

THE UNITED REPUBLIC OF TANZANIA



PRESIDENT'S OFFICE
REGIONAL ADMINISTRATION AND LOCAL GOVERNMENT

PROPOSED STANDARD COUNCIL LEVEL HOSPITALS

Schedule of Material, Labour & Drawings for Pediatric Ward

PROJECT AREA

TANZANIA MAINLAND

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Development, Gender, Elderly and Children,
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APRIL, 2018

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Schedule of Material

SCHEDULE OF MATERIALS

PEDIATRIC WARD - (GROSS FLOOR AREA =531 SQ.M)

ITEM	DESCRIPTION	QTY	UNIT	PRICE-TZS	AMOUNT
	<u>MATERIALS</u>				
A.	SUBSTRUCTURE - PROVISIONAL				
1	<u>Strip Foundation - Grade 15 Plain</u>				
	Aggregate (3/4")	43	M ³		
	Sand	22	M ³		
	Cement-50kgs	194	Bags		
2	<u>Foundation Walls</u>				
	6" Cement & Sand Block	3,752	No		
	Sand	12	M ³		
	Cement -50kgs	63	Bags		
3	<u>Moram, Hardcore & Site sterilization</u>				
	Moram (Lorry 4.5M ³)	31	Trips		
	Hardcore (Lorry 4.5M ³)	16	Trips		
	Sand	18	M ³		
	Aldrin solution or equal and other approved	199	Litres		
4	<u>Oversite Concrete (100mm thick - 15 grade),Ground Beam - 20 grade & Column base</u>				
	DPM	456	M ²		
	Cement -50kgs	357	Bags		
	Aggregates (1/2")	62	M ³		
	Sand	31	M ³		
	Reinforcement - 16mm diameter high tensile	5	PC'S		
	Reinforcement - 12mm diameter high tensile	90	PC'S		
	Reinforcement - 8mm diameter	127	PC'S		
	Timber 1" X 8" (5.2m long)	21	PC'S		
	Timber 2" X 2"	30	PC'S		
	Nails-4"	25	Kgs		
	Nails-3"	15	Kgs		
	Supporting props	35	PC'S		
	SUB-TOTAL SUB STRUCTURE				

SCHEDULE OF MATERIALS

PEDIATRIC WARD - (GROSS FLOOR AREA =531 SQ.M)

ITEM	DESCRIPTION	QTY	UNIT	PRICE-TZS	AMOUNT
B.	SUPERSTRUCTURE				
1	<u>Walls, Columns & Ring beam</u>				
	6" Cement & Sand Block	7,045	No		
	DPC (20m long)	16	Roll		
	Sand	36	M ³		
	Cement-50kgs	276	Bags		
	Aggregates (1/2")	14	M ³		
	Reinforcement - 16mm diameter high tensile	7	PC'S		
	Reinforcement - 12mm diameter high tensile	97	PC'S		
	Reinforcement - 8mm diameter	125	PC'S		
	Binding Wire - 1kg	20	Bundle		
	Timber 1" X 8" to Sides (5.2m long)	33	PC'S		
	Timber 1" X 5" (Plates)	39	PC'S		
	Timber 2" X 2"	25	PC'S		
	Supporting Props	70	PC'S		
	SUB-TOTAL SUPER STRUCTURE				
C.	ROOF STRUCTURE & COVERING				
1	<u>Roof Structure - Provisional</u>				
	Timber 2" X 3" purlins	1,961	FT		
	Timber 2" X 4" kingpost, struss & Wall plate	3,924	FT		
	Timber 2" X 6" rafters and tie beam	2,790	FT		
	Fascia board 1" X 10" (5.2m long)	23	PC'S		
	Nails -5"	40	Kgs		
	Nails -4"	45	Kgs		
	Nails -3"	30	Kgs		
	NOTE: The above soft wood timber structure should be pressure impregnated treated				
	TO COLLECTION			B/F	

SCHEDULE OF MATERIALS

PEDIATRIC WARD - (GROSS FLOOR AREA =531 SQ.M)

ITEM	DESCRIPTION	QTY	UNIT	PRICE-TZS	AMOUNT
				C/F	
2	<u>Roof Covering -as per ALAF or other equal approved</u>				
	28G IT5 resin coated sheet	665	M ²		
	Hips/Ridge - 28 G	29	PC'S		
	valley - 28 G	7	PC'S		
	Roofing Nails	16	Packet		
3	<u>Gutter's -Provisional</u>				
	Upvc 125mm half round (6m long)-5"	20	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	120	PC'S		
	Gutter Clamp 3"	12	PC'S		
	Connector/reducer	16	PC'S		
	Corner outlet	6	PC'S		
	Corner inner	2	PC'S		
	SUB-TOTAL ROOF STRUCTURE & COVERING				
D.	CEILING				
	Gypsum board -9mm thick	159	PC'S		
	Plain Cornice (8ft)	184	PC'S		
	Screw 1.25" 500pcs/box	51	Box		
	Gypsum powder	26	Bags		
	Fiber tape	7	Pcs		
	Treated soft wood timber 2" X 2"	5,841	FT		
	Nails 4"	30	Kgs		
	Nails 3"	25	Kgs		
	SUB-TOTAL FOR CEILING				

SCHEDULE OF MATERIALS

PEDIATRIC WARD - (GROSS FLOOR AREA =531 SQ.M)

ITEM	DESCRIPTION	QTY	UNIT	PRICE-TZS	AMOUNT
E.	DOOR				
1	<u>40mm thick solid core flush door shutter</u>				
	1000 x 2100 mm high	13	PC'S		
	900 x 2100 mm high	13	PC'S		
	1500 x 2100 mm high	7	PC'S		
	1200 x 2100 mm high	4	PC'S		
2	<u>Frames (hardwood),Varnish & Glass</u>				
	1000 x 2500 mm high	13	PC'S		
	900 x 2500mm high	4	PC'S		
	900 x 2100mm high	9	PC'S		
	1500 x 2500 mm high	7	PC'S		
	1200 x 2500 mm high	4	PC'S		
	4mm thick clear glass to Vents	13	SQ.M		
	Brush 3"	6	Pcs		
	Sand paper (msasa) No.80	13	LM		
	Clear Varnish - 4Litres	5	TIN		
	TINA for Varnish -4Litres	2	Litres		
3	<u>Ironmongeries - Union</u>				
	Mortice lock - Three lever	37	No		
	Brass hinges - 100mm	45	Pairs		
	Barrel bolt - 150mm	23	No		
	Wood Screw	3	Box		
	Kick- plate; 1000 x 200mm	26	No		
	Kick- plate; 750 x 200mm	28	No		
	Kick- plate; 1200 x 200mm	8	No		
	Kick- plate; 900 x 200mm	26	No		
	Hinges double swing -150mm	21	Pairs		
	Pushing plate	28	No		
	SUB-TOTAL FOR DOORS				

ITEM	DESCRIPTION	QTY	UNIT	PRICE-TZS	AMOUNT
F.	WINDOWS				
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	13	PC'S		
	2400 X 1500mm high	5	PC'S		
	1200 X 1500mm high	5	PC'S		
	3000 X 1500mm high	4	PC'S		
	1200 X 750mm high	4	PC'S		
	1500 X 1500mm high	4	PC'S		
	1000 X 750mm high	15	PC'S		
	SUB-TOTAL FOR WINDOWS				
G.	FINISHING				
1	Floor finishing - (ratio 1:4)				
	Sand	21	M ³		
	Cement-50kgs	132	Bags		
	450 X 450 X 8 mm thick - Non-slippery porcelain floor tiles -(1.42 sqm/Box)	323	Box		
	Epoxy - Grout (1kg/packet)	69	Bucket		
	Spacer	37	Packet		
	Skirting (600mm long; 25/Box)	34	Box		
2	Wall Finishing				
	Sand	45	M ³		
	Cement-50kgs	279	Bags		
	White cement - 50kg	10	Bags		
	Gypsum powder	74	Bags		
	Sand pepar No.120 (msasa)	2	Roll		
	200 X 300 x 9mm thick Wall tiles to toilets full height -0.96 sqm/Box)	306	Box		
	Epoxy - Grout (1kg/packet)	44	Packet		
	Spacer	24	Packet		
	WORK TOPS				
	25mm thick granite to work tops	10	PC'S		
	SUB-TOTAL FOR FINISHING				

ITEM	DESCRIPTION	QTY	UNIT	PRICE-TZS	AMOUNT
H.	PAINTING & DECORATION				
	Emulsion Paint - 20 LTRS	12	buckets		
	Weather guard Paint - 20 LTRS	4	buckets		
	Washable paint -20 LTRS	5	buckets		
	Primer paint -20 LTRS	4	buckets		
	Solvent - 5LTRS	3	TIN		
	Brush 3"	4	Pcs		
	Roller	5	Pcs		
	Gloss paint-4LTR	2	TIN		
	Bitumen paint - 4Litres	4	TIN		
	SUB-TOTAL FOR PAINTING&DECORATION				

SCHEDULE OF MATERIALS

PEDIATRIC WARD - (GROSS FLOOR AREA =531 SQ.M)

ITEM	DESCRIPTION	QTY	UNIT	PRICE-TZS	AMOUNT
J.	ELECTRICAL INSTALLATION				
1	Single fluorescent fitting, approved philips or equal	24	No		
2	Double fluorescent fitting, approved philips or equal	4	No		
3	Double switch socket	20	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	6	PC's		
12	4 core cable 16mmsq	30	m		
13	1gang one way switch	6	No		
14	2gang two way switch	22	No		
15	20A DP switch	0	No		
16	Lan socket	2	No		
17	Gypsum light complete with energy saver 18w	19	No		
18	Earth rod approved copper not less than 1200mm	2	No		
19	Earth wire 4sqmm	20	M		
20	Metal box double	22	No		
21	Metal box single	32	No		
22	Junction box	50	No		
23	Conduit pipe	150	PC's		
24	Elbow	60	PC's		
25	Conduit coupling	40	PC's		
26	Round cover	100	PC's		
27	Round box	50	PC's		
28	fine screw	5	Packet		
29	Plastic clips 22mm	3	Box		
30	Telephone socket outlet	2	PC's		
	SUB-TOTAL ELECTRICAL INSTALLATION				

SCHEDULE OF MATERIALS

PEDIATRIC WARD - (GROSS FLOOR AREA =531 SQ.M)

ITEM	DESCRIPTION	QTY	UNIT	PRICE-TZS	AMOUNT
K.	PLUMBING & SANITARY INSTALLATION (PROVISIONAL)				
1	Polypipe 3/4"	110	M		
2	Tee connector 3/4"	14	PC'S		
3	Tee coupling 3/4"	1	PC'S		
4	Bush reducing 3/4" x 1/2"	14	PC'S		
5	IPS Elbow 1/2"	41	PC'S		
6	IPS Elbow 3/4"	26	PC'S		
7	IPS tee 1/2"	29	PC'S		
8	IPS nipple 1/2"	35	PC'S		
9	IPS nipple 3/4"	12	PC'S		
10	IPS union 3/4"	12	PC'S		
11	IPS socket 1/2"	39	PC'S		
12	Angle valve 1/2"	30	PC'S		
13	Bib tape pex 1/2"	10	PC'S		
14	Stop cock pex '1/2"	6	PC'S		
15	Stop cock pex '3/4"	13	PC'S		
14	Flexible pipe	22	PC'S		
15	Thread seal tape	30	PC'S		
16	PVC pipe 1 ^{1/2} "	3	PC'S		
17	PVC pipe 1 ^{1/4} "	4	PC'S		
18	PVC pipe 4' CLASS C"	4	PC'S		
19	PVC bend 90' 4"	1	PC'S		
19	PVC bend 45' 4"	1	PC'S		
20	PVC bend 1 ^{1/2} "	18	PC'S		
21	PVC tee 1 ^{1/4} "	14	PC'S		
22	PVC tee 1 ^{1/2} "	14	PC'S		
25	PVC bend 1 ^{1/4} "	22	PC'S		
26	PVC bend with cleaning eye 4"	1	PC'S		
27	PVC plug 1 ^{1/4} "	13	PC'S		
28	PVC plug 1 ^{1/2} "	11	PC'S		
29	Non-trap 1 1/2"	3	PC'S		
30	Tangit	3	TIN		
31	PVC socket with Female threads 1 ^{1/4} "	14	PC'S		
33	PVC socket with Female threads 1 ^{1/2} "	11	PC'S		
35	WC squatting Complete with P trap -Asian type	7	PC'S		
				C/F	

SCHEDULE OF MATERIALS

PEDIATRIC WARD - (GROSS FLOOR AREA =531 SQ.M)

ITEM	DESCRIPTION	QTY	UNIT	PRICE-TZS	AMOUNT
				B/F	
36	WC High level complet with all necessary fittings	1	PC'S		
3	Sluice sink complete with pilar tape and all necessary accessories as per approved	1	PC'S		
38	Shower rose complet with stand and mixer (chrome)	6	PC'S		
39	Toilet shower (shataf)	8	PC'S		
40	Hands wash basin complete with 6" Levers operating for elbow control and its accessories	16	PC'S		
41	Mirror	16	PC'S		
42	Stainless kitchen sink single bowl and drain complete with all necessary fittings and accessories as per approved	3	PC'S		
	SUB-TOTAL FOR PLUMBING AND SANITARY INSTALLATION				

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

Schedule of Labour

Na.	AINA YA KAZI	BEI YA UFUNDI - Shs
A	<u>Msingi wa Jengo (Sub-structure)</u>	
1	Kusafisha eneo	
2	Kuseti jengo	
3	Uchimbaji wa msingi	
4	Kufukia	
	<u>Kufunga mbao</u>	
5	Pembezeni mwa jamvi	
6	Pembezeni mwa nguzo	
7	Kuondoa mbao	
	<u>Kumwaga zege</u>	
8	Chini kwenye msingi wa tofali	
9	Chini kwenye msingi wa nguzo	
10	katika nguzo ya awali	
11	kwenye jamvi	
12	Ujenzi wa tofali (3752 pc's)	
	<u>Mawe</u>	
13	Upangaji wa mawe na utandazaji wa DPM	
14	Umwagiliaji wa maji	
	Jumla ndogo msingi wa jengo	
B.	<u>Kunyanyua jengo (Super-structure)</u>	
1	Ujenzi wa tofali za kuta na uwekaji DPC (7045PC'S)	
	<u>Kufunga mbao katika:</u>	
2	Nguzo mlalo	
3	Nguzo wima	
	<u>Kusuka nondo katika:</u>	
4	Nguzo mlalo	
5	Nguzo wima	
	<u>Kumwaga zege katika:</u>	
6	Nguzo mlalo	
7	Nguzo wima	
8	Umwagiliaji wa maji	
C.	<u>Kuezeka (Roof structure and covering)</u>	
	Kuezeka na ufungaji wa gata	
	Jumla ndogo kunyanyua jengo	

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

Na.	AINA YA KAZI	BEI YA UFUNDI - Shs
H.	Mifumo ya maji safi na taka (Water Supply and Sewage system)	
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	
	Jumla ndogo Mifumo ya maji safi na taka	

MAJUMUISHO (SUMMARY)		
		Shs
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)	
	JUMLA KUU Shs.	

ANGALIZO:

Fundi anatakiwa kujaza hii fomu kwa kupitia mchoro wa jengo husika

Drawings