

Item No		Quantity	Rate	Amount
	<p><u>BILL NO 1</u></p> <p><u>EARTHWORKS (PROVISIONAL)</u></p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>Nature of ground</u></p> <p>Use "assumed to be" if no trial holes, soils investigations, etc have been carried out - discuss with engineer. Use "Trial holes indicate that" where the ground has been investigated by means of trial holes</p> <p><u>Nature of ground</u></p> <p>A soils investigation has been carried out on site by the engineer and the report is annexed to these bills of quantities. Descriptions of excavations shall be deemed to include all ground conditions classifiable as "earth" described in the above report and where conditions of a more difficult character are 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> <p><u>DEMOLITIONS ETC</u></p> <p><u>Demolishing and removing</u></p>			
1	<p>Single storey building with pitched roof 6.4 x 6.25m on plan and 2.4m high at eaves comprising concrete surface bed, 140mm external walls, 90 internal walls and IBR roof covering on steel purlins</p>	No	1	
	<p><u>EXCAVATION, FILLING, ETC</u></p> <p><u>EXCAVATION, FILLING, ETC OTHER THAN BULK</u></p> <p><u>Excavation in earth not exceeding 2m deep</u></p>			
2	<p>Ground beams trenches</p>	m3	3	
	Carried forward			R
	<p>Section No. 1 BUILDINGS Bill No. 1 EARTHWORKS</p>			

Brought forward				R
<u>Extra over all excavations for carting away</u>				
3	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor	m3	3	
<u>Risk of collapse of excavations</u>				
4	Sides of trench excavations not exceeding 1,5m deep	m2	25	
<u>Keeping excavations free of water</u>				
5	Keeping excavations free of all water other than subterranean water		Item	
<u>Earth filling supplied (G5) by the contractor compacted to 93% Mod AASHTO density</u>				
6	Over site	m3	13	
<u>Prescribed density tests on filling</u>				
7	"Modified AASHTO Density" test	No	2	
<u>SOIL POISONING</u>				
<u>Soil insecticide</u>				
8	Under floors etc including forming and poisoning shallow furrows against foundation walls etc, filling in furrows and ramming	m2	78	
9	To bottoms and sides of trenches etc	m2	34	
Carried Forward to Sectional Summary: 1				R
Section No. 1 BUILDINGS Bill No. 1 EARTHWORKS				

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><u>Cost of tests</u></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 architect. The testing shall be undertaken by an independent firm or institution nominated by the contractor to the approval of the architect. (Test cubes are measured separately)</p> <p>Breeze concrete shall consist of twelve parts clean dry furnace ash, free from coal or other foreign matter, to one part cement (12:1), the ash graded up to particles which will pass a 16,5mm ring from a minimum which fails to pass a 4,75mm mesh. The finer materials from the screening are to be first mixed with the cement into a mortar and the ash added afterwards and thoroughly incorporated</p> <p><u>Formwork</u></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 etc shall be deemed to be slabs not exceeding 250mm thick unless otherwise described</p> <p style="text-align: right;">Carried forward</p> <p>Section No. 1 BUILDINGS Bill No. 2 CONCRETE, FORMWORK AND REINFORCEMENT</p>		R	

	Brought forward			R
	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"			
	<u>UNREINFORCED CONCRETE</u>			
	<u>UNREINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u>			
	<u>15MPa/19mm concrete</u>			
1	Aprons cast in panels	m3	2	
	<u>REINFORCED CONCRETE</u>			
	<u>REINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u>			
	<u>25MPa/19mm concrete</u>			
2	Surface Bed including ground beams (raft foundation)	m3	7	
	<u>TEST BLOCKS</u>			
3	Making and testing 150 x 150 x 150mm concrete strength test cube (Provisional)	No	1	
	<u>CONCRETE SUNDRIES</u>			
	<u>Finishing top surfaces of concrete smooth with a wooden float</u>			
4	Apron	m2	30	
	<u>Finishing top surfaces of concrete smooth with a power float</u>			
5	Surface beds, slabs, etc	m2	40	
	<u>SMOOTH FORMWORK (DEGREE OF ACCURACY I)</u>			
	Carried forward			R
	Section No. 1 BUILDINGS Bill No. 2 CONCRETE, FORMWORK AND REINFORCEMENT			

	Brought forward			R	
	<u>Smooth formwork to sides</u>				
6	Edges, risers, ends and reveals not exceeding 300mm high or wide	m	33		
	<u>MOVEMENT JOINTS ETC</u>				
	<u>Saw cut joints</u>				
7	10 x 10mm Saw cut joints in top of concrete	m	25		
	<u>REINFORCEMENT</u>				
	<u>REINFORCEMENT (PROVISIONAL)</u>				
	<u>Mild steel reinforcement to structural concrete work</u>				
8	12mm Diameter bars	t	0.14		
	<u>Fabric reinforcement</u>				
9	Type 193 fabric reinforcement in concrete surface beds, slabs, etc	m2	40		
	Carried Forward to Sectional Summary: 1			R	
	Section No. 1				
	BUILDINGS				
	Bill No. 2				
	CONCRETE, FORMWORK AND REINFORCEMENT				

Item No		Quantity	Rate	Amount
	<p><u>BILL NO 3</u></p> <p><u>MASONRY</u></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>Walls in two skins described as "bagged and sealed" shall be deemed to include having the outer face of the inner skin bagged with 1:6 cement and sand mixture and sealed with two coats "Brixéal" bitumen emulsion waterproofing coating.</p> <p><u>User note:</u></p> <p>The above preamble generally applies for works in hot and humid coastal areas</p> <p><u>Face bricks</u></p> <p>Bricks shall be ordered timeously to obtain uniformity in size and colour</p> <p><u>Bagged and sealed walls</u></p> <p>Walls in two skins described as " bagged and sealed" shall be deemed to include having the outer face of the inner skin bagged with 6:1 cement and sand mixture and sealed with two coats bitumen waterproofing coating</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 style="text-align: right;">Carried forward</p> <p>Section No. 1 BUILDINGS Bill No. 3 MASONRY</p>		R	

Brought forward			R
<u>SUPERSTRUCTURE</u>			
<u>Brickwork of Diamond maxi bricks (14 MPa nominal compressive strength) in class I mortar</u>			
1	140mm brick walls	m2	86
2	140mm brick walls in beamfilling	m2	4
<u>Brickwork reinforcement</u>			
3	75mm Wide reinforcement built in horizontally	m	337
<u>Galvanised wire ties, etc</u>			
4	4mm diameter roof tie, 2m girth bend double with one end built into brickwork and the other end fixed to timber	No	14
Carried Forward to Sectional Summary: 1			R
Section No. 1 BUILDINGS Bill No. 3 MASONRY			

Item No		Quantity	Rate	Amount
	<p><u>BILL NO 4</u></p> <p><u>WATERPROOFING</u></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>DAMP-PROOFING OF WALLS AND FLOORS</u></p> <p><u>One layer of 375 micron "Consol Plastics Brikgrip DPC" embossed damp proof course</u></p>			
1	In walls	m2	5	
	<p><u>One layer of 250 micron "Consol Plastics Gunplas USB Green" waterproof sheeting sealed at laps with "Gunplas Pressure Sensitive Tape"</u></p>			
2	Under surface beds	m2	74	
	<p>Carried Forward to Sectional Summary: 1</p> <p>Section No. 1 BUILDINGS Bill No. 4 WATERPROOFING</p>		R	

Item No	Quantity	Rate	Amount
<p><u>BILL NO 6</u></p> <p><u>CARPENTRY AND JOINERY</u></p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>Particle board:</u></p> <p>Particle board shall comply with the following specifications:</p> <p>a) SABS 1300 Particle board: exterior and flooring type</p> <p>b) SABS 1301 Particle board: interior type</p> <p><u>Joinery:</u></p> <p>Descriptions of frames shall be deemed to include frames, transomes, mullions, rails, etc</p> <p>Descriptions of hardwood joinery shall be deemed to include pelleting of bolt holes</p> <p><u>Fixing</u></p> <p>Items described as "nailed" shall be deemed to be fixed with hardened steel nails or shot pins to brickwork or concrete</p> <p><u>Decorative laminate finish:</u></p> <p>Laminate finish shall be glued under pressure. Edge strips shall be butt jointed at junctions with adjacent similar finish</p> <p><u>ROOFS ETC</u></p> <p><u>Plate nailed timber roof truss construction</u></p> <p>The following is applicable in respect of roof trusses:</p> <p>Trusses are at maximum 900mm centres Roof covering is on purlins/battens Ceilings are on 38 x 38mm brandering The references given in the descriptions are to the respective types of trusses detailed on the architect's drawings accompanying these bills of quantities for tender purposes The dimensions in the descriptions of the trusses are nominal and actual measurements are to be obtained from the architect and/or the site before design or fabrication commences</p> <p style="text-align: right;">Carried forward</p> <p>Section No. 1 BUILDINGS Bill No. 6 CARPENTRY AND JOINERY</p>		<p style="text-align: right;">R</p>	

		Brought forward		R	
		<u>Sawn softwood</u>			
1	38 x 114mm Wall plates	m	14		
2	50 x 76mm Purlins	m	41		
3	Truss type 114 x 38 x 1128mm high overall	No	7		
		<u>EAVES, VERGES, ETC</u>			
		<u>Fibre-cement fascia and barge boards</u>			
4	19 x 200mm Fascias and barge boards including galvanised steel H-profile jointing strips	m	27		
		<u>DOORS ETC</u>			
		<u>Wrought meranti doors hung to cliscoeu steel door frames</u>			
5	813 x 2032 mm high 2/4 panel door	No	2		
		<u>Hollow core flush doors with standard hardboard covering on both sides hung to cliscoeu steel door frames</u>			
6	40mm Door 813 x 2032mm high	No	3		
		Carried Forward to Sectional Summary: 1		R	
		Section No. 1			
		BUILDINGS			
		Bill No. 6			
		CARPENTRY AND JOINERY			

Item No		Quantity	Rate	Amount
	<p><u>BILL NO 7</u></p> <p><u>CEILING, PARTITIONS AND ACCESS FLOORING</u></p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>Descriptions:</u></p> <p><u>Fixing:</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><u>Ceilings</u></p> <p>Unless otherwise described ceilings shall be deemed to be horizontal</p> <p><u>NAILED UP CEILINGS</u></p> <p><u>"Rhino" gypsum plasterboard</u></p>			
1	Ceilings including 38 x 38mm sawn softwood brander at 450mm centres	m2	35	
	<p><u>6mm "Everite" fibre-cement boards with 6 x 19mm wrot softwood cover strips over joints</u></p>			
2	Extra over ceiling for 600 x 600mm trap door of 32 x 44mm wrought softwood rebated framing with one 38 x 38mm sawn softwood cross brander covered with ceiling board and fitted flush in opening	No	1	
	<p><u>"Rhino" gypsum plasterboard cornices</u></p>			
3	75mm Coved cornices	m	51	
	Carried forward			R
	<p>Section No. 1 BUILDINGS Bill No. 7 CEILING, PARTITIONS AND ACCESS FLOORING</p>			

	Brought forward			R	
	<u>"Aerolite" insulation</u>				
4	40mm Insulation lapped along all edges and laid on top of brandering between roof timbers etc	m2	40		
	Carried Forward to Sectional Summary: 1			R	
	Section No. 1 BUILDINGS Bill No. 7 CEILINGS, PARTITIONS AND ACCESS FLOORING				

Item No		Quantity	Rate	Amount
	<p><u>BILL NO 8</u></p> <p><u>IRONMONGERY</u></p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>Finishes to ironmongery</u></p> <p>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</p> <p><u>LOCKS</u></p> <p><u>"EN-SUITE" LOCKS</u></p> <p>"Union"</p> <p>The following locks are to be suitable for master and grand master key operation</p>			
1	Mortice two lever lockset with handles	No	3	
2	Mortice three lever lockset with handles	No	2	
	<p style="text-align: right;">Carried Forward to Sectional Summary: 1</p> <p>Section No. 1 BUILDINGS Bill No. 8 IRONMONGERY</p>			R

Item No		Quantity	Rate	Amount
	<p><u>BILLNO 9</u></p> <p><u>METALWORK</u></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> <p><u>PRESSED STEEL DOOR FRAMES</u></p> <p><u>1,2mm Rebated frames suitable for 140mm brick walls</u></p>			
1	Cliscoeu Frame for door 813 x 2032mm high	No	5	
	<p><u>STEEL WINDOWS, DOORS, ETC</u></p> <p><u>Standard residential windows</u></p>			
2	1.3mm Thick Cliscoeu window as C2H (1022 X 949mm)	No	3	
3	1.3mm Thick Cliscoeu window as NE1 (533 x 654mm)	No	1	
	<p>Carried Forward to Sectional Summary: 1</p> <p>Section No. 1 BUILDINGS Bill No. 9 METALWORK</p>		R	

Item No	<u>BILL NO 10</u>	Quantity	Rate	Amount
	<u>PLASTERING</u>			
	<u>CEMCRETE OR APPROVED PRODUCT</u>			
	<u>Cemcrete or any approved waterproofing agent in colour</u>			
1	On external walls	m2	62	
	<u>INTERNAL PLASTER</u>			
	<u>Cement plaster on brickwork</u>			
2	On walls	m2	111	
3	On narrow widths	m2	12	
	Carried Forward to Sectional Summary: 1		R	
	Section No. 1 BUILDINGS Bill No. 10 PLASTERING			

Item No	BILL NO 11	Quantity	Rate	Amount
	TILING			
	SUPPLEMENTARY PREAMBLES			
	<u>Descriptions</u>			
	Unless described as "fixed with adhesive to plaster (plaster elsewhere)" descriptions of tiling on brick or concrete walls, columns, etc shall be deemed to include 1:4 cement plaster backing and descriptions of tiling on concrete floors etc shall be deemed to include 1:3 plaster bedding			
	WALL TILING			
	<u>152 x 152 x 5mm White glazed ceramic tiles (PC R80/m2) fixed with adhesive to plaster (plaster elsewhere) and flush pointed with tinted grout</u>			
1	On walls	m2	1	
2	On walls in isolated panels, splashbacks, etc	m2	1	
	Carried Forward to Sectional Summary: 1		R	
	Section No. 1 BUILDINGS Bill No. 11 TILING			

Item No	<u>BILL NO 12</u>	Quantity	Rate	Amount
	<u>GLAZING</u>			
	<u>GLAZING TO STEEL WITH PUTTY</u>			
	<u>4 mm Clear float glass</u>			
1	Panes not exceeding 0.1m2	m2	3	
	<u>4mm obscure glass</u>			
2	Panes not exceeding 0,1 m2	m2	1	
	Carried Forward to Sectional Summary: 1		R	
	Section No. 1 BUILDINGS Bill No. 12 GLAZING			

Item No		Quantity	Rate	Amount
	<p><u>BILL NO 13</u></p> <p><u>PAINTWORK</u></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>Previously painted metal surfaces</u></p> <p>Surfaces shall be thoroughly rubbed and cleaned down. Blistered or peeling paint shall be completely removed down to bare metal</p> <p><u>Previously painted wood surfaces</u></p> <p>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</p> <p><u>PAINTWORK ETC TO NEW WORK</u></p> <p><u>ON INTERNAL FLOATED PLASTER</u></p> <p><u>One coat alkali resistant primer and two coats low odour premium quality highly washable and stain resistant acrylic emulsion paint for interior use</u></p>			
1	On internal walls	m2	111	
	<p><u>ON PLASTER BOARD</u></p> <p><u>One coat alkali resistant primer and two coats low odour premium quality highly washable and stain resistant acrylic emulsion paint for interior use</u></p>			
2	On ceilings and cornices	m2	39	
	<p><u>ON FIBRE-CEMENT</u></p>			
	Carried forward			R
	<p>Section No. 1 BUILDINGS Bill No. 13 PAINTWORK</p>			

	Brought forward			R	
	<u>One coat alkali resistant primer and two coats low odour premium quality highly washable and stain resistant acrylic emulsion paint for interior use</u>				
3	On fascias and barge boards	m2	12		
	<u>ON METAL</u>				
	<u>One coat alkyd enamel paint</u>				
4	On door frames	m2	3		
5	On window frames	m2	8		
	<u>ON WOOD</u>				
	<u>Two coats wood varnish</u>				
6	On doors	m2	7		
	<u>One coat interior quality PVA emulsion paint on work in good condition</u>				
7	On doors	m2	10		
	Carried Forward to Sectional Summary: 1			R	
	Section No. 1 BUILDINGS Bill No. 13 PAINTWORK				

Item No		Quantity	Rate	Amount
	<u>BILL NO 14</u>			
	<u>PROVISIONAL SUM</u>			
	<u>ELECTRICAL INSTALLATION</u>			
1	Provide the sum of R 6500 (Six Thousand Five Hundred rand) for protection of electrical meter box during construction and install to new building including installing electrical wiring, lights, plugs, conduits, etc	Item		
	<u>ACCOMODATION OF BENEFICIARIES</u>			
2	Provide the sum of R 4000.00 (Four Thousand rand) for accomodation of beneficiaries	Item		
	<u>PLUMBING</u>			
3	Provide the sum of R 8500 (Eight Thousand Five Hundred rand) for internal plumbing, including sanitary wares, connection, etc	Item		
	<u>CERTIFICATION OF COMPLETED HOUSE</u>			
4	Provide the sum of R1500 (One Thousand Five Hundred rand) for certification of the completed unit by a competent person	Item		
	Carried Forward to Sectional Summary: 1		R	
	Section No. 1 BUILDINGS Bill No. 14 PROVISIONAL SUMS			

Bill No	Section No. 1 BUILDINGS <u>SECTION SUMMARY - BUILDINGS</u>	Page No	Amount
1	EARTHWORKS	-2-	
2	CONCRETE, FORMWORK AND REINFORCEMENT	-5-	
3	MASONRY	-7-	
4	WATERPROOFING	-8-	
5	ROOF COVERING	-9-	
6	CARPENTRY AND JOINERY	-11-	
7	CEILINGS, PARTITIONS AND ACCESS FLOORING	-13-	
8	IRONMONGERY	-14-	
9	METALWORK	-15-	
10	PLASTERING	-16-	
11	TILING	-17-	
12	GLAZING	-18-	
13	PAINTWORK	-20-	
14	PROVISIONAL SUMS	-21-	
	Carried to Final Summary		R
	Section No. 1 BUILDINGS		

Section No	<u>FINAL SUMMARY</u>	Page No	Amount
1	BUILDINGS	-22-	
	SUB TOTAL		R
	Carried to Form of Tender		R