

	COUNTY	NAKURU		
	SUB- COUNTY	NAIVASHA		
	WARD	NAIVASHA EAST		
	PROJECT	NAIVASHA EAST WARD WATER		
	SUBJECT	SISIONI BOREHOLE DRILLING		
	DEPTH-260M			
	BILL NO 1: BOREHOLE DRILLING			
ITEM	DESCRIPTION	UNIT	QTY	RATE
1.0	GENERAL ITEMS			
1.0.1	Establishment of sign board as directed.	Nr	1	
1.0.2	Testing and commissioning of the works including labelling, plaque etc as directed	Nr	1	
1.0.3	PC sum for b/hole inspection by use of Geovision camera	item	1	60,000
	Sub-Total			
1.10	BOREHOLE DRILLING			
1.1.1	Mobilization, transportation of machinery, erection of camps and sanitary facilities and demobilization	No.	1	
1.1.2	Erecting and dismantling of drilling equipment and other machinery at the site	No.	1	
1.1.3	Drilling of borehole of minimum diameter 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 material and keeping drilling records as specified between ground level and 200 metres below ground level.	m	260	
1.1.4	Supply and install 152mm internal diameter plain steel casings in the borehole	m	200	
1.1.5	Ditto 1.4 but 152mm internal diameter slotted steel casings	m	60	
1.1.6	Allow for taking samples of drilling cuttings at three(2)metres interval	No	130	320

1.1.7	Supply and insert gravel pack (rounded 2-4mm diameter).	Tons	5	
1.1.8	Grout between the casing and the borehole for top ten (10) metres.	No.	1	
1.1.9	Physical and chemical development of the borehole including inserting and removal of development equipment;			
1.1.10	a) Physical development	No.	1	
1.1.11	b) Chemical development	No.	1	
1.1.12	Undertake constant discharge test as specified (24hours for actual test pumping and 8 hours for insertion and removal of test pumping equipment).	No.	1	
1.1.13	Undertake water level observation and record recovery		1	
1.1.14	Carry out borehole sterilization	No.	1	
1.1.15	Install wellhead, well cap serial number and cement slab of dimensions 1.0 x 1.0 x 1.0 metres around the wellhead.	No.	1	
1.1.16	Supply of water and drilling fluids for drilling operation and field camp	No.	1	
1.1.17	Take water samples for laboratory analysis (1No sample for bacteriological and 1 No for chemical each 15litres).	No.	1	
1.1.18	Allow for making good and surface reinstatement at the borehole location to the Project Manager's satisfaction	No.	1	5,000
	TOTAL FOR DRILLING			
	SUMMARY			
	Preliminaries and general items			
	Borehole drilling			
	Total			
	Add 7% supervision			
	Total			
	Add 16% V.A.T			
	GRAND TOTAL			

ER WORKS
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AMOUNT

60,000.00

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41,600.00
