BILL OF QUANTITIES FOR DRILLING BOREHOLES AT SESE.MSEFUNI, HESHIMA, MUGUMOINI, MINI VALLEY,ZEBRA,BOPWE AND LUMSHI PRIMARY SCHOOL IN HONGWE WARD LAMU WEST SUB- COUNTY WITH A MAXIMUM DEPTH OF 30M.

ITEM	DESCRIPTION	UNIT	QTY	RATES KSHS	AMOUNT IN KSHS
1	Carry Hydro geological survey	Lump sum	1		
2	Mobilization and transportation of machinery, erection of camps and sanitary facilities and demobilization	Lump sum	1		
3	Drilling of borehole of minimum diameter of 205mm through all types of strata including disposal of excavated materials, taking any remedial measures to overcome caving in or over drilling to accommodate sloughed materials and keeping drilling record as specified between ground level and 30m below ground level.	M	30		
4	Supply and install 150mm internal diameter plain PVS (C/D) casings in the borehole to reach 1.5m above ground level.	M	20		
5	Supply and install 150mm internal diameter plain slotted PVC (C/D) casing.	M	10		
6	Allow for taking sample of drill cuttings at two (2M) intervals.	Lump sum	1		
7	Supply and invert gravel pack (river bed rounded) grout between the casing and the borehole for top five (5metres) of 50mm thickness (2mm-4mm)	Ton	2		
	TOTAL				

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
8.	Balance brought forward				
	Physical and chemical development of the				
	borehole including inserting and removal				
	of development equipment				
	(a)Physical development	HRS	12		
	(b)Chemical development	HRS	4		
9.	Undertake constant discharge test as				
9.	_				
	specified (24hours for actual test pumping				
	and show for insertion and removal of test				
	pumping equipment)				
		HRS	24		
10.	Undertake constant discharge test as				
	specified (24hours) for actual test pumping				
	and show for insertion and removal of test				
	pumping equipment)				
		Lump	4		
		sum			
11.	Carryout boreholes sterilization.				
		Lump	1		
		sum			
12.	Install wellhead, well cap serial number				
	and cement slab of dimension $1.0 \times 1.0 \times$				

	1.0 meter around the well head.				
		_			
		Lump	1		
		sum			
13.	Supply of water and drilling fluids for				
	drilling operations and field camp.				
		_			
		Lump	1		
		sum			
14.	Take water sample for laboratory analysis				
	(1 no. Sample for bacteriological and 1 no.				
	for chemical each 1.5litres.				
		Lump	1		
		sum			
15.	Supply and install an approved gantry.				
		NO	1		
16.	Install Afridev pump.				
		Lump	1		
		sum			
17.	Allow for client supervision (7% of the				
	total).	Lump	1		
		sum			
	TOTAL				
	Total for 8NO. Boreholes =Kshs				