

**LOT 2 - CONSTRUCTION OF 1 NO.4 - UNIT WATER
CLOSED in SCIENCE LABORATORY CONSTRUCTION
IN NORTH TONGU DISTRICT.**

Item	Description	Qty	Unit	Rate	Total GH¢
	<u>BILL NO. 1</u>				
	<u>SUBSTRUCTURE</u>				
	(The Contractor is free to price for additional items under Preliminaries not included in the List below)				
	<u>A: GENERAL CONDITIONS</u>				
	<u>EMPLOYER'S REQUIREMENTS</u>				
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	Insurances of works	1	Item		-
G	Performance Security	1	Item		-
H	Testing of materials	1	Item		-
	<u>ACCURACY/SETTING OUT GENERALLY</u>				-
J	Setting out of the works	1	Item		-
	<u>Facility/Temporary work/Services</u>				-
K	Name or sign board	1	Item		-
L	Telephone/Facsimile facilities	1	Item		-
	<u>A40 Contractor's General Cost Items: Management and Staff</u>				-
M	Provide for general and trade supervision	1	Item		-

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	<u>A41 Contractor's General Cost Items: Site Accommodation</u>				
N	Site accommodation for workers	1	Item		-
	<u>PRELIMINARIES/GENERAL CONDITIONS</u>				
	<u>CARRIED FORWARD</u>				-
Item	Description	Qty	Unit	Rate	Total GH¢
	BROUGHT FORWARD				-
	<u>A42 Contractor's General Cost Items: Services and facilities</u>				
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				

					0,00
CONSTRUCTION OF 1NO 4- SEATER WATER CLOSET FACILITY WITH MECHANISED BOREHOLE					
Item	Description	Qty	Unit	Rate	Total GH¢
	BILL No. 2 -4 SEATER WATER CLOSET FACILITY				
	<u>ELEMENT NO. 1 SUBSTRUCTURE</u>				
	<u>Site Preparation</u>				
A	Clear site of all bushes, shrub, undergrowth and tree \leq 600mm girth and other obstruction grub up all roots and clear away	15	m ²		0,00
B	Excavate oversite average 150mm deep to remove top soil and vegetable matter wheel a distance not exceeding 200 metres and deposit in spoil heaps where directed.	10	m ²		0,00
C	Excavate trench to receive foundation maximum depth \leq 2.00 m	5	m ³		0,00
D	Excavate pit for column base maximum depth \leq 2.00m ditto	5	m ³		0,00
E	Disposal excavated material off site	5	m ³		0,00
F	Selected filling to excavation	8	m ³		0,00
G	225mm bed of approved hardcore spread and levelled and finished to receive concrete	10	m ²		0,00
	<u>In situ Concrete</u>				
H	Plain in situ concrete (1: 3: 6 - 38mm aggregate) as describe in:	1	m ³		0,00
J	Plain in situ Concrete 10/40 blinding \leq 150mm thick	4	m ³		0,00
K	Plain in situ concrete 25/20 in foundation				
L	Bed \leq 150mm thick	15	m ³		0,00
L	<u>Reinforced in situ vibrated concrete 25/20 described filled into form-</u> <u>work and packed around reinforcement (measured separately) in:</u>				
M	Column Base	1	m ³		0,00

N	Column	1	m ³		0,00
	<u>Formwork for in situ concrete sawn formwork to</u>				
P	Edges of bed/ slab 150mm high	15	m		0,00
Q	Edges of bed/ slab 150mm high	8	m ²		0,00
R	Sides of column base	7	m ²		0,00
S	Brick and Blockwalling				
	<u>Solid sandcrete blockwork in cement and sand (1:4) mortar</u>				
T	150mm Wall	25	m ²		0,00
	ELEMENT NO. 1 - SUB-STRUCTURE				
	<i>Carried to Summary of Bill No. 1</i>				0,00
Item	Description	Qty	Unit	Rate	Total GH¢
	<u>SUPERSTRUCTURE</u>				
	ELEMENT NO. 2- IN-SITU CONCRETE				
	<u>Reinforced in-situ vibrated concrete 30/20 as described filled into formwork and packed around reinforcement (both measured separately) in</u>				
A	Column	2	m ³		0,00
B	Beam	2	m ³		0,00
C	Slab	2	m ³		0,00
	Sawn Formwork for in situ concrete	30	m ²		0,00
D	Vertical sides of column	12	m ²		0,00
E	Sides of beam	15	m ²		0,00
F	Side and soffit of slab				
	<u>Reinforcement for in situ concrete</u>				
	<u>Supply and fix as described the following mild steel round bar</u>				

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	<u>reinforcement with and including all necessary binding wire in:</u>				
G	12mm Nominal size bar in column	120	Kg		0,00
H	6mm Nominal size ditto as links	100	Kg		0,00
J	12mm Nominal size bar in beam	250	Kg		0,00
K	6mm Nominal size ditto as links	110	Kg		0,00
L	12mm Norminal size bar in slab	118	Kg		0,00
	ELEMENT NO. 2- IN-SITU CONCRETE				
	Carried to the Summary of Bill No. 2				0,00
	ELEMENT NO. 3 - MASONRY				
	<u>Block walling</u>				
	<u>Sollid sandcrete blockwork in cement and sand mortar (1:4)</u>				
A	125mm Wall	80	m²		0,00
	ELEMENT NO. 3 - MASONRY				
	Carried to the Summary of Bill No. 3				0,00
	ELEMENT NO. 4 - ROOFING -				
A	'Glandeson" roofing sheet (IDT 0.45mm) fixed to hardwood with two corrugated side lap and 225mm end lap with approved screws and washers in accordance with manufacturers' specification	38	m²		0,00
B	Pre-shaped aluminium ridge capping 450mm girth	10	m		0,00
Item	ELEMENT NO. 4 - ROOFING -				
	Carried to the Summary of Bill No. 4				0,00
Item	Description	Qty	Unit	Rate	Total GH¢
	ELEMENT NO. 5 - CARPENTRY				
	<u>Sawn hardwood treated with solignum:</u>	20	m		0,00
A	50 x 150mm ridge board	20	m		0,00
B	50 x 100mm rafter	100	m		0,00
C	50 X 75mm pulins	110	m		0,00

D	50 x 50mm ceiling noggings and hangers	45	m		0,00
E	25 x 225mm fascia board	20	m		0,00
	ELEMENT NO. 5 - CARPENTRY				
	<i>Carried to Summary of bill no. 5</i>				0,00
	ELEMENT NO. 6 - JOINERY				
A	<u>Battern door well braced at the back</u>	4	Nr		0,00
B	Door size 800 x 2050mm	1	Nr		0,00
C	Double door Size: 1600 x 2100mm (Pannel)	84	m²		0,00
D	Plastic T & G ceiling finish	98	m		0,00
E	Ditto corner mould				
	<u>Frame</u>				
	<u>Wrought hardwood as described</u>				
F	50 x 150mm window Frame twice rebated and plugged to wall	40	m		0,00
G	Ditto door frame plugged to wall	48	m		0,00
H	12 x 50mm Hardwood stop	30	m		0,00
J	Battens nailed to window frames	60	m		0,00
	<u>Ironmongery</u>				
K	Mortice Lock with Anodised Aluminium lever handles (high grade Italian)	4	Nr		0,00
		4	Nr		0,00
L	<u>Pair</u> 100mm heavy duty Hinges	4	Nr		0,00
M	Ditto 150mm heavy duty Hinges	4	Nr		0,00
N	tower bolt and socket	4	Nr		0,00
	ELEMENT NO. 6 - JOINERY				
	<i>Carried to Summary of Bill No. 6</i>				0,00
Item	Description	Qty	Unit	Rate	Total GH¢
	ELEMENT NO. 7 - METAL WORK				

A	Pair Naco anodised Aluminium louvre carrier 11423.0mm long with clips for 8No. Glass blades 150mm wide screwed to hardwood frames with screws to match.	4	Nr	0,00
B	Pair Ditto 584.2mm long with clips for 4No glass blade ditto	4	Nr	0,00
	<u>Burglar Proofing</u>			
C	16mm diameter mild steel bar as burglar proof to window	120	m	0,00
	ELEMENT NO. 7 - METAL WORK Carried to Summary of Bill no. 7			0,00
	ELEMENT NO. 8: ELECTRICAL INSTALLATIONS Include the Sum of Ten Thousand Hundred Ghana Cedis for (GH¢ 10,000.00) for wiring of the building	1	Item	0,00
	ELEMENT NO. 8: ELECTRICAL INSTALLATIONS Carried to Summary of Bill No. 8			0,00
	ELEMENT NO. 9: PLUMBING AND ENGINEERING INSTALLATIONS			
A	W.C Complete (Twyford)/squate	4	Nr	0,00
B	Chromium plated towel rail plugged and screwed to wall	4	Nr	0,00
C	500 x 400mm Twyford Wash-hand Basin	4	Nr	0,00
D	Include The Sum of Ten Thousand Ghana Cedis GH¢ 10,000.00) for Polytank, and other Plumbing fittings	1	Item	0,00
	ELEMENT NO. 9: PLUMBING AND ENGINEERING INSTALLATIONS Carried to Summary of Bill NO.9			0,00
	ELEMENT NO. 10: FINISHINGS			
A	31mm screeded bed (1:3) to receive floor tiles	63	m²	0,00
B	19mm floated bed to receive wall tile	63	m²	0,00
	<u>Ceramic floor tiles: 3mm joints, symmetrical layout fixing with adhesive cement; grouting with matching coloured grout</u>			

C	600 x600 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	50	m ²		0,00
D	150 x 150 x 6mm thick white ceramic wall tile joined in cement mortar on wall	20	m ²		0,00
E	Skirting height 75mm	6	m ²		0,00
	Plastered, rendered and roughcast coating <u>20mm Cement and sand (1:4) rendering as describee to concrete or blockwork</u>				
F	Wall width > 300mm	80	m ²		0,00
	ELEMENT NO. 10: FINISHINGS <i>Carried to Summary of Bill No. 10</i>				0,00
Item	Description	Qty	Unit	Rate	Total GH¢
	ELEMENT NO.11-GLAZING				
A	150mm wide louvre blade with polished edged new black fitted in louvre	16	Nr		0,00
	ELEMENT NO.11-GLAZING <i>Carried to summary of Bill no. 11</i>				0,00
	ELEMENT NO. 12: PAINTING AND DECORATING <u>Prepare and supply two coats of Laylac emulsion paint on</u>				
A	wall <u>Prepare and apply two undercoats and one gloss finishing coat of oil paint on:</u>	85	m ²		0,00
B	Wooden surface	50	m ²		0,00
	ELEMENT NO. 12: PAINTING AND DECORATING <i>Carried to Summary of Bill No. 12</i>				0,00
Item	Description	Qty	Unit	Rate	Total GH¢
	SUMMARY				
1	BILL No. 2 -4 SEATER WATER CLOSET FACILITY				
2	ELEMENT NO. 1 SUBSTRUCTURE				0,00
2	<u>SUPERSTRUCTURE</u>				

3	IN-SITU CONCRETE				0,00
3	MASONRY				0,00
4	ROOFING				0,00
4	CARPENTRY				0,00
5	JOINRY				0,00
5	METAL WORK				0,00
6	ELECTRICAL INSTALLATIONS				0,00
6	PLUMBING AND ENGINEERING INSTALLATIONS				0,00
6	FINISHING				0,00
	GLAZING				0,00
	PAINTING AND DECORATION				0,00
	<u>GRAND SUMMARY</u>				0,00

BILL No. 3 - DRILLING AND CONSTRUCTION OF 1NO BOREHOLE, MECHANISATION / CONSTRUCTION OF PLATFORM INSTALLATION OF POLYTANK

Item	Description	Qty	Unit	Rate	Total GH¢
	BILL NO. 3				
	<u>CONSTRUCTION OF TANK STAND</u>				
	SUPPLY OF PUMPS	1	Nr		0,00
A	Supply Submersible pump				
	INSTALLATION OF PUMPS	1	Nr		0,00
B	Installation of submersible pump				
	TRAINING OF PUMP CARETAKERS	1	Nr		0,00
C	Training of pump caretakers	1	Nr		0,00
D	Borehole Head	70	m		0,00

E	Drop Cable	50	m		0,00
F	Tropical electrical cable 2.50mm	1	m		0,00
G	Discharge Cock	1	Nr		0,00
H	Joint Kit	1	item		0,00
J	Electricity Connection	1	no		0,00
	Supply and installation of Polytankmax (rambo 1,000L) on concrete tank stand 2200 x 2200 x 1500mm high connected with PVC piping well buried into concrete and 19mm K55 bib tap				
	ELEMENT NO. 1: CONSTRUCTION OF CONCRETE PLATFORM AND INSTALLATION OF SUBMERSIBLE PUMP				
	Carried to Bill No.3 summary				0,00
	<u>DRILLING OF 1NO. BOREHOLE</u>				
	Description	Qty	Unit	Rate	Total GH¢
A	Hydrogeological Survey	1	Item		0,00
	<u>Drilling</u>				
B	Drilling through over burden and highly weather rock for completion of 126mm diameter borehole in any type of	40	m		0,00
C	Drilling through moderately weather to fresh rock with D.T.H hammer bit for completion of 126 diameter borehole in any rock	80	m		0,00
D	Supply and install 126mm PVC casing	100	m		0,00
E	Supply and install 126mm PVC casing	21	m		0,00
F	Supply and install 126mm PVC Screen	10	m		0,00
G	Supply and install centralizer on 126mm casing and screens	18	m ²		0,00
H	Supply and place gravel as in design type A	1	m ³		0,00
J	Supply cement mix and place grout above gravels as in type A	5	m ²		0,00
K	Backfill annulus above grout seal as in design type A	4	m ²		0,00

L	Supply cement mix and place grout above backfill as in type A	4	m ²		0,00
	BOREHOLE DEVELOPMENT				
M	Develop borehole by surging with compressed air and air lifting	4	Hrs		0,00
	To Collection				0,00
Item	Description	Qty	Unit	Rate	Total GH¢
	TEST PUMPING				
A	Supply and install equipment for carrying out test for hand pump borehole	1	nr		0,00
B	Carry out constant discharge test for hand pump boreholes	6	hr		0,00
		3	hr		0,00
C	Carry out recovery test for hand pump boreholes				
	WATER QUALITY TEST				
D	Take lable and store sample of water from boreholes	1	sample		0,00
E	Carry out chemicals analysis as specified	1	sample		0,00
F	Carry out bacteriological analyses as specified	1	sample		0,00
	BOREHOLE CAPPING/BAIPLUG	1	each		0,00
G	Supply and fix suitable cap on borehole	1	each		0,00
H	Supply and bailplug on bottom as degree type A	1	each		0,00
	To Collection				0,00
	COLLECTION				
	PAGE 3				0,00
	PAGE 4				0,00
	DRILLING OF BOREHOLE				
	Carried to General Summary				0,00
Item	Description	Qty	Unit	Rate	Total GH¢
	CONSTRUCTION OF 1NO 4- SEATER WATER CLOSET FACILITY				

	BILL NO 4 - EXTERNAL WORKS				
A	Include the sum of Sixty Thousand Cedis (GH¢ 60,000.00) Septic tank and Aprone <i>Carried to General Summary</i>	1	Item		0,00 0,00
	GROSS SUMMARY				
	CONSTRUCTION OF No.1 4-UNIT WATER CLOSET				0,00
	CONSTRUCTION OF PLATFORM / PUMP INSTALLATION				0,00
	DRILLING OF BOREHOLE				0,00
	EXTERNAL WORKS				-
	TOTAL CARRIED TO SUMMARY				-
	TOTAL CARRIED TO SUMMARY (EUR)				-

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