

THE UNITED REPUBLIC OF TANZANIA



PRESIDENT'S OFFICE
REGIONAL ADMINISTRATION AND LOCAL GOVERNMENT

PROPOSED STANDARD COUNCIL LEVEL HOSPITALS

Schedule of Material, Labour & Drawings for Power House

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

ITEM	DESCRIPTION	QTY	UNIT	PRICE-TZS	AMOUNT
	<u>MATERIALS</u>				
A	SUB-STRUCTURE -PROVISIONAL				
1	<u>Strip Foundation - Grade 15 Plain</u>				
	Aggregate (3/4")	5	M ³		
	Sand	3	M ³		
	Cement-50kgs	24	Bags		
2	<u>Foundation Walls</u>				
	6" Cement & Sand Block	322	No		
	Sand	2.0	M ³		
	Cement -50kgs	6	Bags		
3	<u>Moram, Hardcore & Site sterilization</u>				
	Moram (4.5m ³ lorry)	3	Trips		
	Hadcore (4.5m ³ lorry)	2	Trips		
	Sand	2	M ³		
	Aldrin solution or equal and approved (Diluted)	23	Litres		
4	<u>Oversite Concrete (100mm thick - 15 grade) & Ground Beam - 20 grade and column base</u>				
	DPM	24	M ²		
	Cement -50kgs	67	Bags		
	Aggregates (1/2")	12	M ³		
	Sand	6	M ³		
	Reinforcement - 16mm diameter high tensile	2	PC'S		
	Reinforcement - 12mm diameter high tensile	6	PC'S		
	Reinforcement - 8mm diameter	8	PC'S		
	Timber 1" X 8" (5.2m long)	5	PC'S		
	Timber 2" X 2"	5	PC'S		
	Nails-4"	5	Kgs		
	Nails-3"	5	Kgs		
	Supporting props	7	PC'S		
	SUB-TOTAL SUBSTRUCTURE				

ITEM	DESCRIPTION	QTY	UNIT	PRICE-TZS	AMOUNT
B.	SUPERSTRUCTURE				
1	<u>Walls & Ring beam & Columns</u>				
	6" Cement & Sand Block	432	No		
	DPC (20m long)	2	Roll		
	Sand	5	M ³		
	Cement-50kgs	36	Bags		
	Aggregates (1/2")	3	M ³		
	Reinforcement - 16mm diameter high tensile	2	PC'S		
	Reinforcement - 12mm diameter high tensile	5	PC'S		
	Reinforcement - 8mm diameter	6	PC'S		
	Binding Wire - 1kg	5	Bundle		
	Timber 1" X 8" to Sides (5.2m long)	5	PC'S		
	Timber 1" X 5" (Plates)	3	PC'S		
	Timber 2" X 2"	4	PC'S		
	Supporting Props	10	PC'S		
	SUB-TOTAL SUPER STRUCTURE				
C.	ROOF STRUCTURE & COVERING				
1	<u>Roof Structure - Provisional</u>				
	Timber 2" X 3" Purlins	150	FT		
	Timber 2" X 4" King Post, wall plate and struss	312	FT		
	Timber 2" X 6" Rafter and Tie beam	198	FT		
	Fascia board 1" X 10" (5.2m long)	6	PC'S		
	Nails -5"	5	Kgs		
	Nails -4"	5	Kgs		
	Nails -3"	3	Kgs		
	NOTE: The above softwood timber structure should be pressure impregnated treated				
2	<u>Roof Covering -as per ALAF or equal and approved</u>				
	28G IT resincoated sheet	53	M ²		
	Hips/Ridge and valley - 28 G	9	PC'S		
	Roofing Nails	5	Packet		
	TO COLLECTION			C/F	

ITEM	DESCRIPTION	QTY	UNIT	PRICE-TZS	AMOUNT
	ROOF STRUCTURE & COVERING CONT...				
				B/F	
1	Gutter's				
	Upvc 125mm half round (6m long)-5"	12	PC'S		
	Upvc 75mm diametre down pipe; Class B	2	PC'S		
	PVC outlet	2	PC'S		
	PVC bend 90'	2	PC'S		
	PVC bend 45'	2	PC'S		
	Gutter support bracket	18	PC'S		
	Gutter Clamp 3"	4	PC'S		
	Connector/reducer	4	PC'S		
	Gutter corner 90'	2	PC'S		
	SUB-TOTAL ROOF STRUCTURE & COVERING				
E.	<u>CEILING</u>				
	Gypsum board -9mm thick	10	PC'S		
	Plain Cornice (8ft)	11	PC'S		
	Gypsum Screw 1" 800pcs/box	2	Box		
	Screw 1.25" 800pcs/box	3	Box		
	Gypsum powder	2	Bags		
	Fibre tape	1	Pcs		
	Treated softwood Timber 2" X 2"	438	FT		
	Nails 4"	5	Kgs		
	Nails 3"	5	Kgs		
	PVC ceiling with its fittings	5	Pc's		
	SUB-TOTAL FOR CEILING				

ITEM	DESCRIPTION	QTY	UNIT	PRICE-TZS	AMOUNT
F.	DOOR				
1	<u>Mild steel square pipe size 38 x 38mm</u>				
	3000 x 3000mm grills door with 25 x25mm infill grills complete with all Iron mongery and necessary accessories.	1	PC'S		
	Red oxide - 4Litres	1	TIN		
	Thinner for painting -4Litres	1	Litres		
3	<u>IronMongeries</u>				
	Padlock	1	No		
	Brass hinges - 100mm	3.0	Pairs		
	SUB-TOTAL FOR DOORS				
G.	WINDOWS				
1	<u>Supply and fix mild steel frame and grills with 32 x32 mm steel square pipe complete with its ironmongeries</u>				
	3000 X2000mm high	4	PC'S		
	SUB-TOTAL FOR WINDOWS				
H.	FINISHING				
1	<u>Floor finishing - (ratio 1:4)</u>				
	Sand	2	M ³		
	Cement-50kgs	12	Bags		
	450 x 450 x 9mm Non slippery C-tiles to floor (1.42 Sqm/Box)	29	Box		
	Skirting (600 mm long; 25No/Box)	2	Box		
	Epoxy Grout (1kg/packet)	5	Packet		
	Spacer	2	Packet		
2	<u>Wall Finishing</u>				
	Sand	3	M ³		
	Cement-50kgs	18	Bags		
	White cement - 50kg	5	Bags		
	Gypsum powder	6	Bags		
	Sand paper Msasa No.120	1.0	Roll		
	SUB-TOTAL FOR FINISHING				

ITEM	DESCRIPTION	QTY	UNIT	PRICE-TZS	AMOUNT
J.	PAINTING & DECORATION				
	Emulsion Paint - 20 LTRS	1	buckets		
	Weather guard Paint - 20 LTRS	1	buckets		
	Washable paint -20 LTRS	1	buckets		
	Primer paint -20 LTRS	1	buckets		
	Solvent - 5LTRS	1	TIN		
	Brush 3"	1	Pcs		
	Roller	1	Pcs		
	Gloss paint-4LTR	2	TIN		
	Bitumen paint - 4Litres	1	TIN		
	SUB-TOTAL FOR PAINTING&DECORATION				

ITEM	DESCRIPTION	QTY	UNIT	PRICE-TZS	AMOUNT
K.	ELECTRICAL INSTALLATION				
1	Single fluorescent fitting, approved philips or equal	4	No		
2	Double fluorescent fitting, approved philips or equal	4	No		
3	Double switch socket	8	No		
4	Main switch 12way,3PH with intergral RCD as MEM or equal	0	No		
5	Single core wire 1.5sqmm -Red	50	m		
6	Single core wire 1.5sqmm -Black	50	m		
7	Single core wire 1.5sqmm -green	50	m		
8	Single core wire 2.5sqmm -Red	10	m		
9	Single core wire 2.5sqmm -Black	10	m		
10	Single core wire 2.5sqmm Green	10	m		
11	Ceilling fan, approved National or equal	0	PC'S		
12	16mmsq 4 core cable	0	M		
13	One gang one way switch	0	No		
14	3 gang one way switch	0	No		
15	2gang two way switch	1	No		
16	4gang one way switch	0	No		
17	Cooker control unit	0	No		
18	20A DP switch	0	No		
19	Lan socket	0	No		
20	Gypsum light complete with energy saver 18w	0	No		
21	Gypsum light LED complete with energy saver 40w	0	No		
22	Earth rod approved copper not less than 1200mm	0	No		
23	Earth wire 4sqmm	0	M		
24	Plastic clips (22mm)	1	BOX		
25	Conduit pipe	8	PC		
26	Metal box double	1	PC		
27	Metal box single	1	PC		
28	Round cover	5	PC		
29	Junction box	3	PC		
30	Elbow	5	PC		
31	Conduit coupling	5	PC		
32	Fine screw	1	Packet		
33	Round Box	4	PC		
	SUB-TOTAL FOR ELECTRICAL INSTALLATION				

ITEM	DESCRIPTION	QTY	UNIT	PRICE-TZS	AMOUNT
L.	PLUMBING & SANITARY INSTALLATION-PROVISIONAL				
1	Polypipe 3/4	0	m		
2	Tee couplying 3/4	0	PC'S		
3	Angle valve	0	PC'S		
4	IPS Elbow 1/2"	0	PC'S		
5	IPS Elbow 3/4"	0	PC'S		
6	IPS Tee 1/2"	0	PC'S		
7	Flexible pipe	0	PC'S		
8	IPS nipple 1/2"	0	PC'S		
9	IPS nipple 3/4"	0	PC'S		
10	IPS reducing bush 3/4" - 1/2"	0	PC'S		
11	IPS Socket reducing 3/4" - 1/2"	0	PC'S		
12	IPS union 3/4"	0	PC'S		
13	Tee connector 3/4"	0	PC'S		
14	connector 3/4"	0	PC'S		
15	IPS socket 1/2"	0	PC'S		
16	Bib tap pex 1/2"	0	PC'S		
17	Stop cock pex '1/2"	0	PC'S		
18	Stop cock pex '3/4"	0	PC'S		
19	Thread seal tape	0	PC'S		
20	Toilet shower (shataf)	0	PC'S		
21	Ceramic Shower tray 900 x 900 mm complete with all accessories	0	Nr.		
22	working sink size 750x550x200mm deep, ceramic chemical resistance sink	0	Nr.		
23	Armitage shank hand washi basin sink large cataloque no1179334	0	Nr.		
24	Disabled toilet (Western type) complete with horizontal and vertical grab rails	0	Nr.		
25	Armitage shank; spey sluice suite bedpan and bottle sluice suite ; cataloque no 37010JP	0	Nr.		
26	WC Eastern complete as per Armitage or other approved	0	Nr.		
27	Non tap 1 ^{1/2} "	0	Nr.		
28	PVC pipe 1 ^{1/2} "	0	PC'S		
29	PVC pipe 1 ^{1/4} "	0	PC'S		
30	PVC Elbow 1 ^{1/4} "	0	PC'S		
31	PVC Elbow 1 ^{1/2} "	0	PC'S		
				C/F	

ITEM	DESCRIPTION	QTY	UNIT	PRICE-TZS	AMOUNT
				B/F	
32	PVC tee 1 ^{1/4} "	0	PC'S		
33	PVC tee 1 ^{1/2} "	0	PC'S		
34	PVC bend 1 ^{1/2} "	0	PC'S		
35	PVC bend 1 ^{1/4} "	0	PC'S		
36	PVC plug 1 ^{1/4} "	0	PC'S		
37	PVC plug 1 ^{1/2} "	0	PC'S		
38	P- trap 4'	0	PC'S		
39	Tangit	0	TIN		
40	PVC socket reducing 1 ^{1/2} x 1 ^{1/4} "	0	PC'S		
41	PVC socket with Female threads 1 ^{1/4} "	0	PC'S		
42	PVC socket with Female threads 1 ^{1/2} "	0	PC'S		
43	shower rose complete with mixer and stand	0	PC'S		
	SUB-TOTAL FOR PLUMBING AND SANITARY INSTALLATION				

<u>GENERAL SUMMARY</u>		AMOUNT
		TZS
	<u>POWER HOUSE</u>	
A.	SUB-STRUCTURE -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 za msingi (322 No)	
	<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 (432No)	
	<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>	
1	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>	
4	Msingi wa nyumba	
5	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.	<u>Mifumo ya maji safi na taka (Water Supply and Sewage system)</u>	
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.	Kuezeka (Roof structure and covering)	
D.	Milango	
E.	Umalizijaji (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