

PROPOSED BILL OF QUANTITIES  
FOR RENOVATION WORKS IN MALE WARD

AT MINGA MISSION HOSPITAL  
PETAUKE, EASTERN PROVINCE

ZAMBIA

2021

ITEM	DESCRIPTION	UNIT	QTY	RATE (ZMK)	AMOUNT (ZMK)
<b><u>CARPENTRY, JOINERY AND IRONMONGERY</u></b>					
A	Remove old particle board ceiling and replace with pvc ceiling complete with all necessary accessories fixed to branding.	M <sup>2</sup>	282,57	150,00	42.385,50
B	Ditto PVC cornice	M	172,00	40,00	6.880,00
C	50 x 50mm treated branding at 600mm centres both ways (remove completely and install new branding for badly damaged ones) and re-painting for branding that is in good shape	M	1040,00	28,00	29.120,00
<b><u>Mukwa hardwood doors complete with appropriate door frames</u></b>					
D	44mm (finished) Mukwa hardwood door size 725mm x 1960mm complete with double rebated door frames, three lever mortise locks and make good of any disturbance to old reveals	No.	11,00	2500,00	27.500,00
E	Supply and install a new modern cabinet for the Duty room as specified by the client	No.	1,00	10000,00	10.000,00
F	Remove the non-functional curtain rails in NHMA male ward and replace with new G.I ones, neatly painted and make good of the disturbance.	M	19,00	250,00	4.750,00
G	Install wooden wall protector in front of surgical male ward	M	12,00	50,00	600,00
H	<b><u>Double glass doors reinforced with wire qooze of sizes:</u></b>				
i	1.05m x 2.33m	No.	1,00	5.000,00	5.000,00
ii	1.7m x 2m	No.	1,00	7.000,00	7.000,00
iii	1.2m x 2m	No.	3,00	5.000,00	15.000,00
<b><u>BACKFILLING AND CONCRETE WORKS</u></b>					
A	Backfill upto floor level for male ward with laterite and compact in layers maximum 150mm thick/layer	M <sup>3</sup>	25,20	100,00	2.520,00
B	Concrete slab complete with conforce 247 inches and a 500 gauge polythene sheet. The base of the slab treated with anti termite.	M <sup>2</sup>	12,60	500,00	6.300,00
<b><u>PAINTING AND DECORATING</u></b>					
<b><u>Internally</u></b>					
<b><u>Prepare and apply one undercoat and two coats of Gloss paint on:</u></b>					
A	Old walls	M <sup>2</sup>	444,08	50,00	22.204,00
B	Plastered walls( apply one coat of plaster primer then two coats of gloss paint)	M <sup>2</sup>	48,00	50,00	2.400,00

<b><u>Externally</u></b>					
<b><u>Prepare and apply one undercoat and two coats of Gloss paint on:</u></b>					
C	Old walls (for both male ward and physio)	M <sup>2</sup>	498,23	50,00	24.911,60
D	Plastered walls( apply one coat of plaster primer then two coats of gloss paint)	M <sup>2</sup>	45,00	50,00	2.250,00
E	Frames of the beds in the ward	No.	40,00	180,00	7.200,00
F	Cabinets in the ward	No.	28,00	80,00	2.240,00
G	Steel poles in walkways	No.	20,00	100,00	2.000,00
<b><u>BLOCKWORK</u></b>					
A	Precast blockwork in cement mortar (1:4) as described (complete with brickforce every third coarse) . Raise the walls at toilet/bathroom area so as to match the height with that of the male ward in order to maintain the same height of the roof for the whole block.	M <sup>2</sup>	61,49	200,00	12.298,00
B	Remove the old air bricks at toilet area and add new ones	No.	5,00	20,00	100,00
	Repair all broken skirting of the existing floor tiles in main ward	Set	1,00	5.000,00	5.000,00
<b><u>WALL FINISHES</u></b>					
A	18mm thick plaster in cement sand (1:4) finished with a wood float as described: Blockwalls	M <sup>2</sup>	45,00	50,00	2.250,00
B	Install 30cm x 40cm white vitreous wall tiles at all the hand wash basins and sink, also extend from the current wall tile level to ceiling level in toilets, showers and sluice room.	M <sup>2</sup>	51,46	250,00	12.865,00

<b>TERRAZZO FLOOR FINISH</b>					
	35mm thick terrazzo finish cast in situ in floor laid in panels using cement concrete (1:2:4) backing with 12mm Or 10mm stone chips including rounding off corner and high polishing including raking out Joints and preparing the floor to receive terrazzo				
A	12mm thick terrazzo topping laying and finished to 9mm thick at verandahs (for both physio and male ward) and toilet/shower area, including skirting for terrazzo.	M <sup>2</sup>	131,905	300,00	39.571,50
<b>GLAZING</b>					
A	Remove the old glass panes together with their window frames and old burglar bars and replace with new widow frames (size opening of 1mx1.5m), mirror glass panes, burglar bar reinforcement using y16 steel and make good of the disturbances caused. Ensure to install obscure glass panes in toilets and showers	M <sup>2</sup>	37,50	3.500,00	131.250,00
	Remove the existing window frames and glass panes in duty room and replace with aluminium sliding window frames and clear glass panes with Y16 burglar bars.	No.	2,00	7.000,00	14.000,00
<b>PLUMBING</b>					
A	Remove the old squat pan and replace with toilet pan complete with pvc cistern, pipes and all plumbing connections, and make good of the disturbance	Set	1,00	3.000,00	3.000,00
B	Remove the old squat pans and replace with new squat pans complete with pvc cisterns, pipes and all plumbing connections, and make good of the disturbance	Set	2,00	2.000,00	4.000,00
C	Carefully remove the old toilet pan and Install new one complete cisterns, pipes and all plumbing connections and make good.	Set	1,00	2.500,00	2.500,00
D	Install new shower arms and heads as a set complete with cobra shower mixers and all necessary pipe connections, and make good	Set	3,00	1.200,00	3.600,00
E	Install hand wash basins with pedestals(4 in Main ward, 1 in NHMA male ward, 1 on staff toilet/shower area, 1 in new Staff room, 1 in Duty room and 1 in Sluice room) complete with all necessary pipe works and connections	No.	9,00	1.800,00	16.200,00
F	Remove the wash trough and replace with new terrazzo wash trough complete with all the necessary pipe works and connections, in sluice room.	Set	1,00	3.000,00	3.000,00
G	Construct 4NO. 0.8x0.8x0.8m manholes complete with all necessary pipeworks to convey the waster water to the available central man hole and make good of the disturbances.	Set	1,00	10000,00	10.000,00

**ELECTRICALS**

A	Install 13Amps double sockets complete with all necessary cables, conduit pipes and trunking	No.	10,00	270	2700
B	Install 1200mm Flourescent fittings and complete with tubes-LED and all cables, pipeworks and trunking (include one gang one way switches)	No.	26,00	500	13000
C	Ditto but weatherproof	No.	10,00	500	5000

<b><u>OUTSIDE WORKS</u></b>					
ROOFING RENOVATION (at toilet/shower area)					
A	Install 80x60x1.6mm rectangular tubes for trusses at 2metre spacing	M	90,00	200,00	18.000,00
B	Install 70x50x1.6mm rectangular tubes for purlins at 1metre spacing	M	120,00	180,00	21.600,00
C	Corrugated galvanised G.10.4mm gauge roofing sheets,non-coated				
D	Roof sheets fixed to metal trusses	M <sup>2</sup>	110,00	270,00	29.700,00
E	Install ridge capping	M	12,00	100,00	1.200,00
F	Seal all areas of leakages on the iron sheets on the male ward with an approved roof sealant, checked by engineer.	Set	1,00	15000,00	15.000,00
<b><u>WALKWAYS</u></b>					
<b><u>Terazzo floor finish</u></b>					
35mm thick terrazzo finish cast in situ in floor laid in panels using cement concrete (1:2:4) backing with 12mm Or 10mm stone chips including rounding off corner and high polishing including raking out Joints and preparing the floor to receive terrazzo					
G	12mm thick terrazzo topping laying and finished to 9mm thick at verandahs (for both physio and male ward) and toilet/shower area, including skirting for terrazzo.	M <sup>2</sup>	68,16	300,00	20.448,00
<b><u>Roofing</u></b>					
H	Install 80x60x1.6mm rectangular tubes for trusses	M	78,80	200,00	15.760,00
I	Install 70x50x1.6mm rectangular tubes for purlins	M	103,20	180,00	18.576,00
Corrugated galvanised G.10.4mm gauge roofing sheets,coated green					
J	Roof sheets fixed to metal trusses	M <sup>2</sup>	72,24	270,00	19.504,80
K	Install ridge capping	M	25,80	100,00	2.580,00

<b>PAVING</b>					
L	Supply and install pavers specified by engineer	M <sup>2</sup>	142,80	300,00	42.840,00
M	Excavation and preparation for a drainage system	M	93,20	200,00	18.640,00
N	Install concrete culverts approved by enienger, backfill and compact	M	14,00	500,00	7.000,00
O	Carefully demolish the existing apron and cast a new one reinforced with conforce 86inches	M <sup>2</sup>	146,94	220,00	32.326,80
P	Construct drainage system of top width 1200mm and bottom width 600mm. The concrete base to be reinforced with conforce 86inches and the sides to be neatly clad with masonry specified by engineer. Supply and install rectangular concrete covers to act as walk paths on the drainage system.	M	110,00	400,00	44.000,00
Q	Construct short dwarf wall (0.5m from the ground level) 25m alongside the drainage system to block the grass,sand and other forms of dirty to flow together with runoff in the drainage system. Complete with footing and plinth walls	M <sup>2</sup>	25,00	200,00	5.000,00
R	Supply and install concrete benches atleast 4metres long	No.	2,00	2.000,00	4.000,00
<b>Total to collection</b>					<b>816.771,20</b>
<b>Main Summary</b>					
	Renovation of male ward at Minga Hospital				<b>816.771,20</b>
	Add 10% contingency				<b>81.677,12</b>
	<b>TOTAL SUM</b>			<b>ZMW</b>	<b>898.448,32</b>
	Add 10% for project management				<b>89.844,83</b>
	<b>GRAND TOTAL</b>			<b>ZMW</b>	<b>988.293,15</b>

