

KIMUNGOR WATER PROJECT - Kapsowar ward

BILL No. 1 PRELIMINARY ITEMS

| ITEM | ITEM DESCRIPTION | UNIT | QTY | RATE (Ksh) | AMOUNT (Ksh) |
|-------------|--|-------------|------------|-------------------|---------------------|
| 1.1 | Contractual Requirements | | | | |
| 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 |
| | Total bill No 1. Carried to summary | | | | 45,000.00 |

BILL No.2: INTAKE WORKS - Kimungor

| NO | ITEM DESCRIPTION | UNIT | QTY | RATE (Ksh) | AMOUNT (Ksh) |
|------------|---|----------------|------|------------|--------------|
| 2.1 | EXCAVATIONS | | | | |
| | <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 ² | 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 ³ | 11.2 | | |
| 2.1.3 | Excavate in stream bed in normal soil to form water storage reservoir to depth n.e. 0.5m | m ³ | 40 | | |
| 2.2 | CONCRETE WORKS | | | | |
| | <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 ³ | 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 ³ | 1.2 | | |

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|------------|--|----------------|-------|--|--|
| 2.2.3 | Concrete grade 20/20 (1:2:4) for weir body, wing walls and intake chamber as specified in the drawing | m ³ | 6.9 | | |
| 2.2.4 | Stone Riprap of 0.2m thick for the weir d/s apron as specified in the drawing | m ² | 6 | | |
| 2.3 | REINFORCEMENTS | | | | |
| | <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 | | |
| 2.4 | PIPEWORK | | | | |
| | <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 | | |
| | Total bill No 2. Carried to summary | | | | |

BILL No.3: PIPELINE AND FITTINGS - Kimungor

| NO | ITEM DESCRIPTION | UNIT | QTY | RATE (Ksh) | AMOUNT (Ksh) |
|------------|---|----------------|------|------------|--------------|
| 3.1 | EXCAVATIONS | | | | |
| | <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 ³ | 210 | | |
| 3.2 | PIPEWORK | | | | |
| | <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 | | |
| 3.4 | FITTINGS | | | | |
| 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 | | |

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|------------|--|----|---|--|--|
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| 3.5 | CONCRETE WORKS | | | | |
| | <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 | | |
| | | | | | |
| | Total bill No 3. Carried to summary | | | | |

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

| NO | ITEM DESCRIPTION | UNIT | QTY | RATE (Ksh) | AMOUNT (Ksh) |
|------------|---|----------------|------|------------|--------------|
| 4.1 | EXCAVATION/EARTHWORKS/CUTTING | | | | |
| | <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 ³ | 1.6 | | |
| 4.2 | CONCRETE WORKS | | | | |
| | <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 ³ | 1.1 | | |
| 4.2.2 | Concrete grade 15/20 (1:3:6) 0.025m thick for base blinding as specified. | m ³ | 0.12 | | |
| 4.2.3 | Concrete grade 20/20 for floor slab and cover as specified in the drawing | m ³ | 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 ² | 7.5 | | |

| | | | | | |
|---|--|----------------|-----|--|--|
| 4.2.5 | Plaster of 18 mm thick inside and outside walls as per technical specification | m ² | 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 ² | 5.7 | | |
| | | | | | |
| TOTAL BILL 4 CARRIED OVER TO SUMMARY | | | | | |

BILL No 5: PERIMETER FENCING - Kimungor

| ITEM | ITEM DESCRIPTION | UNIT | QTY | RATE (KSh) | AMOUNT (KSh) |
|---|--|-------------|------------|-------------------|---------------------|
| 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 | | |
| TOTAL BILL 5 CARRIED OVER TO SUMMARY | | | | | |

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 | |
| | | |
| | Total inclusive of VAT | |