

LOT 2 - CONSTRUCTION OF 1NO,18- SEATER WATER CLOSET FACILITY WITH MECHANISED BOREHOLE IN NORTH TONGU DISTRICT.

Item	Description	Qty	Unit	Rate	Amount
	BILL No. 1 - PRELIMINARIES AND GENERAL ITEMS	Method	Time		
	<u>Contractor's requirements</u>				
A	Setting Out				
B	Small Plants, Tools & Vehicles				
C	Scaffolding				
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				0,00
	TOTAL CARRIED TO GRAND SUMMARY				
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	117	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.	117	m^2		
C	Excavate trench to receive foundation maximum depth $\leq 2.00\text{ m}$	48	m^3		
D	Excavate pit for column base maximum depth $\leq 2.00\text{m}$ ditto	4	m^3		
E	Disposal excavated material off site	100	m^3		
F	Selected filling to excavation	50	m^3		0,00
G	225mm bed of approved hardcore spread and levelled and finished to receive concrete	150	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	3	m^3		
J	Plain in situ concrete 25/20 in foundation	11	m^3		
K	Bed $\leq 150\text{mm}$ thick	15	m^3		0,00
<u>Reinforced in situ vibrated concrete 25/20 described filled into form-</u> <u>work and packed around reinforcement (measured separately)</u> <u>in:</u>					
L	Column Base	2	m^3		
M	Column	4	m^3		
<u>Formwork for in situ concrete sawn formwork to</u>					0,00
N	Edges of bed/ slab 150mm high	117	m		0,00
P	Sides of column base	20	m^2		
Q	Vertical sides of column	15	m^2		

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	Brick and Blockwalling			0,00
	<u>Solid sandcrete blockwork in cement and sand (1 4) mortar</u>			0,00
R	150mm Wall	105	m ²	0,00
	ELEMENT NO. 1 - SUB-STRUCTURE			
	<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	4	m ³	
B	Beam	3	m ³	
C	Slab	2	m ³	0,00
	Sawn Formwork for in situ concrete			
D	Vertical sides of column	120	m ²	
E	Sides of beam	90	m ²	
F	Side and soffit of slab	45	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	188	Kg	
H	6mm Nominal size ditto as links	170	Kg	
J	12mm Nominal size bar in beam	620	Kg	
K	6mm Nominal size ditto as links	210	Kg	
L	12mm Norminal size bar in slab	210	Kg	0,00

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ELEMENT NO. 2- IN-SITU CONCRETE			0,00
Carried to the Summary of Bill No. 2			
ELEMENT NO. 3 - MASONRY			
<u>Block walling</u>			
<u>Sollid sandcrete blockwork in cement and sand mortar (1:4)</u>			
M	125mm Wall	490 m ²	
ELEMENT NO. 3 - MASONRY			0,00
Carried to the Summary of Bill No. 2			
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	225 m ²	0,00
B	Pre-shaped aluminium ridge capping 450mm girth	45 m	0,00
ELEMENT NO. 4 - ROOFING -			0,00
Carried to the Summary of Bill No. 2			
ELEMENT NO. 5 - CARPENTRY			
<u>Sawn hardwood treated with solignum:</u>			
C	50 x 150mm ridge board	110 m	0,00
D	50 x 100mm rafter	110 m	0,00
E	50 X 75mm pulins	280 m	0,00
F	50 x 50mm ceiling noggings and hangers	215 m	0,00
G	25 x 225mm fascia board	120 m	0,00
ELEMENT NO. 5 - CARPENTRY			0,00
Carried to Summary of bill no. 2			
ELEMENT NO. 6 - JOINERY			
<u>Battern door well braced at the back</u>			

H	Door size 800 x 2050mm	18	Nr	0,00
K	Plastic T & G ceiling finish	289	m ²	0,00
L	Ditto corner mould	120	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	98	m	0,00
B	Ditto door frame plugged to wall	110	m	0,00
C	12 x 50mm Hardwood stop	101	m	0,00
D	Battens nailed to window frames	115	m	0,00
<u>Ironmongery</u>				
E	Mortice Lock with Anodised Aluminium lever handles (high grade Italian)	18	Nr	0,00
G	Ditto 150mm heavy duty Hinges	18	Nr	0,00
H	tower bolt and socket	18	Nr	0,00
Page 2/4 to collection				0,00
COLLECTIONS				
Page 2/3				0,00
Page 2/4				0,00
ELEMENT NO. 6 - JOINERY				
Carried to Summary of Bill No. 2				0,00
ELEMENT NO. 7 - METAL WORK				

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J	Pair Naco anodised Aluminium louvre carrier 11423.0mm long with clips for 2No. Glass blades 150mm wide screwed to hardwood frames with screws to match.	18	Nr		0,00
K	Pair Ditto 584 x2mm long with clips for 4No glass blade ditto	18	Nr		0,00
	<u>Burglar Proofing</u>				0,00
L	16mm diameter mild steel bar as burglar proof to window	152	m		0,00
	ELEMENT NO. 7 - METAL WORK				0,00
	Carried to Summary of Bill no. 2				
A	ELEMENT NO. 8: ELECTRICAL INSTALLATIONS Include the Sum of Fifty Thousand Hundred Ghana Cedis for (GH¢ 50,000.00) for wiring of the building		Item	Sum	
	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)	18	Nr		0,00
C	Chromium plated towel rail plugged and screwed to wall	18	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	117	m ²		0,00
	<u>Ceramic floor tiles: 3mm joints, symmetrical layout fixing with adhesive cement; grouting with matching coloured grout</u>				
H	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	125	m ²		

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J	150 x 150 x 6mm thick white ceramic wall tile joined in cement mortar on wall	825	m ²	
K	Skirting height 75mm	100	m ²	
	Plastered, rendered and roughcast coating <u>20mm Cement and sand (1:4) rendering as describee to concrete or blockwork</u>			
L	Wall width > 300mm	245	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	110	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	816	m ²	0,00
	<u>Prepare and apply two undercoats and one gloss finishing coat of oil paint on:</u>			0,00
				0,00
C	Wooden surface	128	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			0,00

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<u>SUPERSTRUCTURE</u>					
2/2	ELEMENT NO. 2- IN-SITU CONCRETE				0,00
2/2	ELEMENT NO. 3 - MASONRY				0,00
2/3	ELEMENT NO. 4 - ROOFING -				0,00
2/3	ELEMENT NO. 5 - CARPENTRY				0,00
2/4	ELEMENT NO. 6 - JOINERY				0,00
2/4	ELEMENT NO. 7 - METAL WORK				0,00
2/5	ELEMENT NO. 8: ELECTRICAL INSTALLATIONS				0,00
2/5	ELEMENT NO. 9: PLUMBING AND ENGINEERING INSTALLATIONS				0,00
2/6	ELEMENT NO. 10: FINISHINGS				0,00
2/6	ELEMENT NO. 11-GLAZING				0,00
2/6	ELEMENT NO. 12: PAINTING AND DECORATING				0,00
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 connected with PVC piping well buried into concrete and 19mm K55 bib tap	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 (GHC)
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

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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
	BILL NO 4 - EXTERNAL WORKS				
A	Include the sum of Sixty Thousand Cedis (GH¢) Septic tank and Aprone	1	Item		0,00
	BILL NO 4 - EXTERNAL WORKS				
	Carried to General Summary				0,00
	CONSTRUCTION OF 1NO. 18- SEATER WATER CLOSET FACILITY WITH MECHANISED BOREHOLE				
	PRELIMINARIES				0,00
	CONSTRUCTION OF 18-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
	TOTAL CARRIED TO SUMMARY (EUR)				0,00