

THE UNITED REPUBLIC OF TANZANIA



**PRESIDENT'S OFFICE
REGIONAL ADMINISTRATION AND LOCAL GOVERNMENT**

**PROPOSED RESIDENTIAL HOUSE FOR AAS's
(SCHEDULE OF MATERIALS)**

PROJECT AREA

TANZANIA MAINLAND

Department of Infrastructure Development,
President's Office Regional Administration,
& Local Government,
Government City-Mtumba,
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AUGUST, 2021

PO-RALG

SCHEDULE OF MATERIALS
AAS HOUSE
GROSS FLOOR AREA =272 SQ.M

ITEM	DESCRIPTION	QTY	UNIT	PRICE-TZS	AMOUNT
	<u>MATERIALS</u>				
A	<u>SUB-STRUCTURE -PROVISIONAL</u>				
1	<u>Strip Foundation - Grade 15 Plain (34m³)</u>				
	Aggregate (3/4")	18	m ³		
	Sand	9	m ³		
	Cement-50kgs (42.5)	88	Bags		
2	<u>Foundation Walls (310m²)</u>				
	6" Block - Cement & Sand	3,108	No		
	Sand	10	m ³		
	Cement -50kgs (42.5)	78	Bags		
3	<u>Moram, Hardcore & Site sterilization</u>				
	Moram (4.5m ³ lorry)	29	Trips		
	Hardcore 150mm thick - (4.5m ³ lorry)	8	Trips		
	Sand	9	m ³		
	Aldrin solution or other and equal approved (1000mls)	5	Bottle		
4	<u>Oversite Concrete (22.4m³) 100mm thick - 15 grade</u> <u>,Ground Beam (11m³) - 20 grade</u>				
	DPM	224	m ²		
	Cement -50kgs (42.5)	151	Bags		
	Aggregates (1/2")	27	m ³		
	Sand	14	M ³		
	Reinforcement - 12mm diameter high tensile 460N/mm2	70	pc's		
	Reinforcement - 8mm diameter high tensile 460N/mm2	67	pc's		
	Marine board - Size 4ft x 8ft x 18mm thick	14	pc's		
	Timber 2" X 2" (3.5m long)	35	pc's		
	Nails 4"/3' (50Kg per Bag)	1	Bags		
	Supporting props	15	pc's		
	SUB-TOTAL FOR SUBSTRUCTURE				
B.	<u>SUPERSTRUCTURE</u>				
	<u>Walls & Ring beam</u>				
	6" Block - Cement & Sand	4,356	No		
	DPC (20m long)	8	Roll		
	Sand	21	m ³		
	Cement-50kgs	119	Bags		
	Aggregates (1/2")	6	m ³		
	Reinforcement -12mm diameter high tensile 460N/mm2	64	pc's		
	Reinforcement -8mm diameter high tensile 460N/mm2	53	pc's		
	Marine board - Size 4ft x 8ft x 18mm thick	17	pc's		
	Binding Wire - 25kg	2	Bundle		
	Timber 2" X 2" (3.5m long)	30	pc's		
	Supporting Props (3m high)	35	pc's		

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ITEM	DESCRIPTION	QTY	UNIT	PRICE-TZS	AMOUNT
	<u>Suspended Slab - (150mm thick) (3m3): Grade 20</u>				
	Sand - (Lorry 4.5M3)	2	m ³		
	Cement-50kgs	20	Bags		
	Aggregates (1/2") - (Lorry 4.5M3)	4	m ³		
	Reinforcement - 12mm diameter high tensile	38	pcs		
	Binding Wire - 25kg	0.5	Bundle		
	Marine board - Size 4ft x 8ft x 18mm thick	7	pcs		
	Timber 2" X 4" (3m long)	36	pcs		
	Nails-4"	25	Kgs		
	Nails-3"	15	Kgs		
	Supporting Props (Provisional)	80	pcs		
	SUB-TOTAL FOR SUPER STRUCTURE				
C.	<u>ROOF STRUCTURE, COVERING & GUTTER</u>				
1	<u>Roof Structure - Provisional</u>				
	Timber 2 " X 3" Purlins	692	ft		
	Timber 2" X 4" King Post, wall plate and struts	1,917	ft		
	Timber 2" X 6" Tie beam	618	ft		
	Nails -5"	45	Kgs		
	Nails -4"	60	Kgs		
	Nails -3"	70	Kgs		
	16mm diameter mild steel bolt including nuts and washer	132	No		
	NOTE: The above softwood timber structure should be pressure impregnated treated				
2	<u>Roof Covering -as per ALAF</u>				
	28G IT5 resincoated sheet	232	m ²		
	Roofing Nails	9	Packet		
	SUB-TOTAL FOR ROOF STRUCTURE AND COVERING				
D.	<u>CONCRETE GUTTER</u>				
	<u>Concrete roof gutter-Grade "20"</u>				
	Sand - (Lorry 4.5M3)	9	m ³		
	Cement-50kgs	104	Bags		
	Aggregates (1/2") - (Lorry 4.5M3)	14	m ³		
	Reinforcement - 12mm diameter high tensile 460N/mm2	79	pcs		
	Reinforcement - 10mm diameter high tensile 460N/mm2	131	pcs		
	Reinforcement - 8mm diameter high tensile 460N/mm2	65	pcs		
	Binding Wire - 25kg	3	Bundle		
	Marine board - Size 4ft x 8ft x 18mm thick	21	pcs		
	Nails 4"/3' (50Kg per Bag)	3	Bags		
	Water proof material to roof gutter Master seal 501 (25kg) or other equal and approved	11	Buckets		
	PVC Pipe 8" Class C with all necessary fittings	5	pcs		
	SUB-TOTAL FOR ROOF GUTTER				

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ITEM	DESCRIPTION	QTY	UNIT	PRICE-TZS	AMOUNT
E.	<u>CEILING</u>				
	Gypsum board -9mm thick	79	pc's		
	Plain Cornice (8ft)	109	pc's		
	Screw 1.25" 500pcs/box	9	Box		
	Gypsum powder - Ref. ANDIKA	24	Bags		
	Fibre tape (90m)	4	Roller		
	Treated softwood Timber 2" X 2"	2,646	ft		
	Nails 4"/3' (50Kg per Bag)	2	Bags		
	SUB-TOTAL FOR CEILING				
F.	<u>DOOR</u>				
1	<u>40mm thick hardwood (Mninga) paneled door shutter</u>				
	1200 x 2200 mm high double door	1	pc's		
	900 x 2200 mm high	6	pc's		
	800 x 2200 mm high	8	pc's		
2	<u>Frames (hardwood),Varnish & Glass</u>				
	1200 x 2200 mm high double door	1	pc's		
	900 x 2200 mm high	6	pc's		
	800 x 2200 mm high	8	pc's		
	5mm thick clear glass to Vents	8	m ²		
	13 X15 mm glass beads	44	m		
	Brush 3"	6	pc's		
	Sand paper (msasa) No.80 (20m)	2	Roller		
	Clear Varnish - 4Litres	2	TIN		
	Thinner for Varnish	5	Litres		
3	<u>IronMongerries - ref Union</u>				
	Mortice lock Three lever	9	No		
	Mortice lock Two lever	6	No		
	Brass hinges - 100mm	24	Pairs		
	<u>Grill to Door</u>				
4	<u>25 x 4mm thick flat bar grill painted red-oxide with 25 x 25mm square pipes frame and all necessary accessories</u>				
	1200 x 2800 mm high	1	No		
	900 x 2800 mm high	1	No		
	SUB-TOTAL FOR DOORS				

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ITEM	DESCRIPTION	QTY	UNIT	PRICE-TZS	AMOUNT
G.	<u>WINDOWS</u>				
1	<u>Aluminium sliding Window comprising 100mm x 1.2mm thick standard aluminium profile ex-china/Turkey infill with 5mm thick glass complete with mosquito proofing panel, including all accessories, ironmongeries, cutting and pinning lugs</u>				
	1500 X 2300mm high	2	pc's		
	1800 X 1800mm high	8	pc's		
	1500 X 1000mm high	1	pc's		
	1200 X 1000mm high	3	pc's		
	1000 X 1000mm high	1	pc's		
2	<u>25 x 4mm thick flat bar grill painted red-oxide with 25 x 25mm square pipes frame and all necessary accessories</u>				
	1500 X 2300mm high	2	pc's		
	1800 X 1800mm high	8	pc's		
	1500 X 1000mm high	1	pc's		
	1200 X 1000mm high	3	pc's		
	1000 X 1000mm high	1	pc's		
	SUB-TOTAL FOR WINDOWS				
H.	<u>FINISHING</u>				
1	<u>Floor finishing - (ratio 1:4)</u>				
	Sand	9	m3		
	Cement-50kgs (42.5)	52	Bags		
	500 X 500 X 8mm thick - Non-slippery porcelain floor tiles - (1.75sqm/Box)	128	Box		
	Skirting (600 mm long; 25No/Box)	9	Box		
	Grout (1kg/packet)	5	Packet		
	Spacer	3	Packet		
2	<u>Wall Finishing -15mm thick (1:4)</u>				
	Sand	14	m ³		
	Cement-50kgs (42.5)	99	Bags		
	White cement - 40kg	8	Bags		
	Gypsum powder -ref. ANDIKA	20	Bags		
	250 X 400 Wall tiles (1.5Sqm/Box) - Full height	119	Box		
	Sand paper Msasa No.120	1	Roll		
	Tanga stone as per Engineer approval	21	m2		
	SUB-TOTAL FOR FINISHING				
J.	<u>WORKTOPS, CABINETS, AND SHELVES WARDROBES (PROVISIONAL)</u>				
1	<u>Worktops, Cabinets & Shelves (Provisional)</u>				
	Granite sheet to work top - 200 x 62 cm	4	m2		
	1x8" hardwood timber (Mninga)	30	pc's		
	Brush 3"	2	pc's		
	Sand paper (msasa) No.120	5	m		
	Clear Varnish - 4Litres	1	TIN		

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ITEM	DESCRIPTION	QTY	UNIT	PRICE-TZS	AMOUNT
	Thinner for Varnish	4	Litres		
	Nails -3"	15	Kg		
	Nails -2"	20	Kg		
	Sand - (Lorry 4.5M3)	1	m ³		
	Cement-50kgs	9	Bags		
	Aggregates (1/2") - (Lorry 4.5M3)	1	m ³		
	Mesh 50 x 50 - 4ft x 8ft	2	Pcs		
	Door Locks	12	Pcs		
	Hinges 3"	24	Pcs		
	Door Handle	12	Pcs		
2	<u>Wardrobes to Rooms</u>				
	1x8" hardwood timber (Mninga)	86	pc's		
	Brush 3"	8	pc's		
	Sand paper (msasa) No.120	20	m		
	Clear Varnish - 4Litres	5	TIN		
	Thinner for Varnish	10	Litres		
	Nails -3"	15	Kg		
	Nails -2"	20	Kg		
	Looking Mirror - 600 X 2100mm high	3	PCS		
	Door Locks	7	PCS		
	Komeo 3"	4	PCS		
	Hinges 3"	36	PCS		
	Door Handle	7	PCS		
	SUB-TOTAL FOR WORKTOPS,CABINETS, SHELVES AND WARDROBES				
K.	<u>PAINTING & DECORATION</u>				
	Emulsion Paint - 20 LTRS	33	buckets		
	Weather guard Paint - 20 LTRS	4	buckets		
	Washable paint -20 LTRS	10	buckets		
	Primer paint -20 LTRS	3	buckets		
	Solvent - 5LTRS	3	TIN		
	Brush 3"	5	Pcs		
	Roller	3	Pcs		
	Gloss paint-4LTR	2	TIN		
	Bitumen paint - 4Litres	3	TIN		
	Red-Oxide - 4Litres	2	TIN		
	SUB-TOTAL FOR PAINTING&DECORATION				

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ITEM	DESCRIPTION	QTY	UNIT	PRICE-TZS	AMOUNT
L.	<u>SEPTIC TANK,SOAKWAY AND MANHOLES (PROVISIONAL)</u>				
1	<u>SEPTIC TANK (2.2m x 1.5m x 2.5m deep)</u>				
	6" Block - Cement & Sand	266	pc's		
	Sand - (Lorry 4.5M3)	1.04	m ³		
	Cement-50kgs (42.5)	4	Bags		
	Aggregates (1/2") - (Lorry 4.5M3)	0.42	m ³		
	Reinforcement - 10mm diameter high tensile	6	pc's		
	Binding Wire -1kg	5	Kgs		
	Timber 2" X 2" (3m long)	5	pc's		
	Nails-4"	10	Kgs		
	Nails-3"	8	Kgs		
	Supporting Props	2	pc's		
	450 X450mm Cast iron cover	1	pc's		
	100mm diameter PVC vent pipe complete -CLASS B"	1	pc's		
2	<u>SOAK AWAY PIT (4.1m Diameter x 4.8m deep)</u>				
	6" Block - Cement & Sand	868	No		
	25 -50mm broken stones (4.5m3 per trip)	1	Trip		
	Sand - (Lorry 4.5M3)	4	m ³		
	Cement-50kgs (42.5)	15	Bags		
	Aggregates (1/2") - (Lorry 4.5M3)	1	m ³		
	Reinforcement - 10mm diameter high tensile	16	pc's		
	Binding Wire - 1kg	5	Bundle		
	Nails-4"	15	Kgs		
	Nails-3"	11	Kgs		
	Plywood - Size 4ft x 8ft	1	pc's		
	Timber 2" X 2" (3m long)	5	pc's		
	450 X450mm Cast iron cover	1	pc's		
3	<u>Manholes (7No) - 600 x 600</u>				
	6" Block - Cement & Sand	60	pc's		
	Sand - (Lorry 4.5M3)	0.2	m ³		
	Cement-50kgs	2	Bags		
	500 X500mm Cast iron cover	3	pc's		
4	<u>Gully trap (9No) - 150 x 150</u>				
	6" Block - Cement & Sand	6	pc's		
	Sand - (Lorry 4.5M3)	0.2	m ³		
	Cement-50kgs	1	Bags		
	TOTAL MATERIALS FOR SEPTIC,SOAKWAY AND MANHOLES				

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ITEM	DESCRIPTION	QTY	UNIT	PRICE-TZS	AMOUNT
M.	<u>TANK TOWER (PROVISIONAL)</u>				
1	<u>Foundation footing - Insitu plain concrete grade 15</u>				
	Cement 50kg (42.5)	8	bags		
	Sand (lorry 4.5m³)	1	m3		
	Aggregate (3/4") - (Lorry 4.5M3)	2	m3		
2	<u>Foundation Walls (4m²)</u>				
	6" Block - Cement & Sand	56	No		
	Sand - (Lorry 4.5M3)	0.2	m3		
	Cement-50kgs (42.5)	1	Bags		
3	<u>Moram, Hardcore & Site sterilization</u>				
	Moram (4.5m³ lorry)	1	Trips		
	Hardcore (4.5m³ lorry)	1	Trips		
	Sand - (Lorry 4.5M3)	1	m3		
4	<u>Block Walls</u>				
	6" Block - Cement & Sand	154	No		
	Sand - (Lorry 4.5M3)	0.5	m³		
	Cement-50kgs	4	Bags		
5	<u>Suspended slab and Beam-Grade 20</u>				
	Cement-50kgs (42.5)	6	bags		
	Sand (lorry 4.5m³)	0.44	m3		
	Aggregate (3/4") - (Lorry 4.5M3)	1	m3		
	16mm diameter	2	pcs		
	8mm diameter	1	pcs		
	12mm diameter	5	pcs		
	Binding wire-1kg	3	pcs		
	1" x 8" (3.6m)	10	pcs		
	Supporting props	11	pcs		
6	<u>Finishings:</u>				
	15mm thick plaster to block work				
	cement 50kg	4	bag		
	sand (lorry 4.5m³)	1	m³		
	<u>Elevated Storage Tanks</u>				
7	10000 Litres capacity Simtanks	1	No		
8	5000 Litres capacity Simtanks	1	No		
	TOTAL MATERIALS COST				

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ITEM	DESCRIPTION	QTY	UNIT	PRICE-TZS	AMOUNT
N.	<u>PLUMBING & SANITARY INSTALLATION-PROVISIONAL</u>				
1	<u>SANITARY FITTINGS</u>				
	White Vitreous China Floor Standing Back to Wall Rimless Water Closet Complet with necessary fittings as manufactured by RAK or equivalent approved	3	Pcs		
	Overhead Shower with Single Lever Faucet Mixer as manufactured by RAK or approved equivalent	2	Pcs		
	CERA or other equal and approved Bib Cock with Jet Spray or its equivalent approved	3	Pcs		
	1000mm x 600mm Mirror Complet with necessary fittings	4	Pcs		
	White Vitreous China Wall Hung Wash Hand Basin with Half Pedestal and quarter turn faucet as manufactured by RAK or its equivalent	4	Pcs		
	Stainless Steel Kitchen Sink Single bowl / Single drainer with dimensions 460mm x 800mm complete with basket strainer and all other accessories	1	Pcs		
	White Vitreous China Ceramic Shower Tray with Dimensions 800mm x 700mm	2	Pcs		
	Tower rail as manufactured by RAK or other approved	4	Pcs		
	Soap dispenser as manufactured by RAK or other approved	4	Pcs		
	Toilet Paper Holder as manufactured by RAK or other approved	3	Pcs		
	ARISTON or its equivalent Undersink Electrical Water heater with capacity of 15 LTRS to be approved by the Engineer.	4	Pcs		
	<u>Portable Fire Extinguisher</u>				
	CO2, 9ltrs bottle as manufactured by NAFFCO or equal approved.	3	Nos		
	<u>Water Pump</u>				
	1 Horse power	1	No		
2	<u>PIPES AND FIITINGS</u>				
	IPS Pipe 1/2"	8	Pc		
	IPS Elbow 1/2"	68	Pc		
	IPS Nipple 1/2"	48	Pc		
	IPS Tee 1/2"	49	Pc		
	IPS Reducing Socket 3/4 x 1/2"	10	Pc		

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ITEM	DESCRIPTION	QTY	UNIT	PRICE-TZS	AMOUNT
N.	<u>PLUMBING & SANITARY INSTALLATION-CONT'D</u>				
	Adaptor 3/4"	10	Pc		
	Thread Seal Tape	5	Packet		
	Gate Valve 1/2" as per pex or other equal and approved	8	Pc		
	P.V.C Pipe 4"CLASS B	18	M		
	P.V.C Elbow 4"	4	Pc		
	P.V.C Tee 1 1/2"	1	Pc		
	Nipple Socket 1/2"	48	Pc		
	P.V.C Pipe 1 1/2"	1	Pc		
	P.V.C Elbow 1 1/2"	3	Pc		
	P.V.C Plug 1 1/4"	1	Pc		
	P.V.C Pipe 1 1/4"	3	Pc		
	P.V.C Elbow 1 1/4"	16	Pc		
	P.V.C Tee 1 1/4"	8	Pc		
	P.V.C Plug 1 1/4"	8	Pc		
	P Trap 4"	8	Pc		
	Tee Connector 3/4"	7	Pc		
	Poly Pipe -3/4" - provisional	70	Lm		
	TOTAL MATERIALS FOR SANITARY AND PLUMBING INSTALLATION				

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ITEM	DESCRIPTION	QTY	UNIT	PRICE-TZS	AMOUNT
O.	<u>ELECTRICAL INSTALLATION</u>				
	Ceiling light complete with energy saver 18w	16	No		
	Double switch socket ABB or other equal approved	12	No		
	Main switch 12way, 1PH with integral RCD 100A/300mA ABB other equal approved	1	No		
	NB: Cables for 1.5sqmm 2.5sqmm and 4sqmm should be EURO or other equal approved				
	Single core wire 1.5sqmm - Red	2	Roll		
	Single core wire 1.5sqmm - Black	2	Roll		
	Single core wire 1.5sqmm -green	2	Roll		
	Single core wire 2.5sqmm - red	1	Roll		
	Single core wire 2.5sqmm	1	Roll		
	Single core wire 2.5sqmm green	1	Roll		
	Single core wire 4sqmm -Red	15	M		
	Single core wire 4sqmm -Black	15	M		
	Single core wire 4sqmm -Green	15	M		
	16sqmm twin cable	20	M		
	Ceiling fan National or other equal approved	5	PC's		
	1gang 1 way switch ABB or other equal approved	7	No		
	2gang 2 way switch ABB or other equal approved	8	No		
	DP switch 20A ABB or other equal approved	4	No		
	Cooker control unit 45A ABB or other equal approved	1	No		
	Earth rod approved copper 16mm not less than 1200mm	1	No		
	Earth wire 4sqmm	15	M		
	Metal box twin	13	No		
	Metal box single	23	No		
	Junction box	20	No		
	Conduit pipe	100	PC's		
	Elbow	30	PC's		
	Conduit coupling	20	PC's		
	Round cover	25	PC's		
	Round box	11	PC's		
	Fine screw	2	PACKET		
	Data socket	1	No		
	Smoke ditector	4	No		
	plastic clips 22mm	2	BOX		
	Bulk head light fitting	11	PCS		
	Handdrier	3	No		
	<u>AIR CONDITIONING</u>				
	18000BTU, LG A.C or other equal approved with all necessary accessories	1	No		
	TOTAL MATERIALS FOR ELECTRICAL INSTALLATION				

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	<u>GENERAL SUMMARY</u>	AMOUNT
		TZS
	<u>AAS HOUSE</u>	
A.	SUB-STRUCTURE -PROVISIONAL	
B.	SUPERSTRUCTURE	
C.	ROOF STRUCTURE, COVERING & GUTTER	
D.	CONCRETE GUTTER	
E.	CEILING	
F.	DOOR	
G.	WINDOWS	
H.	FINISHING	
J.	WORKTOPS, CABINETS, AND SHELVES WARDROBES (PROVISIONAL)	
K.	PAINTING & DECORATION	
L.	SEPTIC TANK,SOAKWAY AND MANHOLES	
M.	TANK TOWER	
N.	PLUMBING & SANITARY INSTALLATION-PROVISIONAL	
O.	ELECTRICAL INSTALLATION	
	SUB-TOTAL	
P.	<u>ADD:</u>	
	Labour Cost (Ref.Schedule of Labour)	- Ls -
	Transporation Cost (0.25% of Sub-Total above)	- - -
	Preliminary (2% of Sub-Total above)	- - -
	TOTAL ESTIMATED COST - TZS	TZS

Preliminary Include the following items - Setting out working tools, Water for the works,Power and Materials Test)

FOMU Na. 1**Sehemu A:** Maelezo ya awali ya Jengo

Aina ya Jengo.....

Namba ya Zabuni.....

WILAYA.....

MKOA.....

Sehemu B: Taarifa za fundi/Taasisi

Jina kamili la fundi/Taasisi.....

Wilaya:.....

Mkoa:.....

Namba ya Simu:.....

Barua pepe:.....

ANGALIZO

Fundi/Taasisi inatakiwa kujaza fomu hii kwa kupitia Michoro pamoja na kupata maelezo ya mradi kutoka kwa Msimamizi

Sehemu C: Mnyambulisho wa Kazi

Na.	AINA YA KAZI	BEI YA UFUNDI - Shs
1	<u>Msingi wa Jengo (Sub-structure)</u>	
	Kuseti jengo	
	Uchimbaji wa msingi	
	Kufukia	
	<u>Kufunga mbao</u>	
	Pembezoni mwa jamvi	
	Pembezoni mwa nguzo	
	Kuondoa mbao	
	<u>Kumwaga zege</u>	
	Chini kwenye msingi wa tofali	
	Chini kwenye msingi wa nguzo	
	katika nguzo ya awali	
	kwenye jamvi	
	<u>Kuta za Msingi</u>	
	Ujenzi wa tofali (6")	

Na.	AINA YA KAZI	BEI YA UFUNDI - Shs
	<u>Mawe</u>	
	Upangaji wa mawe na utandazaji wa DPM	
	<u>Umwagiliaji</u>	
	Umwagiliaji wa maji	
	Jumla ndogo msingi wa jengo	
2	<u>Kunyanyua jengo (Super-structure)</u>	
	Ujenzi wa tofali za kuta (6") na uwekaji DPC	
	Ujenzi wa "Gutter" la zege na "Slab"	
	<u>Kufunga mbao katika:</u>	
	Nguzo mlalo	
	Nguzo wima	
	'Gutter' la zege na "Slab"	
	<u>Kusuka nondo katika:</u>	
	Nguzo mlalo	
	Nguzo wima	
	'Gutter' la zege na "Slab"	
	<u>Kumwaga zege katika:</u>	
	Nguzo mlalo	
	Nguzo wima	
	'Gutter' la zege na "Slab"	
	<u>Umwagiliaji</u>	
	Umwagiliaji wa maji	
	Jumla ndogo Kunyanyua jengo (Super Structure)	
3	<u>Kuezeka (Roof structure and covering)</u>	
	Usukaji wa Mbao na Uwekaji wa bati	
	Jumla ndogo Kuezeka	
4	<u>Milango & Madirisha</u>	
	Kufitisha fremu za milango	
	Kufitisha shata za milango pamoja na vitasa	
	Upakaji wa Varnishi katika milango na fremu	
	Usimikaji wa dirisha za grill na Aluminium	
	Usimikaji wa Milango ya grill	
	Jumla ndogo Milango na Madirisha	
5	<u>Umaliziaji (Finishing)</u>	
	Upigaji wa lipu pamoja na kutengeneza koplo:	
	Nje ya jengo	
	Ndani ya jengo	
	<u>Sakafu</u>	
	Uwekaji wa sakafu ya kupokea vigae (beds)	
	Uwekaji wa vigae pamoja na grauti katika sakafu (floor tiles)	

Na.	AINA YA KAZI	BEI YA UFUNDI - Shs
	<u>Dali:</u>	
	Ufungaji wa mbao za dali (Branding)	
	Uwekaji wa dali na mikanda ya gypsum	
	Uwekaji wa vigae katika kuta na upakaji grout	
	Uwekaji wa tanga stone katika kuta za nje	
	<u>Worktops na Makabati:</u>	
	Ujenzi wa "worktops" na Makabati	
	Jumla ndogo umaliziaji(finishing)	
6	<u>Rangi na Mapambo (Painting & Decoration)</u>	
	Kupaka rangi mikono mitatu pamoja na skimming katika:	
	Kuta za nje	
	Kuta za ndani	
	Dali	
	<u>Kupaka rangi mikono mitatu katika:</u>	
	Msingi wa nyumba	
	Grill za milango na madirisha	
	Jumla ndogo Rangi na mapambo	
7	<u>Mifumo ya maji safi na taka</u>	
	Ufungaji bomba awamu ya kwanza (Kuchimbua bomba)	
	Ufungaji bomba awamu ya pili (2nd fix) -fittings	
	Ujenzi wa Mashimo ya maji taka na chemba	
	Ujenzi wa "Tank tower" na Usimikaji wa "Matank"	
	Jumla ndogo Mifumo ya maji safi na taka	
	<u>MAJUMUISHO YA GHARAMA ZA UFUNDI</u>	
1	Msingi wa Jengo (Sub-structure)	
2	Kunyanyua jengo (Super-structure)	
3	Kuezeka (Roof structure and covering)	
4	Milango & Madirisha	
5	Umaliziaji (Finishing)	
6	Rangi na Mapambo (Painting & Decoration)	
7	Mifumo ya maji safi na taka	
	JUMLA KUU TShs	

FOMU Na. 2

Sehemu A: Maelezo ya awali

Aina ya Kazi: **Usimikaji wa Mifumo ya Umeme na Viyoyozi**

Namba ya Zabuni.....

WILAYA.....

MKOA.....

Sehemu B: Taarifa za fundi/Taasisi

Jina kamili la fundi/Taasisi.....

Wilaya:.....

Mkoa:.....

Namba ya Simu:.....

Barua pepe:.....

ANGALIZO

Fundi/Taasisi inatakiwa kujaza fomu hii kwa kupitia Michoro ya Umeme pamoja na kupata maelezo ya mradi kutoka kwa Msimamizi

Sehemu C: Mnyambulisho wa Kazi

Na.	AINA YA KAZI	BEI YA UFUNDI - Shs
	<u>Umeme na Mifumo ya Kiyoyozi</u>	
	Uchimbaji wa sehemu za kusimika Conduit na Box	
	Usimikaji wa mifumo ya umeme awamu ya kwanza - Conduit na Box	
	Usukaji wa umeme awamu ya pili (2nd fix)-fittings	
	Ufungaji wa Viyoyozi	
	Jumla Kuu Mifumo ya Umeme na Viyoyozi	