

**To: Camilla Buchanan,**  
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**DRILLING OF ONE BOREHOLE AT MEGWARRA SECONDARY SCHOOL,**  
**MAASAI MARA**  
**BILL OF QUANTITIES - BUDGET**

<b>Item</b>	<b>Description</b>	<b>Qty</b>	<b>Unit</b>	<b>Rate</b>	<b>Total K.Shs.</b>
<b>1</b>	Carry out Hydrogeological Survey and produce required reports	1	Sum	80,500.00	80,500.00
<b>2</b>	Carry out NEMA EIA Study, submit reports to NEMA and obtain required licence	1	Sum	92,000.00	92,000.00
<b>3</b>	Submit application for a permit to drill to the Ministry, follow up and acquire same	1	Sum	25,000.00	25,000.00
<b>4</b>	Mobilisation and demobilisation of drilling rig, supporting equipment and personnel to and from site	1	Sum	175,000.00	175,000.00
<b>5</b>	Set up rig at borehole location	1	Sum	45,000.00	45,000.00
<b>6</b>	Supply of water for drilling and field camp	1	Sum	75,000.00	75,000.00
<b>7</b>	Drilling 8" or 6" diameter 0-100 metres including sample collection at 2 metre intervals and/or bentonite seal to prevent any surface water contamination, if required	100	m	3,800.00	380,000.00
<b>8</b>	As Item 7 but 100-200 metres	50	m	4,100.00	205,000.00
<b>9</b>	Supply and install 6" plain mild steel casing - Class B material or 140mm O/d PVC Casings	102	m	3,570.00	364,140.00
<b>10</b>	Supply and install 6" gas cut slotted steel screens - Class B material or 140mm O/d PVC Screens	48	m	3,750.00	180,000.00
<b>Total Carried Forward</b>					<b>1,621,640.00</b>

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## **DRILLING OF ONE BOREHOLE AT MEGWARRA SECONDARY SCHOOL, MAASAI MARA**

### **BILL OF QUANTITIES - Continued**

<b>Item</b>	<b>Description</b>	<b>Qty</b>	<b>Unit</b>	<b>Rate</b>	<b>Total K.Shs.</b>
	<b>Total Brought Forward</b>				<b>1,621,640.00</b>
<b>11</b>	Supply and install gravel filter pack	3	Ton	15,000.00	45,000.00
<b>12</b>	Development of completed well for approximately 4 hours, or until water is clean	4	Hr	18,000.00	72,000.00
<b>13</b>	Test pumping to MENR, Water Department requirements. Pump installation and removal will be charged as an extra over at the same hourly rate.	24	Hr	4,200.00	100,800.00
<b>14</b>	Construct concrete plinth and fit borehole cap	1	No	25,000.00	33,000.00
<b>15</b>	Standing time for reasons beyond our control		Hr	7,500.00	Rate only
<b>16</b>	Borehole completion record (WAB28) and Water Chemical Analysis	1	Sum	15,000.00	15,000.00
<b>17</b>	Supply & Installation of a suitable solar pump and accessories.	1	Sum	2,200,000.00	2,200,000.00
	<b>Sub-Total</b>				<b>4,087,440.00</b>
	<b>VAT 16%</b>				<b>653,990.40</b>
	<b>Total</b>				<b>4,741,430.40</b>

**See attached method related charges, terms and conditions**

**24-06-17**

**DRILLING OF ONE BOREHOLE AT MEGWARRA SECONDARY SCHOOL,  
MAASAI MARA**

**BILL OF QUANTITIES - Continued**

<b>Item</b>	<b>Description</b>	<b>Qty</b>	<b>Unit</b>	<b>Rate</b>	<b>Total K.Shs.</b>
	<b><u>Method Related Charges</u></b>				
	The various additional drilling techniques mentioned below, could be required in boreholes should we encounter unstable formations, and if used, these would be charged as extra over cost.				
<b>A</b>	Cementing operations where required in collapsing non-aqueous formations, will be charged at the cost of cement etc. + 15%				Rate Only
<b>B</b>	Extra over Item A standing time for curing of grout calculated on an 8 hour working day		Hr	7,500.00	Rate only
<b>C</b>	Cost of reaming out and installation of temporary steel casings in unstable or collapsing ground conditions		m	5,500.00	Rate only
	<b><u>Terms and Conditions</u></b>				
<b>1</b>	We do not guarantee in anyway quality or quantity of water on completion of the works				
<b>2</b>	Should any devaluation of the Kenya Shilling occur of more than 5% from todays date, or increases in prices of fuel and other consumables, we reserve the right to re-negotiate our rates, as per FIDIC (1987, reprinted 1992)				
<b>3</b>	An advance payment equal to 60% of total contract is payable prior to mobilisation Balance payable within 14 days of issue of monthly invoices for work completed Late payments are subject to 10% interest per month or part thereof				
<b>4</b>	The Bill of Quantities is estimated only. Exact measurements will be shown on the final invoice for completed works.				
<b>5</b>	All rights of admission, acceptable motorable access, crop compensation etc is to be arranged at no cost to ourselves				
<b>6</b>	Validity of Quotation: 90 days				