

## Annex 4: BILL OF QUANTITIES FOR DRILLING OF 1 BOREHOLES

ITEM	DESCRIPTION/SPECIFICATION	UNIT	Qty	RATE (USD)	AMOUNT (USD)
<b>1</b>	<b>PRELIMINARIES AND GENERAL</b>				
1.1	Mobilization and demobilization of contractor's crew and equipment	sum	1		
1.2	Allow for Site Clearance	sum	1		
1.2	Preparation and submission of borehole completion reports	sum	1		
<b>Bill 1</b>	<b>SUB TOTAL 1</b>				
<b>2</b>	<b>DRILLING AND WELL DEVELOPMENT</b>				
2.1	Shifting between sites(average Km)	Km	15		
2.2	Clearing, setting up and dismantling of equipment 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 0-250 m meter deep and installation & removal of 12" temporary casing.	m	250		
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 9.5 "ND screens of 3m length with ends threaded, male and female with thickness of 5mm.	m	50		
2.8	Supply and installation of UPVC (5mm thickness) 9.5 "ND Plain casing 3m length with both ends threaded, male or female	m	200		
2.9	Supply and installation of 50kg bags gravel pack f 2mm-6mm	bags	80		
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	Lump sum	1		
2.13	Well development until water clears	Hours	6		
<b>Bill 2</b>	<b>SUB TOTAL 2</b>				
<b>3</b>	<b>TEST PUMPING AND RECOVERY</b>				
3.1	Movement between sites	Km	15		
3.2	Pump installation at a depth recommended by the supervisor and removal	lumpsum	1		
3.3	Pumping and measuring draw down	hours	4		
3.4	Recovery monitoring	hours	8		
<b>Bill 3</b>	<b>SUB TOTAL 3</b>				
ITEM	DESCRIPTION/SPECIFICATION	UNIT	Qty	RATE (USD)	AMOUNT (USD)

<b>4</b>	<b>WATER QUALITY</b>				
4.1	Sample collection in sterilized one liter bottles	nr	3		
4.2	Water Quality Analysis and report by National Licensed laboratory Bacteriological, Chemical and Physical parameters	nr	1		
4.3	Borehole disinfection as detail in specification	nr	1		
4.4	Visibility	lump sum	1		
<b>Bill 4</b>	<b>SUB TOTAL 4</b>				
<b>SUMMARY TO BoQ</b>					
					<b>AMOUNT USD</b>
Bill 1	PRELIMINARIES AND GENERAL				
Bill 2	DRILLING AND WELL DEVELOPMENT				
Bill 3	TEST PUMPING AND RECOVERY				
Bill 4	WATER QUALITY				
	<b>TOTAL FOR 01 BOREHOLE</b>				
	<i>Include Tax Obligation</i>				
	<i>Sub- Total for 1 Borehole</i>				
	<b>GRAND TOTAL FOR 12 BOREHOLES</b>				