

BoQ for Borehole drilling

S. No.	Description of work	Unit	Quantity	Unit cost NGN	Total Cost (NGN)
1	General Items				
1.1	Mobilization, Erection of equipment and demobilization after completion of drilling	Ls	1.00		
1.2	Site preparation, setting up of the machine and clearing of site after completion	Site	1.00		
2	Borehole drilling, development and construction				
2.2	Drilling in sedimentary formation to appropriate formation in appropriate diameter for installation of 5" uPVC 16 bar casings - both blind and screen	M	300.00		
2.3	Supply and pack selected 6-9mm river gravel	m3	10.00		
2.4	Well Development by air lifting	No	1.00		
2.5	Well head construction and inject cement grout to protect borehole surface from surface water up to 10m below the ground level	Ls	1.00		
2.6	Allow for control of loss of circulation zone beyond 4hrs - if applicable	Hrs.	1.00		
2.7	Backfilling and sealing abortive borehole - if applicable	Ls	1.00		
2.8	Supply and installation of casing				
2.10	5" diameter uPVC 16 bar blind casings	m	264.00		
2.11	5" diameter uPVC 16 bar screen casing	m	36.00		
2.12	2" GI observation riser pipe; 1Pc=6m	Pcs	50.00		
2.13	Backfilling wall, annulus and casings	Ls	1.00		
3	Borehole testing				
3.1	Constant rate test pumping (min. 24hours)*	Hrs.	24		
3.2	Step-drawdown test (5 hr. including recovery)	Hrs.	5		
4	Water sample analysis and completion report				
4.1	Conduct borehole water sample physical and chemical analysis	No	1.00		
4.2	Borehole drilling detail report - including coordinates of the location, lithological description, pumping test result, pump size recommendation, etc.; with progress photographs in format of	No	1.00		
5	Borehole disinfection				
5.1	Disinfection of borehole with 50mg/l chlorine solution	Ls	1.00		
6	Supply and installation of pump				
6.1	Supply and install Grundfos submersible pump as per the drilling and pump test report. It is estimated the pump is not less than 5.5Hp. The cost includes 3" GI riser pipe and all accessories	No	1.00		
7	Fencing the borehole with chain links				
7.1	Earthwork in excavation in any kind of soil in foundation commencing at strip level not exceeding 750mm deep.	m3	0.20		
7.2	Concrete casting for the 4"X4" angle iron posts foundation not less than 250mm deep. The concrete should be C-21. The cost include concrete mixing, blinding, vibrating, casting and curing.	m3	0.20		
7.3	Provision, welding and installing of 4"X4"X2" 2.5 meter angle iron posts at 1 m c/c interval to be embedded in concrete foundation. The fencing covers 9m2. Each post must be reinforced with diagonal 4X4X2 angle iron. Holes should be made on the iron post at 0.4m interval to tie mesh wire	Pcs	12.00		
7.4	Provision and installation of galvanized square mesh wire with 4cm opening. The cost includes 8mm tie wire/strip wire. The fence should cover the elevated tank, water source and solar modules.	m2	30.00		
7.5	Provision and fixing of double door 0.9 m width x 2.5 m height.	m2	2.25		
GRAND TOTAL					-