

LOT 3 - CONSTRUCTION OF 1NO,COMMUNITY CENTER AVEYIME COMMUNITY

Item	Description	Qty	Unit	Rate	Total GH¢
	BILL NO. 1				
	CONSTRUCTON OF 1 NO. COMMUNITY CENTER				
	(The Contractor is free to price for additional items under Preliminaries not included in the List below)				
	A: GENERAL CONDITIONS				
	EMPLOYER'S REQUIREMENTS				
A	On-site Administration	1	Item		-
B	Site Meeting and Monitoring of the works	1	Item		-
C	Progress Photographs	1	Item		-
D	Provide adequate security at site	1	Item		-
E	Project Drawing	1	Item		-
F	Insuarances of works	1	Item		-
G	Performance Security	1	Item		-
H	Testing of materials	1	Item		-
	ACCURACY/SETTING OUT GENERALLY				
J	Setting out of the works	1	Item		-
	Facility/Temporary work/Services				
K	Name or sign board	1	Item		-
L	Telephone/Facsimile facilities	1	Item		-
	A40 Contractor's General Cost Items: Managemet and Staff				
M	Provide for general and trade supervision	1	Item		-
	A41 Contractor's General Cost Items: Site Accommodation				
N	Site accommodation for workers	1	Item		-
	PRELIMINARIES/GENERAL CONDITIONS				
	CARRIED FORWARD				
	BROUGHT FORWARD				
	A42 Contractor's General Cost Items: Services and facilities				
A	Power for works	1	Item		-
B	Lighting	1	Item		-
C	Water for works	1	Item		-



D	Health and safety protectives	1	Item	-
E	Storage of materials	1	Item	-
F	Clearing and disposal of general waste after construction	1	Item	-
G	Protection of work in all sections	1	Item	-
H	EPA	1	Item	-
J	Fire Permit	1	Item	-
K	Small plants and tools	1	Item	-
<u>A43 Contractor's General Cost Items: Mechanical plant</u>				
L	Personnel transport	1	Item	-
M	Concrete plant	1	Item	-
<u>A44 Contractor's General Cost Items: Temporary Works</u>				
N	Support scaffolding and propping	1	Item	-
<u>A53 Work by Statutory Authorities</u>				
P	Work by Statutory Authorities	1	Item	-
<u>BILL NO. 1</u>				
<u>GENERAL ITEMS (PRELIMINARIES)</u>				
Carried to General Summay				
<u>BILL NO. 2</u>				
<u>SUBSTRUCTURE</u>				
<u>D10 EARTH WORKS</u>				
<u>Site Preparation</u>				
A	Clear Site of all bush and undergrowth and dispose from site	380	m ²	-
B	Cut off trees girth 0.60m ≤ 1.50m girth	10	No	-
C	Cut off trees girth exceeding 1.50m girth	3	No	-
<u>Excavation and Earthworks</u>				
D	Excavate oversite to remove topsoil average 150mm deep	731	m ²	-
E	Excavate trench not exceeding 1.50 metres deep commencing 150mm below ground level	328	m ³	-
F	Excavate pit not exceeding 1.5 metres deep ditto	120	m ³	-
G	Extra over all kinds of excavation for excavating in rock	3	m ³	-
H	Return, fill in and well ram selected excavated material around foundation	100	m ³	-
J	Remove surplus excavated material from site	30	m ³	-
<u>Hardcore as described, spread, levelled and well rammed and consolidated</u>				
K	Filling in layers not exceeding 225mm thick in making up levels under floors	150	m ³	-
<u>E10: IN-SITU CONCRETE</u>				
<u>Plain in-situ concrete (1:4:8-20mm aggregate) in:</u>				

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L	50mm thick blinding	4	m ³		
M	<u>Plain in-situ concrete (1:4:8-20mm aggregate) in:</u> Foundation	26	m ³		
M	Step and Ramp	2	m ³		
P	150mm thick floor bed spread and leveled	55	m ³		
C/F					
B/F					
A	<u>Reinforced in-situ vibrated concrete (1:2:4-20mm aggregate) as described filled into formwork and packed around reinforcement (both measured separately)</u> Column base	7	m ³		
B	Column	4	m ³		
C	Ground beam	5	m ³		
<u>E30: REINFORCEMENT FOR IN-SITU CONCRETE</u> <u>Supply and fix as described the following mild steel round bar reinforcement with and including all necessary binding wire</u> <u>Column Bases</u>					
D	12mm diameter bars in column base	366	Kg		
<u>Column</u>					
E	16mm diameter bars in column	354	Kg		
F	10mm diameter bars as stirrups	70	Kg		
<u>Ground beam</u>					
G	12mm diameter bars in column	440	Kg		
H	10mm diameter bars as links	96	Kg		
<u>BRC Mesh Reinforcement: BS 4483, hard drawn plain round steel, welded</u>					
J	Steel fabric reinforcement Ref. No. A142 and fixing in bed with 200mm minimum side and end laps (measured net - no allowance made for laps)	270	m ²		
<u>E20: FORMWORK FOR IN-SITU CONCRETE</u> <u>Sawn formwork as described to:</u>					
K	Vertical side of column	34	m ²		
L	Sides of horizontal beam	94	m ²		
M	Vertical side of step	1	m ²		
N	Edge of bed 150mm wide	76	m		
P	Edge of riser 150mm wide	24	m		
C/F					
B/F					
<u>F10: BRICK/BLOCK WALLING</u> <u>Sandcrate, lightweight aggregate blocks, 450mm x 225mm, solid; compressive strength 2.5N/mm² in cement mortar (1:4)</u>					
A	150mm thick wall	300	m ²		

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M20:PLASTERING/RENDERED/ROUGHCAST COATINGS				
Mortar,cement and sand (1:4);steel trowelled				
B	12mm Cement and sand render to wall	70	m ²	-
M60:PAINTING/CLEAR FINISHING				
Prepare and apply three coats of Acrylic emulsion paint on:				
C	Prepare and apply three coats of emulsion paint on rendered wall	70	m ²	-
Surface Treatment				
D	Treat all surfaces of excavation and filling with anti - termite treatment before laying concrete (Dieldrex anti-termites treatment to foundations)	1	item	-
J20: WATER PROOFING				
J31: Transparent polythene sheet				
E	Transparent polythene sheet, to soffit of concrete slab	270	m ²	0.00
F	Allow a provisional sum of (GH¢ 1000.00) for any additional works that may arise from earth works	1	item	0.00
SUBSTRUCTURE				
Carried to Summary				
SUPERSTRUCTURE				
IN-SITU CONCRETE/LARGE PRECAST CONCRETE				
Reinforced in-situ vibrated concrete (1:2:4-20mm aggregate) as described filled into formwork and around reinforcement (both measured separately)				
A	Horizontal beam	5	m ³	-
B	Column	4	m ³	-
E30:REINFORCEMENT FOR IN-SITU CONCRETE				
Mild steel round bar reinforcement to BS4449 in:				
Supply and fix as described the following mild steel round bar reinforcement with and including all necessary binding wire				
Column				
C	Straight or bent,16mm diameter	707	kg	-
D	Links,10mm diameter	138	kg	-
Beam				
E	Straight or bent,16mm diameter	897	kg	-
F	Links,10mm diameter	287	kg	-
E20:FORMWORK FOR IN-SITU CONCRETE				
Sawn Formwork to:				
G	Column	89	m ²	-
H	Beam	72	m ²	-
CONCRETE WORK				
Carried to Summary				
MASONRY				
Sandcrate lightweight aggregate blocks, 450mm x 125mm solid, compresive strength 2.5N/mm2 in cement mortar (1:4)				
J	125mm Wall	389	m ²	-

K	75mm thick honey comb wall	2	m ²	-	-
BLOCKWORK					
Carried to Summary					-
CLADDING/COVERING					
H72: ALUMINIUM SHEET COVERING/FLASHINGS					
Raincoat or equally approved Longspan aluminium corrugated sheets pre-painted standard profile 0.50mm gauge, two corrugations side laps, 150mm end laps, bedded with mastic sealing strips					
A	Roofing coverings, fixing to timber purlins at 1050mm general spacing with galvanised drive screws, nuts, washers, caps, drilling holes, pitch 45 degrees	404	m ²	-	-
B	Preformed Ridge Capping, preformed, 600mm girth, 150mm lapped joints, fixing to timber with galvanised drive screws, nuts, washers and caps	32	m	-	-
C	Preformed nip-cap, preformed, 600mm girth, 150mm lapped joints, fixing to timber with galvanised drive screws, nuts, washers and caps	30	m	-	-
D	150mm side trim fixed to fascia boards	79	m	-	-
E	150mm preformed Gutter, 600mm girth with drop outs	79	m	-	-
COVERING					
Carried to Summary					-
STRUCTURAL/CARCASSING METAL/TIMBER					
G20: CARPENTRY/TIMBER FRAMING/FIRST FIXING					
Hardwood; treated with preservative; sawn					
F	50 x 150mm Ridge Board	30	m	-	-
G	50 x 150mm Hip and Jack Rafters	66	m	-	-
H	50 x 100mm Rafters	493	m	-	-
J	50 x 75mm Purlins	535	m	-	-
K	50 x 50mm Noggings	618	m	-	-
L	50 x 50mm Hangers	98	m	-	-
The following in 7No. Hardwood Trusses, with span over 9.0m, but not exceeding 12.0m, overall height 4.0m, above ground level, including hoisting into position					
M	50x150mm Top chord	66	m	-	-
N	50x150mm Bottom chord	50	m	-	-
P	50x100mm Struts and ties	88	m	-	-
C/F					-
B/F					-
Carpenter's Metalwork					
A	16mm Diameter mild steel rag bolt, 250mm long cast in concrete	24	No	-	-
B	100x100mm Equal angle plate, bolted	6	No	-	-
CARPENTRY					
Carried to Summary					-
JOINNERY/ METAL WORKS					
WINDOWS/DOORS/STAIRS					
Eaves and verge boarding					

	<u>Wrought hardwood as described</u>				
C	25x275mm fascia board	79	m		-
	<u>L20: TIMBER DOORS/SHUTTERS/HATCHES</u>				
	<u>Doors in hardwood; treated with preservative; wrought</u>				
D	44mm thick (finished) hardwood panel Size 1500 x 2050mm	4	No		-
E	Ditto size 900 x 2050mm	2	No		-
	<u>Door and window frames in hardwood, treated with preservative, wrought</u>				
F	50 x 150mm hardwood frame plugged to wall	168	m		-
	<u>Fillet, etc</u>				
G	12mm x 50mm Planted door stops	34	m		-
H	12 x 50mm Window stoper	125	m	-	-
J	25mm x 14mm thick Cover Batten	92	m	-	-
K	Ceiling Batten	280	m	-	-
	<u>Ironmongery</u>				
	<u>Supply and fix the following ironmongery to hardwood with matching screws</u>				
L	100mm Mortice lock set	12	No		-
P	Pair 100mm Brass butt hinges	12	No		-
Q	Pair 75mm Brass butt hinges	12	No		-
R	100mm Brass barrel bolt	12	No		-
	<u>JOINERY</u>				
	Carried to Summary				-
	<u>METALWORK</u>				
	<u>Nasco' anodised aluminium louvre carriers and fittings as produced and marketed by Messers PASICO Gh. Limited, or equal approved in approved mastic sealers and screwed to hardwood</u>				
A	Pair Ditto 1143mm long with clip for 8No. 150mm blades	24	No		-
B	16mm diameter mild steel burglar proof bar	399	Kg	-	-
	<u>Mild steel</u>				
C	2 5mm x 5mm x 50mm mild steel square welded mesh	38	m ²		-
	<u>Sundries</u>				
D	Nylon mosquito proof woven plastic gauze cut to size and fixed to hardwood frame with battens (measured separately)	38	m ²		-
	<u>METALWORK</u>				
	Carried to Summary				-
	<u>ELECTRICAL INSTALLATIONS</u>				
	<u>ELECTRICAL</u>				
E	Include a provisional sum of GH¢50,000.00 for work in connection power from the National Grid to the facility and its associated works.	1	Sum		-
	<u>The rates inserted in the section of the bill of Quantities are to include all cost associated with the material, handling, fixing and contractor's mark-up.</u>				
F	To supply and install electrogalvanised metalclad, Distribution board with 12-Way 1 incoming 100A TPN Adjustable MCCB, CT's indicating light, metering panel, cable termination, with outgoing as per specification and Drawings. Include surge arrestor	1	No		-

G	Supply and install 100A RCD Circute Breaker	1	No		-
CABLES AND ACCESSORIES					
H	1 5mm tropical cables for lighting systems (Red and Black)	240	m		-
J	2 5mm tropical cable for electrical sockets (Red Black and Yellow)	360	m		-
<u>Supply, fix and connect the following complete with all accessories</u>					
K	1 4m Sweep ceiling fan complete with multi-speed /regulator as Crompton Greaves or approved equivalent	8	No		-
M	Ditto 2.5 HP Air Conditioner	8	No		-
T	Ditto 1.5 HP Air Conditioner	4	No		-
		C/F			
		B/F			
LUMINAIRES					
<u>Supply, install and connect the following luminaires with all Necessary accessories complete (lamps, attachment etc.)</u>					
A	1200mm long florescent frame with bulb and associated fittings	25	No		-
FLUSH PLATE SWITCHES					
B	6 Amp, 1 Gang, 2 way, single pole switch	12	No		-
C	6 Amp, 2 Gang, 2 way, single pole switch	5	No	-	-
D	6 Amp, 3 Gang, 2 way, single pole switch	5	No	-	-
SOCKETS					
E	13Amp, 2 Gang socket	13	No		-
CONDUIT					
F	PVC pipes in wall	240	m		-
G	75mm x 75mm conduit box	15	No		-
H	75mm x 150mm conduit box	24	No		-
J	4way Circular conduit box	30	No		-
K	Supply and install suitable earthing system for the above installation	1	item		-
ELECTRICAL INSTALLATIONS					
Carried to Summary					
GLAZING					
L	150mm wide plain/obscre glass louvre blade with slightly round long exposed edges and into metal clip 900mm long clip	200	No		-
Glazing Carried to Summary					
ELEMENT NO. 9: PLUMBING AND ENGINEERING INSTALLATIONS					
	W.C Complete (Twyford)	1	Nr		0,00
	Chromium plated towel rail plugged and screwed to wall	1	Nr		0,00
	500 x 400mm Twyford Wash-hand Basin	1	Nr		0,00
	Ditto Mirror	1	Nr		0,00
Carried to Summary					
M20:PLASTERING/RENDERED/ROUGHCAST COATINGS					
<u>PLASTERWORK AND OTHER FLOOR,</u>					
<u>WALL, AND CEILING FINISHINGS</u>					
<u>In-situ finishings 12mm Cement and sand render (1:4) on concrete and blockwork</u>					

A	Wall	2200	m ²	-	-
B	Column	8	m ²	-	-
	25mm Cement and sand render (1:3) on concrete and blockwork				
C	Wall, as writing board	9	m ²	-	-
	Plain sheet finishings				
D	6mm Plywood (Redwood) ceiling lining, fixed to horizontal soffits of hardwood noggings and joists	365	m ²	-	-
	Beds and backings				
	Cement and sand (1:3) as described on blockwork or concrete				
E	50mm Level paving, trowelled smooth	365	m ²	-	-
G	600 x 600 x 6mm thick porcelain floor tiles including extra for round edges bedded and jointed in cement and sand mortar (1:4) and pointed in mixture of white cement on floated backing to washroom	365	m ²	-	-
N	150 x 150 x 6mm thick white ceramic wall tile jointed in cement mortar on wall	81	m ²	-	-
	PLASTERWORK AND OTHER FLOOR				
	WALL AND CEILING FINISHINGS				
	Carried to Summary				-
	PAINTING AND DECORATING				
	Prepare and apply one under coat as skimming to wall				
F	Skimming to wall	2 400.00	m ²	-	-
G	Prime back only joinery before fixing	68	m ²	-	-
	Prepare and apply three coats of Acrylic emulsion paint on				
H	Rendered wall	2 400.00	m ²	-	-
J	Soffits of plywood ceiling	365	m ²	-	-
	Knot, prime, stop and paint two undercoats and one finishing coat of leyland/leylac oil paint on woodwork				
K	General surfaces	52	m ²	-	-
L	Surfaces not exceeding 300mm girth	20	m ²	-	-
M	Approved writing board paint on rendered walls	20	m ²	-	-
	PAINTING AND DECORATING				
	Carried to Summary				-
	SUMMARY				
	BILL NO. 2				
	SUBSTRUCTURE				-
	CONCRETEWORK				-
	BLOCKWORK				-

	ROOFING				
	CARPENTRY				
	JOINERY				
	METALWORK				
	ELECTRICAL INSTALLTION				
	GLAZING				
	PLASTERWORK AND OTHER FLOOR WALL AND CEILING FINISHINGS				
	ELEMENT NO. 9: PLUMBING AND ENGINEERING INSTALLATIONS				
	PAINTING AND DECORATING				
	CONSTRUCTON OF 1 NO. COMMUNITY CENTER				
	Carried to General Summary				
	BILL NO. 4 EXTERNAL WORKS				
	APRON				
	Excavation and Earthworks				
A	Excavate trench not exceeding 1.50m metres deep commencing 150mm below ground level	328	m ³	-	
B	Return, fill in and well ram selected excavated material around foundation	100	m ³	-	
C	Remove surplus excavated material from site	50	m ³	-	
	<u>Hardcore as described, spread, levelled and well rammed and consolidated</u>				
D	Filling in layers not exceeding 225mm thick in making up levels under floors	50	m ³	-	
	<u>Concrete Work</u>				
E	Plain in-situ concrete (1:3:6-40mm aggregate) as described foundation in trenches	1	m ³	-	
F	Concrete Slab	1	m ³	-	
	<u>Formwork</u>				
	Sawn formwork to				
G	Edge of slab, 100mm wide	30	m	-	
	<u>Blockwork</u>				
	<u>Sandcrete blockwork in cement and sand (1:4) mortar</u>				
H	125mm thick solid wall	80	m ²	-	
J	20mm Cement and sand render to wall	40	m ²	-	
K	Prepare and apply three coats of emulsion paint on rendered wall	15	m ²	-	
	BILL NO.4: EXTERNAL WORKS (APRON)				
	Carried to General Summary				
	GENERAL SUMMARY				

	BILL NO.1 - GENERAL CONDITIONS OF CONTRACT AND PRELIMINARIES				
	BILL NO. 2-CONSTRUCTON OF 1 NO. COMMUNITY CENTER				
	BILL NO.3 - EXTERNAL WORKS (APRON)				
	SUB-TOTAL				
	INCLUDE PROVIONAL SUM OF GHS_____ FOR 4-SEATER WATER CLOSET				
	TOTAL				
	COST CARRIED TO FORM				
	COST CARRIED TO FORM (EUR)				

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