

	COUNTY	NAKURU			
	SUB- COUNTY	NAIVASHA			
	WARD	HELLS GATE			
	PROJECT	MOUNTAIN VIEW WATER PROJECT			
	SUBJECT	BOREHOLE DRILLING			
	DEPTH-280M				
	BILL NO 1: GENERAL ITEMS				
ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
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		
	Sub-Total				
2.0					
2.0.1	Mobilization, transportation of machinery, erection of camps and sanitary facilities and demobilization	No.	1		
2.0.2	Erecting and dismantling of drilling equipment and other machinery at the site	No.	1		
2.0.3	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	m	280		
2.0.4	Supply and install 152mm internal diameter plain steel casings in the borehole	m	190		
2.0.5	Ditto 1.4 but 152mm internal diameter slotted steel casings	m	90		
2.0.6	Allow for taking samples of drilling cuttings at three(2)metres interval	No	140		
2.0.7	Supply and insert gravel pack (rounded 2-4mm diameter).	Tons	5		

2.0.8	Grout between the casing and the borehole for top ten (10) metres.	No.	1		
2.0.9	Physical and chemical development of the borehole including inserting and removal of development equipment;				
2.0.10	a) Physical development	No.	1		
2.0.11	b) Chemical development	No.	1		
2.0.12	Undertake constant discharge test as specified (24hours for actual test pumping and 8 hours for insertion and removal of test pumping equipment).	No.	1		
2.0.13	Undertake water level observation and record recovery		1		
2.0.14	Carry out borehole sterilization	No.	1		
2.0.15	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		
2.0.16	Supply of water and drilling fluids for drilling operation and field camp	No.	1		
2.0.17	Take water samples for laboratory analysis (1No sample for bacteriological and 1 No for chemical each 15litres).	No.	1		
2.0.18	Allow for making good and surface reinstatement at the borehole location to the Project Manager's satisfaction	No.	1		
	TOTAL FOR DRILLING				
	SUMMARY				
	Bill No 1: General items				
	Bill No 2: Borehole drilling				
	Total				
	Add 7% supervision				
	Total				
	Add 16% V.A.T				
	GRAND TOTAL				