DRILLING AND MECHANIZATION OF 12NO. MECHANIZED BOREHOLE WITH CONCRETE POLYTANK STAND IN SELECTED COMMUNITIES

ITEM	*DESCRIPTION*	*QTY*	*RATE*	*RATE*	*AMOUNT*
	PRELIMINARIES				
A	Tender Securities				
B	Water for Works				
C	Health and Safety				
D	Progress Photograhs				
E	Clerk of Works				
	Preliminaries Carried to Summary		***GH₵***		

DRILLING AND MECHANIZATION OF 12NO. MECHANIZED BOREHOLE WITH CONCRETE POLYTANK STAND IN SELECTED COMMUNITIES

ITEM	*DESCRIPTION*	*QTY*	*UNIT*	*RATE*	*AMOUNT*
	DRILLING OF BOREHOLE				
	Mobilization and Demobilization (includes moving, setting out, maintaining and dismantling the drillling unit from the field and cleaning site				
A	Mobilization of vehicle to site	1	l/s		
B	Demobilization of vehicle	1	l/s		
C	Mounting and Demounting	1	bh		
	MOVEMENT				
D	Movement between work site	1	km		
	Borehole Drilling to a finished diameter of 125mm				
	Including the application of appriopraite methodology of drilling (e.g. drilling, mud drilling ,reserve circulation drilling,water drilling etc.). Also includes drilling larger diameter pilot holes for the installation of recoverd and unrecoverd working and protection casing as well as installation of Bell Mouth				
E	Drilling through overburden and highly weathered rock	20	m		
F	Drilling through partially weathered to fresh crystalline, Consolidated, unconsolidated, any type of rock	50	m		
	BOREHOLE CONSTRUCTION *Including the supply and installation of centraliser, PVC Screens, gravels and gruot seals*				
G	Supply and install PVC plain pipes with centralisers to a finished diameter of 125mm	60	m		
H	Supply and install pvc slotted pipes(screens) with centralisers to finished diameter of 125mm	15	m		
J	Supply and place 2-4mm gravels, packed, as in design type A	55	m		
K	Supply cement,mix and place grout seal above gravel as in design type A	1	m		
L	Backfill annulus space above grout seal as design type	15	m		
M	Supply cement,mix and place grout seal above backfilll	4	m		
	BOREHOLE CONCRETE PAD				
N	Supply all materials and construct concrete pad on drilled borehole	1	l/s		

DRILLING AND MECHANIZATION OF 12NO. MECHANIZED BOREHOLE WITH CONCRETE POLYTANK STAND IN SELECTED COMMUNITIES

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	INSTALLATION OF MECHANIZED PUMP				
p	Procure and install 1.5 HP submersible pump	1	l/s		
Q	Install 1" diameter hpde pipes	75	M		
R	Electrical cable of 6mm diameter	1	Coil		
S	Circuit breaker	1	l/s		
	Drilling and Mechanization of Borehole Carried to Summary		***GH₵***		
	POLYTANK WATER STAND				
	Excavation and Earthwork				
A	Excavate pits for tank stand not exceeding 1.50 starting from formation level	2	m³		
B	Backfill around foundation with selected excavated material well rammed in layers	1	m³		
C	Remove surplus excavated material from site	1	m³		
	Concrete work				
D	*Plian insitu concrete (1:4:8-19mm agg)as described in* Blinding	1	m³		
	Reinforced Concrete in situ vibrated concrete (1:2:4-19mm aggregate)as described in				
E	Column Base	1	m³		
F	Column	2	m³		
G	Slab	1	m³		
	Reinforcement				
	Rolled mild steel round bar reinforcement to BS 449 as described in:				
H	16mm diameter bar in column base	40	kg		
J	16mm diameter bar in column	68	kg		
K	12mm in Slab	55	kg		
K1	10mm diameter as stirrups	20	kg		
	Sawn formwork				
L	Sides of Column	32	m²		
M	Soffit and sides of slab	35	m²		
	Plastering				
P	To column, sides and soffit of slabs	28	m²		
	Polytank Stand Carried to Summary		***GH₵***		

DRILLING AND MECHANIZATION OF 12NO. MECHANIZED BOREHOLE WITH CONCRETE POLYTANK STAND IN SELECTED COMMUNITIES

ITEM	*DESCRIPTION*	*QTY*	*UNIT*	*RATE*	*AMOUNT*
	PLUMBING WORKS *(For Mechanical,Electrical, Plumbing Materials and Works)*				
C	3/4" Pipe	50	No.		
D	3/4" Bend	25	No.		
E	3/4" Tee	15	No.		
F	3/4" x 1/2" Reducer	15	No.		
G	1/2" Stop Cork	15	No.		
H	1/2" K 28	15	No.		
J	1" Air Valve	8	No.		
K	3/4" Union	2	No.		
L	1" Union	2	No.		
M	1" Bend	12	No.		
N	1" X 3/4" Reducer	2	No.		
P	1" Valve Socket	4	No.		
Q	S100	4	No.		
R	Tangent	2	No.		
S	3/4" x 1/2" Reducer Tee	15	No.		
T	1/2" Bend	15	No.		
U	1" Pipe	1	No.		
V	Silicon	1	No.		
W	1/2" Adaptor	16	No.		
X	Thread Seal Tape	10	No.		
Y	1/2" Pipe	12	No.		
U	Allow Provisional sum of ***GH¢ 5,000.00*** for the supply of Rambo 350 Polytank		Item	Sum	5,000.00
	Plumbing Works Carried to Summary		***GH₵***		
	FETCHING POINT				
	Excavation and Earthworks				
A	Excavate foundation trench not exceeding 1.50m deep commencing at stripped level	3	m^3		
B	Backfill selected excavated material around foundations	1	m^3		
C	Approved laterite filling in making up levels under floor	3	m^3		
	Concrete Work				
	Plain in-situ concrete grade 15				
A	Foundation	1	m^3		

DRILLING AND MECHANIZATION OF 12NO. MECHANIZED BOREHOLE WITH CONCRETE POLYTANK STAND IN SELECTED COMMUNITIES

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	Reinforced In-situ Concrete Grade 20				
A	Column base	1	m^3		
B	Column	1	m^3		
C	75mm floor bed	1	m^3		
	Mild steel round bar reinforcement as described				
A	12mm diameter bar in column base	9	kg		
B	12mm ditto in column	5	kg		
	Sawn Formwork				
A	Sides of column base	1	SM		
B	Sides of column	1	SM		
	Blockwork				
	Solid Sandcrete Blockwork in cement Mortar(1:4)				
A	150mm Wall	12	m^2		
	Tiling				
	Beds and backings				
	Cement and sand (1:3) as described on floor to receive floor tiles				
B	50mm level paving, trowelled smooth	6	m^2		
C	400 x 400 x 12mm porcelain floor tiles porcelain laid basement floor	6	m^2		
	Beds and Backings				
	Cement and sand (1:3) as described 12mm screeded backing to receive				
A	Wall tiles (measured separately)	8	m^2		
B	400 x 250 x 12mm porcelain wall tiles laid on walls in washrooms and kitchen	8	m^2		
	Fetching Point to Summary		***GH₵***		
	ELECTRICAL WORKS				
A	Allow a Provisional Sum of ***GH₵ 6,000.00*** for all Electrical works and Installation of Meter		Item		6,000.00
	Electrical Works Carried to Summary		***GH₵***		***6,000.00***

DRILLING AND MECHANIZATION OF 12NO. MECHANIZED BOREHOLE WITH CONCRETE POLYTANK STAND IN SELECTED COMMUNITIES

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	SUMMARY				
A	*Drilling and Mechanization of Borehole*		*GH₵*		
B	*Polytank Water Stand*		*GH₵*		
C	*Plumbing Works*		*GH₵*		
D	*Fectching Point*		*GH₵*		
E	*Electrical Works*		*GH₵*		*6,000.00*
	SUB-TOTAL (1NO. BOREHOLE)		***GH₵***		
	TOTAL (10NO. BOREHOLES)		***GH₵***		

DRILLING AND MECHANIZATION OF 12NO. MECHANIZED BOREHOLE WITH CONCRETE POLYTANK STAND IN SELECTED COMMUNITIES

ITEM	*DESCRIPTION*	*QTY*	*UNIT*	*RATE*	*AMOUNT*
	GENERAL SUMMARY				
A	*PRELIMINARIES*		*GH₵*		
B	*DRILLING AND MECHANIZATION OF 10NO. BOREHOLE WITH CONCRETE POLYTANK STAND*		*GH₵*		
	TOTAL				