

THE UNITED REPUBLIC OF TANZANIA



PRESIDENT'S OFFICE  
REGIONAL ADMINISTRATION AND LOCAL GOVERNMENT

## PROPOSED STANDARD COUNCIL LEVEL HOSPITALS

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Schedule of Material, Labour & Drawings for Grade One Ward

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### PROJECT AREA

TANZANIA MAINLAND

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APRIL, 2018

PO-RALG

# **Schedule of Material**

ITEM	DESCRIPTION	QTY	UNIT	PRICE-TZS	AMOUNT
	<b><u>MATERIALS</u></b>				
<b>A</b>	<b>SUBSTRUCTURE - PROVISIONAL</b>				
1	<b><u>Strip Foundation - Grade 15 Plain</u></b>				
	Aggregate (3/4")	35	M <sup>3</sup>		
	Sand	18	M <sup>3</sup>		
	Cement-50kgs	158	Bags		
2	<b><u>Foundation Walls</u></b>				
	6" Cement & Sand Block	2,982	No		
	Sand	10	M <sup>3</sup>		
	Cement -50kgs	50	Bags		
3	<b><u>Moram, Hardcore &amp; Site sterilization</u></b>				
	Moram (Lorry 4.5M <sup>3</sup> )	20	Trips		
	Hardcore (Lorry 4.5M <sup>3</sup> )	10	Trips		
	Sand	9	M <sup>3</sup>		
	Aldrin solution or equal and other approved	100	Litres		
4	<b><u>Oversite Concrete (100mm thick - 15 grade), Ground Beam - 20 grade and Column base</u></b>				
	DPM	295	M <sup>2</sup>		
	Cement -50kgs	254	Bags		
	Aggregates (1/2")	43	M <sup>3</sup>		
	Sand	22	M <sup>3</sup>		
	Reinforcement - 16mm diameter high tensile	2	PC'S		
	Reinforcement - 12mm diameter high tensile	66	PC'S		
	Reinforcement - 8mm diameter	82	PC'S		
	Timber 1" X 8" (5.2m long)	17	PC'S		
	Timber 2" X 2"	25	PC'S		
	Nails-4"	20	Kgs		
	Nails-3"	10	Kgs		
	Supporting props	20	PC'S		
	<b>SUB-TOTAL SUB STRUCTURE</b>				

SCHEDULE OF MATERIALS

GRADE ONE WARD - (GROSS FLOOR AREA =339 SQ.M)

ITEM	DESCRIPTION	QTY	UNIT	PRICE-TZS	AMOUNT
<b>B.</b>	<b>SUPERSTRUCTURE</b>				
1	<b><u>Walls, Columns &amp; Ring beam</u></b>				
	6" Cement & Sand Block	5,935	No		
	DPC (20m long)	11	Roll		
	Sand	30	M <sup>3</sup>		
	Cement-50kgs	236	Bags		
	Aggregates (1/2")	12	M <sup>3</sup>		
	Reinforcement - 16mm diameter high tensile	2	PC'S		
	Reinforcement - 12mm diameter high tensile	81	PC'S		
	Reinforcement - 8mm diameter	101	PC'S		
	Binding Wire - 1kg	14	Bundle		
	Timber 1" X 8" to Sides (5.2m long)	93	PC'S		
	Timber 1" X 5" (Plates)	31	PC'S		
	Timber 2" X 2"	25	PC'S		
	Supporting Props	60	PC'S		
	<b>SUB-TOTAL SUPER STRUCTURE</b>				
<b>C.</b>	<b>ROOF STRUCTURE &amp; COVERING</b>				
1	<b><u>Roof Structure - Provisional</u></b>				
	Timber 2" X 3" purlins	1,332	FT		
	Timber 2" X 4" kingpost, struss & Wall plate	2,117	FT		
	Timber 2"X 6"rafters and tie beam	1,719	FT		
	Fascia board 1"X 10" (5.2m long)	19	PC'S		
	Nails -5"	35	Kgs		
	Nails -4"	40	Kgs		
	Nails -3"	25	Kgs		
	<b>NOTE:</b> The above soft wood timber structure should be pressure impregnated treated				
	<b>TO COLLECTION</b>			<b>B/F</b>	

ITEM	DESCRIPTION	QTY	UNIT	PRICE-TZS	AMOUNT
				C/F	
2	<b><u>Roof Covering -as per ALAF or other equal approved</u></b>				
	28G IT5 resin coated sheet	462	M <sup>2</sup>		
	Hips/Ridge - 28 G	23	PC'S		
	valley - 28 G	4	PC'S		
	Roofing Nails	10	Packet		
3	<b><u>Gutter's</u></b>				
	Upvc 125mm half round (6m long)-5"	16	PC'S		
	Upvc 75mm diameter down pipe; Class B	6	PC'S		
	PVC outlet	4	PC'S		
	PVC bend 90'	4	PC'S		
	PVC bend 45'	8	PC'S		
	Gutter support bracket	96	PC'S		
	Gutter Clamp 3"	12	PC'S		
	Connector/reducer	16	PC'S		
	Corner outlet	4	PC'S		
	<b>SUB-TOTAL ROOF STRUCTURE &amp; COVERING</b>				
<b>D.</b>	<b>CEILING</b>				
	Gypsum board -9mm thick	106	PC'S		
	Plain Cornice (8ft)	116	PC'S		
	Screw 1.25" 500pcs/box	34	Box		
	Gypsum powder	17	Bags		
	Fiber tape	5	Pcs		
	Treated soft wood timber 2" X 2"	3,356	FT		
	Nails 4"	30	Kgs		
	Nails 3"	20	Kgs		
	<b>SUB-TOTAL FOR CEILING</b>				

ITEM	DESCRIPTION	QTY	UNIT	PRICE-TZS	AMOUNT
<b>E.</b>	<b>DOOR</b>				
1	<b><u>40mm thick solid core flush door shutter</u></b>				
	1500 x 2100 mm high	3	PC'S		
	1200 x 2100 mm high	10	PC'S		
	1000 x 2100 mm high	3	PC'S		
	900 x 2100 mm high	16	PC'S		
2	<b><u>Frames (hardwood),Varnish &amp; Glass</u></b>				
	1500 x 2500 mm high	3	PC'S		
	1200 x 2500 mm high	10	PC'S		
	1000 x 2500mm high	3	PC'S		
	900 x 2500mm high	16	PC'S		
	4mm thick clear glass to Vents	14	SQ.M		
	Brush 3"	10	Pcs		
	Sand paper (msasa) No.80	9	LM		
	Clear Varnish - 4Litres	4	TIN		
	TINA for Varnish -4Litres	3	Litres		
3	<b><u>Ironmongeries - Union</u></b>				
	Mortice lock - Three lever	32	No		
	Brass hinges - 100mm	43.5	Pairs		
	Barrel bolt - 150mm	12	No		
	Wood Screw	5	Box		
	Kick- plate; 750 x 200mm	12	No		
	Kick- plate; 600 x 200mm	40	No		
	Kick- plate; 1000 x 200mm	6	No		
	Kick- plate; 900 x 200mm	32	No		
	Hinges double swing -150mm	9	Pairs		
	Pushing plate	12	No		
	<b>SUB-TOTAL FOR DOORS</b>				

ITEM	DESCRIPTION	QTY	UNIT	PRICE-TZS	AMOUNT
<b>F.</b>	<b>WINDOWS</b>				
1	<u>Supply and fix Aluminium Windows 2mm thick frame with 5mm thick glass, Mosquitor gauze ironmongeries and all necessary accessories</u>				
	1600 X 1500mm high	12	PC'S		
	3000 X 1500mm high	1	PC'S		
	1500 X 750mm high	8	PC'S		
	1200 X 750mm high	11	PC'S		
	1000 X 750mm high	11	PC'S		
	<b>SUB-TOTAL FOR WINDOWS</b>				
<b>G.</b>	<b>FINISHING</b>				
1	<b>Floor finishing -(ratio 1:4)</b>				
	Sand	26	M <sup>3</sup>		
	Cement-50kgs	162	Bags		
	450 X 450 X 8 mm thick - Non-slippery porcelain floor tiles -(1.42 sqm/Box)	215	Box		
	Epoxy - Grout (1kg/packet)	46	Bucket		
	Spacer	25	Packet		
	Skirting (600mm long; 25/Box)	18	Box		
2	<b>Wall Finishing</b>				
	Sand	37	M <sup>3</sup>		
	Cement-50kgs	231	Bags		
	White cement - 50kg	12	Bags		
	Gypsum powder	46	Bags		
	Sand pepar No.120 (msasa)	2	Roll		
	200 X 300 x 9mm thick Wall tiles to toilets full height -0.96 sqm/Box)	225	Box		
	Epoxy - Grout (1kg/packet)	33	Packet		
	Spacer	18	Packet		
	<b>WORK TOPS</b>				
	25mm thick granite to work tops	6	PC'S		
	<b>SUB-TOTAL FOR FINISHING</b>				

SCHEDULE OF MATERIALS

GRADE ONE WARD - (GROSS FLOOR AREA =339 SQ.M)

ITEM	DESCRIPTION	QTY	UNIT	PRICE-TZS	AMOUNT
<b>H.</b>	<b>PAINTING &amp; DECORATION</b>				
	Emulsion Paint - 20 LTRS	14	buckets		
	Weather guard Paint - 20 LTRS	4	buckets		
	Washable paint -20 LTRS	4	buckets		
	Primer paint -20 LTRS	7	buckets		
	Solvent - 5LTRS	2	TIN		
	Brush 3"	4	Pcs		
	Roller	5	Pcs		
	Gloss paint-4LTR	3	TIN		
	Bitumen paint - 4Litres	2	TIN		
	<b>SUB-TOTAL FOR PAINTING&amp;DECORATION</b>				



SCHEDULE OF MATERIALS

GRADE ONE WARD - (GROSS FLOOR AREA =339 SQ.M)

ITEM	DESCRIPTION	QTY	UNIT	PRICE-TZS	AMOUNT
<b>J.</b>	<b>ELECRICAL INSTALLATION &amp; AC</b>				
1	Single fluorescent fitting, approved philips or equal	9	No		
2	Double fluorescent fitting, approved Philips or equal	10	No		
3	Double switch socket	27	No		
4	Main switch 8way,3PH with integral RCD	1	No		
5	Single core wire 1.5sqmm - Red	400	m		
6	Single core wire 1.5sqmm - Black	400	m		
7	Single core wire 1.5sqmm -green	300	m		
8	Single core wire 2.5sqmm approved uro or equal red	300	m		
9	Single core wire 2.5sqmm approved uro or equal black	300	m		
10	Single core wire 2.5sqmm approved uro or equal green	300	m		
11	Ceiling fan, approved National or equal	10	PC's		
12	4 core cable 16mmsq	30	M		
13	1 gang one way switch	11	No		
14	2gang two way switch	17	No		
15	20A DP switch	1	No		
16	3gang switch	2	No		
17	Gypsum light complete with energy saver 18w	20	No		
18	Earth rod approved copper not less than 1200mm	1	No		
19	Earth wire 4sqmm	30	M		
20	Metal box double	27	PC's		
21	Metal box single	31	PC's		
22	Junction box	80	No		
23	Conduit pipe	150	PC's		
24	Elbow	90	PC's		
25	Conduit coupling	75	PC's		
26	Round cover	80	PC's		
27	Round box	80	PC's		
28	fine screw	6	Packet		
29	Plastic clips 22mm	7	Box		
				<b>B/F</b>	

SCHEDULE OF MATERIALS

GRADE ONE WARD - (GROSS FLOOR AREA =339 SQ.M)

ITEM	DESCRIPTION	QTY	UNIT	PRICE-TZS	AMOUNT
				C/F	
	<b>Air - Condition</b>				
30	Supply and fix LG or equal and approved A.C with all necessary accessories -BTU 18000 to medicine store		1 No		
	<b>SUB-TOTAL ELECTRICAL INSTALLATION &amp; AC</b>				

SCHEDULE OF MATERIALS

GRADE ONE WARD - (GROSS FLOOR AREA =339 SQ.M)

ITEM	DESCRIPTION	QTY	UNIT	PRICE-TZS	AMOUNT
<b>K.</b>	<b>PLUMBING &amp; SANITARY INSTALLATION</b> (PROVISIONAL)				
1	Polypipe 3/4"	80	M		
2	IPS pipe 1/2"	12	PC'S		
3	IPS pipe 3/4"	4	PC'S		
4	Tee connector 3/4"	6	PC'S		
5	Connector 3/4"	2	PC'S		
6	Bush reducing 3/4" x 1/2"	9	PC'S		
7	IPS Elbow 1/2"	54	PC'S		
8	IPS Elbow 3/4"	14	PC'S		
9	IPS tee 1/2"	40	PC'S		
10	IPS nipple 1/2"	54	PC'S		
11	IPS union 3/4"	7	PC'S		
12	IPS socket 1/2"	46	PC'S		
13	Angle valve 1/2"	30	PC'S		
14	Bib tape pex 1/2"	11	PC'S		
15	Stop cock pex '3/4"	7	PC'S		
16	Stop cock pex '1/2"	10	PC'S		
17	Flexible pipe	26	PC'S		
18	Thread seal tape	10	PC'S		
19	PVC pipe 1 1/2"	3	PC'S		
20	PVC pipe 1 1/4"	3	PC'S		
21	PVC pipe 4' CLASS C"	19	PC'S		
22	PVC bend 1 1/2"	9	PC'S		
23	PVC bend 1 1/4"	18	PC'S		
24	PVC tee 1 1/4"	14	PC'S		
25	PVC tee 1 1/2"	8	PC'S		
26	PVC bend 4"	2	PC'S		
27	PVC plug 1 1/4"	11	PC'S		
28	PVC plug 1 1/2"	8	PC'S		
29	Non-trap 1 1/2"	6	PC'S		
30	Stainer	6	PC'S		
31	Tangit	2	TIN		
32	PVC gully trap 4"	9	PC'S		
33	P-trap 4"	1	PC'S		
34	PVC socket with Female threads 1 1/4"	14	PC'S		
35	PVC socket with Female threads 1 1/2"	2	PC'S		
36	WC squatting Complete with P trap -Asian type	10	PC'S		
				<b>C/F</b>	

SCHEDULE OF MATERIALS

GRADE ONE WARD - (GROSS FLOOR AREA =339 SQ.M)

ITEM	DESCRIPTION	QTY	UNIT	PRICE-TZS	AMOUNT
				<b>B/F</b>	
37	Toilet shower (shataf)	10	PC'S		
38	Shower rose complet with stand and mixer (chrome)	10	PC'S		
39	Hands wash basin complete with 6" Levers operating for elbow control and its accessories	12	PC'S		
40	Mirror	12	PC'S		
41	Stainless kitchen sink single bowl and drain complete with all necessary fittings and its accessories as per approved	2	PC'S		
	<b>SUB-TOTAL FOR PLUMBING AND SANITARY INSTALLATION</b>				

<b><u>GENERAL SUMMARY</u></b>		<b>AMOUNT</b>
		<b>TZS</b>
<b><u>GRADE ONE WARD</u></b>		
A.	SUBSTRUCTURE - PROVISIONAL	
B.	SUPERSTRUCTURE	
C.	ROOF STRUCTURE & COVERING	
D.	CEILING	
E.	DOOR	
F.	WINDOWS	
G.	FINISHING	
H.	PAINTING & DECORATION	
J.	ELECTRICAL INSTALLATION & AC	
K.	PLUMBING & SANITARY INSTALLATION (PROVISIONAL)	
<b>TOTAL MATERIALS COST</b>		<b>TZS</b>

# **Schedule of Labour**

Na.	AINA YA KAZI	BEI YA UFUNDI - Shs
<b>A</b>	<b><u>Msingi wa Jengo (Sub-structure)</u></b>	
1	Kusafisha eneo	
2	Kuseti jengo	
3	Uchimbaji wa msingi	
4	Kufukia	
	<b><u>Kufunga mbao</u></b>	
5	Pembezeni mwa jamvi	
6	Pembezeni mwa nguzo	
7	Kuondoa mbao	
	<b><u>Kumwaga zege</u></b>	
8	Chini kwenye msingi wa tofali	
9	Chini kwenye msingi wa nguzo	
10	katika nguzo ya awali	
11	kwenye jamvi	
12	Ujenzi wa tofali (2982pc's)	
	<b><u>Mawe</u></b>	
13	Upangaji wa mawe na utandazaji wa DPM	
14	Umwagiliaji wa maji	
	<b>Jumla ndogo msingi wa jengo</b>	
<b>B.</b>	<b><u>Kunyanyua jengo (Super-structure)</u></b>	
1	Ujenzi wa tofali za kuta na uwekaji DPC (5935PC'S)	
	<b><u>Kufunga mbao katika:</u></b>	
2	Nguzo mlalo	
3	Nguzo wima	
	<b><u>Kusuka nondo katika:</u></b>	
4	Nguzo mlalo	
5	Nguzo wima	
	<b><u>Kumwaga zege katika:</u></b>	
6	Nguzo mlalo	
7	Nguzo wima	
8	Umwagiliaji wa maji	
<b>C.</b>	<b><u>Kuezeka (Roof structure and covering)</u></b>	
	Kuezeka na ufungaji wa gata	
	<b>Jumla ndogo kunyanyua jengo</b>	

Na.	AINA YA KAZI	BEI YA UFUNDI - Shs
<b>D.</b>	<b><u>Milango</u></b>	
1	Kufitisha fremu za milango	
2	Kufitisha shata za milango pamoja na vitasa	
3	Upakaji wa Varnishi katika milango na fremu	
<b>E.</b>	<b><u>Umaliziaji (Finishing)</u></b>	
	<i>Upigaji wa lipu pamoja na kutengeneza koplo:</i>	
1	Nje ya jengo	
2	Ndani ya jengo	
	<b><u>Sakafu</u></b>	
3	Uwekaji wa sakafu ya kupokea vigae (beds)	
4	Uwekaji wa vigae pamoja na grauti katika sakafu (floor tiles) -	
	<b><u>Dali:</u></b>	
6	Ufungaji wa mbao za dali (Branding)	
7	Uwekaji wa dali na mikanda ya gypsum	
8	Uwekaji wa dali ya pvc kuzunguka nyumba kwa nje	
9	Uwekaji wa vigae katika kuta na upakaji grout	
	<b>Jumla ndogo umaliziaji(finishing)</b>	
<b>F.</b>	<b><u>Rangi na Mapambo (Painting &amp; Decoration)</u></b>	
	<b><u>Kupaka rangi mikono mitatu pamoja na skimming katika:</u></b>	
1	Kuta za nje	
2	Kuta za ndani	
3	Dali	
	<b><u>Kupaka rangi mikono mitatu katika:</u></b>	
5	Msingi wa nyumba	
6	Grill za milango na madirisha	
	<b>Jumla ndogo Rangi na mapambo</b>	
<b>G.</b>	<b><u>Umeme (Electrical installation)</u></b>	
1	Usukaji wa umeme awamu ya kwanza - Conduit na Box	
2	Usukaji wa umeme awamu ya pili (2nd fix)-fittings	
	<b>Jumla ndogo Umeme</b>	



Na.	AINA YA KAZI	BEI YA UFUNDI - Shs
H.	<b>Mifumo ya maji safi na taka (Water Supply and Sewage system)</b>	
1	Ufungaji bomba awamu ya kwanza (Kuchimbia bomba)	
2	Ufungaji bomba awamu ya pili (2nd fix) -fittings	
3	Ufungaji wa Mifumo ya maji ya mvua kwenda kwenye tanki	
	<b>Jumla ndogo Mifumo ya maji safi na taka</b>	

<b>MAJUMUISHO (SUMMARY)</b>		
		<b>Shs</b>
A.	Msingi wa Jengo (Sub-structure)	
B.	Kunyanyua jengo (Super-structure)	
C.	Kuezekka (Roof structure and covering)	
D.	Milango	
E.	Umaliziaji (Finishing)	
F.	Rangi na Mapambo (Painting & Decoration)	
G.	Umeme (Electrical installation)	
H.	Mifumo ya maji safi na taka (Water Supply and Sewage system)	
	<b>JUMLA KUU Shs.</b>	

**ANGALIZO:**

Fundi anatakiwa kujaza hii fomu kwa kupitia mchoro wa jengo husika

# Drawings