

THE UNITED REPUBLIC OF TANZANIA



PRESIDENT'S OFFICE
REGIONAL ADMINISTRATION AND LOCAL GOVERNMENT

PROPOSED STANDARD COUNCIL LEVEL HOSPITALS

Schedule of Material, Labour & Drawings for Reproductive and Child
Health (RCH) Block

PROJECT AREA

TANZANIA MAINLAND

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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")	40	M ³		
	Sand	20	M ³		
	Cement-50kgs	180	Bags		
2	<u>Foundation Walls</u>				
	6" Cement & Sand Block	3,416	No		
	Sand	11	M ³		
	Cement -50kgs	57	Bags		
3	<u>Moram, Hardcore & Site sterilization</u>				
	Moram (Lorry 4.5M ³)	24	Trips		
	Hardcore (Lorry 4.5M ³)	13	Trips		
	Sand	10	M ³		
	Aldrin solution or equal and other approved	100	Litres		
4	<u>Oversite Concrete (100mm thick - 15 grade) , Ground Beam - 20 grade & Column base</u>				
	DPM	353	M ²		
	Cement -50kgs	299	Bags		
	Aggregates (1/2")	53	M ³		
	Sand	25	M ³		
	Reinforcement - 16mm diameter high tensile	8	PC'S		
	Reinforcement - 12mm diameter high tensile	82	PC'S		
	Reinforcement - 8mm diameter	101	PC'S		
	Timber 1" X 8" (5.2m long)	22	PC'S		
	Timber 2" X 2"	30	PC'S		
	Nails-4"	25	Kgs		
	Nails-3"	15	Kgs		
	Supporting props	30	PC'S		
	SUB-TOTAL SUB STRUCTURE				

SCHEDULE OF MATERIALS

RCH BLOCK - (GROSS FLOOR AREA =394 SQ.M)

ITEM	DESCRIPTION	QTY	UNIT	PRICE-TZS	AMOUNT
B.	SUPERSTRUCTURE				
1	<u>Walls, Columns & Ring beam</u>				
	6" Cement & Sand Block	4,482	No		
	Cement & Sand louver Block (20 x 20)	2,475	No		
	DPC (20m long)	11	Roll		
	Sand	26	M ³		
	Cement-50kgs	221	Bags		
	Aggregates (1/2")	14	M ³		
	Reinforcement - 16mm diameter high tensile	18	PC'S		
	Reinforcement - 12mm diameter high tensile	85	PC'S		
	Reinforcement - 8mm diameter	122	PC'S		
	Binding Wire - 1kg	15	Bundle		
	Timber 1" X 8" to Sides (5.2m long)	98	PC'S		
	Timber 1" X 5" (Plates)	16	PC'S		
	Timber 2" X 2"	30	PC'S		
	Supporting Props	55	PC'S		
	SUB-TOTAL SUPER STRUCTURE				
C.	ROOF STRUCTURE & COVERING				
1	<u>Roof Structure - Provisional</u>				
	Timber 2" X 3" purlins	1,745	FT		
	Timber 2" X 4" kingpost, struss & Wall plate	2,594	FT		
	Timber 2" X 6" rafters and tie beam	2,624	FT		
	Fascia board 1" X 10" (5.2m long)	25	PC'S		
	Nails -5"	55	Kgs		
	Nails -4"	60	Kgs		
	Nails -3"	45	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	541	SQ.M		
	Hips/Ridge - 28 G	37	PC'S		
	valley - 28 G	3	PC'S		
	Roofing Nails	12	Packet		
3	<u>Gutter's</u>				
	Upvc 125mm half round (6m long)-5"	15	PC'S		
	Upvc 100mm diameter down pipe; Class B	4	PC'S		
	PVC outlet	5	PC'S		
	PVC bend 90'	5	PC'S		
	PVC bend 45'	10	PC'S		
	Gutter support bracket	80	PC'S		
	Gutter Clamp 3"	15	PC'S		
	Connector/reducer	11	PC'S		
	Corner outlet	4	PC'S		
	Corner inner	2	PC'S		
	SUB-TOTAL ROOF STRUCTURE & COVERING				
D.	CEILING				
	Gypsum board -9mm thick	123	PC'S		
	Plain Cornice	136	PC'S		
	Screw 1.25" 500pcs/box	39	Box		
	Gypsum powder	20	Bags		
	Fiber tape	5	Pcs		
	Treated soft wood timber 2" X 2"	4,162	FT		
	Nails 4"	45	Kgs		
	Nails 3"	25	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	2	PC'S		
	1000 x 2100 mm high	13	PC'S		
	800 x 2100 mm high	6	PC'S		
2	<u>Frames (hardwood),Varnish & Glass</u>				
	1500 x 2500 mm high	2	PC'S		
	1000 x 2500mm high	13	PC'S		
	800 x 2100mm high	6	PC'S		
	4mm thick clear glass to Vents	7	SQ.M		
	Brush 3"	5	Pcs		
	Sand paper (msasa) No.80	8	LM		
	Clear Varnish - 4Litres	3	TIN		
	TINA for Varnish -4Litres	2	Litres		
3	<u>Ironmongeries - Union</u>				
	Mortice lock - Three lever	21	No		
	Brass hinges - 100mm	28.5	Pairs		
	Barrel bolt - 150mm	8	No		
	Wood Screw	3	Box		
	Kick- plate; 1000 x 200mm	26	No		
	Kick- plate; 750 x 200mm	8	No		
	Kick- plate; 800 x 200mm	12	No		
	Hinges double swing -150mm	6	Pairs		
	Pushing plate	8	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>				
	1500 X 1500mm high	12	PC'S		
	1000 X 750mm high	7	PC'S		
2	<u>Supply and fix 32 x 32mm steel square pipe window grill painted red-oxide</u>				
	1500 X 1500mm	12	PC'S		
	1000 X 750mm high	7	PC'S		
	SUB-TOTAL FOR WINDOWS				
G.	FINISHING				
1	Floor finishing - (ratio 1:4)				
	Sand	16	M ³		
	Cement-50kgs	102	Bags		
	450 X 450 X 8 mm thick - Non-slippery porcelain floor tiles -(1.42 sqm/Box)	249	Box		
	Epoxy - Grout (1kg/packet)	54	Bucket		
	Spacer	29	Packet		
	Skirting (600mm long; 25/Box)	18	Box		
2	Wall Finishing				
	Sand	35	M ³		
	Cement-50kgs	210	Bags		
	White cement - 50kg	9	Bags		
	Gypsum powder	55	Bags		
	Sand pepar No.120 (msasa)	2	Roll		
	200 X 300 x 9mm thick Wall tiles to toilets full height -0.96 sqm/Box)	134	Box		
	Epoxy - Grout (1kg/packet)	19	Packet		
	Spacer	11	Packet		
	Covered precast slab for drainage system size 700x 500 mm	32	M		
	Drainage system covered with grating	32	M		(See footnote below)
	<u>FOOTNOTE:</u>				
	Its depend on engineer selection either to use Precast Concrete slab or grating to cover drainage system				
	SUB-TOTAL FOR FINISHING				

SCHEDULE OF MATERIALS

RCH BLOCK - (GROSS FLOOR AREA =394 SQ.M)

ITEM	DESCRIPTION	QTY	UNIT	PRICE-TZS	AMOUNT
H.	PAINTING & DECORATION				
	Emulsion Paint - 20 LTRS	12	buckets		
	Weather guard Paint - 20 LTRS	3	buckets		
	Washable paint -20 LTRS	4	buckets		
	Primer paint -20 LTRS	5	buckets		
	Solvent - 5LTRS	3	TIN		
	Brush 3"	7	Pcs		
	Roller	6	Pcs		
	Gloss paint-4LTR	3	TIN		
	Bitumen paint - 4Litres	2	TIN		
	<u>WORK TOPS</u>				
	25mm thick granite to work tops	2	PC'S		
	SUB-TOTAL FOR PAINTING&DECORATION				
J.	BALUSTERS & HANDRAIL				
	2" steel square pipe hand rail	60	m		
	1" steel square pipe Balusters	178	m		
	SUB-TOTAL FOR BALUSTERS				

SCHEDULE OF MATERIALS

RCH BLOCK - (GROSS FLOOR AREA =394 SQ.M)

ITEM	DESCRIPTION	QTY	UNIT	PRICE-TZS	AMOUNT
K.	ELECTRICAL INSTALLATION				
1	Single fluorescent fitting, approved philips or equal	26	No		
2	Double fluorescent fitting, approved philips or equal	0	No		
3	Double switch socket	24	No		
4	Main switch 8way,3PH with integral RCD	1	No		
5	Single core wire 1.5sqmm - Red	300	m		
6	Single core wire 1.5sqmm - Black	300	m		
7	Single core wire 1.5sqmm -green	200	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	11	PC's		
12	4 core cable 16mmsq	30	M		
13	2 gang one way switch	0	No		
14	2gang two way switch	20	No		
15	Cooker control unit	0	No		
16	Lan socket	0	No		
17	Gypsum light complete with energy saver 18w	11	No		
18	Earth rod approved copper not less than 1200mm	1	No		
19	Earth wire 4sqmm	20	M		
20	Metal box double	24	No		
21	Metal box single	22	No		
22	Junction box	35	No		
23	Conduit pipe	120	PC's		
24	Elbow	60	PC's		
25	Conduit coupling	30	PC's		
26	Round cover	50	PC's		
27	Round box	30	PC's		
28	fine screw	5	Packet		
29	Plastic clips 22mm	7	Box		
30	Telephone socket outlet	0	PC's		
	SUB-TOTAL ELECTRICAL INSTALLATION				

SCHEDULE OF MATERIALS

RCH BLOCK - (GROSS FLOOR AREA =394 SQ.M)

ITEM	DESCRIPTION	QTY	UNIT	PRICE-TZS	AMOUNT
L.	PLUMBING & SANITARY INSTALLATION (PROVISIONAL)				
1	Polypipe 3/4"	85	M		
2	IPS pipe 1/2"	5	PC'S		
3	IPS pipe 3/4"	2	PC'S		
4	Tee connector 3/4"	9	PC'S		
5	Connector 3/4"	2	PC'S		
6	Bush reducing 3/4" x 1/2"	11	PC'S		
7	IPS Elbow 1/2"	0	PC'S		
8	IPS Elbow 3/4"	22	PC'S		
9	IPS tee 1/2"	11	PC'S		
10	IPS nipple 1/2"	16	PC'S		
11	IPS nipple 3/4"	11	PC'S		
12	IPS union 3/4"	11	PC'S		
13	IPS socket 1/2"	23	PC'S		
14	Angle valve 1/2"	18	PC'S		
15	Bib tape pex 1/2"	5	PC'S		
16	Stop cock pex 3/4"	11	PC'S		
17	Flexible pipe	14	PC'S		
18	Thread seal tape	20	PC'S		
19	PVC pipe 1 1/2"	2	PC'S		
20	PVC pipe 1 1/4"	4	PC'S		
21	PVC pipe 4' CLASS C"	14	PC'S		
22	PVC bend 1 1/2"	6	PC'S		
23	PVC tee 1 1/4"	11	PC'S		
24	PVC bend with cleaning eye 4"	3	PC'S		
25	PVC tee 1 1/2"	5	PC'S		
26	PVC bend 4"	4	PC'S		
27	PVC plug 1 1/4"	8	PC'S		
28	PVC plug 1 1/2"	3	PC'S		
29	Tangit	3	TIN		
30	PVC gully trap 4"	10	PC'S		
31	PVC socket with Female threads 1 1/4"	11	PC'S		
32	PVC socket with Female threads 1 1/2"	5	PC'S		
33	WC squatting Complete with P trap -Asian type	6	PC'S		
				C/F	

SCHEDULE OF MATERIALS

RCH BLOCK - (GROSS FLOOR AREA =394 SQ.M)

ITEM	DESCRIPTION	QTY	UNIT	PRICE-TZS	AMOUNT
				B/F	
34	Toilet shower (shataf)	4	PC'S		
35	Hands wash basin complete with 6" Levers operating for elbow control and its accessories	11	PC'S		
36	Mirror	11	PC'S		
37	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>RCH BUILDING</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	
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 (3416 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 (4482PC'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 frame za milango	
2	Kufitisha shata za milango pamoja na vitasa	
3	Upakaji wa Varnishi katika milango na frame	
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