

PROPOSED POLICE HOUSING UNIT

BUILDER'S WORK

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT (KSHS)
	ELEMENT NO 1:SUBSTRUCTURE (ALL PROVISIONAL)				
	<u>Site Clearance</u>				
A	Clear the site of all bushes and small trees n.e 600mm girth including grabbing up roots and burn the arising debris	SM	172		
	<u>Excavation and earthworks</u>				
B	Strip the top soil to remove vegetable soil average depth 150mm deep and remove from site as directed	SM	172		
C	Excavate to reduced levels commencing from stripped level average 150 mm	SM	172		
D	Excavate to foundation trenches starting from reduced levels depth not exceeding 1.5m	CM	71		
E	Ditto but to column bases	CM	6		
E	Load and cart away excavated material from site as directed	CM	18		
F	Return fill and rum selected excavated material	CM	59		
	<u>Fillings</u>				
I	400mm thick well compacted hardcore in stages of 150mm thick to engineer's satisfaction	SM	115		
J	300mm thick murrum blinding to well compacted hardcore	SM	172		
	<u>Anti-termite treatment</u>				
A	Treatment of murrum surfaces with insecticide make of gladiator to architect's approval	SM	64		
TOTAL CARRIED TO COLLECTION					

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT (KSHS)
	<u>Concrete works</u>				
	<u>Mass concrete class 15 (1:4:8) to:</u>				
B	trenches	SM	47		
C	Ditto but to column bases	SM	17		
	<u>Vibrated Reinforced concrete class 25/20 (1:2:4) to:</u>				
D	Strip footing	CM	9		
E	Column bases	CM	1		
F	Starter columns	CM	1		
G	200mm thick ground floor slab	SM	172		
	<u>Sawn Cypress Formwork to:</u>				
I	Sides of starter columns	SM	11		
K	Edges of slab girth 150-225mm	LM	51		
	<u>Reinforcement</u>				
	<u>Bars :High Yield Steel:Worked to BS 4461 Icluding Bends:Hooks:Tying wire :</u>				
L	12mm diameter bars	KG	315		
M	10mm ditto	KG	39		
N	8mm ditto	KG	120		
TOTAL CARRIED TO COLLECTION					

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT (KSHS)
A	<u>Damp proofing membrane</u> 1000 gauge damp proof membrane;1 no laid on compacted quarry dust blinding	SM	172		
B	<u>Fabric mesh reinforcement</u> BRC mesh reinforcement weighing 2.2kg/sm no A142 measured net and allowing a minimum lap of 300mm sideways	SM	172		
C	<u>Foundation walling</u> <u>Natural coral foundation stone walling with a minimum crushing resistance of 7N/mm² bedded and jointed in cement sand 1:3 with and including 20*3mm thick hoop iron at every alternate course</u> 200mm thick <u>Plinth</u>	SM	99		
D	20mm thick cement sand (1:3) render to plinth	SM	9		
E	Apply 2 coats of black bituminous paint to plinth	SM	9		
TOTAL CARRIED TO					

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT (KSHS)
	<u>COLLECTION</u>				
	Total brought forward from page 1				
	Total brought forward from page 2				
	Total brought forward from page 3				
	TOTAL SUBSTRUCTURE CARRIED TO SUMMARY				

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT (KSHS)
	ELEMENT NO 2: SUPERSTRUCTURE				
	<u>Walling</u>				
	<u>Hessian based bituminous felt or any other equal and approved damp proof course</u>				
A	200 mm wide damp proofing course including levelling	LM	39		
	<u>Smooth chisel dressed natural stone walling in cement and sand (1:3) mortar reinforced with and including 25 x 3mm thick hoop iron in every alternate course</u>				
B	200mm thick external walling	SM	114		
C	Ditto but internal	SM	99		
D	Ditto gable walling	SM	51		
	Permanent ventilation				
E	Pair of permanent ventilation size 225*225*25mm thick with and including mosquito guaze on all windows and doors	PRS	15		
F	Leave or make hole in 200mm thick wall size 225*225mm	NO	15		
TOTAL CARRIED TO COLLECTION					

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT (KSHS)
A	Columns Formwork Sawn cypress formwork to sides /batterns of columns	SM	23		
B	Concrete works Vibrated reinforced concrete class 20 (1:2:4) to columns Reinforcement <u>Bars :High Yield Steel;Worked to BS 4461 Icluding Bends;Hooks;Tying wire ;</u>	CM	1		
C	D12	KG	128		
D	D8 Ring beam Formwork	KG	49		
E	Sawn cypress formwork to edges of beams	SM	70		
F	Ditto but to soffites girth 125-200mm Concrete works	LM	49		
G	Vibrated reinforced concrete class 20 (1:2:4) to ring beam Reinforcement <u>Bars :High Yield Steel;Worked to BS 4461 Icluding Bends;Hooks;Tying wire ;</u>	CM	7		
H	D12	KG	312		
I	D8	KG	278		
TOTAL CARRIED TO COLLECTION					

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT (KSHS)
	<u>COLLECTION</u> Total brought forward from page 1 Total brought forward from page 2				
TOTAL SUPERSTRUCTURE CARRIED TO SUMMARY					

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT (KSHS)
	ELEMENT NO 3:ROOF AND RANWATER GOODS				
	<u>Wall plate</u>				
A	150x50mm treated;well seasoned cypress wallplate bolted to ring beam with 12mm rawl bolts at 900mm c/c	LM	87		
	Trusses (All timber work is provisional) The following in pressure impregnated first grade cypress timber or any other equal and approved				
B	150X50mm Kingpost	LM	36		
C	150X50mm rafters	LM	196		
D	150x50mm tiebeam	LM	183		
E	100X50struts and ties	LM	234		
F	Ditto collar splices	LM	16		
G	50x50mm treated cypress purlins	LM	307		
	<u>The following in second grade celcured and well seasoned cypress timber</u>				
H	200x50mm cypress ridge board	LM	17		
I	200x25mm planed cypress fascia board and barge board	LM	60		
TOTAL CARRIED TO COLLECTION					

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT (KSHS)
	<u>Roof covering</u>				
	IT 5 28 gauge sheets to timber structure				
A	Roof covering fixed on purlins with rubber cap nails	SM	183		
B	28 gauge iron sheet ridge cap prepainted to match roof covering profile girth 300mm	LM	17		
	Eaves				
E	T and G timber boarding to eaves with and including 50x50mm celcured second grade and well seasoned cypress timber blandering	SM	17		
	<u>Rain water goods</u>				
	Gutters				
F	150 x 100mm galvanized iron gutter gauge 24 fixed to fascia boards (m/s) with and including approved steel brackets at 1000mm centre	LM	28		
G	Ditto but for 100 mm diameter outlet	NO	7		
	Downpipe				
H	100 mm diameter galvanised iron downpipe gauge 24 fixed to wall with and including holder butts at 1000mm centres	LM	20		
I	Extra over downpipe for swanneck 1200mm long	NO	7		
J	Extra over horse shoe 300 mm long	NO	7		
TOTAL CARRIED TO COLLECTION					

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT (KSHS)
	Painting and decoration <u>Knot prime and stain;prepare and apply 3 coats gloss oil paint to:</u>				
A	Surfaces of timber girth 200-300mm <u>Prepare and apply 3 coats gloss oil paint to:</u>	LM	60		
B	General surface of metal gutters	SM	6		
C	Surfaces of down pipes	SM	6		
TOTAL CARRIED TO COLLECTION					

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT (KSHS)
	<u>ELEMENT NO 4: DOORS</u> <u>GROUND FLOOR</u>				
	<u>STEEL DOORS</u>				
	<u>Mild steel casement doors :100x50x3mm frame plugged to concrete or blockwork with 100mm long fishtailed 25x25x2mm thick angle section, 50x50x3mm thick angle section frames at 300mm centres both sides, angles cut and welded;panels infilled with glazing,one coat manufacturer`s primer, complete with all necessary ironmongery ; all welding ground to smooth finish</u>				
A	Single swing door;overall size 900x2400mm high;(D1), including 3 pairs 150mm long purpose made hinges; 5 lever union lock (m/s) and 1No 300mm aluminium door handle (m/s) ; all welded	NO	5		
	<u>Painting and Decorations</u>				
	<u>Prepare and apply one coat etching primer,one undercoat and 2 coats gloss oil paint to Crown Solo or other equal and approved to steel doors surfaces:-</u>				
D	Internally	SM	11		
E	Externally	SM	11		
	<u>Glazing</u>				
A	4mm thick obscure glazing on approved putty cut at 45 degrees to architect's approval	SM	1		
TOTAL CARRIED TO COLLECTION					

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT (KSHS)
	TIMBER DOORS				
	<u>Wrot cypress framed frames and framings</u>				
A	100x50mm rebated plugged door frame	LM	29		
B	50x20mm architrave with 2 labours	LM	29		
C	20mm quadrant	LM	29		
D	15x15mm beading	LM	11		
E	150x50mm rebated transome	LM	4		
	<u>45mm thick semi solid core flush door to BS459: part 2 veneered both sides with internal quality plywood and lipped on all edges</u>				
F	Single leaf door(D2) size 800x2100mm high	NO	5		
	<u>Iron mongery</u>				
	<u>Supply and fix the following to UNION catalogue or other equal and approved</u>				
H	Steel door clamps	NO	30		
I	100mm pressed steel butt hinges	PRS	8		
J	3 lever mortise lock complete with all handles to architect`s approval	NO	5		
K	Plastic door stopper	NO	5		
	TOTAL CARRIED TO				
	COLLECTION				

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT (KSHS)
A	<p>Glazing</p> <p>4mm thick clear sheet glazing in panes not exceeding 0.1sqm on approved putty to 45 degrees to architect`s approval</p>	SM	1		
	<p><u>Painting and decorations</u></p> <p><u>Knot prime and stop:Aluminium primer or other equal and approved wood primer before fixing with and including 2 finishing coats of gloss oil paint to wood surfaces</u></p>				
B	General wood surfaces	SM	8		
C	Wood surfaces girth 100-200mm	LM	33		
D	Ditto but girth 0-100mm	LM	69		
TOTAL CARRIED TO COLLECTION					

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT (KSHS)
	<u>COLLECTION</u> Total brought forward from page 1 Total brought forward from page 2 Total brought forward from page 3				
TOTAL DOORS CARRIED TO SUMMARY					

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT (KSHS)
	<p>ELEMENT NO 5:WINDOWS <u>GROUND FLOOR</u></p> <p><u>Supply, assemble french style window and fix the following purpose-made mild steel casement windows: standard metal section from approved manufacturer complete with horizontal and vertical grid of 200 x 250mm pannels ,frames, transomes, mullions and with and including permanent ventilators comprising "T" bar, gauze and 16 gauge sheet metal hood 50mm high x 50mm projection to full width of window, coupling mullions, approved ironmongery and one coat manufacturer's primer: all welding</u></p>				
A	Window(W1), overall size 1800x1400mm high	NO	5		
B	Ditto(W2) but overall size 600x600mm high	NO	5		
D	<p><u>Window cill</u></p> <p>Precast concrete (1:2:4) window cill and including finishing well, creating a throat with one curved edge and fixing wit cement sand (1:3) mortar.</p>	LM	15		
E	<p><u>Window board</u></p> <p>150x25mm sawn cypress planed window board fixed to wall internally</p>	LM	11		
TOTAL CARRIED TO COLLECTION					

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT (KSHS)
	<u>Curtail rods</u>				
A	50mm Diameter brass coated curtain rods fixed with matching brackets and rings.	LM	15		
	<u>Painting and decorations</u>				
	<u>Prepare and apply three coats of oil paint full gloss to Crown Solo or other equal and approved to:-</u>				
A	General timber surfaces;over 300mm girth internal	SM	14		
B	Ditto external	SM	14		
C	Ditto but girth 200-300mm	LM	11		
TOTAL CARRIED TO COLLECTION					

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT (KSHS)
	<u>COLLECTION</u> Total brought forward from page 1 Total brought forward from page 2				
TOTAL WINDOWS CARRIED TO SUMMARY					

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT (KSHS)
<u>ELEMENT NO 6 :FINISHES</u>					
<u>GROUND FLOOR</u>					
<u>Ceiling</u>					
A	10mm thick Celotex board ceiling nailed to timber brandering (m/s)	SM	149		
B	100 x 25mm Thick wrot softwood moulded cornice	LM	158		
<u>Prepare and apply three coats first grade plastic emulsion paint to:</u>					
C	Celotex ceiling surfaces	SM	149		
D	Timber surfaces not exceeding 100mm girth	LM	158		
E	Extra over celotex ceiling for trap door size 600 x 450 mm wide comprising and including 50x50mm timber framing	NO	8		
<u>Internal walls</u>					
Insitu finishes;Backings					
<u>Plaster:15mm thick 2No coat work</u>					
<u>.12mm first coat of cement sand (1:3) :</u>					
<u>3mm second coat cement and lime putty</u>					
<u>(1:9) steel trowelled plaster to concrete or</u>					
<u>blockwork base to receive painting</u>					
A	Walls and ring beam,internal	SM	172		
<u>Painting and decorations</u>					
B	Prepare and apply 1 no priming coat and 3 no silk vinyl finishing coat by caparol paints or equal and approved on clean wall surface as per manufacturers specifications	SM	147		
C	Prepare and apply 1 undercoat and 2 coats of first grade full gloss paint per manufactures instructions or equal and approved to internal walls	SM	25		
TOTAL CARRIED TO COLLECTION					

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT (KSHS)
	finishes cont'd				
	<u>Plaster;12mm one coat cement sand (1:3) to blockwork or concrete bed wood floated to receive ceramic tiles in;</u>				
A	Walls internally <u>Approved glazed Ceramic wall tiles to regular or approved other pattern; bedding and jointing in cement sand (1:4) mortar, grouting with white cement;</u>	SM	45		
B	250 x 200 x 6mm thick; butt joints both ways; to cement (m/s); Floor finishes <u>Beds or backings:</u> <u>Screeds;40mm thick 1No coat work cement sand (1:3) ;wood floated to hacked concrete or blockwork base to receive granotio tiles in;</u>	SM	45		
C	Floors;internal <u>Granito floor tiles approved jointed and pointed with matching cement sand (1:4) mortar: colour quality and pattern to the Project Manager's scheme in;</u>	SM	120		
D	600 x 600 x 15mm thick granite floor tiles fixed with an approved adhesive on prepared screed(m/s)	SM	120		
E	100 x 8mm skirting	LM	90		
TOTAL CARRIED TO COLLECTION					

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT (KSHS)
	finishes cont'd				
	External wall finish				
	<u>15mm thick render on cement sand (1:3)mortar .1No coatwork to concrete or blockwork steel trowelled to receive paint to:</u>				
A	External surfaces of beam	SM	11		
	<u>Vertical and horizontal key pointing in cement sand 1:3 with steel guage 12mm in:</u>				
B	Walls;externally	SM	42		
	<u>Painting and decoration</u>				
	<u>Prepare and apply 2 coats anti algae priming coat and 3 coats weather guard paint as manufactured by caparol or equivalent quality to:</u>				
C	External surfaces of beam	SM	11		
D	Vertical and horizontal key pointing to walls;externally	SM	42		
TOTAL CARRIED TO COLLECTION					

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT (KSHS)
	finishes cont'd				
	External Floor finishes				
	<u>Beds or backings:</u>				
	<u>Screeds:40mm thick 1No coat work cement sand (1:3) ;wood floated to hacked concrete or blockwork base to receive granotio tiles in:</u>				
A	Floors;internal	SM	28		
	<u>Granito floor tiles approved jointed and pointed with matching cement sand (1:4) mortar: colour quality and pattern to the Project Manager's scheme in:</u>				
B	600 x 600 x 15mm thick granite floor tiles fixed with an approved adhesive on prepared screed(m/s	SM	28		
C	100 x 8mm skirting	LM	23		
TOTAL CARRIED TO COLLECTION					

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT (KSHS)
	<u>COLLECTION</u>				
	Total brought forward from page 1				
	Total brought forward from page 2				
	Total brought forward from page 3				
	Total brought forward from page 4				
TOTAL FINISHES CARRIED TO SUMMARY					

	<u>SUMMARY OF BUILDERS WORK</u>				
A	SUBSTRUCTURE				-
B	SUPERSTRUCTURE				
C	ROOFING				-
E	DOORS				
F	WINDOWS				
G	FINISHES				-
	TOTAL CARRIED TO GRAND SUMMAR				