ITEM	DESCRIPTION	QTY.	UNIT	RATE GH¢	GH¢ P
	BILL OF QUANTITIES FOR DESIGN AND CONSTRUCTION OF PROPOSED 2-STOREY 6-UNIT CLASSROOM BLOCK WITH OFFICE AND STORE AND RENOVATION OF 8-SEATER WC TOILET WITH MECHANIZED BOREHOLE FOR WEST RIDGE BASIC SCHOOL AT SEKONDI				
	BILL NO. 1				
	GENERAL ITEMS (PRELIMINARIES)				
A	Securities				
B	Contractor's site office				
C	Watching and protection of the works.				
D	Clerk of works				
E	Transport for work people.				
F	First Aid Equipment.				
G	Health and Safety				
H	Project Signboard (2 face)	1	Nr		
J	Photographs.				
K	Setting out				
L	Plant, Tools and vehicles.				
M	Water for the works.				
N	Programme of Works				
P	Hoarding				
Q	As Built Drawing to be submited to client				
	PRELIMINARIES TO GENERAL SUMMARY				

ITEM	DESCRIPTION	QTY.	UNIT	RATE GH¢	GH¢ P
	BILL OF QUANTITIES FOR DESIGN AND CONSTRUCTION OF PROPOSED 2-STOREY 6-UNIT CLASSROOM BLOCK WITH OFFICE AND STORE AND RENOVATION OF 8-SEATER WC TOILET WITH MECHANIZED BOREHOLE FOR WEST RIDGE BASIC SCHOOL AT SEKONDI				
	BILL NO. 2				
	2-STOREY 6-UNIT CLASSROOM BLOCK				
	SUBSTRUCTURE (ALL PROVISIONAL)				
	D20: EXCAVATING AND FILLING				
	Excavating				
A	Demolish existing wooden canteen structure and take away debris from site		Item		
B	Pits, Maximum depth not exceeding 1.5m	56	m^3		
C	Trenches, width exceeding 300mm, maximum depth not exceeding 1.5m.	75	m^3		
D	Disposal of excavated material off site or push to fill	47	m^3		
	Filling to excavation				
E	Average thickness exceeding 0.25m, depositing and compacting in layers 150mm maximum thickness; approved imported material.	84	m^3		
	Filling to make up levels				
F	Approved granular material; depositing and compacting in layers 150mm maximum thickness; average thickness exceeding 0.25mm	90	m^3		
	B/D				

ITEM	DESCRIPTION	QTY.	UNIT	RATE GH¢	GH¢ P
	B/F				
	E:IN-SITU CONCRETE/LARGE PRECAST CONCRETE				
	E10: IN-SITU CONCRETE				
	Plain in-situ concrete; B.S. 5328, ordinary prescribed mix C 15-20mm, aggregate, vibrated				
A	Blinding beds; thickness not exceeding 150mm	45	m^2		
	Plain in-situ concrete; B.S. 5328, ordinary prescribed mix C20-30mm, aggregate; vibrated in;				
B	Foundations	16	m^3		
C	Floor bed, thickness not exceeding 150mm	36	m^3		
D	Steps	1	m^3		
	Reinforced in-situ concrete; B.S 5328, designed mix C25-30mm, aggregate, vibrated in;				
E	Column bases	11	m^3		
F	Columns	4	m^3		
	E20: FORMWORK FOR IN-SITU CONCRETE				
	Formwork and basic finish				
G	Column bases	43	m^2		
H	Starter columns	76	m^2		
J	Edges of floor slab; plain vertical height not exceeding 150mm	107	m		
	B/D				

ITEM	DESCRIPTION	QTY.	UNIT	RATE GH¢	GH¢ P
	B/F				
	E30: REINFORCEMENT FOR IN-SITU CONCRETE				
	Mild Steel Reinforcement bars to B.S. 4449				
A	14mm Diameter bar; Column bases	756	Kg		
B	16mm Diameter bar; Column	1,016	Kg		
C	10mm Diameter Bar, Links	339	Kg		
	F: MASONRY				
	F10: BRICK /BLOCK WALLING				
	Sandcrete, 450 x 150mm solid compressive; strength 2,5N/mm^2 in cement mortar (1:4)				
D	Walls; 150mm thick	259	m^2		
	J: WATERPROOFING				
	J40: Fexible Sheet Tanking/Damp Proof Membrane				
	Damp Proof Membrane				
E	Provide and lay 300micron membrane on compacted laterite filling to receive concrete floor	238	m^2		
	M: SURFACE FINISHING				
	M20:PLASTERED/RENDERED/ROUGH CAST/COATING				
F	Mortar, cement and sand (1:3) mix rendering to concrete or block with steel trowel finish 19mm thick.	64	m^2		
	M60; PAINTING/CLEAR FINISHING				
G	Prepare and apply one (1) undercoat and two (2) finishing coat of oil paint on rendered wall	64	m^2		
	SUBSTRUCTURE TO GENERAL SUMMARY				

ITEM	DESCRIPTION	QTY.	UNIT	RATE GH¢	GH¢ P
	GROUND FLOOR				
	E: IN-SITU CONCRETE/LARGE PRECAST CONCRETE				
	E10: IN-SITU CONCRETE				
	Reinforced in-situ concrete; B.S; designed mix C25-20mm aggregate, vibrated				
A	Columns	6	m^3		
B	Beams	20	m^3		
C	Suspended Slab	38	m^3		
D	Staircase	3	m^3		
	E20: FORMWORK FOR IN-SITU CONCRETE				
	Formwork and basic finish				
E	Columns; regular shaped.	100	m^2		
F	Beam	266	m^2		
G	Suspended Slab	202	m^2		
H	Edges of the slab	107	m		
	E30: REINFORCEMENT FOR IN-SITU CONCRETE				
	High tensile steel round bar reinforcement as described				
J	18mm diameter bar in beam	856	Kg		
K	14mm diameter bar in beam	76	Kg		
	Mild Steel Reinforcement bars to B.S 4449				
L	16mm diameter bar,columns	1,526	Kg		
M	16mm diameter bar: Beams.	1,204	Kg		
N	14mm diameter bar: Beams.	245	Kg		
P	14mm diameter bar: Staircase	443	Kg		
Q	12mm diameter bar, slab	4,801	Kg		
R	12mm diameter bar, staircase	242	Kg		
S	10mm diameter bar, stirrups in columns	451	Kg		
T	10mm diameter bar, links in beams	1209	Kg		
	IN-SITU CONCRETE/LARGE PRECAST CONCRETE TO SUMMARY				

ITEM	DESCRIPTION	QTY.	UNIT	RATE GH¢	GH¢ P
	F: MASONRY				
	F 10: BRICK/BLOCK WALLING				
	Sandcrete, 450 x 150mm solid compressive; strength 2.5N/mm^2 in cement mortar (1:4)				
A	Walls: 150mm thick.	208	m^2		
	MASONRY TO SUMMARY				
	L: WINDOWS/DOORS/STAIRS				
	L20: TIMBER DOORS/SHUTTERS/HATCHES				
	Doors in hardwood; treated with preservative wrought.				
	Paneled doors in six panels, 100mm wide stiles. Top and middle rails, 150mm wide bottom rail; 20mm thick wooden.				
B	Double door size 1300 x 2250 x 45mm.	3	Nr		
C	Single door size 900 x 2250 x 45mm.	5	Nr		
	Fillets, glazing beads, architraves etc.				
	Hardwood, treated with preservative, wrought				
	Door/Window Frames				
D	50 x 150mm.	260	m		
E	19 x 50mm; door stoppers	62	m		
F	19 x 50mm; window batterns	198	m		
G	19 x 19mm; window stoppers	90	m		
	L40: GENERAL GLAZING				
	Louvred window				
H	Pair 10-blade Bronze Louvre carrier.	42	No.		
J	Pair 4-blade Bronze Louvre carrier.	1	No.		
K	Obscure louvre blade 900mm long.	432	No.		
L	800 x 350mm plain glass in funlight	5	No.		
M	700 x 350mm plain glass in funlight	18	No.		
N	470 x 350mm plain glass in funlight	18	No.		
P	750 x 350mm plain glass in funlight	6	No.		
Q	580 x 350mm plain glass in funlight	6	No.		
R	420 x 350mm plain glass in funlight	3	No.		
	WINDOWS/DOORS/STAIRS TO SUMMARY				

ITEM	DESCRIPTION	QTY.	UNIT	RATE GH¢	GH¢ P
	M : SURFACE FINISHES				
	M 10: sand cement/concrete/grandlithic/ screeds/flooring				
	In-situ cement and sand mortar (1 : 3) mix as described in:				
A	50mm thick work on floor as screeding.	224	m^2		
B	19mm thick to floor tiles	34	m^2		
	M20: PLASTERED/RENDERED/ROUGHCAST COATINGS				
	Screeded backing				
	Mortar, cement and sand mortar (1 : 3) mix rendering to concrete or blockwork base with steel trowel finish				
C	19 mm thick render to walls, plain; width exceeding 300mm.	340	m^2		
D	Beams	269	m^2		
E	Columns	100	m^2		
F	Suspended Ceiling	222	m^2		
	M40: STONE/CONCRETE/QUARRY/				
	CERAMIC TILLING/MOSIAC				
G	Porcelain floor tiles 600 x 600 x 10mm units to floors on sand and cement base internally	34	m^2		
	Writing Board				
H	Provide and fix white formica board with 12mm thick plywood fixed at the back including all the necessary framing works over all size 1220 x 4880mm.	3	No		
	C/F				

ITEM	DESCRIPTION	QTY.	UNIT	RATE GH¢	GH¢ P
	B/F				
	M60: PAINTING/CLEAR FINISHING				
	Prepare and Apply two undercoats and one Finishing coat of acrylic emulsion paint on:				
	General surface; girth exceeding 300mm.				
A	Rendered walls	340	m^2		
B	Rendered beams	269	m^2		
C	Rendered colums	100	m^2		
D	Suspended Ceiling	208	m^2		
	Prepare, prime, paint two undercoat and one finishing coat of gloss oil paint on:				
	General surfaces of hardwood.				
E	Doors	38	m^2		
F	Frames	7	m^2		
	SURFACE FINISHES TO SUMMARY				

ITEM	DESCRIPTION	QTY.	UNIT	RATE GH¢	GH¢ P
	P: BUILDING FABRIC SUNDRIES				
	P21: IRONMONGERY				
	To hardwood or the like Ironmongery; British Standard fittings.				
A	38 Pair 100mm Brass butt hinges with screws to match	11	Nr		
B	Stainless steel cylinder mortices sash lock with double cylinder; stainless steel keyhole	8	Nr		
C	100mm galvanised steel tower bolt	12	No.		
D	50 x 50 x 3mm wire mesh in windows	56	Sm		
E	Double folded nylon mosquito proof net in windows.	56	Sm		
F	16mm diameter round bar reinforcement in window frames	332	Lm		
	BUILDING FABRIC SUNDRIES TO SUMMARY				
	N: FURNITURE/EQUIPMENT				
	N10: GENERAL FIXTURES/FURNISHINGS/EQUIPMENT				
	Provide the following hardwood(Mohogany or equally approved) well seasoned furniture				
G	Teachers table with drawers	4	No.		
H	Teachers chair with stuffing back and seat	6	No.		
J	Mono Desk	90	No.		
K	Supply and fx 6kg Dry powder fire extinguisher with all the necessary hooks	5	No.		
	FURNITURE/EQUIPMENT TO SUMMARY				

ITEM	DESCRIPTION	QTY.	UNIT	RATE GH¢	GH¢ P
	MECHANICAL AND ELECTRICAL SERVICES				
A	12mm conduit PVC pipe	750	Lm		
B	75 x 75mm conduit box.	23	No.		
C	75 x 150mm conduit box.	9	No.		
D	16mm^2 copper cable. brown	100	Lm		
E	4mm^2 cable	100	Lm		
F	2.5 mm^2 NCY cable (Brown & blue)	300	Lm		
G	1.5 mm^2 NCY cable (Brown & blue)	1400	Lm		
H	Ditto (Yellow/Green) strips	150	Lm		
J	Circular box	40	No.		
K	Fan hook	8	No.		
L	1400mm sweep Ceiling fan complete	8	No.		
M	2-Gang 13A switch socket	11	No.		
N	6A 1-Gang 2-Way switch of approved quality	8	No.		
P	2 gang 2Way switch of approved quality	3	No.		
Q	3 gang switch of approved quality	1	No.		
R	30 watts IP65 flood light for external	8	No.		
S	Battern Lamp holder	18	No.		
T	20 watt LED lamp for interial	26	No.		
U	100/60 mA 2 pole RCD breaker	1	No.		
V	Provide and install 86 inches smart interactive whiteboard 4k ultra display with wired and wireless connectivity, dual system support, interactive styles writing and multi-touch functionality Build-in 5mp camera with multimedia and office support to head of works office	1	No.		
W	Provide Binaton Stablizer DVS 2KVA for white board	1	No.		
X	100amps MCB 2 pole breaker	1	No.		
Y	head gears/di-iron	1	No.		
Z	2 x 25mm^2 aluminium cable	30	Lm		
	MECHANICAL AND ELECTRICAL SERVICES TO SUMMARY				

ITEM	DESCRIPTION	QTY.	UNIT	RATE GH¢	GH¢ P
	SUMMARY OF GROUND FLOOR				
A	IN-SITU CONCRETE/LARGE PRECAST CONCRETE				
B	MASONRY				
C	WINDOWS/DOORS/STAIRS				
D	SURFACE FINISHES				
E	BUILDING FABRIC SUNDRIES				
F	FURNITURE/EQUIPMENT				
G	MECHANICAL AND ELECTRICAL SERVICES				
	GROUND FLOOR TO SUMMARY OF MAIN BLOCK				

ITEM	DESCRIPTION	QTY.	UNIT	RATE GH¢	GH¢ P
	FIRST FLOOR				
	E: IN-SITU CONCRETE/LARGE PRECAST CONCRETE				
	E10: IN-SITU CONCRETE				
	Reinforced in-situ concrete; B.S; designed mix C25-20mm aggregate, vibrated				
A	Columns	8	m^3		
B	Beams	8	m^3		
	E20: FORMWORK FOR IN-SITU CONCRETE				
	Formwork and basic finish				
C	Columns; regular shaped.	131	m^2		
D	Beam	106	m^2		
	E30: REINFORCEMENT FOR IN-SITU CONCRETE				
	Mild Steel Reinforcement bars to B.S 4449				
E	16mm diameter bar,columns	1,337	Kg		
F	16mm diameter bar: Beams.	841	Kg		
G	10mm diameter bar, stirrups in columns	396	Kg		
H	10mm diameter bar, links in beams	412	Kg		
	IN-SITU CONCRETE/LARGE PRECAST CONCRETE TO SUMMARY				
	F: MASONRY				
	F 10: BRICK/BLOCK WALLING				
	Sandcrete, 450 x 150mm solid compressive; strength 2.5N/mm^2 in cement mortar (1:4)				
J	Walls: 150mm thick.	345	m^2		
	MASONRY TO SUMMARY				

ITEM	DESCRIPTION	QTY.	UNIT	RATE GH¢	GH¢ P
	G: STRUCTURAL/ CARCASSING METAL/TIMBER				
	G 20: CARPENTRY/TIMBER FRAMING /FIRST FIXING				
	Roof truss				
	Treated Hardwood timber Trusses roof members hoisted into position with anchorage				
A	50 x 150mm ridge and king post	11	Lm		
B	50 x 150mm struct.	39	Lm		
C	50 x 150mm top chord	46	Lm		
D	50 x 150mm bottom chord	50	Lm		
E	50 x 100mm braces	52	Lm		
F	50 x 150mm rafters	309	Lm		
G	50 x 75mm purlins.	396	Lm		
H	50 x 50mm Ceiling members	709	Lm		
J	25 x 300mm fascia Board	90	Lm		
K	16mm diameter bar cut to the required length and hook to roof members	60	Nr		
	STRUCTURAL/CARCASSING METAL/TIMBER TO SUMMARY				
	H: CLADDING/COVERING				
	H7: ALUMINIUM SHEET COVERING/ FLASHINGS				
	Longspan Aluminium Corrugated Sheets: Pre-painted: Standard profile : 0.5mm guage: two corrugations side laps : 150mm end laps: bedded with mastic sealing strips				
L	Roof coverings; including ridge caps fixing to timber purlins at 1050mm general spacing with galvanized drive screws, nuts, washers, caps, drilling holes; pitch not exceeding 45^{o}.	338	m^2		
M	Aluminium rain gutter fixed to fascia board to collect rain water	80	Lm		
N	50mm diameter pipe connected to rain gutters to discharge water to drains	101	Lm		
	CLADDING/COVERING TO SUMMARY				

ITEM	DESCRIPTION	QTY.	UNIT	RATE GH¢	GH¢ P
	L: WINDOWS/DOORS/STAIRS				
	L20: TIMBER DOORS/SHUTTERS/HATCHES				
	Doors in hardwood; treated with preservative wrought.				
	Paneled doors in six panels, 100mm wide stiles. Top and middle rails, 150mm wide bottom rail; 20mm thick wooden.				
A	Double door size 1300 x 2250 x 45mm.	4	Nr		
B	Single door size 900 x 2250 x 45mm.	3	Nr		
	Fillets, glazing beads, architraves etc.				
	Hardwood, treated with preservative, wrought				
	Door/Window Frames				
C	50 x 150mm.	254	m		
	Batterns/Stoppers				
D	19 x 50mm; door stoppers	56	m		
E	19 x 50mm; window batterns	198	m		
F	19 x 19mm; window stoppers	90	m		
	L31: METAL STAIRS/WALKWAYS/BALUSTRADES				
G	50mm galvanised pipe as main vertical post, top hand rail and bottom rail welded together and fixed in concrete column and floor	120	Lm		
H	38mm galvanised pipe as intermediate at 100mm centres welded together and fixed on top and bottom rails	70	Lm		
	L40: GENERAL GLAZING				
	Louvred window				
J	Pair 10-blade Bronze Louvre carrier.	42	No.		
K	Pair 4-blade Bronze Louvre carrier.	1	No.		
L	Obscure louvre blade 900mm long.	432	No.		
M	800 x 350mm plain glass in funlight	3	No.		
N	700 x 350mm plain glass in funlight	18	No.		
P	470 x 350mm plain glass in funlight	18	No.		
Q	750 x 350mm plain glass in funlight	6	No.		
R	580 x 350mm plain glass in funlight	8	No.		
S	420 x 350mm plain glass in funlight	3	No.		
	WINDOWS/DOORS/STAIRS TO SUMMARY				

ITEM	DESCRIPTION	QTY.	UNIT	RATE GH¢	GH¢ P
	M : SURFACE FINISHES				
	M 10: sand cement/concrete/grandlithic/ screeds/flooring				
	In-situ cement and sand mortar (1 : 3) mix as described in:				
A	50mm thick work on floor as screeding.	216	m^2		
B	19mm thick to floor tiles	35	m^2		
	M20: PLASTERED/RENDERED/ROUGHCAST COATINGS				
	Screeded backing				
	Mortar, cement and sand mortar (1 : 3) mix rendering to concrete or blockwork base with steel trowel finish				
C	19 mm thick render to walls, plain; width exceeding 300mm.	553	m^2		
D	Beams	79	m^2		
E	Columns	138	m^2		
	M40: STONE/CONCRETE/QUARRY/				
	CERAMIC TILLING/MOSIAC				
F	Porcelain floor tiles 600 x 600 x 10mm units to floors on sand and cement base internally	35	m^2		
	Writing Board				
G	Provide and fix white formica board with 12mm thick plywood fixed at the back including all the necessary framing works over all size 1220 x 4880mm.	3	No		
	Ceiling				
H	Provide and fix locally manufacture Plastic T&G fixed to joist as ceiling	319	m^2		
	C/F				

ITEM	DESCRIPTION	QTY.	UNIT	RATE GH¢	GH¢ P
	B/F				
	M60: PAINTING/CLEAR FINISHING				
	Prepare and Apply two undercoats and one Finishing coat of acrylic emulsion paint on:				
	General surface; girth exceeding 300mm.				
A	Rendered walls	553	m^2		
B	Rendered beams	79	m^2		
C	Rendered colums	138	m^2		
	Prepare, prime, paint two undercoat and one finishing coat of gloss oil paint on:				
	General surfaces of hardwood.				
D	Doors	38	m^2		
E	Frames	7	m^2		
	SURFACE FINISHES TO SUMMARY				

ITEM	DESCRIPTION	QTY.	UNIT	RATE GH¢	GH¢ P
	P: BUILDING FABRIC SUNDRIES				
	P21: IRONMONGERY				
	To hardwood or the like Ironmongery; British Standard fittings.				
A	38 Pair 100mm Brass butt hinges with screws to match	17	Nr		
B	Stainless steel cylinder mortices sash lock with double cylinder; stainless steel keyhole	7	Nr		
C	100mm galvanised steel tower bolt	14	No.		
D	50 x 50 x 3mm wire mesh in windows	56	Sm		
E	Double folded nylon mosquito proof net in windows.	56	Sm		
F	16mm diameter round bar reinforcement in window frames	332	Lm		
	BUILDING FABRIC SUNDRIES TO SUMMARY				
	N: FURNITURE/EQUIPMENT				
	N10: GENERAL FIXTURES/FURNISHINGS/EQUIPMENT				
	Provide the following hardwood(Mohogany or equally approved) well seasoned furniture				
G	2 Drawer teachers table with leather top	5	No.		
H	Teachers chair with stuffing back and seat with arm rest	6	No.		
J	Mono Desk	90	No.		
K	Supply and fix 6kg dry powder fire extinguisher with all the necessary hooks	5	No.		
	FURNITURE/EQUIPMENT TO SUMMARY				

ITEM	DESCRIPTION	QTY.	UNIT	RATE GH¢	GH¢ P
	MECHANICAL AND ELECTRICAL SERVICES				
A	12mm conduit PVC pipe	750	Lm		
B	75 x 75mm conduit box.	23	No.		
C	75 x 150mm conduit box.	9	No.		
D	8 way single phase distributor board/main	1	No.		
E	16mm^2 copper cable. brown	100	Lm		
F	4mm^2 cable	100	Lm		
G	2.5 mm^2 NCY cable (Brown & blue)	300	Lm		
H	1.5 mm^2 NCY cable (Brown & blue)	1400	Lm		
J	Ditto (Yellow/Green) strips	150	Lm		
K	Earthing system using 3No2 m earth rod buried with earth enhancement/ improvement/ earth resistace treatment	1	No.		
L	Circular box	40	No.		
M	Fan hook	8	No.		
N	1400mm sweep Ceiling fan complete	8	No.		
P	2-Gang 13A switch socket	11	No.		
Q	6A 1-Gang 2-Way switch of approved quality	8	No.		
R	2 gang 2Way switch of approved quality	3	No.		
S	3 gang switch of approved quality	1	No.		
T	Battern Lamp holder	18	No.		
U	20 watt LED lamp for interial	26	No.		
V	100/60 mA 2 pole RCD breaker	1	No.		
W	100amps MCB 2 pole breaker	1	No.		
X	2 x 25mm aluminium cable	30	Lm		
Y	Supply and fix meter	1	No.		
Z	Testing by Energy Commission		Item		
	MECHANICAL AND ELECTRICAL SERVICES TO SUMMARY				

ITEM	DESCRIPTION	QTY.	UNIT	RATE GH¢	GH¢ P
	SUMMARY OF FIRST FLOOR				
A	IN-SITU CONCRETE/LARGE PRECAST CONCRETE				
B	MASONRY				
C	STRUCTURAL/ CARCASSING METAL/TIMBER				
D	CLADDING/COVERING				
E	WINDOWS/DOORS/STAIRS				
F	SURFACE FINISHES				
G	BUILDING FABRIC SUNDRIES				
H	FURNITURE/EQUIPMENT				
J	MECHANICAL AND ELECTRICAL SERVICES				
	FIRST FLOOR TO SUMMARY OF MAIN BLOCK				

ITEM	DESCRIPTION	QTY.	UNIT	RATE GH¢	GH¢ P
	EXTERNAL WORKS				
	DRAINS AND APRONS				
A	Excavate trench for aprons maximum dept not exceeding 600mm	33	Cm		
B	Backfill with excavated materials.	33	Cm		
	Reinforced in-situ concrete; B.S; designed mix C25-20mm aggregate, vibrated				
C	Foundation	8	Cm		
D	Ditto in apron 100mm thick.	42	Sm		
	Sandcrete, 450 x 125mm solid compressive; strength 2.5N/mm^2 in cement mortar (1:4)				
E	125mm thick solid block work in apron	43	Sm		
	In-situ cement and sand mortar (1 : 3) mix as described in:				
F	19mm thick screed to drains	71	Sm		
G	25mm thick to top of apron.	43	Sm		
	EXTERNAL WORKS TO SUMMARY OF MAIN BLOCK				

ITEM	DESCRIPTION	QTY.	UNIT	RATE GH¢	GH¢ P
	SUMMARY OF 2-STOREY 6-UNIT CLASSROOM BLOCK				
A	SUBSTRUCTURE				
B	GROUND FLOOR				
C	FIRST FLOOR				
D	EXTERNAL WORKS				
	2-STOREY 6-UNIT CLASSROOM BLOCK TO GENERAL SUMMARY				

ITEM	DESCRIPTION	QTY.	UNIT	RATE GH¢	GH¢ P
	BILL NO. 3				
	RENOVATION OF 8-SEATER WC TOILET AND PROVISION OF CHANGING ROOM AND MECHANIZED BOREHOLE				
	C: DEMOLITION/ALTERATION				
A	Include a provisional sum of Six Thousand Ghana Cedis (**GH¢6,000.00**) for removing of fittings and fixtures, roof coverings, louvre frames and blades, hacking off surfaces to receive tiles		Item		
	DEMOLITION/ALTERATION TO SUMMARY				
	CHANGING ROOM				
	SUBSTRUCTURE (ALL PROVISIONAL)				
	D20: EXCAVATING AND FILLING				
	Excavating				
B	Pits, Maximum depth not exceeding 1.5m	2	m^3		
C	Trenches, width exceeding 300mm, maximum depth not exceeding 1.5m.	1	m^3		
D	Disposal of excavated material off site or push to fill	2	m^3		
	Filling to excavation				
E	Average thickness exceeding 0.25m, depositing and compacting in layers 150mm maximum thickness; approved imported material.	1	m^3		
	Filling to make up levels				
F	Approved granular material; depositing and compacting in layers 150mm maximum thickness; average thickness exceeding 0.25mm	3	m^3		
	B/D				

ITEM	DESCRIPTION	QTY.	UNIT	RATE GH¢	GH¢ P
	B/F				
	E:IN-SITU CONCRETE/LARGE PRECAST CONCRETE				
	E10: IN-SITU CONCRETE				
	Plain in-situ concrete; B.S. 5328, ordinary prescribed mix C 15-20mm, aggregate, vibrated				
A	Blinding beds; thickness not exceeding 150mm	2	m^2		
	Plain in-situ concrete; B.S. 5328, ordinary prescribed mix C20-30mm, aggregate; vibrated in;				
B	Foundations	1	m^3		
C	Floor bed, thickness not exceeding 150mm	1	m^3		
	Reinforced in-situ concrete; B.S 5328, designed mix C25-30mm, aggregate, vibrated in;				
D	Column bases and columns	1	m^3		
	E20: FORMWORK FOR IN-SITU CONCRETE				
	Formwork and basic finish				
E	Column bases	2	m^2		
F	Starter columns	3	m^2		
G	Edges of floor slab; plain vertical height not exceeding 150mm	7	m		
	B/D				

ITEM	DESCRIPTION	QTY.	UNIT	RATE GH¢	GH¢ P
	B/F				
	E30: REINFORCEMENT FOR IN-SITU CONCRETE				
	Mild Steel Reinforcement bars to B.S. 4449				
A	12mm Diameter bar; Column bases	30	Kg		
B	14mm Diameter bar; Column	28	Kg		
C	10mm Diameter Bar, Links	8	Kg		
	F: MASONRY				
	F10: BRICK /BLOCK WALLING				
	Sandcrete, 450 x 150mm solid compressive; strength 2,5N/mm^2 in cement mortar (1:4)				
D	Walls; 150mm thick	10	m^2		
	M: SURFACE FINISHING				
	M20:PLASTERED/RENDERED/ROUGH CAST/COATING				
F	Mortar, cement and sand (1:3) mix rendering to concrete or block with steel trowel finish 19mm thick.	9	m^2		
	M60; PAINTING/CLEAR FINISHING				
G	Prepare and apply one (1) undercoat and two (2) finishing coat of oil paint on rendered wall	9	m^2		
	SUBSTRUCTURE TO SUMMARY				

ITEM	DESCRIPTION	QTY.	UNIT	RATE GH¢	GH¢ P
	SUPERSTRUCTURE				
	E: IN-SITU CONCRETE/LARGE PRECAST CONCRETE				
	E10: IN-SITU CONCRETE				
	Reinforced in-situ concrete; B.S; designed mix C25-20mm aggregate, vibrated				
A	Columns and beams	1	m^3		
	E20: FORMWORK FOR IN-SITU CONCRETE				
	Formwork and basic finish				
B	Columns; regular shaped.	5	m^2		
C	Beam	4	m^2		
	E30: REINFORCEMENT FOR IN-SITU CONCRETE				
	Mild Steel Reinforcement bars to B.S 4449				
D	14mm diameter bar,columns	45	Kg		
E	14mm diameter bar: Beams.	43	Kg		
F	10mm diameter bar, stirrups in columns	15	Kg		
G	10mm diameter bar, links in beams	19	Kg		
	IN-SITU CONCRETE/LARGE PRECAST CONCRETE TO SUMMARY				
	F: MASONRY				
	F 10: BRICK/BLOCK WALLING				
	Sandcrete, 450 x 150mm solid compressive; strength 2.5N/mm^2 in cement mortar (1:4)				
H	Walls: 150mm thick.	20	m^2		
	MASONRY TO SUMMARY				

ITEM	DESCRIPTION	QTY.	UNIT	RATE GH¢	GH¢ P
	G: STRUCTURAL/ CARCASSING METAL/TIMBER				
	G 20: CARPENTRY/TIMBER FRAMING /FIRST FIXING				
	Roof Members				
A	50 x 150mm ridge	4	Lm		
B	50 x 100mm rafters	12	Lm		
C	50 x 75mm purlins.	16	Lm		
D	50 x 50mm Ceiling members	28	Lm		
E	25 x 300mm fascia Board	29	Lm		
	STRUCTURAL/CARCASSING METAL/TIMBER TO SUMMARY				
	H: CLADDING/COVERING				
	H7: ALUMINIUM SHEET COVERING/ FLASHINGS				
F	Pre-coated Shortspan Aluminium Corrugated Sheets: Standard profile : 0.4mm guage: two corrugations side laps : 150mm end laps	40	m^2		
	CLADDING/COVERING TO SUMMARY				

ITEM	DESCRIPTION	QTY.	UNIT	RATE GH¢	GH¢ P
	L: WINDOWS/DOORS/STAIRS				
	L20: TIMBER DOORS/SHUTTERS/HATCHES				
	Doors in hardwood; treated with preservative wrought.				
	Paneled doors in six panels, 100mm wide stiles. Top and middle rails, 150mm wide bottom rail; 20mm thick wooden.				
A	Single door size 900 x 2100 x 45mm.	1	Nr		
	Fillets, glazing beads, architraves etc.				
	Hardwood, treated with preservative, wrought				
	Door/Window Frames				
B	50 x 150mm.	10	m		
	Batterns/Stoppers				
C	19 x 50mm; door stoppers	5	m		
D	19 x 50mm; window batterns	6	m		
E	19 x 19mm; window stoppers	2	m		
	L40: GENERAL GLAZING				
	Louvred window				
F	Pair 4-blade Bronze Louvre carrier.	14	No.		
G	Obscure louvre blade 900mm long.	56	No.		
	WINDOWS/DOORS/STAIRS TO SUMMARY				

ITEM	DESCRIPTION	QTY.	UNIT	RATE GH¢	GH¢ P
	M : SURFACE FINISHES				
	M 10: sand cement/concrete/grandlithic/ screeds/flooring				
	In-situ cement and sand mortar (1 : 3) mix as described in:				
A	50mm thick work on floor as screeding.	7	m^2		
B	19mm thick to tiles	141	m^2		
	M20: PLASTERED/RENDERED/ROUGHCAST COATINGS				
	Mortar, cement and sand mortar (1 : 3) mix rendering to concrete or blockwork base with steel trowel finish				
C	19 mm thick render to walls, plain; width exceeding 300mm.	40	m^2		
D	Beams	5	m^2		
E	Columns	4	m^2		
	M40: STONE/CONCRETE/QUARRY/				
	CERAMIC TILLING/MOSIAC				
F	Non Polished 6mm thick ceramic wall tiles fixed to backings.	98	Sm		
G	Non Polished porcelain floor tiles 400 x 400mm x 10mm thick fixed to backing including skirting board.	43	Sm		
	Ceiling				
H	6mm thick plywood fixed to joist as ceiling including batterns	21	m^2		
	C/F				

ITEM	DESCRIPTION	QTY.	UNIT	RATE GH¢	GH¢ P
	B/F				
	M60: PAINTING/CLEAR FINISHING				
	Prepare and Apply two undercoats and one Finishing coat of acrylic emulsion paint on:				
	General surface; girth exceeding 300mm.				
A	Rendered walls	164	m^2		
	Prepare, prime, paint two undercoat and one finishing coat of gloss oil paint on:				
	General surfaces of hardwood.				
B	Doors	37	m^2		
C	Frames	7	m^2		
	SURFACE FINISHES TO SUMMARY				

ITEM	DESCRIPTION	QTY.	UNIT	RATE GH¢	GH¢ P
	P: BUILDING FABRIC SUNDRIES				
	P21: IRONMONGERY				
	To hardwood or the like Ironmongery; British Standard fittings.				
A	38 Pair 100mm Brass butt hinges with screws to match	3	Nr		
B	Stainless steel cylinder mortices sash lock with double cylinder; stainless steel keyhole	3	Nr		
C	75mm galvanised steel tower bolt	8	No.		
D	50 x 50 x 3mm wire mesh in windows	8	Sm		
E	Double folded nylon mosquito proof net in windows.	8	Sm		
	BUILDING FABRIC SUNDRIES TO SUMMARY				
	N: FURNITURE/EQUIPMENT				
	N13; SANITARY APPLIANCES/FITTINGS				
F	Provide and install P Trap W/C complete	8	Nr		
G	Pedestral wash hand basin complete (meduim).	2	Nr		
H	Urinal bowl complete	2	Nr		
J	Toilet roll holder	8	Nr		
K	Include a provisional sum of Five Thousand Ghana Cedis (**GH¢5,000.00**) for plumbing pipe works.		Item		
	FURNITURE/EQUIPMENT TO SUMMARY				

ITEM	DESCRIPTION	QTY.	UNIT	RATE GH¢	GH¢ P
	MECHANICAL AND ELECTRICAL SERVICES				
A	12mm conduit PVC pipe	70	Lm		
B	75 x 75mm conduit box.	10	No.		
C	75 x 150mm conduit box.	2	No.		
D	4 way single phase distributor board/main	1	No.		
E	16mm^2 copper cable. brown	50	Lm		
F	2.5 mm^2 NCY cable (Brown & blue)	50	Lm		
G	1.5 mm^2 NCY cable (Brown & blue)	400	Lm		
H	Ditto (Yellow/Green) strips	30	Lm		
J	Earthing system using 3No 2m earth rod buried with earth enhancement/ improvement/ earth resistace treatment	1	No.		
K	Circular box	20	No.		
L	2-Gang 13A switch socket	2	No.		
M	6A 1-Gang 2-Way switch of approved quality	4	No.		
N	2 gang 2Way switch of approved quality	2	No.		
P	3 gang switch of approved quality	2	No.		
Q	Battern Lamp holder	15	No.		
R	20 watt LED lamp	15	No.		
S	100/60 mA 2 pole RCD breaker	1	No.		
T	100amps MCB 2 pole breaker	1	No.		
U	head gears/di-iron	1	No.		
V	2 x 25mm^2 aluminium cable	20	Lm		
W	Supply and fix meter	1	No.		
X	Testing by Energy Commission		Item		
	MECHANICAL AND ELECTRICAL SERVICES TO SUMMARY				
	EXTERNAL WORKS				
Y	Include a provisional sum of Seven Thousand Ghana Cedis (**GH¢7,000.00**) for dislodging and making good to septic tank and aprons around structure.		Item		
	EXTERNAL WORKS TO SUMMARY				

ITEM	DESCRIPTION	QTY.	UNIT	RATE GH¢	GH¢ P
	MECHANIZED BOREHOLE				
A	Geological survey with report		Item		
	BOREHOLE				
	Borehole Drilling to Finished Diameter of 125mm				
B	Drilling through overburden and highly weathered rock	98	LM		
C	Drilling through partially weathered to fresh chrystalline, consolidated, unconsolidated and any type of rock	55	LM		
	Borehole Construction				
	Include the Supply and Installation of Centralisers PVC pipes and PVC screens, Gravels and Grout Seals				
D	Supply and install 125mm PVC casing	30	LM		
E	Supply and install 125mm PVC screens	15	LM		
F	Supply cement, mix and place gravel as design	3	LM		
G	Supply cement, mix and place grout above gravel as design	3	LM		
	Borehole Development				
H	Develop borehole by surging with compressed air	2	Hrs		
	Pumping Test				
J	Supply, install equipment for carrying out test for borehole/submersible	12	Hrs		
	B/D				

ITEM	DESCRIPTION	QTY.	UNIT	RATE GH¢	GH¢ P
	B/F				
	Borehole capping/bail plug:				
A	Supply and fix suitable cap on borehole		Item		
B	Supply and fix plug on bottom of well		Item		
	Water Quality Test				
C	Physico Chemical Analysis		Item		
D	Bacteriological Analysis		Item		
	Supply & Installation of Pump				
E	Procure and install 1.5 Perdro Submissible Pump including all necessary accessories	1	No.		
F	Provide and install 250mm jumbo filter	2	No.		
G	Provide concrete pad around borehole	1	No.		
H	Electrical works to pump		Item		
J	Provide and install 5,000 litres water tank	1	Nr		
	MECHANIZED BOREHOLE TO GENERAL SUMMARY				

ITEM	DESCRIPTION	QTY.	UNIT	RATE GH¢	GH¢ P
	SUMMARY				
A	DEMOLITION/ALTERATION				
B	SUBSTRUCTURE				
C	IN-SITU CONCRETE/LARGE PRECAST CONCRETE				
D	MASONRY				
E	STRUCTURAL/ CARCASSING METAL/TIMBER				
F	CLADDING/COVERING				
G	WINDOWS/DOORS/STAIRS				
H	SURFACE FINISHES				
J	BUILDING FABRIC SUNDRIES				
K	FURNITURE/EQUIPMENT				
L	MECHANICAL AND ELECTRICAL SERVICES				
M	EXTERNAL WORKS				
N	MECHANIZED BOREHOLE				
	RENOVATION OF 8-SEATER WC TOILET AND PROVISION OF CHANGING ROOM AND MECHANIZED BOREHOLE TO GENERAL SUMMARY				

ITEM	DESCRIPTION	QTY.	UNIT	RATE GH¢	GH¢ P
	GENERAL SUMMARY				
A	PRELIMINARIES				
B	2-STOREY 6-UNIT CLASSROOM BLOCK				
C	RENOVATION OF 8-SEATER WC TOILET AND PROVISION OF CHANGING ROOM AND MECHANIZED BOREHOLE				
	SUB TOTAL				
	ADD				
D	CONTINGENCY FOR WORKS	1%			
	TOTAL COST OF WORKS TO FORM OF TENDER				