

THE UNITED REPUBLIC OF TANZANIA



PRESIDENT'S OFFICE
REGIONAL ADMINISTRATION AND LOCAL GOVERNMENT

PROPOSED STANDARD COUNCIL LEVEL HOSPITALS

Schedule of Material, Labour & Drawings for Out Patient Department
(OPD) Block

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
	<u>MATERIALS</u>				
A.	SUBSTRUCTURE - PROVISIONAL				
1	<u>Strip Foundation - Grade 15 Plain</u>				
	Aggregate (3/4")	83	M ³		
	Sand	42	M ³		
	Cement-50kgs	374	Bags		
2	<u>Foundation Walls</u>				
	6" Cement & Sand Block	7,224	No		
	Sand	23	M ³		
	Cement -50kgs	121	Bags		
3	<u>Moram, Hardcore & Site sterilization</u>				
	Moram (Lorry 4.5M ³)	53	Trips		
	Hardcore (Lorry 4.5M ³)	38	Trips		
	Sand	20	M ³		
	Aldrin solution or equal and other approved	200	Litres		
	20 mm styropol compressive expansion joint material or other equal approved	6	PC'S		
4	<u>Oversite Concrete (100mm thick - 15 grade), Ground Beam - 20 grade & Column base</u>				
	DPM	846	M ²		
	Cement -50kgs	802	Bags		
	Aggregates (1/2")	129	M ³		
	Sand	65	M ³		
	Reinforcement - 16mm diameter high tensile	15	PC'S		
	Reinforcement - 12mm diameter high tensile	177	PC'S		
	Reinforcement - 8mm diameter	222	PC'S		
	Timber 1" X 8" (5.2m long)	41	PC'S		
	Timber 2" X 2"	55	PC'S		
	Nails-4"	40	Kgs		
	Nails-3"	35	Kgs		
	Supporting props	50	PC'S		
	BRC Mesh 200x200 x 6.16kg/m ²	10	PC'S		
	SUB-TOTAL SUB STRUCTURE				

ITEM	DESCRIPTION	QTY	UNIT	PRICE-TZS	AMOUNT
B.	SUPERSTRUCTURE				
1	<u>Walls, Columns & Ring beam</u>				
	6" Cement & Sand Block	10,308	No		
	Cement & Sand perforated Block	1,925	No		
	DPC (20m long)	20	Roll		
	Sand	43	M ³		
	Cement-50kgs	469	Bags		
	Aggregates (1/2")	28	M ³		
	Reinforcement - 16mm diameter high tensile	32	PC'S		
	Reinforcement - 12mm diameter high tensile	152	PC'S		
	Reinforcement - 8mm diameter	188	PC'S		
	Binding Wire - 1kg	45	Bundle		
	Timber 1" X 8" to Sides (5.2m long)	247	PC'S		
	Timber 1" X 5" (Plates)	41	PC'S		
	Timber 2" X 2"	30	PC'S		
	Supporting Props	80	PC'S		
	SUB-TOTAL SUPER STRUCTURE				
C.	ROOF STRUCTURE & COVERING				
1	Roof Structure - Provisional				
	Timber 2" X 3" purlins	3,259	FT		
	Timber 2" X 4" kingpost, struss & Wall plate	4,696	FT		
	Timber 2" X 6" rafters and tie beam	4,175	FT		
	Fascia board 1" X 10" (5.2m long)	37	PC'S		
	Nails -5"	85	Kgs		
	Nails -4"	75	Kgs		
	Nails -3"	65	Kgs		
	NOTE: The above soft wood timber structure should be pressure impregnated treated				
	TO COLLECTION			B/F	

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	1,173	M ²		
	Hips/Ridge - 28 G	73	PC'S		
	valley - 28 G	25	PC'S		
	Roofing Nails	25	Packet		
3	<u>Gutter's</u>				
	Upvc 125mm half round (6m long)-5"	17	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	102	PC'S		
	Gutter Clamp 3"	12	PC'S		
	Connector/reducer	17	PC'S		
	Corner outlet	4	PC'S		
	SUB-TOTAL ROOF STRUCTURE & COVERING				
D.	CEILING				
	Gypsum board -9mm thick	294	PC'S		
	Plain Cornice	301	PC'S		
	Screw 1.25" 500pcs/box	93	Box		
	Gypsum powder	47	Bags		
	Fiber tape	9	Pcs		
	Treated soft wood timber 2" X 2"	8,892	FT		
	Nails 4"	75	Kgs		
	Nails 3"	55	Kgs		
	SUB-TOTAL FOR CEILING				

ITEM	DESCRIPTION	QTY	UNIT	PRICE-TZS	AMOUNT
E.	DOOR				
1	<u>40mm thick solid core flush door shutter</u>				
	1500 x 2100 mm high	9	PC'S		
	1000 x 2100 mm high	24	PC'S		
	800 x 2100 mm high	8	PC'S		
2	<u>Frames (hardwood),Varnish & Glass</u>				
	1500 x 2500 mm high	9	PC'S		
	1000 x 2500mm high	24	PC'S		
	800 x 2100mm high	8	PC'S		
	4mm thick clear glass to Vents	15	SQ.M		
	Brush 3"	10	Pcs		
	Sand paper (msasa) No.80	16	LM		
	Clear Varnish - 4Litres	8	TIN		
	TINA for Varnish -4Litres	4	Litres		
3	<u>Ironmongeries - Union</u>				
	Mortice lock - Three lever	41	No		
	Brass hinges - 100mm	48	Pairs		
	Barrel bolt - 150mm	26	No		
	Wood Screw	3	Box		
	Kick- plate; 1000 x 200mm	48	No		
	Kick- plate; 750 x 200mm	36	No		
	Kick- plate; 800 x 200mm	16	No		
	Hinges double swing -150mm	27.0	Pairs		
	Pushing plate	36	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 & all necessary accessories</u>				
	1600 X 1500mm high	24	PC'S		
	1000 X 750mm high	35	PC'S		
2	<u>Supply and fix Aluminium Windows 2mm thick frame with 5mm thick frosted glass or other equal approved, Mosquitor gauze , ironmongeries & all necessary accessories</u>				
	1600 X 1500mm high	2	PC'S		
3	<u>Supply and fix 32 x 32mm steel square pipe window grill painted red-oxide</u>				
	1600 X 1500mm high	24	PC'S		
	1000 X 750mm high	35	PC'S		
	SUB-TOTAL FOR WINDOWS				
G.	FINISHING				
1	Floor finishing - (ratio 1:4)				
	Sand	38	M ³		
	Cement-50kgs	244	Bags		
	450 X 450 X 8mm thick- Non-slippery porcelain floor tiles -(1.42 sqm/Box)	596	Box		
	Epoxy - Grout (1kg/packet)	127	Bucket		
	Spacer	68	Packet		
	Skirting (600mm long; 25/Box)	48	Box		
	Covered precast slab for drainage system size 700x 500 mm	59	M		
				B/F	
	Drainage system covered with grating	59	M		(See footnote below)
	<u>FOOTNOTE:</u>				
	Its depend on engineer selection either to use Precast Concrete slab or grating to cover drainage system				

ITEM	DESCRIPTION	QTY	UNIT	PRICE-TZS	AMOUNT
				C/F	
2	Wall Finishing				
	Sand	50	M ³		
	Cement-50kgs	310	Bags		
	White cement - 50kg	20	Bags		
	Gypsum powder	121	Bags		
	Sand pepar No.120 (msasa)	2	Roll		
	200 X 300 x 9mm thick Wall tiles to toilets full height -0.96 sqm/Box)	141	Box		
	Epoxy - Grout (1kg/packet)	20	Packet		
	Spacer	11	Packet		
	SUB-TOTAL FOR FINISHING				
H.	PAINTING & DECORATION				
	Emulsion Paint - 20 LTRS	20	buckets		
	Weather guard Paint - 20 LTRS	6	buckets		
	Washable paint -20 LTRS	5	buckets		
	Primer paint -20 LTRS	6	buckets		
	Solvent - 5LTRS	4	TIN		
	Brush 3"	8	Pcs		
	Roller	6	Pcs		
	Gloss paint-4LTR	4	TIN		
	Bitumen paint - 4Litres	5	TIN		
	SUB-TOTAL FOR PAINTING&DECORATION				
J.	BALUSTERS & HANDRAIL				
	50x50mm steel square pipe hand rail	65	m		
	32 x 32 mm steel square pipe Balusters	288	m		

SCHEDULE OF MATERIALS

OPD BLOCK - (GROSS FLOOR AREA =905 SQ.M

ITEM	DESCRIPTION	QTY	UNIT	PRICE-TZS	AMOUNT
K.	ELECTRICAL INSTALLATION & AIR CONDITIONING				
1	Single fluorescent fitting, approved philips or equal	51	No		
2	Double fluorescent fitting, approved philips or equal	6	No		
3	Double switch socket	31	No		
4	Main switch 8way,3PH with intergral RCD	2	No		
5	Single core wire 1.5sqmm - Red	800	m		
6	Single core wire 1.5sqmm - Black	800	m		
7	Single core wire 1.5sqmm -green	600	m		
8	Single core wire 2.5sqmm approved uro or equal red	600	m		
9	Single core wire 2.5sqmm approved uro or equal black	600	m		
10	Single core wire 2.5sqmm approved uro or equal green	600	m		
11	Ceiling fan, approved National or equal	20	PC's		
12	4 core cable 16mmsq	80	M		
13	2 gang one way switch	35	No		
14	2gang two way switch	2	No		
15	20A DP switch	1	No		
16	Gypsum light complete with energy saver 18w	18	No		
18	Earth rod approved copper not less than 1200mm	4	No		
19	Earth wire 4sqmm	40	M		
20	Metal box double	32	No		
21	Metal box single	38	No		
22	Junction box	110	No		
23	Conduit pipe	300	PC's		
24	Elbow	120	PC's		
25	Conduit coupling	100	PC's		
26	Round cover	200	PC's		
27	Round box	30	PC's		
28	fine screw	5	Packet		
29	Plastic clips 22mm	10	Box		
	Air - Condition				
30	Supply and fix LG or equal and approved A.C with all necessary accessories -BTU 18000	1	No		
	SUB-TOTAL ELECTRICAL INSTALLATION & AC				

SCHEDULE OF MATERIALS

OPD BLOCK - (GROSS FLOOR AREA =905 SQ.M

ITEM	DESCRIPTION	QTY	UNIT	PRICE-TZS	AMOUNT
L.	PLUMBING & SANITARY INSTALLATION (PROVISIONAL)				
1	Polypipe 3/4"	115	M		
2	IPS pipe 1/2"	9	PC'S		
3	IPS pipe 3/4"	6	PC'S		
4	Tee connector 3/4"	18	PC'S		
5	Tee coupling 3/4"	17	PC'S		
6	Bush reducing 3/4" x 1/2"	18	PC'S		
7	IPS Elbow 1/2"	31	PC'S		
8	IPS Elbow 3/4"	36	PC'S		
9	IPS tee 1/2"	17	PC'S		
10	IPS nipple 1/2"	36	PC'S		
11	IPS nipple 3/4"	18	PC'S		
12	IPS union 3/4"	18	PC'S		
13	IPS socket 1/2"	38	PC'S		
14	Angle valve 1/2"	30	PC'S		
15	Bib tape pex 1/2"	6	PC'S		
16	Stop cock pex 3/4"	12	PC'S		
17	Flexible pipe	23	PC'S		
18	Thread seal tape	30	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"	17	PC'S		
22	PVC bend 1 1/2"	12	PC'S		
23	PVC tee 1 1/4"	15	PC'S		
24	PVC tee 1 1/2"	8	PC'S		
25	PVC bend 1 1/4"	17	PC'S		
26	PVC plug 1 1/4"	13	PC'S		
27	PVC plug 1 1/2"	10	PC'S		
28	Tangit	3	TIN		
29	PVC socket with Female threads 1 1/4"	15	PC'S		
30	PVC socket with Female threads 1 1/2"	8	PC'S		
31	WC squatting Complete with P trap -Asian type	13	PC'S		
				C/F	

SCHEDULE OF MATERIALS

OPD BLOCK - (GROSS FLOOR AREA =905 SQ.M

ITEM	DESCRIPTION	QTY	UNIT	PRICE-TZS	AMOUNT
				B/F	
32	Toilet shower (shataf)	9	PC'S		
33	Hands wash basin complete with 6" Levers operating for elbow control and its accessories	21	PC'S		
34	Mirror	21	PC'S		
35	Bown Urinal; white vitreous china manufactured by Armitage shanks or other equal approved size 305 x 500 x 390 mm including all necessary fittings and its accessories as per approved	2	PC'S		
36	Stainless kitchen sink single bowl and drain complete with all necessary fittings and its accessories as per approved	4	PC'S		
	SUB-TOTAL FOR PLUMBING AND SANITARY INSTALLATION				

<u>GENERAL SUMMARY</u>		AMOUNT
		TZS
	<u>OPD Block</u>	
A.	SUBSTRUCTURE - PROVISIONAL	
B.	SUPERSTRUCTURE	
C.	ROOF STRUCTURE & COVERING	
D.	CEILING	
E.	DOOR	
F.	WINDOWS	
G.	FINISHING	
H.	PAINTING & DECORATION	
J.	BALUSTERS & HANDRAIL	
K.	ELECTRICAL INSTALLATION & AIR CONDITIONING	
L.	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 (7224 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 (10,308PC'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	

MAJUMUIISHO (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