

Item	Description	Qty	Unit	Rate	Total (GH¢)
CONSTRUCTION OF KITCHEN WITH OFFICE AND STORE AND I-UNIT WC ATTACHED TO THE HEAD MASTERS OFFICE FOR BOTOKU VOCATIONAL AND TECHNICAL INSTITUTE					
<u>BILL NO.1 PRELIMNARIES</u>					
<u>SPECIFIC REQUIREMENT</u>					
1	Performance Security	Item	1		
4	Setting out of works	Item	1		
<u>METHOD RELATED CHARGES</u>					
5	Supply and Errection of signboard	Item	1		
6	Allow for clearing of site on completion	Item	1		
8	Water for works	Item	1		
9	Allow for protection and watching	Item	1		
10	Provide for safety equipment clothing	Item	1		
BILL No. 1 CARRIED TO SUMMARY					

ITEM	DESCRIPTION	QTY	UNIT	RATE GHC	AMT GHC
<u>CONSTRUCTION OF 1-UNIT WC</u>					
<u>BILL NO. 1</u>					
<u>SUBSTRUCTURE</u>					
<u>Excavation and Earthworks</u>					
A	Crefully Clear site and demolish all existing structures and disposed all debries off site about 20m away.	6	SM		
B	Excavate trench not exceeding 1.50 metres deep commencing 150mm below ground level	2	m ³		
C	Return, fill in and well ram selected excavated material around foundation	1	m ³		
D	Remove surplus excavated material from site	1	m ³		
<u>Hardcore as described, spread, levelled and well rammed and consolidated</u>					
F	Filling in layers not exceeding 225mm thick in making up levels under floors	3	m ³		
<u>Concrete Work</u>					
G	50mm Plain in-situ concrete (1:4:8-20mm aggregate) as described bed spread and levelled as blinding	1	m ³		
H	Plain in-situ concrete (1:3:6-40mm aggregate) as described in foundation trenches	1	m ³		
Carried forward					

ITEM	DESCRIPTION	QTY	UNIT	RATE GHC	AMT GHC
	Brought forward				
	<u>Reinforced in-situ vibrated concrete (1:2:4-20mm aggregate) as described filled into formwork and packed around reinforcement (both measured separately)</u>				
A	Column base	1	m ³		
B	Column	1	m ³		
C	100mm Mass concrete floor bed spread and levelled	1	m ³		
	<u>Supply and fix as described the following mild steel round bar reinforcement with and including all necessary binding wire:</u>				
D	12 Diameter bars in column base	3	Kg		
E	12mm Diameter bars in column	11	Kg		
F	10mm Diameter bars as links and stirrups	3	Kg		
	<u>Sawn formwork as described to:</u>				
G	Vertical sides of column	2	m ²		
H	Edge of bed, 150mm wide	6	m		
	<u>Blockwork</u>				
J	150mm Solid sandcrete blockwork in cement mortar (1:4) as described	7	m ²		
	<u>SUBSTRUCTURE</u>				
	Carried to Summary				

ITEM	DESCRIPTION	QTY	UNIT	RATE GHC	AMT GHC
	<u>SUPER STRUCTURE</u>				
	<u>CONCRETE WORK</u>				
	<u>Reinforced in-situ vibrated concrete (1:2:4-20mm aggregate) as described filled into formwork and around reinforcement (both measured separately)</u>				
A	Horizontal beam	1	m ³		
B	Column	1	m ³		
	<u>Supply and fix as described the following mild steel round bar reinforcement with and including all necessary binding wire to BS 4449</u>				
C	12mm Diameter in beams	40	kg		
D	12mm Diameter bars in column	21	Kg.		
E	10mm Diameter bars, stirrups in beams	5	Kg		
F	10mm Diameter bars, stirrups in column	4	Kg.		
	<u>Sawn formwork as described to:</u>				
G	Vertical sides of column	4	m ²		
H	Sides and soffit of horizontal beam	12	m ²		
	<u>CONCRETE WORK</u>				
	Carried to Summary				
	<u>BLOCKWORK</u>				
	<u>Solid sandcrete blockwork in cement mortar (1:4) as described in:</u>				
A	125mm Wall	15	m ²		
	<u>BLOCKWORK</u>				
	Carried to Summary				

ITEM	DESCRIPTION	QTY	UNIT	RATE GHC	AMT GHC
	<u>ROOFING</u>				
	<u>Colour corrugated aluminium sheet roofing - Light Green</u>				
	<u>0.3mm Gauge Long span Corrugated Aluminium</u> <u>deep troughed trapezoidal roof sheeting as</u> <u>manufactured</u>				
B	Roof Sheeting	5	m ²		
	<u>ROOFING</u>				
	Carried to Summary				
	<u>CARPENTRY</u>				
	<u>Structural Timbers</u>				
	<u>All timber in this section to be treated 'Redwood'</u> <u>unless otherwise stated</u> <u>Sawn hardwood as described</u>				
A	50 x 150mm rafter	8	m		
B	50 x 100mm purlin	9	m		
	<u>CARPENTRY</u>				
	Carried to Summary				
	<u>JOINERY</u>				
C	25 x 300mm Fascia board	8	m		
	<u>DOORS AND WINDOWS</u>				
	<u>Doors</u>				
	<u>Wrought hardwood as described</u>				
E	44mm thick solid Pannel door size 800 x 1700mm 800 x 1700mm Complete	2	No		
	<u>Frames</u>				
F	50mm x 150mm treated hardwood as door frames	13	Lm		
	<u>JOINERY</u>				
	Carried to Summary				

ITEM	DESCRIPTION	QTY	UNIT	RATE GHC	AMT GHC
	<u>METAL GLAZING WORKS</u>				
	Aluminium naco louvre carriers screwed to hardwood frames				
A	Pair Naco louvre carriers 600mm long with clips for 4No. 150mm wide blades with dual cotrol	2	No		
B	150mm wide clear sheet naco louvre blade with long edges polished and fixed ends into metal clips	8	No		
	<u>GLAZING & METALWORK</u>				
	Carried to Summary				
	<u>PLUMBING INSTALLATION</u>				
	<u>Supply and fix the following coloured sanitary appliances and equipment</u>				
C	"Twyford" or other equal and approved low level W.C suite complete with 9 litre ceramic cistern and brackets, plastic hinged seat, "S" or "P" trap pan including plugging and fixings to wall.	1	No.		
D	Lavatory basin size 550 x 400mm with 32mm chromium plated waste fitting, pair of 19mm chromium plated pillar taps with brackets including plugged and fixing to wall	1	No.		
E	Chromium plated toilet roll holder plugged and screwed to concrete or block wall	1	No.		
F	Chromium plated towel rails 600mm long plugged and screwed to concrece or block wall	1	No.		
G	Rambo140PolyTank	1	No		
	<u>SEPTIC TANK</u>				
J	Allow a Provisional Sum of SIX HOUSAND GHANA CEDIS (GHC 6,000) Bio-digester tank, Deck for poly tank and the like to be expended at the Employer's Instruction		Item		6,000.00
	<u>PLUMBING INSTALLATION</u>				
	Carried to Summary				

ITEM	DESCRIPTION	QTY	UNIT	RATE GHC	AMT GHC
	<u>ELECTRICAL WORKS</u>				
	Supply and fix the following electrical gadgets:				
A	Allow a Provisional Sum of FOURTHOUSAND GHANA CEDIS (Ghc 4,000) For electrical works		Item		4,000.00
B	Energy saving 20W bulbs	2	No		
	Sub-Total				
	15% for attendance				
	10% for profit				
	Electrical carried to summary				
	<u>PLASTERWORK AND OTHER FLOOR, WALL, AND CEILING FINISHINGS</u>				
	<u>In-situ finishings</u>				
	<u>16mm Cement and sand render (1:4) on concrete and blockwork</u>				
C	Walls	17	m ²		
	<u>Tile, Slab or Block Finishings</u>				
	<u>Ceramic Wall Tiling</u>				
C	200 x 300 x 6mm thick glazed ceramic wall tiles fixed with an approved adhesive and pointed in white cement on floated backing (measured separately) in Kitchen, hall and wash rooms	5	m ²		
	<u>Porcelain Floor Tiling</u>				
D	300 x 300 x 6mm non-slip porcelain floor tiles fixed with an approved adhesive and pointed with approved grout on cement sand backing (measured separately) in Kitchen, hall and the wash rooms	4	m ²		
E	100mm high non-slip porcelain skirting	5	Lm		
	<u>Beds and backings</u>				
	<u>Cement and sand (1:3) as described on blockwork or concrete</u>				
A	19mm Thick floated backing to receive wall tiles	5	m ²		
B	40mm Thick screeded to receive floor tiles	4	m ²		
	<u>PLASTERWORK AND OTHER FLOOR WALL AND CEILING FINISHINGS</u>				
	Carried to Summary				

ITEM	DESCRIPTION	QTY	UNIT	RATE GHC	AMT GHC
<u>PAINING AND DECORATING</u>					
E	Prime back only joinery before fixing	9	m		
<u>Prepare and apply three coats of Leyland emulsion paint, on</u>					
F	Rendered wall	9	m ²		
<u>Knot, prime, stop and paint two undercoats</u>					
<u>and one finishing coat of leyland/leylac oil paint</u>					
<u>on woodwork</u>					
<u>Prepare and apply two undercoats and one</u>					
<u>finishing coat of leyland/leylac oil paint on:</u>					
G	General surfaces of hardwood	3	m ²		
<u>PAINING AND DECORATING</u>					
<u>Carried to Summary</u>					

ITEM	DESCRIPTION	QTY	UNIT	RATE GHC	AMT GHC
	<u>SUMMARY</u>				
	<u>BILL NO. 1</u>				
	SUBSTRUCTURE				
	CONCRETEWORK				
	BLOCKWORK				
	ROOFING				
	CARPENTRY				
	GLAZING & METAL WORKS				
	PLUMBING INSTALLATION				
	ELECTRICAL INSTALLATIONS				
	PLASTERWORK AND OTHER FLOOR, WALL AND CEILING FINISHINGS				
	PAINING AND DECORATING				
	MATTRESS				
	<u>BILL NO. 1</u>				
	CARRIED TO GENERAL SUMMARY				

ITEM	DESCRIPTION	QTY	UNIT	RATE GHC	AMT GHC
<u>GENERAL SUMMARY</u>					
A	BILL NO.1 PRELIMNARIES.....A				
B	BILL NO. 2 KITCHENB				
C	1-UNIT WCC				
TOTAL PRICE CARRIED TO FORM OF TENDERE=(A+B+C)					
SIGNED.....					
FOR & BEHALF OF CONTRACTOR					
NAME.....					
DATE.....					

ITEM	DESCRIPTION	QTY	UNIT	RATE GHC	AMT GHC
<u>CONSTRUCTION OF KITCHEN WITH OFFICE AND STORE FOR BOTOKU</u>					
<u>VOCATIONAL AND TECHNICAL INSTITUTE</u>					
<u>BILL NO.2</u>					
<u>SUBSTRUCTURE</u>					
<u>Excavation and Earthworks</u>					
A	Clear site of all bushes, scrub undergrowth cut down trees not exceeding 900mm girth and remove from site	175	sm		
B	Excavate over site average 150mm deep to remove vegetable top soil and remove from site	175	sm		
C	Cut down trees exceeding 600mm but not exceeding 900mm girth grub up roots and fill void with laterite	6	No		
D	Excavate trench not exceeding 1.50 metres deep commencing 150mm below ground level	30	m ³		
E	Excavate pit not exceeding 1.5 metres deep ditto	7	m ³		
F	Extra over all kinds of excavation for excavating in rock	3	m ³		
G	Return, fill in and well ram selected excavated material around foundation	8	m ³		
H	Remove surplus excavated material from site	3	m ³		
<u>Hardcore as described, spread, levelled and well rammed and consolidated</u>					
J	Filling in layers not exceeding 225mm thick in making up levels under floors	71	m ³		
<u>Concrete Work</u>					
K	50mm Plain in-situ concrete (1:4:8-20mm aggregate) as described bed spread and levelled as blinding	39	m ²		
L	Plain in-situ concrete (1:3:6-40mm aggregate) as described in foundation trenches	6	m ³		
Carried forward					

ITEM	DESCRIPTION	QTY	UNIT	RATE GHC	AMT GHC
	Brought forward				
	<u>Reinforced in-situ vibrated concrete (1:2:4-20mm aggregate) as described filled into formwork and packed around reinforcement (both measured separately)</u>				
A	Column base	2	m ³		
B	Column	1	m ³		
C	100mm Mass concrete floor bed spread and levelled	24	m ³		
D	Ramps	3	m ³		
	<u>Supply and fix as described the following mild steel round bar reinforcement with and including all necessary binding wire:</u>				
E	14 Diameter bars in column base	30	Kg		
F	14mm Diameter bars in column	198	Kg		
G	10mm Diameter bars as links and stirrups	35	Kg		
	<u>Sawn formwork as described to:</u>				
H	Vertical sides of column	26	m ²		
J	Edge of bed, 150mm wide	52	m		
	<u>Blockwork</u>				
K	150mm Solid sandcrete blockwork in cement mortar (1:4) as described	130	m ²		
	<u>SUBSTRUCTURE</u>				
	Carried to Summary				

ITEM	DESCRIPTION	QTY	UNIT	RATE GHC	AMT GHC
	<u>SUPER STRUCTURE</u>				
	<u>CONCRETE WORK</u>				
	<u>Reinforced in-situ vibrated concrete (1:2:4-20mm aggregate) as described filled into formwork and around reinforcement (both measured separately)</u>				
A	Horizontal Lintel	5	m ³		
B	Column	4	m ³		
	<u>Supply and fix as described the following mild steel round bar reinforcement with and including all necessary binding wire to BS 4449</u>				
C	14mm Diameter in beams	621	kg		
D	14mm Diameter bars in column	527	Kg.		
F	10mm Diameter bars, stirrups in beams	199	Kg		
G	10mm Diameter bars, stirrups in column	90	Kg.		
	<u>Sawn formwork as described to:</u>				
H	Vertical sides of column	68	m ²		
J	Sides and soffit of horizontal beam	58	m ²		
	<u>CONCRETE WORK</u>				
	Carried to Summary				

ITEM	DESCRIPTION	QTY	UNIT	RATE GHC	AMT GHC
	<u>BLOCKWORK</u>				
	<u>Solid sandcrete blockwork in cement mortar (1:4) as described in:</u>				
A	125mm Wall	149	m ²		
	<u>BLOCKWORK</u>				
	Carried to Summary				
	<u>ROOFING</u>				
	<u>Green</u>				
	<u>0.4mm Gauge long span Corrugated Aluminium deep troughed trapezoidal roof sheeting as manufactured</u>				
B	Roof Sheeting	239	m ²		
C	Extra over roofing for matching ridge cap, 600mm girth	17	m		
D	Ditto, hip cap		m		
E	Ditto, barge end trimmer	62	m		
F	Ditto, "U" shaped rain water gutter girth 450mm	33	m		
G	<u>ROOFING</u>				
	Carried to Summary				

ITEM	DESCRIPTION	QTY	UNIT	RATE GHC	AMT GHC
	<u>CARPENTRY</u>				
	<u>Structural Timbers</u>				
	<u>All timber in this section to be treated 'Redwood'</u>				
	<u>unless otherwise stated</u>				
	<u>Sawn hardwood as described</u>				
A	50 x 150mm wall plate	33	m		
B	50 x 150mm rafter	201	m		
C	50 x 150mm hip rafter		m		
D	50 x 100mm purlin	267	m		
E	50 x 100mm tie beam	8	m		
F	50 x 100mm king post	24	m		
G	50 x 100mm struct	130	m		
H	50x50mm nogging		m		
J	50x50mm hangers		m		
	<u>CARPENTRY</u>				
	Carried to Summary				

ITEM	DESCRIPTION	QTY	UNIT	RATE GHC	AMT GHC
	<u>JOINERY</u>				
A	25 x 300mm Fascia board	62	m		
	<u>DOORS AND WINDOWS</u>				
	<u>Doors</u>				
	<u>Wrought hardwood as described</u>				
B	1800x1200mm Timber framed and Match boarded double door	4	No		
C	900x2100mm Timber framed and panelled single door	2	No		
D	750x2100mm Timber framed and panelled single door		No		
	<u>FRAMED FRAMES</u>				
	<u>Door & Window Frames</u>				
	<u>Erect, plumb, level and build in the following 50 x 150mm</u>				
	<u>hardwood frame as block work proceeds</u>				
E	Door and window frame of various sizes (50mm x 1500	60	LM		
	<u>JOINERY</u>				
	Carried to Summary				
	<u>METAL WORK</u>				
	Aluminium naco louvre carriers screwed to hardwood frames				
F	Pair plastic louvre carriers 1125mm long with clips for 8No. 150mm wide blades with dual cotrol	8	No		
G	Pair plastic louvre carriers 1125mm long with clips for 6No. 150mm wide blades with dual cotrol		No		
H	Pair plastic louvre carriers 1125mm long with clips for 4No. 150mm wide blades with dual cotrol	4	No		
J	16mm diameter mild steel bars cut to size and threaded through frames	50	Lm		
K	50 × 50mm welded mesh burglar proofing	6	sm		
L	Fly proof wire gauze nailed to hardwood window frames with 13 × 50mm hardwood battens all inclusive.	6	sm		
	<u>Metal works Carried to Summary</u>				

ITEM	DESCRIPTION	QTY	UNIT	RATE GHC	AMT GHC
A	<p><u>GLAZING</u> 150mm wide clear sheet naco louvre blade with long edges polished and fixed ends into metal clips</p> <p><u>GLAZING & METALWORK</u> Carried to Summary</p> <p><u>PLUMBING</u> <u>Supply and fix the following coloured sanitary appliances and equipment</u></p>	80	No		
B	<p>Include a provisional sum of GH¢ 5,000 for plumbing pipe work as directed by the consultant</p> <p><u>Sanitary appliance</u> <u>Provide, unloaded, assemble and install the following sanitary appliance where shown on drawings</u></p> <p><u>PLUMBING</u> Carried to Summary</p>	Item		5,000.00	5,000.00

ITEM	DESCRIPTION	QTY	UNIT	RATE GHC	AMT GHC
	<u>ELECTRICAL INSTALLATION</u>				
	Supply and install electricity in the building:				
A	Include a provisional sum of GH¢ 7000 for providing internal and external electrical cables including VRA service connection	Item		7,000.00	7,000.00
B	Ceiling Fans	1	No		
C	Energy saving bulbs	10	No		
D	2.5 Sockets	2	No		
E	1.5 Sockets	1	No		
F	Switches	4	No		
G	2-way switches		No		
H	Fan Hooks	1	No		
J	Ceiling Rose	1	No		
	Electrical Works Carried to Summary				

ITEM	DESCRIPTION	QTY	UNIT	RATE GHC	AMT GHC
	<u>PLASTERWORK AND OTHER FLOOR, WALL, AND CEILING FINISHINGS</u>				
	<u>In-situ finishings</u>				
	<u>16mm Cement and sand render (1:4) on concrete and blockwork</u>				
A	Wall	307	m ²		
	<u>Terazo, Slab or Block Finishings</u>				
	<u>Terazo</u>				
B	Quality washed terazo floor finishes on cemet and sand floor finish	157	Sm		
C	Wall tiles 400 x 250 x 6mm wall tiles	7	Sm		
	<u>Beds and backings</u>				
	<u>Cement and sand (1:3) as described on blockwork or concrete</u>				
E	19mm Thick floated backing to receive wall tiles	7	m ²		
F	19mm Thick floated backing to receive floor tiles	157	m ²		
	<u>PLASTERWORK AND OTHER FLOOR WALL AND CEILING FINISHINGS</u>				
	Carried to Summary				

ITEM	DESCRIPTION	QTY	UNIT	RATE GHC	AMT GHC
<u>PAINING AND DECORATING</u>					
A	Prime back only joinery before fixing <u>Prepare and apply three coats of Leyland emulsion paint, on</u>	64	m		
B	Rendered wall <u>Knot, prime, stop and paint two undercoats and one finishing coat of leyland/leylac oil paint on woodwork</u> <u>Prepare and apply two undercoats and one finishing coat of leyland/leylac oil paint on:</u>	307	m ²		
C	General surfaces of hardwood	25	m ²		
<u>PAINING AND DECORATING</u>					
Carried to Summary					

ITEM	DESCRIPTION	QTY	UNIT	RATE GHC	AMT GHC
	<u>SUMMARY</u>				
	<u>BILL NO. 1</u>				
	SUBSTRUCTURE				
	CONCRETEWORK				
	BLOCKWORK				
	ROOFING				
	CARPENTRY				
	JOINERY				
	METAL WORKS				
	GLAZING & METAL WORKS				
	PLUMBING INSTALLATION				
	ELECTRICAL INSTALLATION				
	PLASTERWORK AND OTHER FLOOR, WALL AND CEILING FINISHINGS				
	PAINING AND DECORATING				
	<u>BILL NO. 1</u>				
	CARRIED TO GENERAL SUMMARY				