

LOT 1 - CONSTRUCTION OF 12 NO,6- SEATER WATER CLOSET FACILITY WITH MECHANISED BOREHOLE IN NORTH TONGU DISTRICT.

Item	Description	Qty	Unit	Rate	Amount
	BILL No. 1 - PRELIMINARIES AND GENERAL ITEMS				
	<u>Contractor's requirements</u>	Method	Time		
A	Setting Out				
B	Small Plants, Tools & Vehicles				
C	Scalffolding				
D	Safety, health and welfare				
E	Site Agents/Foremen				
F	Temporary Stores				
G	Shelter for the workmen				
H	Site Offices				
J	Watchman's Hut				
K	Water & Power for the Works				
L	Toilet facilities				
	BILL No. 1 - PRELIMINARIES AND GENERAL ITEMS				
	TOTAL CARRIED TO GRAND SUMMARY				0,00
Item	Description	Qty	Unit	Rate	Amount
	BILL No. 2 -6 SEATER WATER CLOSET FACILITY				
	<u>ELEMENT NO. 1 SUBSTRUCTURE</u>				



	<u>Site Preparation</u>				
A	Clear site of all bushes, shrub, undergrowth and tree $\leq 600\text{mm}$ girth and other obstruction grub up all roots and clear away	10	m^2		
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		
C	Excavate trench to receive foundation maximum depth $\leq 2.00\text{ m}$	16	m^3		
D	Excavate pit for column base maximum depth $\leq 2.00\text{m}$ ditto	2	m^3		
E	Disposal excavated material off site	6	m^3		
F	Selected filling to excavation	5	m^3		0,00
G	225mm bed or approved hardcore spread and levelled and finished to receive concrete	12	m^2		0,00
	In situ Concrete				0,00
	<u>Plain in situ concrete (1: 3: 6 - 38mm aggregate) as describe in:</u>				0,00
H	Plain in situ Concrete 10/40 blinding $\leq 150\text{mm}$ thick	2	m^3		0,00
J	Plain in situ concrete 25/20 in foundation	4	m^3		
K	Bed $\leq 150\text{mm}$ thick	3	m^3		0,00
	<u>Reinforced in situ vibrated concrete 25/20 described filled into form-work and packed around reinforcement (measured separately) in:</u>				
L	Column Base	1	m^3		
M	Column	1	m^3		
	<u>Formwork for in situ concrete sawn formwork to</u>				0,00
N	Edges of bed/ slab 150mm high	30	m		0,00
P	Sides of column base	15	m^2		
Q	Vertical sides of column	14	m^2		
	Brick and Blockwalling				0,00
					0,00

	<u>Solid sandcrete blockwork in cement and sand (1 4) mortar</u>			0,00
R	150mm Wall	35	m ²	0,00
	ELEMENT NO. 1 - SUB-STRUCTURE			0,00
	<i>Carried to Summary of Bill No. 2</i>			0,00
	<u>SUPERSTRUCTURE</u>			
	ELEMENT NO. 2- IN-SITU CONCRETE			
	<u>Reinforced in-situ vibrated concrete 30/20 as described filled into</u>			
	<u>formwork and packed around reinforcement (both measured separately) in</u>			
A	Column	2	m ³	
B	Beam	2	m ³	
C	Slab	1	m ³	0,00
	Sawn Formwork for in situ concrete			
D	Vertical sides of column	60	m ²	
E	Sides of beam	58	m ²	
F	Side and soffit of slab	15	m ²	0,00
	<u>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 in:</u>			
G	12mm Nominal size bar in column	180	Kg	
H	6mm Nominal size ditto as links	154	Kg	
J	12mm Nominal size bar in beam	310	Kg	
K	6mm Nominal size ditto as links	110	Kg	
L	12mm Norminal size bar in slab	150	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>			
M	125mm Wall	75	m ²	
	ELEMENT NO. 3 - MASONRY			
	Carried to the Summary of Bill No. 2			0,00
	ELEMENT NO. 4 - ROOFING -			
A	Glaueson roofing sheet (101 0.45mm) fixed to hardwood with two corrugated side lap and 225mm end	45	m ²	0,00
B	Pre-shaped aluminium ridge capping 450mm girth	12	m	0,00
	ELEMENT NO. 4 - ROOFING -			
	Carried to the Summary of Bill No. 2			0,00
	ELEMENT NO. 5 - CARPENTRY			
	<u>Sawn hardwood treated with solignum:</u>			
C	50 x 150mm ridge board	60	m	0,00
D	50 x 100mm rafter	240	m	0,00
E	50 X 75mm pulins	380	m	0,00
F	50 x 50mm ceiling noggings and hangers	350	m	0,00
G	25 x 225mm fascia board	60	m	0,00
	ELEMENT NO. 5 - CARPENTRY			
	Carried to Summary of bill no. 2			0,00
	ELEMENT NO. 6 - JOINERY			
	<u>Battern door well braced at the back</u>			
H	Door size 800 x 2050mm	6	Nr	0,00
				0,00

K	Plastic T & G ceiling finish	84	m ²	0,00
L	Ditto corner mould	98	m	0,00
Page 2/3 to collection				0,00
<u>Frame</u>				
<u>Wrought hardwood as described</u>				
A	50 x 150mm window frame twice rebated and plugged to wall	80	m	0,00
B	Ditto door frame plugged to wall	90	m	0,00
C	12 x 50mm Hardwood stop	90	m	0,00
D	Battens nailed to window frames	80	m	0,00
<u>Ironmongery</u>				
E	MORTICE LOCK with Anodised Aluminium lever handles (high grade Italian)	6	Nr	0,00
G	Ditto 150mm heavy duty Hinges	6	Nr	0,00
H	tower bolt and socket	6	Nr	0,00
Page 2/4 to collection				0,00
COLLECTIONS				
Page 2/3				
Page 2/4				
ELEMENT NO. 6 - JOINERY				
Carried to Summary of Bill No. 2				0,00
ELEMENT NO. 7 - METAL WORK				
J	Pair INACO anodised Aluminium louvre carrier 11423.0mm long with clips for 21No. Glass blades 150mm wide screwed to hardwood			

	frames with screws to match.	6	Nr	0,00
K	Pair DITTO 584 x2mm long with clips for 4140 glass blade ditto	6	Nr	0,00
	<u>Burglar Proofing</u>			0,00
L	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. 2				0,00
ELEMENT NO. 8: ELECTRICAL INSTALLATIONS				
A	Include the Sum of Twenty Thousand Hundred Ghana Cedis for (GH¢ 20,000.00) for wiring of the building		Item	
ELEMENT NO. 8: ELECTRICAL INSTALLATIONS				
Carried to Summary of Bill No. 2				0,00
ELEMENT NO. 9: PLUMBING AND ENGINEERING INSTALLATIONS				
B	W.C Complete (Twyford)	6	Nr	0,00
C	Chromium plated towel rail plugged and screwed to wall	6	Nr	0,00
D	500 x 400mm Twyford Wash-hand Basin	6	Nr	0,00
ELEMENT NO. 9: PLUMBING AND ENGINEERING INSTALLATIONS				
Carried to Summary of Bill NO.2				0,00
ELEMENT NO. 10: FINISHINGS				
F	31mm screeded bed (1:3) to receive floor tiles	75	m ²	0,00
<u>Ceramic floor tiles: 3mm joints, symmetrical layout fixing with adhesive cement; grouting with matching coloured grout</u>				
H	600 x 600 x 8mm thick porcelain floor tiles including extra for round edges bedded and jointed in cement and sand	75	m ²	
J	150 x 150 x 8mm thick white ceramic wall tile joined in cement mortar on wall	30	m ²	
K	Skirting height 75mm	10	m ²	
<u>Plastered, rendered and roughcast coating</u>				
<u>20mm Cement and sand (1:4) rendering as describee to concrete or blockwork</u>				

L	Wall width > 300mm	150	m ²	
ELEMENT NO. 10: FINISHINGS				
<i>Carried to Summary of Bill No. 2</i>				0,00
ELEMENT NO.11-GLAZING				
A	150mm wide louvre blade with polished edged new black fitted in louvre	120	Nr	0,00
ELEMENT NO.11-GLAZING				
<i>Carried to summary of Bill no. 2</i>				0,00
ELEMENT NO. 12: PAINTING AND DECORATING				
<u>Prepare and supply two coats of Laylac emulsion paint on</u>				
B	wall	150	m ²	0,00
<u>Prepare and apply two undercoats and one gloss finishing coat of oil paint on:</u>				0,00
				0,00
				0,00
				0,00
				0,00
C	Wooden surface	98	m ²	0,00
ELEMENT NO. 12: PAINTING AND DECORATING				
<i>Carried to Summary of Bill No. 2</i>				0,00
SUMMARY				
BILL No. 2 -6 SEATER WATER CLOSET FACILITY				
2/1	ELEMENT NO. 1 SUBSTRUCTURE			
<u>SUPERSTRUCTURE</u>				
2/2	ELEMENT NO. 2- IN-SITU CONCRETE			
2/2	ELEMENT NO. 3 - MASONRY			

2/3	ELEMENT NO. 4 - ROOFING -				
2/3	ELEMENT NO. 5 - CARPENTRY				
2/4	ELEMENT NO. 6 - JOINERY				
2/4	ELEMENT NO. 7 - METAL WORK				
2/5	ELEMENT NO. 8: ELECTRICAL INSTALLATIONS				
2/5	ELEMENT NO. 9: PLUMBING AND ENGINEERING INSTALLATIONS				
2/6	ELEMENT NO. 10: FINISHINGS				
2/6	ELEMENT NO.11-GLAZING				
2/6	ELEMENT NO. 12: PAINTING AND DECORATING				
BILL No. 2 -6 SEATER WATER CLOSET FACILITY CARRIED TO GENERAL SUMMARY					0,00

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

ITEM	DESCRIPTION	QTY	UNIT	Rate GHC	Amount GHC
	BILL NO. 3				
	<u>CONSTRUCTION OF TANK STAND</u>				
	SUPPLY OF PUMPS				
A	Supply Submersible pump	1	Nr		0,00
	INSTALLATION OF PUMPS				
B	Installation of submersible pump	1	Nr		0,00
	TRAINING OF PUMP CARETAKERS				

C	Training of pump caretakers	1	Nr		0,00
D	Borehole Head	1	Nr		0,00
E	Drop Cable	70	m		0,00
F	Tropical electrical cable 2.50mm	50	m		0,00
G	Discharge Cock	1	m		0,00
H	Joint Kit	1	Nr		0,00
J	Electricity Connection	1	item		0,00
K	Supply and installation of Polytankmax (rambo 1,000L) on concrete tank stand 2200 x 2200 x 1500mm high	1	no		0,00
	ELEMENT NO. 1: CONSTRUCTION OF CONCRETE PLATFORM AND INSTALLATION OF SUBMERSIBLE PUMP				
	Carried to Bill No.3 summary				0,00
	ELEMENT NO. 1: CONSTRUCTION OF CONCRETE PLATFORM AND INSTALLATION OF SUBMERSIBLE PUMP				0,00
	<u>DRILLING OF 1NO. BOREHOLE</u>				
ITEM	DESCRIPTION	QTY	UNIT	RATE GHC	AMOUNT (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
	BOREHOLE CONSTRUCTION				
D	Supply and install 126mm PVC casing	100	m		0,00
E	Supply and install 126mm PVC Screen	21	m		0,00
F	Supply and install centralizer on 126mm casing and screens	10	m		0,00

G	Supply and place gravel as in design type A	18	m ²	0,00
H	Supply cement mix and place grout above gravels as in type A	1	m ³	0,00
J	Backfill annulus above grout seal as in design type A	5	m ²	0,00
K	Supply cement mix and place grout above backfill as in type A	4	m ²	0,00
BOREHOLE DEVELOPMENT				
L	Develop borehole by surging with compressed air and air lifting	4	hr	0,00
To Collection				0,00
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
C	Carry out recovery test for hand pump boreholes	3	hr	0,00
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
G	BOREHOLE CAPPING/BAILPLUG	1	each	0,00
H	Supply and fix suitable cap on borehole	1	each	0,00
J	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	Amount GHC
A	BILL NO 4 - EXTERNAL WORKS Include the sum of Sixty Thousand Cedis (GH¢ 60,000.00) Septic tank and Aprone BILL NO 4 - EXTERNAL WORKS	1	Item		0,00
	Carried to General Summary				0,00
	CONSTRUCTION OF 12 NO. 6- SEATER WATER CLOSET FACILITY WITH MECHANISED BOREHOLE				
	PRELIMINARIES				
	CONSTRUCTION OF 6-SEATER WATER CLOSET TOILET				0,00
	CONSTRUCTION OF PLATFORM / PUMP INSTALLATION				0,00
	DRILLING OF BOREHOLE				0,00
	EXTERNAL WORKS				0,00
	TOTAL CARRIED TO SUMMARY				0,00
	12 No 6- Units Water Closets	12	Nr		0,00
	TOTAL CARRIED TO SUMMARY (EUR)				0,00