

THE UNITED REPUBLIC OF TANZANIA



PRESIDENT'S OFFICE
REGIONAL ADMINISTRATION AND LOCAL GOVERNMENT

PROPOSED STANDARD COUNCIL LEVEL HOSPITALS

Schedule of Material, Labour & Drawings for Radiology Department

PROJECT AREA

TANZANIA MAINLAND

Ministry of Health, Community
Development, Gender, Elderly and Children,
University of Dodoma,
College of Humanities,
& Social Science 11th Building,
P. O. Box 743,
40478 DODOMA.

President's Office,
Regional Administration,
& Local Government,
Mkapa House,
Mlezi Road,
P. O. Box 1923,
41185 DODOMA.

APRIL, 2018

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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")	27	M ³		
	Sand	14	M ³		
	Cement-50kgs	122	Bags		
2	<u>Foundation Walls</u>				
	6" Cement & Sand Block	2,310	No		
	Sand	8	M ³		
	Cement -50kgs	39	Bags		
3	<u>Moram, Hardcore & Site sterilization</u>				
	Moram (Lorry 4.5M ³)	19	Trips		
	Hardcore (Lorry 4.5M ³)	10	Trips		
	Sand	9	M ³		
	Aldrin solution or equal and other approved	50	Litres		
4	<u>Oversite Concrete (100mm thick - 15 grade) Ground Beam - 20 grade, and Column base</u>				
	DPM	274	M ²		
	Cement -50kgs	221	Bags		
	Aggregates (1/2")	38	M ³		
	Sand	19	M ³		
	Reinforcement - 16mm diameter high tensile	2	PC'S		
	Reinforcement - 12mm diameter high tensile	55	PC'S		
	Reinforcement - 8mm diameter	69	PC'S		
	Timber 1" X 8" (5.2m long)	17	PC'S		
	Timber 2" X 2"	15	PC'S		
	Nails-4"	20	Kgs		
	Nails-3"	15	Kgs		
	Supporting props	25	PC'S		
	SUB-TOTAL SUB STRUCTURE				

SCHEDULE OF MATERIALS

RADIOLOGY DEPARTMENT- (GROSS FLOOR AREA =301 SQ.M)

ITEM	DESCRIPTION	QTY	UNIT	PRICE-TZS	AMOUNT
B.	SUPERSTRUCTURE				
1	<u>Walls, Columns & Ring beam</u>				
	6" Cement & Sand Block	4,164	No		
	DPC (20m long)	9	Roll		
	Sand	22	M ³		
	Cement-50kgs	184	Bags		
	Aggregates (1/2")	10	M ³		
	Reinforcement - 16mm diameter high tensile	5	PC'S		
	Reinforcement - 12mm diameter high tensile	62	PC'S		
	Reinforcement - 8mm diameter	132	PC'S		
	Binding Wire - 1kg	15	Bundle		
	Timber 1" X 8" to Sides (5.2m long)	71	PC'S		
	Timber 1" X 5" (Plates)	19	PC'S		
	Timber 2" X 2"	10	PC'S		
	Supporting Props	25	PC'S		
	SUB-TOTAL SUPER STRUCTURE				
C.	ROOF STRUCTURE & COVERING				
1	<u>Roof Structure - Provisional</u>				
	Timber 2" X 3" purlins	1,146	FT		
	Timber 2" X 4" kingpost, struss & Wall plate	2,141	FT		
	Timber 2" X 6" rafters and tie beam	1,805	FT		
	Fascia board 1" X 10" (5.2m long)	17	PC'S		
	Nails -5"	25	Kgs		
	Nails -4"	20	Kgs		
	Nails -3"	15	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 IT resin coated sheet	405	SQ.M		
	Hips/Ridge - 28 G	17	PC'S		
	valley - 28 G	5	PC'S		
	Roofing Nails	9	Packet		
3	<u>Gutter's</u>				
	Upvc 125mm half round (6m long)-5"	14	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	80	PC'S		
	Gutter Clamp 3"	12	PC'S		
	Connector/reducer	12	PC'S		
	Corner outlet	4	PC'S		
	SUB-TOTAL ROOF STRUCTURE & COVERING				
D.	CEILING				
	Gypsum board -9mm thick	96	PC'S		
	Plain Cornice	118	PC'S		
	Screw 1.25" 500pcs/box	30	Box		
	Gypsum powder	16	Bags		
	Fiber tape	4	Pcs		
	Treated soft wood timber 2" X 2"	2,883	FT		
	Nails 4"	20	Kgs		
	Nails 3"	15	Kgs		
	SUB-TOTAL FOR CEILING				

ITEM	DESCRIPTION	QTY	UNIT	PRICE-TZS	AMOUNT
E.	DOOR				
1	<u>40mm thick solid core flush door shutter</u>				
	900 x 2100 mm high	14	PC'S		
	1000 x 2100 mm high	1	PC'S		
	1500 x 2100 mm high	2	PC'S		
2	<u>Frames (hardwood),Varnish & Glass</u>				
	900 x 2500 mm high	9	PC'S		
	900 x 2100 mm high	5	PC'S		
	1000 x 2500mm high	1	PC'S		
	1500 x 2500mm high	2	PC'S		
	4mm thick clear glass to Vents	5	SQ.M		
	Brush 3"	4	Pcs		
	Sand paper (msasa) No.80	5	LM		
	Clear Varnish - 4Litres	2	TIN		
	TINA for Varnish -4Litres	2	Litres		
3	<u>Ironmongeries - Union</u>				
	Mortice lock - Three lever	17	No		
	Brass hinges - 100mm	22.5	Pairs		
	Barrel bolt - 150mm	4	No		
	Wood Screw	2	Box		
	Kick- plate; 900 x 200mm	28	No		
	Kick- plate; 500 x 200mm	2	No		
	Kick- plate; 750 x 200mm	4	No		
	Hinges double swing -150mm	6	Pairs		
	Pushing plate	8	No		
4	<u>Door to Screening & X-RAY</u>				
	Single sliding lead lined stainless steel 18 gauge on either face to meet x-ray room standard including frame and its ironmongeries as per approved	2	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	9	PC'S		
	1600 X 750mm high	4	PC'S		
	1000 X 1500mm high	2	PC'S		
	1000 X 750mm high	8	PC'S		
	1500 X 1500mm high	1	PC'S		
	1200 X 1500mm high	2	PC'S		
2	<u>Supply and fix 32 x 32mm steel square pipe window grill painted red-oxide</u>				
	1600 X 1500mm high	9	PC'S		
	1600 X 750mm high	4	PC'S		
	1000 X 1500mm high	2	PC'S		
	1000 X 750mm high	8	PC'S		
	1500 X 1500mm high	1	PC'S		
	1200 X 1500mm high	2	PC'S		
	SUB-TOTAL FOR WINDOWS				
G.	FINISHING				
1	Floor finishing (ratio 1:4)				
	Sand	13	M ³		
	Cement-50kgs	79	Bags		
	450 X 450 X 8 mm thick - Non-slippery porcelain floor tiles -(1.42 sqm/Box)	193	Box		
	Epoxy - Grout (1kg/packet)	42	Bucket		
	Spacer	30	Packet		
	Skirting (600mm long; 25/Box)	15	Box		
2	Wall Finishing				
	Sand	26	M ³		
	Cement-50kgs	164	Bags		
	White cement - 50kg	8	Bags		
	Gypsum powder	47	Bags		
	Sand pepar No.120 (msasa)	2	Roll		
	200 X 300 x 9mm thick Wall tiles to toilets full height -0.96 sqm/Box)	125	Box		
	Epoxy - Grout (1kg/packet)	18	Packet		
	Spacer	10	Packet		
	SUB-TOTAL FOR FINISHING				

ITEM	DESCRIPTION	QTY	UNIT	PRICE-TZS	AMOUNT
H.	PAINTING & DECORATION				
	Emulsion Paint - 20 LTRS	14	buckets		
	Weather guard Paint - 20 LTRS	3	buckets		
	Washable paint -20 LTRS (light blue green)	4	buckets		
	Primer paint -20 LTRS	3	buckets		
	Solvent - 5LTRS	2	TIN		
	Brush 3"	3	Pcs		
	Roller	4	Pcs		
	Gloss paint-4LTR	3	TIN		
	Bitumen paint - 4Litres	2	TIN		
	WORK TOPS				
	25mm thick granite to work tops	2	PC'S		
	SUB-TOTAL FOR PAINTING&DECORATION				
J.	BALUSTERS & HANDRAIL				
	2" steel square pipe hand rail	20	m		
	1" steel square pipe Balusters	162	m		
	SUB-TOTAL BALUSTERS & HANDRAIL				

SCHEDULE OF MATERIALS

RADIOLOGY DEPARTMENT- (GROSS FLOOR AREA =301 SQ.M)

ITEM	DESCRIPTION	QTY	UNIT	PRICE-TZS	AMOUNT
K.	ELECRICAL INSTALLATION & AIR CONDITIONING				
1	Single fluorescent fitting, approved philips or equal	10	No		
2	Double fluorescent fitting, approved philips or equal	16	No		
3	Double switch socket	12	No		
4	Main switch 8way,3PH with intergral 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	1gang one way switch	4	No		
14	2gang one way switch	15	No		
15	20A DP switch	4	No		
16	Gypsum light complete with energy saver 18w	11	No		
17	Earth rod approved copper not less than 1200mm	1	No		
18	Earth wire 4sqmm	20	M		
19	Industrial socket 3ph	2	No		
20	Metal box double	12	PC's		
21	Metal box single	21	PC's		
22	Junction box	50	No		
23	Conduit pipe	100	PC's		
24	Elbow	30	PC's		
25	Conduit coupling	30	PC's		
26	Round cover	20	PC's		
27	Round box	20	PC's		
28	fine screw	5	Packet		
29	Plastic clips 22mm	3	Box		
30	TV socket	1	No		
	Air - Condition				
31	Supply and fix LG or equal and approved A.C with all necessary accessories -BTU 18000 to Theatre and Delivery rooms	4	No		
	SUB-TOTAL ELECTRICAL INSTALLATION & AC				

SCHEDULE OF MATERIALS

RADIOLOGY DEPARTMENT- (GROSS FLOOR AREA =301 SQ.M)

ITEM	DESCRIPTION	QTY	UNIT	PRICE-TZS	AMOUNT
L.	PLUMBING & SANITARY INSTALLATION (PROVISIONAL)				
1	Polypipe 3/4"	48	M		
2	IPS pipe 1/2"	3	PC'S		
3	IPS pipe 3/4"	1	PC'S		
4	Tee connector 3/4"	2	PC'S		
5	Connector 3/4"	2	PC'S		
6	Bush reducing 3/4" x 1/2"	4	PC'S		
7	IPS Elbow 1/2"	13	PC'S		
8	IPS Elbow 3/4"	8	PC'S		
9	IPS tee 1/2"	11	PC'S		
10	IPS nipple 1/2"	16	PC'S		
11	IPS nipple 3/4"	4	PC'S		
12	IPS union 3/4"	4	PC'S		
13	IPS socket 1/2"	14	PC'S		
14	Angle valve 1/2"	14	PC'S		
15	Stop cock pex '3/4"	4	PC'S		
16	Flexible pipe	11	PC'S		
17	Thread seal tape	10	PC'S		
18	PVC pipe 4' CLASS C"	7	PC'S		
19	PVC tee 1 1/4"	7	PC'S		
20	PVC bend 1 1/4"	9	PC'S		
21	PVC plug 1 1/4"	5	PC'S		
22	Tangit	2	TIN		
23	PVC socket with Female threads 1 1/4"	7	PC'S		
24	WC squatting Complete with P trap -Asian type	4	PC'S		
25	Toilet shower (shataf)	4	PC'S		
26	Hands wash basin complete with 6" Levers operating for elbow control and its accessories	7	PC'S		
27	Mirror	7	PC'S		
	SUB-TOTAL FOR PLUMBING AND SANITARY INSTALLATION				

<u>GENERAL SUMMARY</u>		AMOUNT
		TZS
<u>RADIOLOGY DEPARTMENT</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 (2310 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 (4164 PC'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.	Kuezeka (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