200mm (universal access)	No	1
<u>Approved Sliding Aluminium framed insect mesh with side lug lock</u>			
Carried Forward			R
Section No. 1 Bill No. 9 METALWORK			

R

Brought ForwardDoor Insect Mesh

26	Aluminium Insect mesh screen door 900mm x 2100mm	No	1
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Widow Insect Mesh

27	Insect mesh screen for window size 1500 x 1800mm high	No	1
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28	Insect mesh screen for window size 1800 x 450mm high	No	1
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29	Insect mesh screen for window size 1500 x 700mm high	No	1
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30	Insect mesh screen for window size 600 x 600mm high	No	1
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31	Insect mesh screen for window size 900 x 1800mm high	No	1
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32	Insect mesh screen for window Size 600 x 1200mm high	No	1
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33	Insect mesh screen for window Size 600 x 450mm high	No	1
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34	Insect mesh screen for window Size 600 x 900mm high	No	1
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Purpose Made Gate

35	Purpose made gate size 900 x 2100mm high	m	1
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Vinyl Film to Glazing

36	Opaque UV self adhesive vinyl film to door and window glazing	m2	1
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37	200 x 200mm Sanpark Logo sandblast vinyl sticker	No	1
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Standard anodised aluminium fly screens with aluminium mosquito gauze

38	Fly screen 533 x 955mm High	No	6
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39	Fly screen, 1022 x 1245mm	No	8
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GRIDCages and grids

40	Braai grid including all fittings and angle irons for supports	No	1
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Carried Forward

R

Section No. 1
Bill No. 9
METALWORK

Brought Forward

R

41	600 x 1800mm Steel gas cage	No	1
42	50mm x 50mm aluminium angle around braai	m	

SHOWER CUBICLE DOORS

"Showerlux" white epoxy powder coated aluminium shower cubicle doors with sliding gear, cleats, stops, etc and 6mm toughened obscure safety glass plugged to tiled walls

43	Panel 1200 x 2100mm high overall, with fixed panel 500mm wide and pivot door 700mm wide	No	2
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Carried Forward to Summary of Section No. 1

Section No. 1
Bill No. 9
METALWORK

R

Item No		Quantity	Rate	Amount
	<u>BILL NO 10</u>			
	<u>PLASTERING</u>			
	<u>SCREEDS</u>			
	<u>Screeds on concrete</u>			
1	25mm Thick on floors and landings	m2	85	
	<u>INTERNAL PLASTER</u>			
	<u>Cement plaster on brickwork</u>			
2	On walls	m2	15	
3	Rhinolite plaster	m2	15	
4	On narrow widths	m2	5	
	<u>EXTERNAL PLASTER</u>			
	<u>Cement plaster on brickwork</u>			
5	On walls	m2	118	
6	On narrow widths	m2	3	
	<u>Cem-crete finish to</u>			
7	Walls	m2	34	
8	Floors	m2	47	
	<u>CORNER PROTECTORS, DIVIDING STRIPS, ETC</u>			
9	3 x 25mm Brass cover strip fixed to concrete	m	2	
	Carried Forward to Summary of Section No. 1			
	Section No. 1			
	Bill No. 10			
	PLASTERING			
				R

Item No		Quantity	Rate	Amount
	<u>BILL NO 11</u>			
	<u>TILING</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	Descriptions			
	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			
	<u>WALL TILING</u>			
	<u>200 x 200 x 5mm "Johnson MA10" white glazed ceramic tiles fixed with adhesive to plaster (plaster elsewhere)</u>			
1	On walls	m2	47	
	<u>100 x 200 x 5mm Valencia bevelled white glazed ceramic tiles fixed with adhesive to plaster (plaster elsewhere)</u>			
2	On walls	m2	42	
	<u>FLOOR TILING</u>			
	<u>Unglazed ceramic tiles (Prime cost amount of R270.00 excluding VAT for tiles) fixed with adhesive to screed (screed elsewhere)</u>			
3	On floors	m2	85	
4	Mosaic tiling as per approved specification	m2	3	
	<u>"Kirk Marketing" Stainless steel round tile edging</u>			
5	19 x 19mm edging	m	12	
	<u>TOILET PAPER HOLDERS ETC</u>			
	<u>"Johnson" white glazed ceramic</u>			
6	150 x 150 x 85mm Semi-recessed toilet paper holder	No	2	
7	170 x 170 x 70mm Semi-recessed soap dish	No	2	
	Carried Forward to Summary of Section No. 1			R
	Section No. 1			
	Bill No. 11			
	TILING			

Item No		Quantity	Rate	Amount
	<u>BILL NO 12</u>			
	<u>PLUMBING AND DRAINAGE (PROVISIONAL)</u>			
	<u>SOIL DRAINAGE</u>			
	<u>uPVC pipes to SABS 967</u>			
1	110mm Pipes laid in and including trenches not exceeding 1m deep	m	55	
	<u>Extra over uPVC pipes for fittings</u>			
2	110mm Bend	No	16	
3	110mm Access bend	No	2	
4	110mm Junction	No	6	
	<u>SANITARY FITTINGS</u>			
5	Shower door - Pilot Scheme specification	No	1	
6	Shower trap - Pilot Scheme specification	No	1	
7	Shower arm - Pilot scheme Specification	No	1	
8	Ceramic Basins - Pilot Scheme Specification	No	1	
9	Basin mixer - Pilot scheme	No	1	
10	Gebrit concealed cistern - Pilot Scheme Spec	No	1	
11	Gebrit dual flush plate - Pilot Scheme spec	No	1	
12	Cobra seine concealed shower mixer - Pilot Scheme spec	No	1	
13	Cobra 100mm Diameter 2-Spray Chrome-Plated Shower Head - pilot spec	No	1	
14	Kitchen zinc - Frankie Projectline PLN611 size 800 x 460mm wide	No	1	
15	Cobra Seine single lever pillar type sink mixer	No	1	
16	Cobra den sink mixer	No	1	
	Carried Forward			R
	Section No. 1 Bill No. 12 PLUMBING AND DRAINAGE (PROVISIONAL)			

Brought Forward			R
17	Cobra Arrive wall hung toilet pan and seat with Dual flush capacity	No	1
18	Lecico atlas raised paraplegic WC with side lever	No	1
19	Railman dogleg rail	No	1
20	Railman cistern rail	No	1
21	Railman flush valve rail	No	1
22	Railman door handle	No	1
23	Vaal snipe basin underslug	No	1
24	Cobra den basin mixer	No	1
25	Lacey shower waste 800mm x 70mm stainless steel	No	1
26	Gio Bella Shower Arm 30 x 300mm WB-30	No	1
27	Cobra pause round shower rail	No	1
28	Cobra pause hand shower round chrome plated	No	1
29	Cobra den shower diverter mixer	No	1
30	Cobra hand shower hose	No	1
31	Railman fold up shower seat	No	1
32	750mm x 2100mm shower glass (2-post)	No	1
33	1040mm x 2100mm shower glass (3-post)	No	1
34	Steelcraft dish soap	No	1
35	Steelcraft dish shower basket	No	1
	"Franke" stainless steel		
	Stainless steel for economy basins, domestic sinks, worktops and wash troughs shall be type 430 (17/0)		
	Stainless steel for urinals, basins, quality sinks, wash troughs, institutional equipment, etc shall be type 304 (18/8)		
Carried Forward			R
Section No. 1			
Bill No. 12			
PLUMBING AND DRAINAGE (PROVISIONAL)			

Brought Forward			R
36	DT100E sink and drainer 1000 x 557mm wide with one bowl	No	2
37	DT100E sink and drainer 1200 x 557mm wide with double bowl	No	1
	<u>"Vaal"</u>		
38	595 x 455mm "Cameo" lavatory basin with single tap hole and overflow attachment (code 8784Z0)	No	2
39	"Daisy (code 774010)" vitreous china semi-close coupled WC suite comprising 90 degrees outlet pan with 9 litre cistern (code 710034) and heavy duty double flap plastic seat	No	2
<u>WASTE UNIONS ETC</u>			
	<u>"Cobra Watertech"</u>		
40	32mm 301 CP basin waste union	No	2
41	38mm 316 CP bath or sink waste union	No	2
42	62mm Cobra slotted basin/sink waste	No	1
<u>TRAPS ETC</u>			
	<u>"Cobra Watertech"</u>		
43	40mm 373 brass shower trap including stainless steel grating	No	2
44	38mm 365/50 CP bottle trap	No	4
45	Shower floor drainer	No	1
<u>TAPS, VALVES, ETC</u>			
	<u>"Cobra Watertech"</u>		
46	25mm 1002/125-25 Full way gate valve	No	2
47	15mm 128CP "Carina" under wall pattern stopcock	No	10
48	15mm 166/041CP "Carina" sink mixer	No	4
49	15mm 065CP shower rose	No	2
50	15mm 026CP overhead shower arm	No	2
Carried Forward			R
Section No. 1			
Bill No. 12			
PLUMBING AND DRAINAGE (PROVISIONAL)			

Brought Forward

R

51	Shower mixer	No	2
52	15mm Flexible pipe 350mm long	No	10
<u>SANITARY PLUMBING</u>			
<u>uPVC pipes</u>			
53	50mm Pipes	m	62
54	110mm Pipes	m	35
<u>Extra over uPVC pipes for fittings</u>			
55	50mm Bend	No	12
56	50mm Junction	No	4
57	110mm Pan connector	No	2
58	50mm Access bend	No	6
59	110mm Inspection eye	No	6
60	110mm Rodding eye	No	3
61	110mm Reducing junction	No	2

TESTING

62	Testing waste pipe system		Item
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WATER SUPPLIES

Class 0 copper pipes

63	15mm Pipes	m	144
64	22mm Pipes	m	100
65	28mm pipes	m	45

Carried Forward

R

Section No. 1
Bill No. 12
PLUMBING AND DRAINAGE (PROVISIONAL)

Brought Forward

R

Extra over class 0 copper pipes for capillary fittings

66	15mm Fittings	No	136
67	22mm Fittings	No	76
68	28mm Fittings	No	8

Sundries

69	Precast concrete gulley, overall size 430 × 440mm, bedded pointed on all exposed faces	No	2
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ELECTRIC WATER HEATERS

70	150 Litre vertical ceiling mounted electric water heater	No	1
71	200 Litre vertical ceiling mounted electric water heater	No	1
72	100L Geyser with solar panels	No	1
73	25mm Kent or similar approved water meter including installation	No	2

TESTING

74	Testing water pipe system		Item
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FIRE APPLIANCES ETC

75	4.5kg DCP extinguisher with wall bracket plugged	No	2
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Carried Forward to Summary of Section No. 1

R

Section No. 1
 Bill No. 12
 PLUMBING AND DRAINAGE (PROVISIONAL)

Item No	<u>BILL NO 14</u>	Quantity	Rate	Amount
	<u>PAINTWORK</u>			
	<u>PREPARATORY WORK TO EXISTING WORK</u>			
	Previously painted plastered surfaces			
	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			
	Previously painted metal surfaces			
	Surfaces shall be thoroughly rubbed and cleaned down. Blistered or peeling paint shall be completely removed down to bare metal			
	Previously painted wood surfaces			
	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>PAINTWORK ETC TO NEW WORK</u>			
	<u>ON FLOATED PLASTER</u>			
	<u>One coat primer and two coats interior quality PVA emulsion paint</u>			
1	On internal walls	m2	117	
2	On external walls	m2	122	
	<u>ON FIBRE-CEMENT</u>			
	<u>One coat primer and two coats exterior quality PVA emulsion paint</u>			
3	On fascia's and barge boards	m2	23	
4	On ceilings and cornices	m2	85	
	<u>ON METAL</u>			
	Carried Forward			R
	Section No. 1 Bill No. 14 PAINTING			

Brought Forward

Spot priming bare metal surfaces with zinc chromate primer and applying one undercoat and two coats gloss enamel paint on steel

5	On door frames	m2	3
6	On windows (both sides measured over the full flat area)	m2	25
7	On doors	m2	29

R

Carried Forward to Summary of Section No. 1

Section No. 1
Bill No. 14
PAINTING

R

Item No		Quantity	Rate	Amount
	<u>BILL NO 15</u>			
	<u>ELECTRICAL WORKS</u>			
	<u>ELECTRICAL RECTICULATION</u>			
	Supply, delivery, installation, testing, commissioning and handing over in working condition and maintenance during guarantee period.			
1	6mm2 x 4 core electrical cable	m	85	
2	4mm2 electrical earth cable	m	85	
3	HEXIN Meter single phase	No	2	
4	CBI Single phase meter	No	2	
5	CBI QF-1 1 pole 240V 6KA 40amp	No	2	
	<u>DISTRIBUTION BOARDS</u>			
	<u>Main Distribution Board</u>			
6	Supply and install, 20 way wall-mounted board, complete as specified, with all equipment as listed in board schedule, with cable entry from bottom and top.	No	1	
	<u>ELECTRICAL TEST AND COMMISSIONING</u>			
7	Test and commission the complete reticulation and issue the necessary test Certificate of Conformity		Item	
	<u>ELECTRICAL INSTALLATION</u>			
	<u>LIGHTING AND SMALL POWER</u>			
	<u>CONDUIT</u>			
	<u>PVC conduit, complete with all couplings, bushes, locknuts, fixing saddles and screws, cutting, threading, reaming, fixing, cleaning for wiring purposes, in roof space, in concrete or brick and surface mounted</u>			
8	20mm dia	m	208	
	<u>CONDUIT BOXES</u>			
9	Deep round conduit box	No	36	
	Carried Forward			R
	Section No. 1 Bill No. 15 ELECTRICAL WORKS			

Brought Forward			
10	100 x 50 x 50mm wall box	No	36
<u>WIRING</u>			
<u>PVC insulated copper conductors drawn into wire ways, including waste and termination with colours as specified</u>			
11	2.5mm ²	m	312
<u>LIGHTING INSTALLATION</u>			
<u>Supply and installation on the following light fittings, complete with lamps and control gear</u>			
12	Light fitting: WT22 Bulkhead E27	No	24
<u>SOCKET OUTLET</u>			
<u>Supply and install the following socket outlet with cover plate</u>			
13	16 Amp 3 pin single switched socket outlet	No	24
14	16 Amp 3 pin double switched socket outlet	No	4
<u>LIGHT SWITCH</u>			
<u>Supply and install the following light switch with cover plate</u>			
15	16A 1 lever 1 way flush on wall	No	4
16	16A 3 lever 1 way flush on wall	No	6
17	Isolator	No	4
<u>STOVES</u>			
<u>Solid 4 Plate Hop Defy stove or Bosch or similar approved "Tecno" or "Bosch"</u>			
18	Solid 2 plate electric stove	No	1
19	4 Plate gas stove	No	2
20	Gas stove connection	No	2
<u>MECHANICAL WORKS</u>			
Carried Forward			
Section No. 1 Bill No. 15 ELECTRICAL WORKS			

R

R

Brought Forward

R

FANS

21 Ceiling mounted fans to Sanparks specifications- Lumex
1200mm white or similar approved

No

1

Carried Forward to Summary of Section No. 1

Section No. 1
Bill No. 15
ELECTRICAL WORKS

R

Item No	<u>BILL NO 16</u>	Quantity	Rate	Amount
	<u>STRUCTURAL STEELWORKS</u>			
	<u>Structural steelwork</u>			
1	Structural steelwork fabrication, supply, installation and painting	t	0.50	
2	Structural steelwork fabrication, supply, installation, painting and hoisting	t	0.50	
	Carried Forward to Summary of Section No. 1			R
	Section No. 1 Bill No. 16 STRUCTURAL STEELWORK			

Item No		Quantity	Rate	Amount
	<p><u>BILL NO 17</u></p> <p><u>EXTERNAL WORKS</u></p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p>Nature of ground</p> <p>The nature of ground is assumed to be loose, sandy material, therefore "earth", but possibly interspersed with "hard rock" or "soft rock"</p> <p>Carting away of excavated material</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 to a dumping site approximately 5km from the building site</p> <p><u>MASONRY</u></p> <p>Sizes in descriptions</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>Samples</p> <p>Samples of all masonry building units, except those for walls described as "load bearing", shall consist of a minimum of 6 units. Samples of building units to be used in walls described as "load bearing" shall consist of 30 units from every 30 000 units delivered to site</p> <p><u>VERANDA</u></p> <p><u>EARTHWORKS</u></p> <p><u>EXCAVATION, FILLING, ETC OTHER THAN BULK</u></p> <p><u>Excavation in earth not exceeding 2m deep</u></p>			
1	Trenches	m3	0.3	
	<u>Extra over bulk excavation in earth for excavation in</u>			
	Carried Forward			R
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Brought Forward

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EXCAVATIONS, FILLING, ETC.

Extra over all excavations for carting away

2	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor – free haul 10km	m3	0.3
---	---	----	-----

Risk of collapse of excavations

3	Sides of trench and hole excavations not exceeding 1,5m deep	m2	2
---	--	----	---

Keeping excavations free of water

4	Keeping excavations free of all water other than subterranean water		Item
---	---	--	------

SOIL POISONING

Soil insecticide

5	To bottoms and sides of trenches etc	m2	3
---	--------------------------------------	----	---

CONCRETE, FORMWORK & REINFORCEMENT

UNREINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES

20MPa/19mm concrete

6	Bases	m3	0.3
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SA Pine timber, sanded to match existing

7	126-150mm Diameter beams in lengths exceeding 2,4 and 3,9m, bolted	m	13
---	--	---	----

WASH TROUGH

PLUMBING ETC

8	Washtrough	No	2
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Carried Forward

R

Section No. 1
Bill No. 17
EXTERNAL WORKS

		Brought Forward		R
9	32mm Basin waste union	No	4	
10	15mm bibcock	No	4	
11	15mm Pipes	m	1	
12	22mm pipes	m	3	
13	15mm Fittings	No	2	
14	22mm Fittings	No	1	
15	50mm Diameter pipe	m	3	
16	50mm Bend	No	1	
17	50mm Access bend	No	1	
<u>WASHING LINE</u>				
<u>EXCAVATION, FILLING, ETC OTHER THAN BULK</u>				
<u>Excavation in earth not exceeding 2m deep</u>				
18	Holes	m3	0.3	
19	Extra over excavations in earth to bases and trenches for	m3	1	
20	Ditto, but in hard rock.	m3	1	
Carried Forward				R
Section No. 1 Bill No. 17 EXTERNAL WORKS				

Brought Forward

R

21 | Extra over all excavations for carting away from the site all
|
|
| m3 0.3

22 | Allow for risk of collapse to sides of trench and base exca
|
| m2 2

23 | Allow for keeping excavations free from water.
|
| No 1

Earth filling obtained from the excavations and/or prescribe
Mod AASHTO density

24 | Under floors,steps,paving, etc
|
| m3 1

SOIL POISONING

Soil insecticide in accordance with SANS 5859 to surfaces

25 | Ditto, but in bottom and sides of foundation trenches, holes
|
| m2 3

UNREINFORCED CONCRETE CAST AGAINST EXCAVATION

Unreinforced Cement Concrete (25 Mpa/19mm) in

26 | Bases
|
| m3 0.3

METALWORKS

CCA treated beam etc, supporting roof structure

27 | Steel roof structure at 20kg per square meter
|
| t 0.13

Carried Forward

R

Section No. 1
Bill No. 17
EXTERNAL WORKS

Brought Forward

R

28	10mm wire rope cable including all connections	m	19
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MANHOLE COVER

EXCAVATION, FILLING, ETC OTHER THAN BULK

Excavation in earth not exceeding 2m deep

29	Holes	m3	3
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30	Extra over all excavations for carting away from the site all	m3	3
----	---	----	---

31	Allow for risk of collapse to sides of trench and base exca	m2	9
----	---	----	---

32	Allow for keeping excavations free from water.	No	1
----	--	----	---

Earth filling obtained from the excavations and/or prescribe
Mod AASHTO density

33	Under floors, steps, paving, etc	m3	0.3
----	----------------------------------	----	-----

SOIL POISONING

Soil insecticide in accordance with SANS 5859 to surfaces

34	Ditto, but in bottom and sides of foundation trenches, holes	m2	11
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UNREINFORCED CONCRETE CAST AGAINST EXCAVATION

Carried Forward

R

Section No. 1
Bill No. 17
EXTERNAL WORKS

Brought Forward

R

Unreinforced Cement Concrete (25 Mpa/19mm) in

35 Bases

m3

2

CONCRETE SUNDRIES

Finishing top surfaces of concrete smooth with a wood float

36 Paving to falls, slabs, surface beds

m2

5

ROUGH FORMWORK (DEGREE OF ACCURACY II)

Rough formwork to sides

37 Edges, risers, ends and reveals not exceeding 300mm high or wide

m

6

Rough formwork to soffits

38 Vanity slabs, cupboard slabs, cover slabs, etc

m2

2

REINFORCEMENT

Fabric reinforcement

39 Type 193 fabric reinforcement in concrete surface beds, slabs, etc

m2

5

METALWORKS

CCA treated beam etc, supporting roof structure

40 Manhole cover

t

1.00

SOAKAWAY AND SEPTIC TANK

EARTHWORKS

SITE CLEARANCE ETC

Carried Forward

R

Section No. 1
Bill No. 17
EXTERNAL WORKS

Brought Forward			R
<u>Site clearance</u>			
41	Digging up and removing rubbish, debris, vegetation, hedges, shrubs and trees not exceeding 200mm girth, bush, etc	m2	108
<u>EXCAVATION, FILLING, ETC OTHER THAN BULK</u>			
<u>Excavation in earth not exceeding 2m deep</u>			
42	Trenches	m3	108
<u>Extra over bulk excavation in earth for excavation in</u>			
43	Soft rock	m3	11
44	Hard rock	m3	12
<u>Extra over all excavations for carting away</u>			
45	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor – free haul 10km	m3	60
<u>Risk of collapse of excavations</u>			
46	Sides of trench and hole excavations not exceeding 1,5m deep	m2	108
<u>Keeping excavations free of water</u>			
47	Keeping excavations free of all water other than subterranean water		Item
<u>Earth filling supplied by the contractor compacted to 93% Mod AASHTO density</u>			
48	Under floors, steps, pavings, etc	m3	66
49	19mm Stones and dump rock	m3	36
50	Biddum around stones	m2	84
<u>SOIL DRAINAGE</u>			
<u>uPVC pipes to SABS 967</u>			
51	110mm Pipes vertically or ramped to cleaning eyes etc (no excavation)	m	52
Carried Forward			R
Section No. 1			
Bill No. 17			
EXTERNAL WORKS			

Brought Forward

R

SANITARY PLUMBING

Extra over uPVC pipes for fittings

52	110mm Bend	No	12
53	110mm "GI Two-way" vent valve	m	4
54	5000l litre Roto tack	No	1

RETAINING WALL

55	Florawall Retaining Block Grey includes delivery	m2	30
56	Loffelstein wall or similar approved including bidum	m2	20
57	1 x 1 x 1m Gabion box complete with mesh	m3	12

Carried Forward to Summary of Section No. 1

Section No. 1
Bill No. 17
EXTERNAL WORKS

R

SECTION SUMMARY - Section A - Construction of New Staff Unit Type DD

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Section No. 1			R

Item
No

Quantity

Rate

Amount

BILL NO 1

ALTERATIONS AND DEMOLITIONS

MODEL PREAMBLES

The Model Preambles for Trades (latest edition) as published by the Association of South African Quantity Surveyors shall be deemed to be incorporated

SUPPLEMENTARY PREAMBLES

View site

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.

Explosives

No explosives whatsoever may be used in demolitions

Old Materials to be Carted Away

Old Materials from alterations except where described to be re-used or handed over, as well as rubbish, etc. must be regularly carted from the site and not be allowed to accumulate on or around the site. The contractor must allow for the removal of any non-biodegradable material to be carted away to an approved dumping site outside of the Kruger National Park

Existing Materials for re-use

Existing materials from alterations are to be re-used for new work and will be specifically described in the Architect's drawings

Carried Forward

R

Section No. 2
Bill No. 1
ALTERATIONS

Brought Forward

R

General

Any water supply pipes and other piping that may be met with 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 architect

Doors, fanlights, fittings, frames, linings, etc. which are to be re-used shall be thoroughly overhauled before refixing including taking off, easing and rehangng, cramping up, re-wedging as required and making good cramps, dowels, etc, and easing, oiling, adjusting and repairing ironmongery if 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

Where doors, windows, etc are described as taken out this shall be understood to include for removal of all beads, architraves, ironmongery, etc. Doors which are to be re-fixed are to be provided with new architraves (elsewhere measured)

Prices for taking out and removing doors and frames shall include for removing door stops, cabin hooks, etc and making good to match existing and cart away from site

Making good of finishes shall be deemed to include making good of the brick and concrete surfaces onto which the new finishes are applied, where necessary

All items described as "breaking up/taking down and removal" shall deem to include for carting away from site

TEMPORARY BARRIERS, SCREENS, ETC

Temporary barriers, screens, etc including removal

1	Temporary barrier formed of gum poles and shade netting 1.8m high.	m	85
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DEMOLITIONS, ETC

Demolition and removing

2	Single storey building with pitched roof 5 x 5m on plan and 3.5m high at eaves.	No	1
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Carried Forward

R

Section No. 2
Bill No. 1
ALTERATIONS

Brought Forward

R

REMOVAL OF EXISTING WORK

Breaking up and removing mass concrete n.e. 150mm thick

3	Surface beds, slabs, etc	m2	15
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Breaking up and removing reinforced concrete including cutting off and removing n.e. 150mm thick

4	Surface beds, slabs, etc	m2	15
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Breaking down and removing brickwork etc

5	Half brick wall	m2	4
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6	One brick wall	m2	22
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Taking up and removing or set aside paving, etc

7	60mm Thick brick or concrete paving	m2	23
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Taking out and removing doors, windows, etc from brickwork to be demolished

8	Timber single door and steel/wood frame 813 x 232mm high	No	8
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9	Timber double door and steel/wood frame 1511 x 232mm high	No	4
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10	Steel window not exceeding 2,5m2	m	3
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11	Steel window exceeding 2.5m2 and not exceeding 5m2	No	1
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Taking down and removing roofs, floors, panelling, ceilings, partitions, etc

12	Metal/fibre cement sheeting roof covering (purlins and roof structure remains)	m2	262
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13	150 - 300mm Thatch roof including timber lathes and mesh wire	m2	86
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14	Birdproofing and sealing of the eaves	m	76
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15	Roof trusses for sheeting with trusses spaced at maximum 1200mm centres and measured per sloping roof area	m2	132
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Carried Forward

R

Section No. 2
 Bill No. 1
 ALTERATIONS

Brought Forward			
16	Poles for thatch with trusses spaced at maximum 750mm centres and measured per sloping roof area	m2	86
17	50 x 65mm Structural roof timbers	m	349
18	38 x 114mm Structural roof timbers	m	44
19	15 x 225mm Fibre cement fascia's and barge boards	m	62
20	Fibre cement/gypsum board ceilings (brandering remains)	m2	113
21	Fibre cement/gypsum board ceilings and brandering	m2	113
22	Carefully remove guano and disinfect the roof trusses before installing new ceiling	m2	113
<u>Taking out and removing sundry joinery work</u>			
23	15 x 75mm Timber skirtings/cornices from brickwork	m	186
<u>Taking out and removing joinery fittings etc</u>			
24	Built-in cupboards including doors, frames, etc	m2	7
25	Worktops with legs and bearers	m2	13
26	Shelving not exceeding 3mm wide with brackets and bearers	m	34
27	Kitchen wall cupboards	m	15
28	Kitchen floor cupboards	m	8
<u>Taking up and removing vinyl floor coverings, carpeting, etc</u>			
29	Vinyl tile floor covering including preparing screed for new vinyl tile flooring	m2	54
30	Carpets including preparing screed for new carpets	m2	59
<u>Taking out and removing ironmongery</u>			
31	Butt hinges	No	12
32	Mortice locks	No	13
33	Curtain tracks or steel pelmets	m	14
Carried Forward			
Section No. 2 Bill No. 1 ALTERATIONS			

R

R

Brought Forward			
34	Hat and coat hooks	No	9
35	Toilet paper holders	No	2
36	Toilet rails/rings	No	4
	<u>Hacking up/off and removing granolithic, screeds, plaster, etc from concrete or brickwork and preparing surfaces for new screeds, plaster etc.</u>		
37	25mm Granolithic or screeds from floors	m2	113
38	Granolithic skirting 75mm high	m	76
39	Plaster from walls and columns	m2	56
	<u>Hacking up/off and removing ceramic tile floor and wall finishes including removing mortar bed or backing and preparing concrete or brick surfaces for new screed, plaster or tile finishes</u>		
40	Cement/ceramic/quarry or slate tiles to floors	m2	113
41	Cement/ceramic/quarry or slate tiles to walls	m2	66
42	Cement/ceramic/quarry or slate tile skirting 75mm high	m	126
	<u>Taking out and removing piping, sanitary fittings, etc including disconnecting piping from fittings and making good floor and wall finishes (making good tiling and paint work elsewhere)</u>		
43	1 x 1mm Gutters	m	76
44	75 x 75mm Down pipes	m	32
45	12-28mm Galvanized/copper steel piping including fittings and brackets.	m	9
46	32-5mm Galvanized/copper steel piping including fittings and brackets	m	12
47	50mm UP VC piping including fittings and brackets	m	25
48	110mm UP VC piping including fittings and brackets	m	15
49	Vitreous clay gulley not exceeding 1m deep including precast concrete catch pit	No	3
50	Vitreous china wash hand basin including taps	No	2

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Carried Forward

R

Section No. 2
 Bill No. 1
 ALTERATIONS

Brought Forward			R
51	Vitreous china water closet including cistern/flush pipe and angle regulating valve	No	3
52	Vitreous china urinal including cistern/flush pipe and angle regulating valve	No	1
53	Vitreous china bath including taps	No	1
54	Stainless steel sink including taps	No	1
55	200 Litre geyser including vacuum breakers, etc	No	1
<u>Rubble removal</u>			
56	Removal of rubble within 50km	m3	10
57	Removal of rubble exceeding 50km not exceeding 100km	m3	10
58	Removal of rubble exceeding 100km not exceeding 200km	m3	10
<u>Taking out and removing electrical piping, fittings, etc including disconnecting piping from fittings and making good floor and wall finishes (making good tiling and paint work elsewhere)</u>			
59	Distribution board including circuit breaker, etc	No	1
60	22mm Galvanized steel piping including fittings and brackets	m	35
61	Light fittings and fans	No	35
62	Plugs, shaver plugs and switches	No	27
63	Cassette air conditioners	No	2
<u>Taking out and removing glass and mirrors</u>			
64	Take off glass and prepare rebates to receive new	m2	8
65	Mirror 45 x 65mm high from wall	No	4
<u>Take down and remove fencing</u>			
66	Mesh fencing 1800mm high including bases	m	35
67	Timber fencing 1800mm high including bases	m	35
Carried Forward			R
Section No. 2			
Bill No. 1			
ALTERATIONS			

Brought Forward

R

MAKING GOOD OF FINISHES ETC

Making good brickwork

68	Making good brickwork at end of half brick wall	m	5
69	Making good brickwork at end of one brick wall	m	3
70	Making good brickwork to face of wall where half brick cross wall removed	m	6
71	Making good brickwork to face of wall where one brick cross wall removed	m	10

OPENINGS THROUGH EXISTING WALLS ETC

Breaking out for and forming openings through brick walls for new doors and frames including necessary precast concrete lintels and making good plaster on both sides and into reveals and with steel trowelled screed (new doors and frames and making good paint work elsewhere)

72	Opening 900 x 2100mm high through half brick wall	No	3
73	Opening 900 x 2100mm high through one brick wall	No	2

Breaking out for and forming openings through brick walls for new windows including necessary precast concrete lintels and making good plaster on both sides and into reveals and with sloping fibre cement sill on outside and flat fibre cement sill on inside (new windows and making good paint work elsewhere)

74	Opening for window 533 x 654mm high through half brick wall	No	2
75	Opening for window 533 x 654mm high through one brick wall	No	1
76	Opening for window 1220 x 949mm high through half brick wall	No	3
77	Opening for window 1220 x 949mm high through one brick wall	No	2

Carried Forward to Summary of Section No. 2

R

Section No. 2
 Bill No. 1
 ALTERATIONS

Item No		Quantity	Rate	Amount
<u>BILL NO 2</u>				
<u>ROOF COVERINGS</u>				
<u>PROFILED METAL SHEETING AND ACCESSORIES</u>				
<u>Fix existing or damaged roof sheetings</u>				
1	Clean existing roof sheeting as per instructions	m2	55	
2	Seal the leakages and repaint the roof sheeting	m2	55	
<u>THATCH</u>				
<u>SUPPLEMENTARY PREAMBLES</u>				
<u>Prices for all battens to include for treatment to cut ends with two coats "Timberlife CuGuard 20"</u>				
<u>150mm Thick thatch of hand cut grass of the hyparthenia species in lengths with a minimum of 1200mm laid in bundles of suitable size, compacted to a minimum density of 35kg/m/150mm thickness and fixed by means of suitable fixing rods interlaced through and over the bundles at not exceeding 600mm centres and secured with bitumen impregnated treated sisal rope or SABS approved nylon twine to and including eucalyptus battens CCA treated in accordance with SABS 457, varying in diameter from 30 to 40mm, spaced generally at maximum 250mm centres and at closer centres nearer to eaves nailed to roof structure and with and including 25mm thick spread layer to underside</u>				
3	Covering to general roof slopes to 45 degrees pitch including	m2	86	
4	Ridge capping 1200mm girth formed of 75mm thick 25MPa	m	15	
<u>RENOVATION AND REPAIRS TO EXISTING THATCH ROOFING TO 45 DEGREES PITCH</u>				
Carried Forward				R
Section No. 2 Bill No. 2 ROOF COVERINGS				

Brought Forward

R

All thatch to be hand cut grass of the hyparthenia species in lengths with a minimum of 1200mm long. All thatching debris to be carted off site to a dumping site within 10km of the works. Roof structure and battens (lathes) to remain in place.

5	Remove and dispose of existing "chicken wire" netting and replace with new "chicken wire" netting on thatch roofs including all necessary fixing wires and attachments	m2	95
6	New "chicken wire" netting to existing thatch roofs including all necessary fixing wires and attachments (only applicable if no wire netting had previously been placed)	m2	95
7	Clean, cut, patch and comb existing thatch roofs (existing thatching remains)	m2	86
8	Clean, cut, patch, comb and overlay existing thatch roofs with new 50mm thatch overlay including all thatching twine and necessary fixing rods(existing thatching remains)	m2	86
9	Remove existing thatching (150 – 250mm), dispose of debris and lay new 150mm thick thatching on existing roof structure including all thatching twine and necessary fixing rods (existing roof structure, battens and/or lathes remains)	m2	86
10	Remove and replace existing eucalyptus battens CCA treated in accordance with SABS 457, varying in diameter from 30 to 40mm, spaced generally at maximum 250mm with new when instructed	m	25
11	Allow for cutting back existing thached roof, to receive new roof extension (New roof extension elsewhere measured)	m2	25

ROOF AND WALL INSULATION

"Sisalation 410" housing grade glass fibre reinforced aluminium foil bonded insulation

12	50mm Insulation laid taut over rafters (at approximately 1200mm centres) and fixed concurrent with tiling battens, purlins, etc	m2	86
13	50mm Aerolite think pink Insulation	m2	86

Carried Forward

R

Section No. 2
Bill No. 2
ROOF COVERINGS

Brought Forward

Sisalation 420 heavy industrial grade aluminium foil based insulation

14 Insulation laid taut over rafters (at approximately 1000mm centres) and fixed concurrent with tiling battens, purlins, etc

m2

86

R

Carried Forward to Summary of Section No. 2

Section No. 2
Bill No. 2
ROOF COVERINGS

R

Item
No

Quantity

Rate

Amount

BILL NO 3

CARPENTRY AND JOINERY

SUPPLEMENTARY PREAMBLES

Particle board:

Particle board shall comply with the following specifications:

- a) SABS 1300 Particle board: exterior and flooring type
- b) SABS 1301 Particle board: interior type

Joinery:

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

Descriptions of hardwood joinery shall be deemed to include pelleting of bolt holes

Fixing

Items described as "nailed" shall be deemed to be fixed with hardened steel nails or shot pins to brickwork or concrete

Decorative laminate finish:

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

Carried Forward

R

Section No. 2
Bill No. 3
CARPENTRY AND JOINERY

Brought Forward

R

ROOFS ETC

Roof truss construction for metal roof sheeting

The following is applicable in respect of the roof construction:

Trusses to be prefabricated "Gangnail" trusses

All trusses are to be fabricated in a factory by approved specialists and designed by a registered professional Engineer and shall be in accordance with SABS 0160 and 0163

The SA Pine roof trusses shall be fabricated in a properly equipped factory by an approved specialist firm of Truss Fabrications using metal plate connectors

Rates are further to include for such site supervision as deemed necessary by the fabricator of the trusses to ensure that all the erection details have been complied with to his satisfaction and the issue of a certificate from the fabricator to that effect and include:

1. Detailed shop drawings indicating truss sizes, truss positions, bracings, details, etc. to be submitted for approval prior the commencement of any fabrication Item.
2. Design certificate indicating the licensed programme used, SABS specifications adhered to, general procedures and loadings adopted, sizes and grading of timber components, details, etc
3. 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 representative / agent

The trusses are to be spread at average 1200mm centres and are to be designed for:

- (1) 0.6mm Corrugated sheet iron roof sheeting on 50 x 76mm purlins at 1200mm centres
- (2) 6mm Fibre cement ceilings

The prices of the roof trusses are to include for the following:

- All roof trusses complete with toothed connections, etc
- All bearers, hangers bracings, etc
- All shoes and hangers to support trusses as necessary
- Detailed shop drawings as above
- Design certificate as above
- Erection guarantee certificate as above

Carried Forward

R

Section No. 2

Bill No. 3

CARPENTRY AND JOINERY

Brought Forward			R
	<u>Roof trusses with a pitch of approximately of 45° degrees</u>		
1	Complete roof construction including all rafters, ties, struts, ridge poles, rods, nuts, connector and end plates, etc (measured on slope)	m2	86
	Beams, etc supporting roof structure (only measurable when being replaced and not included in items 1 and 2 above)		
	The following is applicable in respect of bearers, beams, etc:		
	Beams to be gum poles in accordance with SABS 457-1994 and SABS 753-1994. All connections to be bolted together with 10mm threaded galvanised rods. All pole ends to have rounded "Gangnail" end plates. All rafters, ties, etc. to be CCA treated in accordance with SABS 1288-1994 and SABS 05-1994		
	Prices for all beams, etc. to include for treatment to cut ends with two coats "Timberlife CuGuard 20"		
	<u>Prices for all beams, etc. to include for sanding down and treatment with a 50/50 mixture of linseed oil and turpentine on all exposed surfaces after completion</u>		
2	20-50mm timber lathes	m	287
3	75-100mm Diameter beams in lengths exceeding 2,4 and not exceeding 3,9m, bolted	m	70
4	101-125mm Diameter beams in lengths exceeding 2,4 and not exceeding 3,9m, bolted	m	70
5	126-150mm Diameter beams in lengths exceeding 2,4 and not exceeding 3,9m, bolted	m	14
6	151-175mm Diameter beams in lengths exceeding 2,4 and not exceeding 3,9m, bolted	m	13
7	30-50mm lattice wall	m2	9
8	Apply two coats linseed oil on timber structure	m2	35
Carried Forward to Summary of Section No. 2			R
Section No. 2			
Bill No. 3			
CARPENTRY AND JOINERY			

Item No	<u>BILL NO 4</u>	Quantity	Rate	Amount
	<u>PAINTWORK</u>			
	<u>PREPARATORY WORK TO EXISTING WORK</u>			
	Previously painted plastered surfaces			
	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			
	Previously painted metal surfaces			
	Surfaces shall be thoroughly rubbed and cleaned down. Blistered or peeling paint shall be completely removed down to bare metal			
	Previously painted wood surfaces			
	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>PAINTWORK ETC TO PREVIOUSLY PAINTED WORK INCLUDING PREPARATION OF EXISTING SURFACES</u>			
	<u>ON FLOATED PLASTER</u>			
	<u>Two coats interior quality PVA emulsion paint on previously painted work in poor condition</u>			
1	On internal walls	m2	42	
	<u>Two coats exterior quality PVA emulsion paint on previously painted work in poor condition</u>			
2	On external walls	m2	80	
	<u>ON FIBRE-CEMENT</u>			
	<u>Two coats interior quality PVA emulsion paint on previously painted work in poor condition</u>			
3	On ceilings and cornices	m2	113	
	Carried Forward			R
	Section No. 2 Bill No. 4 PAINTING			

Brought Forward

R

Two coats exterior quality PVA emulsion paint on previously painted work in poor condition

4 On fascia's and barge boards m2 22

5 On sills m2 5

ON METAL

Two coats gloss enamel paint on steel in poor condition

6 On door frames m2 16

7 On windows (both sides measured over the full flat area) m2 32

ON WOOD

Two coats exterior quality PVA emulsion paint on work in poor condition

8 On roof timbers at gables and eaves m2 26

Two coats "Plascon Double Velvet" polyutherane velvet enamel paint on wood in poor condition

9 On doors m2 45

10 On skirtings not exceeding 300 mm girth m 33

Carried Forward to Summary of Section No. 2

R

Section No. 2
Bill No. 4
PAINTING

SECTION SUMMARY - Section B - Renovations to existing staff houses

Bill No		Page No	Amount
1	ALTERATIONS	53	-----
2	ROOF COVERINGS	56	-----
3	CARPENTRY AND JOINERY	59	-----
4	PAINTING	61	-----
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FINAL SUMMARY

**Section
No**

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No**

Amount

1 Section A - Construction of New Staff Unit Type DD

46

2 Section B - Renovations to existing staff houses

62

Sub Total

R

Preliminaries and General @ 10%

R

Sub Total

R

Tax @ 15%

R

Carried to Form of Tender

R