

BUILDING WORK

Proposed 40 m² Unit in Emzinyathi, Inanda

BILL OF QUANTITIES

ITEM	DESCRIPTION	UNIT	QNTY	RATE	AMOUNT
	<u>Bill No.1</u> <u>EARTHWORKS</u>				
	<u>SITE CLEARANCE, ETC.</u>				
1	Digging up and removing top soil including boulders, rubbish, debris, vegetation, hedges, scrubs and trees not exceeding 200mm girth, bush, etc.	m2	60		
	<u>EXCAVATION, FILLING AND ACHIEVING LEVEL PLATFORM</u>				
	<u>Excavation in earth not exceeding 2m deep</u>				
2	To reduce levels under surface beds	m3	2		
3	Trenches	m3	2		
	<u>Extra over trench and hole excavations in earth for excavation in</u>				
4	Soft rock	m3	1		
5	Hard rock	m3	1		
	<u>Extra over all excavations for carting away</u>				
6	Surplus material from excavations and / or stock piles on site to a dumping site to be located by contractor	m3	1		
	Carried forward				

ITEM	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	Brought forward				
	<u>Earth filling obtained from the excavations and/or prescribed stock piles on site compacted to 93% Mod AASHTO density</u>				
7	Backfilling to trenches, holes, etc.	m3	2		
8	Under solid floors	m3	6		
	<u>SOIL POISONING</u>				
	<u>Soil insecticide with approved insecticide certificate</u>				
9	Under solid floors	m2	40		
	Carried To Section Summary				

BILL OF QUANTITIES

ITEM	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	Bill No.2				
	<u>CONCRETE</u>				
	<u>REINFORCED CONCRETE</u>				
	<u>20MPa/19mm Concrete</u>				
1	Surface beds cast on waterproofing	m3	6		
	<u>UNREINFORCED CONCRETE</u>				
	<u>10MPa/19mm concrete in</u>				
2	Apron slabs cast in panels including for formwork to edges not exceeding 150mm high or wide	m3	5		
	<u>Finishing top surface of concrete smooth with a power float</u>				
3	Surface beds, slabs, etc	m2	40		
	<u>TEST BLOCKS</u>				
3	Making and testing of 150 x 150 x 150mm blocks to 20mpa strength though an approved testing facility	no	3		
	Carried To Section Summary				

BILL OF QUANTITIES

ITEM	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	Bill No.3 REINFORCEMENT (PROVISIONAL)				
	Mild steel reinforcement to structural concrete work				
1	Reinforcing Steel 4Y12 - 6.8m	kg	68		
2	Reinforcing Steel R08	Kg	60		
3	Reinforcing Steel 2Y12	kg	76		
	Fabric reinforcement				
4	Ref. 193 mesh in slabs	m2	40		
Carried To Section Summary					

BILL OF QUANTITIES

ITEM	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	Bill No.4				
	<u>MASONRY</u>				
	<u>BLOCKWORK IN SUPERSTRUCTURE(PROVISIONAL)</u>				
	<u>All Blocks to be min 3.5Mpa</u>				
	<u>Blockwork in "Big Max" cement blocks in Class II mortar, size 390 x 140 x 150mm:</u>				
1	External block walls M140	m2	72		
	<u>Blockwork in "Big Max" cement blocks in Class II mortar, size 390 x 90 x 150mm:</u>				
2	Internal block walls M90	m2	13		
	<u>Blockwork in "Big Max" cement blocks in Class II mortar, size 390 x 140 x 150mm:</u>				
3	Internal block walls M140	m2	14		
4	Block beam filling	m2	3		
	<u>Brickwork reinforcement</u>				
5	75mm Wide reinforcement built in horizontally.	m	80		
6	110mm Wide reinforcement built in horizontally.	m	160		
	<u>BLOCKWORK SUNDRIES</u>				
	<u>Prestressed fabricated lintels including necessary temporary supports:</u>				
7	Precast concrete lintel 0.9m	No	1		
8	Precast concrete lintel 1.2m	No	5		
9	Precast concrete lintel 1.5m	No	4		
	<u>Galvanised hoop iron cramps, ties, etc:</u>				
10	Air Vents plastic 230 x 150mm (Brown External)	No	6		
11	Air Vents plastic 230 x 150mm (White Internal)	No	6		
	Carried To Section Summary				

BILL OF QUANTITIES

ITEM	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	<p>Bill No.5 <u>WATERPROOFING</u></p> <p><u>DAMP PROOFING OF WALLS AND FLOORS</u></p> <p><u>One layer of 375 micron "Consol Plastics Brickgrip DPC" embossed damp proof course</u></p>				
1	Below walls	m2	10		
2	Below window sills	m2	2		
	<p><u>One layer of 250 micron USB green DPC including over laps</u></p>				
3	Under surface beds	m2	50		
	Carried To Section Summary				

BILL OF QUANTITIES

ITEM	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
1	<p>Bill No.6 <u>ROOF COVERINGS</u></p> <p><u>CONCRETE ROOF TILES AND ACCESSORIES</u></p> <p>Roof trusses to be manufactured in accordance with SABS 0163: Code of Practice for the Design of Timber Structures and Engineers Certificate to be provided to the client.</p> <p><u>Concrete tiles nailed with non-corrosive nails and/or fixed with suitable non-corrosive clips as required to and including 38 x 38mm sawn softwood battens at 300mm centres, over and including an underlay of 250 micron polyethelene sheeting in accordance with SANS 952 Type E fixed to rafters under battens with minimum laps of 150mm ETC</u></p> <p>Roof construction to double pitched roof supplied and erected complete in position with individual members sizes not less than: Bracing, 38 x 114mm Tie Beam, 38 x 114mm Rafter, 38 x 114mm Wall Plate, 38 x 50mm Battens including accessories: etc</p> <p>Roof covering with pitch not exceeding 25 degrees. (Roof measured Complete).</p>	m2	55		
Carried To Section Summary					

BILL OF QUANTITIES

ITEM	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	Bill No.7 <u>CARPENTRY & JOINERY</u>				
	DOORS, ETC.				
	<u>40mm Frame ledged, braced and batten door, hung to steel frames (elsewhere measured): (External)</u>				
1	Single door, size 813 x 2032mm high.	No	2		
	<u>40mm "Hardboard" hollow core flush panel door hung to steel frames (elsewhere measured): (Internal)</u>				
2	Single door, size 813 x 2032mm high.	No	3		
	<u>FIBRE-CEMENT BOARD SURFACES</u>				
3	Fascias and barge boards not exceeding 300mm girth	m	26		
	Carried To Section Summary				

BILL OF QUANTITIES

ITEM	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	<p>Bill No.8 <u>CEILINGS, PARTITIONS, ACCESS FLOORING</u></p> <p><u>CEILING CONSTRUCTION, CORNICES, ETC</u></p> <p><u>Sawn softwood</u></p> <p>Ceilings including 38 x 38mm brandering at 90deg to trusses at maximum centres of 400mm by 32mm long galvanised nails.</p> <p><u>Gypsum</u></p> <p>19 x 76mm Cornices nailed</p> <p><u>NAILED UP AND SCREWED UP CEILINGS</u></p> <p><u>6mm "Everite Nutec" fibre-cement boards with H-profile primed steel jointing cover strips over joints</u></p> <p>Extra over ceiling for opening for 610 x 610mm trap door of 50 x 76mm wrought softwood rebated framing with one 38 x 38mm sawn softwood cross brander covered with ceiling board and fitted flush in opening</p> <p style="text-align: right;">Carried To Section Summary</p>				
1		m2	40		
2		m	50		
3		No	1		

BILL OF QUANTITIES

ITEM	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	<p><u>Bill No.9</u> <u>IRONMONGERY</u></p> <p><u>IRONMONGERY FIXED TO DOORS, ETC.</u></p> <p><u>LOCKS</u></p>				
1	Three lever "CZ 69424955" mortice lockset complete with lockset and door furniture.	No	2		
2	Two lever "CZ 69424955" mortice lockset complete with lockset and door furniture.	No	3		
	Carried To Section Summary				

BILL OF QUANTITIES

ITEM	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	<p>Bill No.10 <u>METALWORK</u></p> <p><u>SUNDRY STEELWORK</u></p> <p><u>1mm Thick "Durowin" rebated frames suitable for 140mm wide block walls, with and including ironmongery and red oxide paint finish:</u></p>				
1	Frame for door 813 x 2032mm high.	No	3		
	<p><u>1mm Thick "Durowin" rebated frames suitable for 90mm wide block walls, with and including ironmongery and red oxide paint finish:</u></p>				
2	Frame for door 813 x 2032mm high.	No	2		
	<p><u>STEEL WINDOWS, DOORS, ETC.</u></p> <p><u>1mm Thick "Durowin Type F7" residential windows complete with ironmongery, paint, etc. and fixing to brickwork or concrete:</u></p>				
3	Window, type NE1, size 533 x 654mm high.	No	1		
4	Window, type NC4, size 1511 x 949mm high.	No	2		
5	Window, type ND54F, size 1511 x 1245mm high.	No	2		
	Carried To Section Summary				

BILL OF QUANTITIES

ITEM	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	<p><u>Bill No. 11</u> <u>PLASTERING</u></p> <p><u>EXTERNAL PLASTER</u></p> <p><u>One coat "Cemcrete-Stipplecoat" waterproof cement based textured finish to approved colour, prepared and applied in strict accordance with the manufacturer's instruction</u></p>				
1	On walls	m2	72		
2	On walls in narrow widths	m2	2		
	<p><u>INTERNAL PLASTER</u></p>				
3	On walls	m2	182		
4	On walls in narrow widths	m2	5		
	<p><u>SCREEDS</u></p> <p><u>Screeds on concrete with smooth finish to receive polish</u></p>				
5	10mm Thick on floors	m2	40		
	Carried To Section Summary				

BILL OF QUANTITIES

ITEM	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	Bill No.12 <u>PLUMBING AND DRAINAGE (PROVISIONAL)</u>				
	<u>SANITARY FITTINGS</u>				
1	1450x 500mm Kwikot stainless steel classique drop-in sink and drainer unit including plumbing and drainage, With supporting two doors cabinet and associated carpentry, installed complete.	Item	1		
	<u>RAINWATER DISPOSAL</u>				
	<u>uPVC gutters and rainwater pipes:</u>				
2	Half-round roof gutters	m	15		
3	Pvc bracket fascia	No	8		
4	Rainwater downpipes	m	10		
5	Extra over gutter for stopped end	No	4		
6	Extra over gutter for angle	No	4		
7	Extra over gutter for outlet for pipe	No	2		
8	Extra over rainwater pipe for bend	No	2		
9	Extra over rainwater pipe for shoe	No	2		
	<u>WATER TANKS, ETC</u>				
10	2500L polycon aproved Jojo tank embedded in blocks stand including access inlet hole, Brass water tap and suitable two wires encased in hose pipe fixed fixed to hooks cast into concrete	No	1		
	Carried To Section Summary				

BILL OF QUANTITIES

ITEM	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	<u>Bill No.13</u> <u>PAINTWORK</u>				
	<u>ON FLOATED PLASTER</u>				
	<u>Prepare and apply one primer and two coats interior quality emulsion paint</u>				
1	On internal walls	m2	182		
2	On External walls	m2	72		
	<u>ON FIBRE-CEMENT</u>				
3	On fascias and bargeboards	m	15		
	<u>ON WOOD</u>				
	<u>One coat wood primer, one undercoat and two coats high gloss enamel paint</u>				
4	On doors	m2	16		
	<u>Three coats polyurethane semi-gloss varnish</u>				
5	On doors	m2	16		
	Carried To Section Summary				

BILL OF QUANTITIES

ITEM	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	<p><u>Bill No.14</u> <u>GLAZING</u></p> <p><u>PREAMBLES</u></p> <p>For Preambles refer to "Department of Public Works: Specification of Materials and Methods to be used - PW371"</p> <p><u>GLAZING TO STEEL WITH PUTTY</u></p> <p><u>4mm Clear float glass</u></p> <p>1 Panes not exceeding 0.1m2</p> <p>2 Panes exceeding 0.1m2 and not exceeding 5,0m2</p> <p><u>4mm Obscure glass</u></p> <p>3 Panes not exceeding 0.1m2</p> <p><u>6mm Normal strength (NS) clear laminated safety glass</u></p> <p style="text-align: right;">Carried To Section Summary</p>				

BILL OF QUANTITIES

ITEM	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
1	<p>Bill No.15 <u>PROVISIONAL SUMS</u></p> <p>All provisional sums cover supply of material and equipment and installation where applicable by firms of specialists. Provisional sums are nett and do not include builder's discount but the tenderer may allow under "profit" items any profit he considers necessary.</p> <p>The tenderer is referred to Clause B7.3 in the "Preliminaries" bill for the definitions and adjustment of "attendance".</p> <p><u>SELECTED CONTRACTORS</u></p> <p>THE FOLLOWING PROVISIONAL SUMS ARE FOR WORK TO BE EXECUTED BY SELECTED SUBCONTRACTORS</p> <p>The following Provisional Sums are for specialists work to be executed by a Selected Sub-contractor who upon appointment in terms of the Conditions of Contract shall be deemed to be a Domestic Sub-contractor to the Contractor.</p> <p><u>ELECTRICAL INSTALLATION</u></p> <p><u>Supply and installation of electrical work:</u></p> <p>Allow provisional sum of R15,000.00 (fifteen thousand rand) for electrical installation</p> <p>Provide and install electrical DB including electrical wiring, lights, plugs, conduits, and issuing of COC etc</p>	Psum	1	R 15 000,00	R 15 000,00
	Carried forward				

ITEM	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	Brought forward				
	<u>Ablution facilities</u>				
	<u>Supply and installation of VIP Toilet work:</u>				
	<u>(Ten thousand rand) for VIP Toilet</u>				
2	Supply and install Conloo precast ventilation improved (VIP toilet) mark 4 type toilet with concrete roof, precast concrete pit, excavation to a depth of not less than 2m from ground level.	Psum	1	R 10 000,00	R 10 000,00
	Carried To Section Summary				

BILL OF QUANTITIES

BILL	DESCRIPTION	PAGE			AMOUNT
	<u>SECTION 1 - SUMMARY</u>				
1	Earthworks	2			
2	Concrete	3			
3	Reinforcement	4			
4	Masonry	5			
5	Waterproofing	6			
6	Roofcoverings	7			
7	Carpentry & Joinery	8			
8	Ceilings	9			
9	Ironmongery	10			
10	Metalwork	11			
11	Plastering	12			
12	Plumbing	13			
13	Paintworks	14			
14	Glazing	15			
15	Provisional Sum	17			
	TOTAL TO FINAL SUMMARY				

BILL OF QUANTITIES

ITEM	DESCRIPTION	PAGE			AMOUNT
	<u>FINAL SUMMARY</u>				
	Building Work to New House	1			
	Subtotal				
	ADD 15%: VAT				
	TOTAL AMOUNT				