

BILL OF QUANTITIES

FOR THE

**RENOVATION/REHABILITATION OF 3-
UNIT CLASSROOM BLOCK WITH
ANCILLARY FACILITIES AT WAWASE D/A
SCHOOL**

'@ 2026

ITEM	DESCRIPTION	QTY	UNIT	RATE	TOTAL (GH¢)
	<u>BILL No. 2 – RENOVATION OF 3-UNIT CLASSROOM BLOCK</u>				
	<u>ELEMENT No 1</u>				
	<u>SUBSTRUCTURE (ALL PROVISIONAL)</u>				
	<u>Site Preparation</u>				
A	Clear site of all weeds, undergrowth, bushes and shrubs; cut down small trees not exceeding 100mm girth, grub up roots rake to heaps and burn on site.	455	M ²		
B	Cut down trees exceeding 600mm but not exceeding 900mm girth grub up roots and fill void with laterite and ditto.	6	No		
C	Excavate oversite average 150mm deep to remove top soil and other vegetable matter, load up and wheel a distance not exceeding 100 metres and deposit in spoil heaps where directed by Consultant.	380	M ²		
	<u>Excavation and earthworks</u>				
D	Excavate foundation trench not exceeding 1.50 metres deep commencing 150mm below ground level.	54	M ³		
E	Excavate pit for column base not exceeding 1.5 metres deep ditto	9	M ³		
F	Extra over all kinds of excavation and disposal for breaking up rock or concrete	5	M ³		
G	Remove surplus excavated material from site	25	M ³		
H	Return, fill in and well ram selected excavated material around foundation	30	M ³		
J	Approved laterite filling deposited and compacted in layers not exceeding 150mm thick in making up levels under floor bed	125	M ³		
	<u>Plain in-site concrete (1:4:8-38mm aggregate) as described in</u>				
K	50mm thick blinding	10	M ³		
L	Steps	1	M ³		
M	Plain in-situ concrete (1:3:6-40mm aggregate) as described foundation	15	M ³		
	To Collection				

ITEM	DESCRIPTION	QTY	UNIT	RATE	TOTAL (GH¢)
	SUBSTRUCTURE (CONTD)				
	<u>Reinforced Concrete</u>				
	<u>Reinforced in-situ vibrated concrete (1:2:4-20mm aggregate) as described</u>				
A	Column base	2	M ³		
B	Column	2	M ³		
C	150mm floor Bed	45	M ³		
	<u>Reinforcement</u>				
	<u>Rolled mild steel round bar reinforcement to BS 449 as described in:</u>				
D	12mm diameter steel bars in column	97	Kg		
E	12mm diameter steel bars in column base	128	Kg		
F	10mm diameter steel bars as stirrups in column	20	Kg		
	<u>Sawn formwork as described to:</u>				
G	Vertical sides of columns	56	M ²		
H	Side of Steps	135	M		
J	Edge of floor bed, 150mm wide	100	M		
	<u>Blockwork</u>				
	<u>Solid sandcrete blockwork in cement mortar (1:4) as described in:</u>				
K	150mm wall	320	M ²		
	To Collection				

ITEM	DESCRIPTION	QTY	UNIT	RATE	TOTAL (GH¢)
	SUBSTRUCTURE (CONTD)				
	<u>Finishings</u>				
	<u>13mm thick cement and sand render (1:6)</u>				
A	Wall	37	M ²		
	<u>Painting and decorating</u>				
	<u>Prepare, seal and apply one under coat and two full coats of oil gloss paint on rendered surfaces</u>				
B	Rendered wall	37	M ²		
	To Collection				
	<u>COLLECTION</u>				
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	<u>ELEMENT NO. 1 - SUBSTRUCTURE</u>				
	To Bill No. 2 Summary				

ITEM	DESCRIPTION	QTY	UNIT	RATE	TOTAL (GH¢)
	<u>ELEMENT No. 2</u> <u>STRUCTURAL FRAME</u> <u>Reinforced Concrete</u> <u>Reinforced in-situ vibrated concrete (1:2:4-20mm aggregated) as described</u> A Beams 3 M³ B Binding Course 5 M³ C Lintel 3 M³ D Columns 4 M³ <u>Reinforcement</u> <u>Rolled mild steel round bar reinforcement to BS 449 as described in:</u> E 12mm Diameter bars in beam 132 Kg F 12mm Ditto in binding course 252 Kg G 12mm Ditto in lintels 125 Kg H 12mm Ditto in columns 360 Kg J 6mm Ditto in beams 35 Kg K 6mm Ditto in binding course 82 Kg L 6mm Ditto in lintels 47 Kg M 6mm Ditto in columns 100 Kg <u>Sawn formwork as described to:</u> N Horizontal sides of beams 10 M² P Sides of lintels 18 M² Q Sides of binding course 29 M² R Vertical sides of columns 48 M²				
	<u>ELEMENT No. 2-STRUCTURAL FRAME</u> <u>To Bill No. 2 Summary</u>				

ITEM	DESCRIPTION	QTY	UNIT	RATE	TOTAL (GH¢)
A	<u>ELEMENT No. 3</u> <u>WALLING</u> <u>BLOCKWORK</u> <u>Solid sandcrete blockwork in cement mortar (1:4)</u> <u>as</u> <u>described in:</u>	235	M ²		
	125mm wall				
	<u>ELEMENT NO. 3 – WALLING</u> <u>To Bill No. 2 Summary</u>				

ITEM	DESCRIPTION	QTY	UNIT	RATE	TOTAL (GH¢)
	<u>ELEMENT No. 4</u> <u>ROOFING</u> <u>0.4mm thick corrugated ‘aluminium’ roofing sheet fixed with one and half corrugations side laps to hardwood purlins (measured separately) with aluminum drive screws and washers</u>				
A	Sloping roofing sheets	498	M ²		
B	600mm girth preformed aluminium ridge capping	68	M		
C	Ditto pre-formed Valley	10	M		
D	600mm wide hip cup	24	M		
	<u>Sawn hardwood treated with preservative</u>				
D	50 x 150 mm Rafter	95	M		
E	50 x 50 mm Ceiling Noggings	655	M		
F	50 x 100 mm Ceiling Hangers	205	M		
G	50 x 150 mm Purlins	556	M		
	<u>The following in 3 No. Hardwood Trusses, with span over 8.30m. but not exceeding 12.0m. Overall height 6.0m above ground level including hoisting into position</u>				
H	50 x 100 mm Strut	198	M		
J	50 x 150 mm Bottom chord	78	M		
K	50 x 150 mm Top chord	110	M		
L	50 x 100 mm Tie beam	90	M		
M	50 x 150 mm Gusset plate	47	M ²		
	<u>Sawn hardwood treated with preservative</u>				
N	25 x 300mm fascia or barge board	432	M		
	<u>Carpenter’s Metalwork</u>				
P	16mm Diameter mild steel straps for fixing timber trusses	24	No		
	<u>ELEMENT No. 4 – ROOFING</u> <u>TO BILL No. 2 SUMMARY</u>				

ITEM	DESCRIPTION	QTY	UNIT	RATE	TOTAL (GH¢)
	<u>ELEMENT No. 5</u>				
	<u>WINDOWS AND DOORS</u>				
	<u>Windows</u>				
	<u>Sawn hardwood treated with preservative</u>				
A	12mm x 50mm cover battens	188	M		
B	20mm x 40mm glazing bead	87	M		
C	50mm x 150mm window frame	320	M		
	<u>Supply and fix the following 'Naco' or approved equal</u>				
	<u>Anodized aluminum louvre carriers as described</u>				
D	Pair louvre carriers 112mm long with clips for 8 No. blades	35	pair		
	<u>Burglar proofing</u>				
E	Mild steel bars, 16mm diameter cut to specified lengths and Threaded through holes in hardwood at 150mm centres,	410	Kg		
F	50 x50 x 4mm square welded mesh fixed to window openings with battens (measured separately)	55	M ²		
	<u>Sundries</u>				
	Fibre glass mosquito proof netting cut to size and fixed to hardwood with battens (measured separately)	55	M ²		
G	<u>6mm float glass, 150mm wide fixed in aluminium carriers screwed to hardwood (measured separately)</u>				
	Clear louvre blade over 800mm but not exceeding 900mm long	450	No		
	To Collection				

ITEM	DESCRIPTION	QTY	UNIT	RATE	TOTAL (GH¢)
	<u>ELEMENT No. 5 (CONT'D)</u>				
	<u>Doors</u>				
	<u>Sawn hardwood treated with preservative</u>				
A	12mm x 50mm planned stop	55	M		
B	50mm x 150mm door frame	55	M		
	<u>45mm (Finished) Panel door comprising 45 x 150mm top, Middle and bottom rail and 20mm hardwood played panel, fixed into groove and clamped together in approved adhesive</u>				
C	Door size 1400 x 2050mm high	7	No		
D	Door size 800 x 2050mm high	3	No		
	<u>Supply and fix the following ironmongery to hardwood with suitable screws</u>				
E	100m Pair brass butt extended hinges	17	Pairs		
F	225mm galvanized steel tower bolt	14	No		
G	Approved mortice lock with cylindrical anodized aluminum lever handled furniture	10	No		
	To Collection				
	COLLECTION				
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	<u>ELEMENT No. 5 – WINDOWS AND DOORS</u>				
	<u>To Bill No. 2 Summary</u>				

ITEM	DESCRIPTION	QTY	UNIT	RATE	TOTAL (GH¢)
	<u>ELEMENT No. 6</u> <u>ELECTRICAL INSTALLATIONS</u> <u>Switch Gear</u> <u>Supply and install the following</u>				
A	100A – 12 way MCB	1	No		
B	Distribution Board (SP & N)	1	No		
	<u>Feeder Cable</u> C 16 mm ² PVC Insulated Copper cable (Approximate length)	150	M		
	<u>Wiring of Points</u> <u>Supply and wire in concealed conduit lighting and fan</u> <u>and socket outlet points using PVC insulated copper</u> <u>cable as kabel metal make or approved equal</u>				
D	Lighting and fan points using 1.5mm ² PVC cable	1400	M		
E	13A Socket outlet points using 2.5mm ² PVC cable complement 2.5mm ² yellow/green as earth	1200	M		
	<u>Luminaries and Accessories</u> F 20W, 230V Energy saving light complete (external) G 18W, 230V Energy saving light complete (internal) H Ceiling fan complete J 2 x 13A Socket outlet K 10 A 1 Gang – 1 Way Switch L 10A 2 Gang – 2 Way Switch K PVC Conduit pipes L 3 x 3 Conduit box				
	To Collection				

ITEM	DESCRIPTION	QTY	UNIT	RATE	TOTAL (GH¢)
	<u>ELEMENT No. 6 (CONT'D)</u>				
M	3 x 6 Conduit box	13	Pcs		
N	Lamp Holders	30	Pcs		
P	Ceiling Rose	30	Pcs		
Q	Circular box	5	Box		
	<u>Earthling</u>				
R	Supply and install suitable earthling system for the above installation		Item		
S	E.C.G Meter installation and attendance		Item		
T	Include the Provisional Sum of One Thousand, Five Hundred Ghana Cedis (GH¢5,500.00) for builder's Work in connection with Electrical Installations		Item		
	To Collection				
	COLLECTION				
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	<u>ELEMENT NO. 6 – ELECTRICAL INSTALLATIONS</u>				
	<u>To Bill No. 2 Summary</u>				

ITEM	DESCRIPTION	QTY	UNIT	RATE	TOTAL (GH¢)
	<u>ELEMENT No. 7</u> <u>WALL, FLOOR AND CEILING FINISHINGS</u> <u>12mm thick cement and sand (1:4) render</u> A Wall 510 M² B Sides of Column 30 M² C Beams 40 M² <u>Beds and Backing</u> <u>Cement and sand (1:3)</u> D 50 mm floated paving (fiber floor and hardner) 560 M² <u>Ceiling Finishings</u> <u>Wrought treated hardwood</u> E 12mm x 50mm Ceiling cover battens 765 M <u>Plain sheet Finishings</u> F 1200 mm x 1200 mm x 6 mm thick exterior quality plywood fixed to hardwood soffits (measured separately) 688 M² <u>Chalkboards</u> G 4000 mm x 1050 mm x 19 mm thick cement and sand (1:4) trowelled backing mixed with green pigment 20 M²				
	<u>ELEMENT No. 7- WALL, FLOOR AND CEILING FINISHINGS</u> <u>To Bill No. 2 Summary</u>				

ITEM	DESCRIPTION	QTY	UNIT	RATE	TOTAL (GH¢)
	<u>ELEMENT No. 8</u> <u>PAINTING AND DECORATING</u> <u>Prepare and apply one undercoat and two finishing coats of emulsion paint as described on:</u>				
A	Rendered walls (internally)	234	M ²		
B	Rendered walls (externally)	280	M ²		
C	Sides of Column	30	M ²		
D	Sides or soffits of Beams	40	M ²		
E	Plywood ceiling soffits	400	M ²		
	<u>Prepare and apply one undercoat and two finishing coats of gloss oil paint on:</u>				
F	Columns	20	M ²		
G	Wall (internal)	120	M ²		
H	Wall (external)	220	M ²		
	<u>Knot, prime and apply one undercoat and two finishing coats of gloss oil paint on woodwork:</u>				
J	General Surfaces (Doors)	60	M ²		
K	Door and Window frames not exceeding 300mm girth	99	M ²		
L	Fascia or barge board not exceeding 300mm girth	50	M ²		
M	Ditto metal works	50	M ²		
	<u>Prepare and apply one undercoat and two finishing coat of green emulsion paint as described on</u>				
N	Chalkboards	64	M ²		
	<u>ELEMENT No. 8 – PAINTING AND DECORATION</u> <u>To Bill No. 2 Summary</u>				

ITEM	DESCRIPTION	QTY	UNIT	RATE	TOTAL (GH¢)
	<u>BILL No. 2</u> <u>3-UNIT CLASSROOM BLOCK</u> ELEMENT No. 1 SUBSTRUCTURE ELEMENT No. 2 STRUCTURAL FRAME ELEMENT No. 3 WALLING ELEMENT No. 4 ROOFING ELEMENT No. 5 WINDOWS AND DOORS ELEMENT No. 6 ELECTRICAL INSTALLATION ELEMENT No. 7 WALL, FLOOR AND CEILING FINISHINGS ELEMENT No. 8 PAINTING AND DECORATING				
	<u>BILL No. 2: - 3-UNIT CLASSROOM BLOCK</u> <u>To General Summary</u>				-

ITEM	DESCRIPTION	QTY	UNIT	RATE	TOTAL (GH¢)
	<u>GENERAL SUMMARY</u> BILL No. 1: - PRELIMINARIES AND GENERAL CONDITIONS OF CONTRACT BILL No. 2: - 3-UNIT CLASSROOM BLOCK SUB-<u>TOTAL</u> ADD 5% CONTINGENCY TOTAL ESTIMATED COST OF PROJECT CARRIED TO FORM OF TENDER Signed:..... For and behalf of:..... Works/Financial Category:..... Date:				

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