

No	Description	Qty	Unit	Rate	Amount
	<u>PROPOSED HEALTH CENTRE PHASE II</u>				
	ELEMENT No. 1				
	<u>Substructures</u>				
	All Provisional (Assumed depth 1.5M from reduced level)				
	<u>Earthworks</u>				
A	Clear the site of all grass, bushes scrub and small trees including grubbing up their roots and burn or cart away arisings	105	SM	20	2,100
B	Excavate oversite to remove top vegetable soil average 150 mm deep and deposit on site where directed	105	SM	30	3,150
C	Excavate to reduce levels in normal soil not exceeding 1.5 M deep starting from stripped level	30	CM	150	4,500
D	Excavate foundation trench for strip footing in normal soil not exceeding 1.5 M deep starting from stripped level	45	CM	150	6,750
E	Extra over for rock excavation	4	CM	500	2,000
F	Return fill and ram selected excavated material around foundations	20	CM	80	1,600
G	Wheel, load and cart away from site surplus excavated material and deposit in approved contractor's dumping area outside the construction site	70	CM	200	14,000
H	Allow for keeping excavations free from water by bailing' pumping or otherwise	1	ITEM	5,000	5,000
I	Ditto for plunking and strutting to sides of excavations	1	ITEM	5,000	5,000
Sub total C/F to collections					44,100

No	Description	Qty	Unit	Rate	Amount
	FILLING AND TREATMENT Contd				
A	300 mm thick selected and aproved hardcore or murrum filling spread, levelled, watered and well rammed in layers not exceeding 150 mm thick	95	SM	200	19,000
B	50 mm thick selected fine material blinding to hardcore surfaces, well rolled and levelled to receive concrete.	95	SM	70	6,650
C	"TERMIDOR 25 EC" insecticide treatment to blinded hardcore surfaces. To be applied by High Chem verterinary Ltd or their authorised agents. A certificate and 10 year warranty shall be required.	95	SM	150	14,250
D	500 gauge polythene sheeting laid under concrete floor bed	95	SM	100	9,500
	<u>Concrete works</u>				
	<u>50 mm plain concrete (1:4:8 - class P/40mm) blinding to:</u>				
E	Strip footing	45	SM	200	9,000
	<u>Vibrated reinforced concrete (1:2:4) Class 20/20mm in :</u>				
F	Foundation strip footing	9	CM	6,000	54,000
G	150 mm thick ground floor bed	95	SM	900	85,500
	<u>Sawn formwork to :</u>				
H	Sides of strip foundation 200 - 300mm girth	150	LM	50	7,500
I	Ditto edges of floor bed 100 - 200mm girth	40	LM	40	1,600
Sub total C/F to collections					207,000

No	Description	Qty	Unit	Rate	Amount
<u>Mesh Reinforcement</u>					
A	Steel fabric mesh reinforcement type A142 weighing 2.22Kg/M ² and to BS 4483 and with 150 mm side laps (measured net - no allowance for laps)	95	SM	250	23,750
<u>Bar Reinforcement</u>					
Supply and Fix the following steel bar reinforcement including cutting, bending, cleaning, tying distance blocks all as described					
B	Assorted sized Mild steel bars	0	Kg	85	0
C	Assorted sized High Tensile square twisted steel bars	790	Kg	85	67,150
<u>Foundation Walling(assumed 1.5mm deep)</u>					
D	200 mm thick quarry dressed natural stone walling bedded and jointed in cement sand (1:3) mortar	95	SM	900	85,500
<u>Plinth</u>					
E	50mm precast pavements slabs on and including murrum blinding	15	SM	400	6,000
F	12 mm thick cement and sand (1:4) woodfloat render to concrete plinths	12	SM	200	2,400
G	Prepare and apply two coats of bitumastic paint to rendered plinths surfaces	12	SM	150	1,800
Sub total C/F to collections					186,600
<u>COLLECTIONS</u>					
H	B/F from page		1		44,100
I	B/F from page		2		207,000
J	B/F from page		3		186,600
TOTAL FOR SUBSTRUCTURES C/F to Summary					437,700

No	Description	Qty	Unit	Rate	Amount
	ELEMENT No.2 <u>Walling</u>				
	Preamble -: Wherever the term quarry or machine-cut stone shall occur, either in this section or elsewhere, it shall be deemed to refer to Nairobi Blue Stone Or Any other that the Engineer shall approve in writing				
	<u>External Wall</u>				
A	200 mm thick machine cut stone wall bedded and jointed in cement and sand (1:4) mortar with every alternate course reinforced with 25 mm wide X 20 gauge hoop iron	80	SM	900	72,000
B	Labour for raking cutting 200mm thick natural stone walling as before described to desired slope	12	LM	30	360
	<u>Internal Wall</u>				
C	200 mm thick machine cut natural stone wall bedded and jointed in cement and sand (1:4) mortar with every alternate course reinforced with 25 mm wide X 20 gauge hoop iron	20	SM	900	18,000
D	150 mm thick ditto	45	SM	800	36,000
	<u>Hessian based bituminous felt</u>				
E	200 mm wide damp proofing felt bedded and jointed in cement and sand (1:3) mortar	55	LM	150	8,250
F	150 mm wide ditto	20	LM	120	2,400
TOTAL FOR WALLING					
C/F to Summary					137,010

No	Description	Qty	Unit	Rate	Amount
	ELEMENT No. 3 REINFORCED CONCRETE FRAME				
	<u>Vibrated reinforced concrete (1:2:4) Class 20/20mm in :</u>				
A	Ring beams, lintols and upstand beams	4	CM	6,000	24,000
	<u>Sawn formwork to :</u>				
B	Sides of beams n.e. 300mm	45	SM	250	11,250
C	Sofits of beams n.e. 200mm	6	SM	250	1,500
	<u>Bar Reinforcement</u>				
	Supply and Fix the following steel bar reinforcement including cutting, bending, cleaning, tying distance blocks all as described				
D	Assorted sized Mild steel bars	0	Kg	85	0
E	Assorted sized High Tensile square twisted steel bars	350	Kg	85	29,750
	<u>Sundries</u>				
F	12mm diameter x 150mm long U-bolt grouted in concrete for fixing wall plate at 1.00M centres	30	NO	180	5,400
TOTAL FOR REINFORCED CONCRETE FRAME					
C/F to Summary					71,900

No	Description	Qty	Unit	Rate	Amount
	ELEMENT No. 4 ROOFING				
	ROOF COVERING Pitched Roofing Finish				
	<u>I.T. 4 roofing sheets.</u>				
A	Roof covering	130	SM	1,000	130,000
B	Ridge/hips capping to ditto	15	LM	350	5,250
	ROOF STRUCTURE Pitched Roofing Construction				
	Preamble				
	All the following structural timber measured provisionally shall be Sawn second grade treated cypress with 9-15% M.C.				
	The following in trusses including hoisting approximately 3.50M above finished ground floor level				
C	100 X 50 mm Intermediate Rafters fixed to wall plate or purlins (wall plate and purlins m.s.)	45	LM	220	9,900
D	Ditto Ceiling Joists	35	LM	220	7,700
E	Ditto Tie Beams	12	LM	220	2,640
F	Ditto Kingposts	9	LM	220	1,980
G	Ditto Struts & Ties	45	LM	220	9,900
H	Ditto braces size 150 x 25 mm	2.5	LM	200	500
I	Ditto braces size 100 x 25 mm	1.5	LM	150	225
	<u>Common rafters</u>				
J	100 X 50 mm Common Rafters fixed to wall plate or purlins at 800 mm centers (wall plate and purlins m.s.)	40	LM	220	8,800
K	Ditto Ceiling Joists	30	LM	220	6,600
L	Ditto Kingposts	8	LM	220	1,760
	Other Structural members:				
M	100 X 75 mm wall plate fixed to wall with and including hoop irons at 1.00M centres	30	LM	230	6,900
N	150 X 50 mm purlins fixed to trusses (m.s.)	130	LM	250	32,500
O	150 x 25 mm ridge and hip cleat	15	LM	200	3,000
Sub total C/F to collections					227,655

No	Description	Qty	Unit	Rate	Amount
<u>Eaves and Verges</u>					
A	25 x 12mm cypress strats boarding to eaves	25	SM	2,000	50,000
	25mm timber quadrant	45	LM	35	1,575
B	225 X 25 mm wrot cypress fascia/barge board fixed to foot of rafters (m.s.)	45	LM	400	18,000
C	75 x 25 mm covet moulded Wrot cypress timber cornice plugged and screwed to walls or beams.	45	LM	200	9,000
<u>Painting and Decoration</u>					
D	25 x 12mm cypress strats boarding to eaves; polyurethane varnish	25	SM	170	4,250
E	225 x 25 fascia board; girth 200-300 mm; gloss paint	45	LM	50	2,250
F	75 x 25 mm cornice; girth n.e 100 mm; gloss paint	45	LM	35	1,575
RAINWATER GOODS					
<u>26 gauge SWG Galvanised mild steel box gutters and down pipes with lapped and soldered joints in the running length</u>					
G	200 x 150 mm gutter, fixed with 20mm wide x 6mm thick galvanised brackets at 2m centers	32	LM	300	9,600
H	Extra for nozzle outlet size 100 mm diameter x 100 mm long	3	NO	150	450
I	Extra for stopped ends	3	NO	150	450
J	100 mm diameter rainwater downpipe fixed to blockwork with galvanised pipe clips	10	LM	350	3,500
K	Extra for swanneck bend 100 mm projection with soldered angles	3	NO	450	1,350
L	Extra for shoe with ditto	3	NO	450	1,350
M	Prepare and apply primer and three coats of first quality gloss paint to general surfaces of metal externally.	30	SM	170	5,100
Sub total C/F to collections					108,450
<u>COLLECTIONS FOR ROOF CONSTRUCTION</u>					
N	B/F from page		6		227,655
O	B/F from page		7		108,450
TOTAL FOR ROOFING					
C/F to Summary					336,105

No	Description	Qty	Unit	Rate	Amount
	ELEMENT No. 5 DOORS				
	<u>Flush Doors</u>				
	50 mm thick flush door with fixed top light faced both sides with external quality plywood, mahogany veneered and lipped all round with hardwood lipping including solid blocking for ironmongeries				
A	Solid core; single leaf; size 900 x 2100 mm high	5	No	3,500	17,500
B	Semi - solid core; single leaf; size 900 x 2100 mm high	1	No	3,500	3,500
	<u>Door Frames</u>				
	<u>Timber doors</u>				
C	150 X 50 mm rebated cypress frame	30	LM	450	13,500
D	50 X 25 mm meru oak architrave with two labours	30	LM	150	4,500
E	25 X 25 mm quadrant ditto	30	LM	50	1,500
	<u>Painting & Decorations</u>				
	<u>Timber doors</u>				
F	One coat aluminium primer to all wood surfaces in contact with masonry not exceeding 100 mm girth	30	LM	15	450
G	Knotting prime and stop and apply three coats clear wood varnish to general timber surfaces	20	SM	180	3,600
H	Ditto 200-300 mm girth	30	LM	50	1,500
I	Ditto not exceeding 100mm girth	30	LM	35	1,050
	<u>Ironmongery</u>				
	<u>To timber doors:</u>				
J	Three lever mortise door lock complete with set lever furniture to 'Union' catalogue or equal and approved	6	No	3,000	18,000
K	38 mm rubber door stop fixed with rawl bolt	6	No	150	900
L	Aluminium Hat and Coat hook	6	No	50	300
M	150 mm brass butt hinges	9	Prs	150	1,350
	TOTAL FOR DOORS				67,650
	C/F to Summary				

No	Description	Qty	Unit	Rate	Amount
	ELEMENT No. 6 METAL WINDOWS				
	Supply and Fix the following small paned purpose-made Mild Steel composite window casement as per "Ideal Casements" manufactured by M/S RLCO Steel Fabricators or other equal and approved manufacturer and fabricated from 19x3mm thick heavy duty metal section				
	Rectangular steel casements;				
A	Window size 1200 x 1200 mm high	10	NO	6,000	60,000
	Glass & Glazing				
B	4 mm thick clear sheet glass and glazing in panes not exceeding 0.1 SM with approved metal putty	14	SM	800	11,200
	Ditto obscured	0		1,000	0
	Window Cills				
C	200 X 50 mm thick precast concrete 1:2:4 (Class 20/12) sunk, weathered and throated window cill finished fairface bedded and jointed in cement and sand (1:3) mortar including all necessary formwork, reinforcement, hoisting and placing in poition (16No.)	14			
			LM	250	3,500
	Curtain Tracks				
D	Standard I - section heavy duty brass sliding curtain tracks secured to profile of pelmet boxes (M/S) complete with fixing brackets, runners, stops and accessories to approval	15			
			LM	250	3,750
	Pelmet Boxes				
E	50 x 50 wrot celcured prime grade cypress bearer plugged	15	LM	130	1,950
	25mm wrot camphor in :				
F	200 mm window board	15	LM	400	6,000
G	25 mm Quardrant	15	LM	100	1,500
H	150 mm pelmet fascia with two labours	15	LM	350	5,250
I	Ditto top	15	LM	350	5,250
J	150 x 150 mm boxed end closing cut to profile	20	No	100	2,000
	Painting & Decorations				
	12 mm thick two coat plaster to window reveals.				
K	Opening reveals 100 - 200 mm girth	47	LM	30	1,410
	Prepare and apply two undercoats and one finishing coat of gloss oil paint to metal surfaces as described to :-				
L	General surfaces of glazed metal casements measured flat overall externally	14	SM	180	2,520
M	Ditto internally	14	SM	180	2,520
N	Ditto Grill	14	SM	180	2,520
Sub total C/F to collections					109,370

No	Description	Qty	Unit	Rate	Amount
A	Prepare and apply two undercoats and one finishing coat of plastic emulsion paint to plastered surfaces as described to :- Opening reveals 100 - 200 mm girth	47	LM	35	1,645
B	Prepare and apply one coat of aluminium wood primer as described to surfaces:- Ditto not exceeding 100mm girth	30	LM	15	450
C	Knot, prime, stop, prepare and apply one undercoats and two finishing coat of clear polyurethane varnish to wood surfaces as described :- General surfaces of window boards and pelmets girth 100 - 200 mm.	30	LM	35	1,050
D	Ditto but not exceedin 100 mm girth	30	LM	20	600
Sub total C/F to collections					3,745
<u>COLLECTIONS for WINDOWS</u>					
E	B/F from page		9		109,370
F	B/F from page		10		3,745
TOTAL FOR WINDOWS C/F to summary					113,115

No	Description	Qty	Unit	Rate	Amount
ELEMENT No. 7.					
<u>FINISHES</u>					
<u>Floor Finishes</u>					
A	25 mm thick cement and sand (1:4) screed on floor slab trowelled smooth	95	SM	200	19,000
<u>Skirtings</u>					
B	100 mm high moulded screed skirting	95	LM	150	14,250
Total for Floor finishes to collections					33,250
<u>Internal Wall Finishes</u>					
C	6 mm thick two coats cement, lime, sand(1:1:6) plaster finished smooth with steel trowel to sides of walls and beams internally	240	SM	250	60,000
D	Prepare and apply three coats of first quality plastic emulsion paint to plastered walls and beams internally.	240	SM	170	40,800
Total for Int. Wall finishes to collections					100,800
<u>External Wall Finishes</u>					
E	12mm thick two coats cement and sand (1:4) render finishes with wood float to sides of beams externally	12	SM	220	2,640
F	Horizontal key pointing in cement and sand (1:4) mortar to external masonry walling	80	SM	150	12,000
G	Prepare and apply three coats of first quality permanent long lasting exterior plastic emulsion paint to plastered beam surfaces externally	12	SM	170	2,040
Total for Ext. Wall finishes to collections					16,680

No	Description	Qty	Unit	Rate	Amount
Ceiling finishes					
A	Prepare and apply three coats of plastic emulsion paint to cellotex ceilings finishes internally	95	SM	170	16,150
B	Prime backs of timber cornices not exceeding 100mm girth	110	LM	15	1,650
C	Knot prime and stop and apply two undercoats and one finishing coat gloss oil paint to timber cornices girth not exceeding 100mm	110	LM	30	3,300
D	50x50mm second grade treated cypress Ceiling branderling at 600 mm centres both ways.	340	LM	100	34,000
Total for Ceiling finishes to collections					55,100
<u>COLLECTIONS FINISHES</u>					
E	Floor Finishes	B/F from page	11		33,250
F	Internal Wall Finishes	B/F from page	11		100,800
G	External Wall Finishes	B/F from page	11		16,680
H	Plastered Ceiling Finishes	B/F from page	12		55,100
TOTAL FOR FINISHES C/F TO MAIN SUMMARY					205,830

No	Description	Qty	Unit	Rate	Amount
A	ELEMENT No.8				
	<u>SANITARY FITTINGS</u>				
	Supply and install the following including all materials and jointing to supply, waste and overflow pipes				
	Kitchen Sink				
	Stainless steel single bowl kitchen sink with all accessories and fittings, complete overall size 1000 x 450 mm wide	1	NO	6,000	6,000
	Water Storage Tanks				
B	Rationally moulded pvc water tank as "Kentainer" model CV 230c capacity 920L Complete with the following 32 mm diameter inlet pipe connection 32 mm diameter high pressure ball valve 40mm diameter overflow pipe connection	1	NO	6,000	6,000
Total for Sanitary Fittings c/f to Main Summary					12,000

No	Description	Qty	Unit	Rate	Amount
	<u>SUMMARY OF MEASURED WORKS</u>				
1	Substructures				437,700
2	Walling				137,010
3	Reinforced Concrete Frame				71,900
6	Roofing General				336,105
7	Doors				67,650
8	Windows				113,115
10	Finishes generally				205,830
11	Sanitary Fittings				12,000
12	Electrical installation				125,000
13	Joinery fittings				190,000
14	External Works				120,000
	Sub-Total Measured Works				1,816,310
15	Plus 10% Contingencies				181,631
Total for Measured works c/f to form of Tender				Kshs	1,997,941
				Say	Kshs 2,000,000