

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 Mental Health Ward  
Block

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### PROJECT AREA

TANZANIA MAINLAND

Ministry of Health, Community  
Development, Gender, Elderly and Children,  
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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")	68	M <sup>3</sup>		
	Sand	34	M <sup>3</sup>		
	Cement-50kgs	306	Bags		
2	<b><u>Foundation Walls</u></b>				
	6" Cement & Sand Block	5,908	No		
	Sand	19	M <sup>3</sup>		
	Cement -50kgs	99	Bags		
3	<b><u>Moram, Hardcore &amp; Site sterilization</u></b>				
	Moram (Lorry 4.5M <sup>3</sup> )	38	Trips		
	Hardcore (Lorry 4.5M <sup>3</sup> )	19	Trips		
	Sand	18	M <sup>3</sup>		
	Aldrin solution or equal and other approved	300	Litres		
4	<b><u>Oversite Concrete (100mm thick - 15 grade) Ground Beam - 20 grade and Column base</u></b>				
	DPM	566	M <sup>2</sup>		
	Cement -50kgs	486	Bags		
	Aggregates (1/2")	81	M <sup>3</sup>		
	Sand	41	M <sup>3</sup>		
	Reinforcement - 16mm diameter high tensile	5	PC'S		
	Reinforcement - 12mm diameter high tensile	145	PC'S		
	Reinforcement - 8mm diameter	182	PC'S		
	Timber 1" X 8" (5.2m long)	35	PC'S		
	Timber 2" X 2"	20	PC'S		
	Nails-4"	25	Kgs		
	Nails-3"	20	Kgs		
	Supporting props	55	PC'S		
	20 mm styropol compressive expansion joint material or other equal approved	5	M		
	<b>SUB-TOTAL SUB STRUCTURE</b>				

SCHEDULE OF MATERIALS

MENTAL WARD - (GROSS FLOOR AREA =636 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	6,807	No		
	DPC (20m long)	20	Roll		
	Sand	34	M <sup>3</sup>		
	Cement-50kgs	279	Bags		
	Aggregates (1/2")	15	M <sup>3</sup>		
	Reinforcement - 16mm diameter high tensile	12	PC'S		
	Reinforcement - 12mm diameter high tensile	118	PC'S		
	Reinforcement - 8mm diameter	151	PC'S		
	Binding Wire - 1kg	30	Bundle		
	Timber 1" X 8" to Sides (5.2m long)	63	PC'S		
	Timber 1" X 5" (Plates)	54	PC'S		
	Timber 2" X 2"	30	PC'S		
	Supporting Props	115	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	3,325	FT		
	Timber 2" X 4" kingpost, struss & wall plate	2,736	FT		
	Timber 2"X 6"rafters and tie beam	3,673	FT		
	Fascia board 1"X 10" (5.2m long)	39	PC'S		
	Nails -5"	85	Kgs		
	Nails -4"	75	Kgs		
	Nails -3"	55	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	871	SQ.M		
	Hips/Ridge - 28 G	49	PC'S		
	valley - 28 G	7	PC'S		
	Roofing Nails	18	Packet		
3	<b><u>Gutter's -Provisional</u></b>				
	Upvc 125mm half round (6m long)-5"	22	PC'S		
	Upvc 75mm diameter down pipe; Class B	4	PC'S		
	PVC outlet	4	PC'S		
	PVC bend 90'	4	PC'S		
	PVC bend 45'	8	PC'S		
	Gutter support bracket	130	PC'S		
	Gutter Clamp 3"	12	PC'S		
	Connector/reducer	18	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	197	PC'S		
	Plain Cornice	265	PC'S		
	Screw 1.25" 500pcs/box	60	Box		
	Gypsum powder	63	Bags		
	Fibre tape	7	Pcs		
	Treated soft wood timber 2" X 2"	6,933	FT		
	Nails 4"	30	Kgs		
	Nails 3"	25	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	8	PC'S		
	1200 x 2100 mm high	10	PC'S		
	1000 x 2100mm high	25	PC'S		
	900 x 2100mm high	10	PC'S		
2	<b><u>Frames (hardwood),Varnish &amp; Glass</u></b>				
	1500 x 2500 mm high	8	PC'S		
	1200 x 2500 mm high	10	PC'S		
	1000 x 2500mm high	25	PC'S		
	900 x 2100mm high	10	PC'S		
	4mm thick clear glass to Vents	20	SQ.M		
	Brush 3"	15	Pcs		
	Sand paper (msasa) No.80	30	LM		
	Clear Varnish - 4Litres	10	TIN		
	TINA for Varnish -4Litres	6	Litres		
3	<b><u>Ironmongeries - Union</u></b>				
	Mortice lock - Three lever	53	No		
	Brass hinges - 100mm	67.5	Pairs		
	Barrel bolt - 150mm	20	No		
	Wood Screw	5	Box		
	Kick- plate; 750 x 200mm	32	No		
	Kick- plate; 1200 x 200mm	20	No		
	Kick- plate; 1000 x 200mm	50	No		
	Kick- plate; 900 x 200mm	20	No		
	Hinges double swing -150mm	24	Pairs		
	Pushing plate	32	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>				
	16000 X 1500mm high	9	PC'S		
	16000 X 750mm high	12	PC'S		
	3000 X 1500mm high	3	PC'S		
	1500 X 1500mm high	2	PC'S		
	2100 X 1500mm high	5	PC'S		
	1000 X 750mm high	20	PC'S		
2	<u>Supply and fix 32 x 32mm steel square pipe window grill painted red-oxide including ironmongeries</u>				
	16000 X 1500mm high	9	PC'S		
	16000 X 750mm high	12	PC'S		
	3000 X 1500mm high	7	PC'S		
	1500 X 1500mm high to corridor at mental wards including mosquitor gauze and timber frame.	10	PC'S		
	2100 X 1500mm high	5	PC'S		
	1000 X 750mm high	20	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	164	Bags		
	450 X 450 X 8mm thick - Non-slippery porcelain floor tiles -(1.42sqm/Box)	399	Box		
	Epoxy - Grout (1kg/packet)	88	Packet		
	Spacer	46	Packet		
	Skirting (600mm long; 25/Box)	39	Box		
	Covered precast slab for drainage system size 700x 1200 mm x 75 mm thick RC grade 20	19	M		
				<b>B/F</b>	
	Drainage system covered with grating	19	M		<b>(See footnote below)</b>

FOOTNOTE:

Its depend on engineer selection either to use Precast Concrete slab or grating to cover drainage system

SCHEDULE OF MATERIALS

MENTAL WARD - (GROSS FLOOR AREA =636 SQ.M)

ITEM	DESCRIPTION	QTY	UNIT	PRICE-TZS	AMOUNT
				C/F	
2	<b>Wall Finishing</b>				
	Sand	50	M <sup>3</sup>		
	Cement-50kgs	315	Bags		
	White cement - 50kg	18	Bags		
	Gypsum powder	29	Bags		
	Sand pepar No.120 (msasa)	3	Roll		
	200 X 300 x 9mm thick Wall tiles to toilets full height -0.96 sqm/Box)	254	Box		
	Epoxy - Grout (1kg/packet)	36	Packet		
	Spacer	20	Packet		
	<b>WORK TOPS</b>				
	25mm thick granite to work tops	11	PC'S		
	<b>SUB-TOTAL FOR FINISHING</b>				
<b>H.</b>	<b>PAINTING &amp; DECORATION</b>				
	Emulsion Paint - 20 LTRS	26	buckets		
	Weather guard Paint - 20 LTRS	5	buckets		
	Washable paint -20 LTRS	15	buckets		
	Primer paint -20 LTRS	5	buckets		
	Solvent - 5LTRS	6	TIN		
	Brush 3"	9	Pcs		
	Roller	18	Pcs		
	Gloss paint-4LTR	6	TIN		
	Bitumen paint - 4Litres	12	TIN		
	<b>SUB-TOTAL FOR PAINTING&amp;DECORATION</b>				



SCHEDULE OF MATERIALS

MENTAL WARD - (GROSS FLOOR AREA =636 SQ.M)

ITEM	DESCRIPTION	QTY	UNIT	PRICE-TZS	AMOUNT
<b>J.</b>	<b>ELECRICAL INSTALLATION &amp; AIR CONDITIONING</b>				
1	Single florescent fitting, approved philips or equal	31	No		
2	Double florescent fitting, approved philips or equal	0	No		
3	Double switch socket	14	No		
4	Main switch 8way,3PH with intergral RCD	1	No		
5	Single core wire 1.5sqmm - Red	600	m		
6	Single core wire 1.5sqmm - Black	600	m		
7	Single core wire 1.5sqmm -green	400	m		
8	Single core wire 2.5sqmm approved uro or equal red	200	m		
9	Single core wire 2.5sqmm approved uro or equal black	200	m		
10	Single core wire 2.5sqmm approved uro or equal green	200	m		
11	Ceiling fan, approved National or equal	8	PC's		
12	4 core cable 16mmsq	60	M		
13	1gang one way switch	3	No		
14	2gang two way switch	27	No		
15	3gang one way switch	2	No		
16	20A DP switch	2	No		
17	Lan socket	0	No		
18	Gypsum light complete with energy saver 18w	36	No		
19	Earth rod approved copper not less than 1200mm	2	No		
20	Earth wire 4sqmm	40	M		
21	Metal box double	14	No		
22	Metal box single	35	No		
23	Junction box	120	No		
24	Conduit pipe	320	PC's		
25	Elbow	90	PC's		
26	Conduit coupling	45	PC's		
27	Round cover	100	PC's		
28	Round box	30	PC's		
29	fine screw	5	Packet		
				<b>C/F</b>	

SCHEDULE OF MATERIALS

MENTAL WARD - (GROSS FLOOR AREA =636 SQ.M)

ITEM	DESCRIPTION	QTY	UNIT	PRICE-TZS	AMOUNT
				<b>B/F</b>	
30	Plastic clips 22mm	10	Box		
	<b>Air - Condition</b>				
31	Supply and fix LG or equal and approved A.C with all necessary accessories -BTU 18000 to Theatre and Delivery rooms	2	No		
	<b>SUB-TOTAL ELECTRICAL INSTALLATION &amp; AC</b>				

SCHEDULE OF MATERIALS

MENTAL WARD - (GROSS FLOOR AREA =636 SQ.M)

ITEM	DESCRIPTION	QTY	UNIT	PRICE-TZS	AMOUNT
<b>K.</b>	<b>PLUMBING &amp; SANITARY INSTALLATION</b>				
1	Polypipe 3/4"	16	m		
2	IPS pipe 1/2"	54	m		
3	IPS pipe 3/4"	18	m		
4	Tee connector 3/4"	8	PC'S		
5	Tee coupling 3"/4	1	PC'S		
6	Connector 3/4"	2	PC'S		
7	Bush reducing 3/4" - 1/2"	11	PC'S		
8	IPS Elbow 1/2"	43	PC'S		
9	IPS Elbow 3/4"	25	PC'S		
10	IPS tee 1/2"	30	PC'S		
11	IPS tee 3/4"	1	PC'S		
12	IPS nipple 1/2"	38	PC'S		
13	IPS nipple 3/4"	14	PC'S		
14	IPS union 3/4"	12	PC'S		
15	IPS socket 1/2"	31	PC'S		
16	Angle valve 1/2"	26	PC'S		
17	Bib tape pex 1/2"	11	PC'S		
18	Stop cock pex '1/2"	6	PC'S		
19	Stop cock pex '3/4"	12	PC'S		
20	Thread seal tape	20	PC'S		
21	PVC pipe 1 1/2"	6	PC'S		
22	PVC pipe 1 1/4	2	PC'S		
23	PVC pipe 4' CLASS C"	22	PC'S		
24	PVC bend 1 1/2"	9	PC'S		
25	PVC bend 90' 4"	2	PC'S		
26	PVC tee 1 1/4"	10	PC'S		
27	PVC tee 1 1/2"	9	PC'S		
28	PVC bend 1 1/4	10	PC'S		
29	Strainer	6	PC'S		
30	PVC gully trap 4"	2	PC'S		
31	PVC plug 1 1/4"	6	PC'S		
32	PVC plug 1 1/2"	6	PC'S		
33	Non-trap 1 1/2"	6	PC'S		
34	Tangit	3	TIN		
35	PVC socket with Female threads 1 1/4"	10	PC'S		
36	PVC socket with Female threads 1 1/2"	3	PC'S		
37	Flexible pipe 1/2"	16	PC'S		
38	WC squatting Complete with P trap -Asian type	8	PC'S		
				<b>C/F</b>	

SCHEDULE OF MATERIALS

MENTAL WARD - (GROSS FLOOR AREA =636 SQ.M)

ITEM	DESCRIPTION	QTY	UNIT	PRICE-TZS	AMOUNT
				<b>B/F</b>	
39	Toilet shower (shataf)	8	PC'S		
40	Shower rose complet with stand and mixer (chrome)	6	PC'S		
41	Toilet shower (shataf)	8	PC'S		
42	Hands wash basin complete with 6" Levers operating for elbow control and its accessories	8	PC'S		
43	Mirror	8	PC'S		
44	110 x 550 x 200 mm deep Stainless kitchen sink double bowl and drain complete with all necessary fittings and accessories as per approved	3	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>MENTAL 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 & AIR CONDITIONING	
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 (5908 pc'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 (6807PC'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
<b>H.</b>	<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