


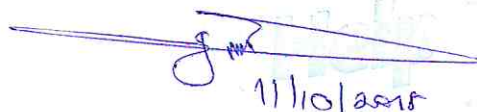
HELP BILL OF QUANTITIES FOR DRILLING OF 1 BOREHOLE

ITEM	DESCRIPTION/SPECIFICATION	UNIT	Qty	RATE (USD)	AMOUNT (USD)
1.0	PRELIMINARIES AND GENERAL				
1.1	Mobilisation and demobilisation of contractors crew and equipment	sum	1		
1.2	Geophysics investigation for ground water exploration	sum	1		
1.3	Preparation and submission of borehole completion reports	nr	1		
Bill 1	SUB TOTAL 1				
2.0	DRILLING AND WELL DEVELOPMENT				
2.1	Shifting between sites(average Km)	Km	10		
2.2	Clearing, setting up and dismantling of equipments at drilling sites	sum	1		
2.3	Drilling by rotary (mud drilling) or DTH methods as instructed by the supervisor in soft formation(over burden) at 12" diameter bit from 0-6m meter deep and installation & removal of 12" temporary casing.	m	6		
2.4	Drilling with min. 8" bit to total depth of 100m(06-100m depth, effective depth 94m per borehole)	m	80		
2.5	Soil sampling and storing of drill cutting at 2m intervals or instructed by the supervisor	sum	1		
2.6	Well capping and installation of bottom plug	nr	1		
2.7	Supply and installation of UPVC 5"ND screens of 3m length with ends threaded, male and female with thickness of 5mm.	m	18		
2.8	Supply and installation of UPVC (5mm thickness) 5"ND Plain casing 3m length with both ends threaded, male or female	m	62		
2.9	Supply and installation of 50kg bags gravel pack f 2mm-6mm	bags	35		
2.10	Supply and installation of inert backfill material	sum	1		
2.11	Place 1m cement grouting on ditto	sum	1		
2.12	Casting of sanitary seal	sum	1		
2.13	Well development until water clears	Hours	3		
Bill 2	SUB TOTAL 2				
3.0	TEST PUMPING AND RECOVERY				
3.1	Movement between sites	Km	10		
3.2	Pump installation at a depth recommended by the supervisor and removal	sum	1		
3.3	Pumping and measuring draw down	hours	4		
3.4	Recovery monitoring	hours	2		
Bill 3	SUB TOTAL 3				



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ITEM	DESCRIPTION/SPECIFICATION	UNIT	Qty	RATE (USD)	AMOUNT (USD)
4.0	WATER QUALITY				
4.1	Sample collection in sterilized one litre bottles	nr	1		
4.2	Water Quality Analysis and report by National Lincensed laboratory	nr	1		
Bill 4	SUB TOTAL 4				
5.0	PUMP INSTALLATION				
5.1	Supply and installation of India Mark II Pump Head Complete (may install extra deep depending on pump test results)	No	1		
5.2	Supply and installation of India Mark II Water tank with "reduce Spout"	No	1		
5.3	Supply and installation of india Mark II pedestal	No.	1		
5.4	Supply and installation of Ull GI raiser pipes, in 3m length	Pcs	20		
5.5	Supply and installation of GI connecting rods	Pcs	20		
5.6	Supply and installation of Ull cylinders (may use extra deep hand pump cylinder depending on installation depth)	No.	1		
5.7	Borehole disinfection as detail in specification	No.	1		
Bill 5	SUB TOTAL 5				
6.0	CONSTRUCTION OF BOREHOLE APRON, DRAINAGE CHANNEL AND SOAKPIT				
6.1	100mm thick reinforced concrete (1:2:4/12mm aggregates) for apron (minimum diameter 1.85) and 6m drainage channel (refer the drawings for reinforcement details)	sum	1		
6.2	Excavate 1.5m dia. and 1.5m deep Soakpit at the end of the drainage chanel, fill with laterite stone or any other appropriate material and cover with 1000mm gauge polythene and backfill.	sum	1		
Bill 6	SUB TOTAL 6				
	SUMMARY TO BoQ				AMOUNT USD
Bill 1	PRELIMINARIES AND GENERAL				
Bill 2	DRILLING AND WELL DEVELOPMENT				
Bill 3	TEST PUMPING AND RECOVERY				
Bill 4	WATER QUALITY				
Bill 5	PUMP INSTALLATION				
Bill 6	CONSTRUCTION OF BOREHOLE APRON, DRAINAGE CHANNEL AND SOAKPIT				
	TOTAL FOR 01 BOREHOLE				
	GRAND TOTAL FOR 7 BOREHOLES				


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