

**KIMUNGOR WATER PROJECT - Kapsowar ward**

**BILL No. 1 PRELIMINARY ITEMS**

<b>ITEM</b>	<b>ITEM DESCRIPTION</b>	<b>UNIT</b>	<b>QTY</b>	<b>RATE (Ksh)</b>	<b>AMOUNT (Ksh)</b>
<b>1.1</b>	<b>Contractual Requirements</b>				
1.1	Erection and maintenance of Project signboard	No.	1	15,000.00	15,000.00
1.2	The contractor shall allow a prime sum to be expended by the engineer for supervision, stationery and airtime.	Item		LS	30,000.00
	<b>Total bill No 1. Carried to summary</b>				<b>45,000.00</b>

**BILL No.2: INTAKE WORKS - Kimungor**

NO	ITEM DESCRIPTION	UNIT	QTY	RATE (Ksh)	AMOUNT (Ksh)
<b>2.1</b>	<b>EXCAVATIONS</b>				
	<i>To include for all trimming to levels, back fillings with approved selected spoils, compacting, disposal of surplus materials and reinstatement.</i>				
2.1.1	Clear site from all undergrowth shrubs and trees and all deleterious materials from the site to create space for the reservoir.	m <sup>2</sup>	80		
2.1.2	Excavate in a normal soil to take weir, wing walls, abutments, riprap, key, aprons and cut off walls n.e. 1.2m deep	m <sup>3</sup>	11.2		
2.1.3	Excavate in stream bed in normal soil to form water storage reservoir to depth n.e. 0.5m	m <sup>3</sup>	40		
<b>2.2</b>	<b>CONCRETE WORKS</b>				
	<i>Provide and place the following concrete mixes including all form-work.</i>				
2.2.1	Compacted hard core for weir base as specified in the drawing	m <sup>3</sup>	0.8		
2.2.2	Concrete grade 14/20 (1:3:6) for weir base and cut off wall as specified in the drawing	m <sup>3</sup>	1.2		

2.2.3	Concrete grade 20/20 (1:2:4) for weir body, wing walls and intake chamber as specified in the drawing	m <sup>3</sup>	6.9		
2.2.4	Stone Riprap of 0.2m thick for the weir d/s apron as specified in the drawing	m <sup>2</sup>	6		
<b>2.3</b>	<b>REINFORCEMENTS</b>				
	<i>Provide, support and fix the following reinforcement, including all cutting, bending and supports for weir body, floors, walls, slabs, beams etc as shown in the drawings</i>				
2.3.1	High tensile steel, Y10	Kg	134.6		
2.3.2	Binding wire	Kg	3		
<b>2.4</b>	<b>PIPEWORK</b>				
	<i>Provide, lay, joint and test the following pipes and fittings. Rates to include for all jointing materials, cutting wastage and anchorage</i>				
2.4.1	80mm dia. GI 1m long spigot threaded at one end for the scour pipe	No	1		
2.4.2	80mm dia. end plug	No	1		
	<b>Total bill No 2. Carried to summary</b>				

**BILL No.3: PIPELINE AND FITTINGS - Kimungor**

NO	ITEM DESCRIPTION	UNIT	QTY	RATE (Ksh)	AMOUNT (Ksh)
<b>3.1</b>	<b>EXCAVATIONS</b>				
	<i>To include for all trimming to levels, back fillings with approved selected spoils, compacting, disposal of surplus materials and reinstatement.</i>				
3.1.1	Excavate pipeline trench in normal soil to a depth n.e. 0.5m deep to take 50mm and 25mm dia. pipes	m <sup>3</sup>	210		
<b>3.2</b>	<b>PIPEWORK</b>				
	<i>Provide, lay, joint and test the following pipes and fittings. Rates to include for all jointing materials, cutting wastage and anchorage</i>				
3.2.1	50mm dia. GI pipes class B	m	24		
3.2.2	25mm dia. GI pipes class B	m	60		
3.2.3	25mm uPVC pipes class C	m	1200		
3.2.4	25mm uPVC pipes class D	m	900		
<b>3.4</b>	<b>FITTINGS</b>				
3.3.1	50mm dia. sluice valve	No	1		
3.3.2	50m x 32mm GI reducer	No	1		
3.3.3	32mm uPVC adapter	No	1		
3.3.4	32mm T- joint	No	6		
3.3.5	32mm elbow joint	No	2		
3.3.6	325mm gate valve (pegler)	No	1		
3.3.7	50mm GI sockets	No	3		
3.3.8	25mm GI sockets	No	15		
3.3.9	25mm unions	No	1		
3.3.10	Ball valve	No	1		

<b>3.5</b>	<b>CONCRETE WORKS</b>				
	<i>Provide and place the following concrete mixes including all form-work.</i>				
3.5.1	Construct sluice chamber 500mm x 500mm x 300m	No	1		
	<b>Total bill No 3. Carried to summary</b>				

**BILL No.4: Watering trough (1 No) - Kimungor**

NO	ITEM DESCRIPTION	UNIT	QTY	RATE (Ksh)	AMOUNT (Ksh)
<b>4.1</b>	<b>EXCAVATION/EARTHWORKS/CUTTING</b>				
	<i>To include for all trimming to levels, backfilling with approved selected spoil, compacting, disposal of surplus material and reinstatement.</i>				
4.1.1	In normal soil to depth n.e. 0.5m to take the base of the cattle trough as specified in drawing and directed by the engineer.	m <sup>3</sup>	1.6		
<b>4.2</b>	<b>CONCRETE WORKS</b>				
	<i>Provide and place the following concrete mixes including all form-work.</i>				
4.2.1	Compacted hard core for trough base as specified in the drawing	m <sup>3</sup>	1.1		
4.2.2	Concrete grade 15/20 (1:3:6) 0.025m thick for base blinding as specified.	m <sup>3</sup>	0.12		
4.2.3	Concrete grade 20/20 for floor slab and cover as specified in the drawing	m <sup>3</sup>	0.66		
4.2.4	Construct stone walls 0.25m thick with suitable dressed natural stones laid in 1:2 cement with water proof cement.	m <sup>2</sup>	7.5		

4.2.5	Plaster of 18 mm thick inside and outside walls as per technical specification	m <sup>2</sup>	14		
4.2.6	Grouted Stone Riprap of 0.25m thick for the sides of the cattle trough as specified in the drawing and by the engineer	m <sup>2</sup>	5.7		
<b>TOTAL BILL 4 CARRIED OVER TO SUMMARY</b>					

**BILL No 5: PERIMETER FENCING - Kimungor**

<b>ITEM</b>	<b>ITEM DESCRIPTION</b>	<b>UNIT</b>	<b>QTY</b>	<b>RATE (KSh)</b>	<b>AMOUNT (KSh)</b>
5.1	Excavate holes of diameter n.e. 0.2m and depth n.e. 0.6m on normal soil to take wooden fencing posts at a spacing of 2m between the holes as specified	No	60		
5.2	Procure, provide and fix wooden posts for fencing. The wooden posts should be at least 7ft. High and should be hard wood.	No	60		
5.3	Provide and fix high tensile barbed wire on the wooden posts using U-nails	Rolls	1		
5.4	Procure and fix medium gauge chain link 5ft high. The bottom of the chain link should be secured at least 2inches into the ground	Rolls	6		
5.5	Fabricate and fix steel gate 0.8m wide and 5m high using 20mmx20mm hollow steel bars	No	1		
<b>TOTAL BILL 5 CARRIED OVER TO SUMMARY</b>					

### SUMMARY SHEET - Kimungor

Bill No.	Description	Amount (KSh)
1	Preliminaries and General	45,000.00
2	Intake works	
3	Pipeline	
4	Water trough	
5	Fencing	
	<b>Total inclusive of VAT</b>	