

CONSTRUCTION OF EMBOLOMOIYWO-MOKOIYWO AND EMBOBEN SPRING PROTECTION

BILL NO 1. PROJECT – EMBOLOMOIYWO SPRING PROTECTION COMMUNITY SUPPLY WATER PROJECT. FY 17-18

Embolomoiywo spring protection community water project is located in Moiben Kuserwo Ward of Marakwet West Sub County. The proposed point of delivery can be accessed through Kapsowar-Cheptongei-Chebilbai- Road at Embolomoywo area.

The Contractor is advised to visit the site and familiarize himself with site conditions prior to bidding.

MOIBEN KUSERWO WARD

| Item No. | Item Description | Unit | Quantity | Rate | Amount |
|-----------------|--|----------------|-----------------|-------------|---------------|
| | SPRING REHABILITATION | | | | |
| 1. | Demolish existing structure and cart it 50m away | L/s | L/S | l/s | |
| 2. | Supply, place and compact hardcore 200mm thick | M ² | 20 | | |
| 3. | Supply and lay and compact concrete mix ration1:2:4 | M ³ | 10 | | |
| 4. | Supply materials and construct 300mm block wall 1.5m high | M ² | 20 | | |
| 5. | Supply plaster mix ratio 1:3 and plaster all faces of wall | M ² | 41 | | |
| | Sub Total | | | | |

CATTLE TROUGH

| Item No. | Item Description | Unit | Quantity | Rate | Amount |
|-----------------|--|----------------|-----------------|-------------|---------------|
| 1. | Excavate for cattle trough | M ³ | 20 | | |
| 2. | Supply, place and compact hardcore 200mm thick | M ² | 20 | | |
| 3. | Supply and lay and compact concrete mix ration1:2:4 | M ³ | 9 | | |
| 4. | Supply materials and construct 150mm block wall o.6m high | M ² | 7.5 | | |
| 5. | Supply plaster mix ratio 1:3 and plaster all faces of wall | M ² | 40 | | |

| | | | | | |
|-----------|--|----|---|--|--|
| 6. | Supply and fix the following pipes and fittings | | | | |
| 6.1 | ½" GI pipes class B | No | 6 | | |
| 6.2 | ½"G.I elbows | No | 2 | | |
| 6.3 | ½"G.I pipe piece class B 0.5m long threaded both sides | No | 1 | | |
| 6.4 | ½"G.I pipe piece class B 0.3m long threaded both sides | No | 1 | | |
| 6.5 | ½"G.I pipe piece class B 0.2m long threaded both sides | No | 1 | | |
| 6.6 | ½"pegler gate valve | No | 1 | | |
| 6.7 | ½"G.I plain socket | No | 1 | | |
| 6.8 | ½" ball valve | No | 1 | | |
| 6.9 | 600 x 600mm man hole cover with a lockable cover. | No | 1 | | |
| | Sub total to be carried to SUMMARY SHEET for Bill No. 1 | | | | |

BILL NO. 2 PROJECT – EMBOMOKOIWO COMMUNITY WATER SUPPLY PROJECT. 17-18**FY****PROPOSED CONSTRUCTION OF SPRING PROTECTION**

Embomokoiwo community water supply project Consist of 1No.Springs located in Moiben Kuserwo Ward of Marakwet West Sub County. The proposed Spring Site can be accessed through Kapsowar- Chebilbai- Road at Embomokoiywo area.

MOIBEN KUSERWO WARD

| Item No. | Item description | Unit | Qty | Rate | Amount |
|-----------------|--|----------------|------------|-------------|---------------|
| A. | EMBOMOKOIWO SPRING | | | | |
| 1.00 | Spring Protection. | | | | |
| 1.1 | Clear the bush around the spring as specified | LS | 1 | | |
| 1.2 | Remove all hard core fill from the Lower spring and place them as specified. | M ³ | 4 | | |
| 1.3 | Clean the spring of any dirt and silt, opening up spring eyes as specified | LS | 1 | | |
| 1.4 | Provide place and compact hardcore for spring main sump and water way as specified | M ³ | 2.4 | | |
| 1.5 | Provide concrete blinding 50mm layer 1:4:8 on the surface of the hardcore | m ² | 10 | | |
| 1.6 | Provide formwork to spring walls. | m ² | 20 | | |
| 1.7 | Provide,handle,cut, bend and fix Y10mm reinforcement bars | m | 180 | | |
| 1.8 | Provide and lay concrete of mix ratio 1:2:4 for spring floor slab and walling. | M ³ | 4 | | |
| 1.9 | Allow for binding wire. | kg | 10 | | |
| 1.10 | Provide and hand pack clean hardcore to the spring sump | M ³ | 8 | | |
| 1.11 | Provide materials and Construct communal drawing slab and masonry shoulder as specified. | LS | 1 | | |
| 1.12 | Excavate, Provide materials and Construct spiral way and diversion of spring flow during construction as specified | LS | 1 | | |
| 1.13 | Excavate, Provide materials and Construct | LS | 1 | | |

| | | | | | |
|------|---|----------------|----|--|--|
| | drainage way as specified | | | | |
| 1.14 | Import clay soil, Compact,handpack and re arrange the stones | m3 | 2 | | |
| | | | | | |
| 1.15 | Trench cut off storm drains as specified | m | 20 | | |
| 1.16 | Provide and install a 25mm Ø GI off take pipe with threads for further extension connection. | m | 6 | | |
| 1.17 | Provide and install a 20mm Ø 1m long GI off take pipe with a 20mm Ø elbow on one end for communal draw off.. | No | 2 | | |
| | | | | | |
| 1.18 | Select good clay and clay pack the spring as specified | LS | 1 | | |
| | | | | | |
| 1.19 | provide materials and Cover the hardcore fill with polythene paper gauge 500 as specified | m ² | 36 | | |
| | | | | | |
| 1.20 | Cover the spring body with earth as specified | LS | 1 | | |
| | | | | | |
| 1.21 | Plant grass into the earth fill above as specified | LS | 1 | | |
| | Sub total | | | | |
| | FENCING OF SPRING | | | | |
| 1.22 | Supply all materials and erect 2400mm cedar posts at 2m centers in 600mm deep holes anchored with 1:3:6 concrete mix with 10 No. cedar posts for supports at collected points. | No | 50 | | |
| | | | | | |
| 1.23 | Supply and fix 6 strands of barbed wire gauge 16 at 300mm centers | Roll | 1 | | |
| 1.24 | Double leave steel gate comprising of 100mm dia.GI end posts 2.5M long. Gate dimensions to be 1.0m x 2.0m high with 0.80M wide pedestal gate. The gate to be of 50 x 25mm R.H.S. framing with 50mm x 25mm R.H.S grilles spaced at 200mm centers welded to frame | No | 1 | | |
| | Gloss paint to gate | Ltrs | 4 | | |
| | Total to be carried to SUMMARY SHEET FOR Bill No. 2 | | | | |

BILL NO. 3 PROJECT – EMBOBEN COMMUNITY WATER SUPPLY PROJECT. FY 17'-18

PROPOSED CONSTRUCTION OF SPRING PROTECTION

Emboben community water supply project Consist of 1No.Springs located in Moiben Kuserwo Ward of Marakwet West Sub County. The proposed Spring Site can be accessed through Kapsowar- Chebilbai- Road at Emboben area.

MOIBEN KUSERWO WARD

| Item No. | Item description | Unit | Qty | Rate | Amount |
|-------------|--|----------------|-----|------|--------|
| A. | EMBOBEN SPRING | | | | |
| 1.00 | Spring Protection. | | | | |
| | | | | | |
| 1.1 | Clear the bush around the spring as specified | LS | 1 | | |
| 1.2 | Remove all hard core fill from the Lower spring and place them as specified. | M ³ | 4 | | |
| 1.3 | Clean the spring of any dirt and silt, opening up spring eyes as specified | LS | 1 | | |
| | | | | | |
| 1.4 | Provide place and compact hardcore for spring main sump and water way as specified | M ³ | 2.4 | | |
| | | | | | |
| 1.5 | Provide concrete blinding 50mm layer 1:4:8 on the surface of the hardcore | m ² | 10 | | |
| | | | | | |
| 1.6 | Provide formwork to spring walls. | m ² | 20 | | |
| | | | | | |
| 1.7 | Provide,handle,cut, bend and fix Y10mm reinforcement bars | m | 180 | | |
| | | | | | |
| 1.8 | Provide and lay concrete of mix ratio 1:2:4 for spring floor slab and walling. | M ³ | 4 | | |
| | | | | | |
| 1.9 | Allow for binding wire. | kg | 10 | | |
| | | | | | |
| 1.10 | Provide and hand pack clean hardcore to the spring sump | M ³ | 8 | | |
| | | | | | |
| 1.11 | Provide materials and Construct communal drawing slab and masonry shoulder as specified. | LS | 1 | | |
| | | | | | |
| 1.12 | Excavate, Provide materials and Construct spiral way and diversion of spring flow during construction as specified | LS | 1 | | |
| | | | | | |
| 1.13 | Excavate, Provide materials and Construct drainage way as specified | LS | 1 | | |
| 1.14 | Import clay soil, Compact,handpack and re | m3 | 2 | | |

| | | | | | |
|------|---|----------------|----|--|--|
| | arrange the stones | | | | |
| 1.15 | Trench cut off storm drains as specified | m | 20 | | |
| 1.16 | Provide and install a 25mm Ø GI off take pipe with threads for further extension connection. | m | 6 | | |
| 1.17 | Provide and install a 20mm Ø 1m long GI off take pipe with a 20mm Ø elbow on one end for communal draw off.. | No | 2 | | |
| 1.18 | Select good clay and clay pack the spring as specified | LS | 1 | | |
| 1.19 | provide materials and Cover the hardcore fill with polythene paper gauge 500 as specified | m ² | 36 | | |
| 1.20 | Cover the spring body with earth as specified | LS | 1 | | |
| 1.21 | Plant grass into the earth fill above as specified | LS | 1 | | |
| | Sub total | | | | |
| | FENCING OF SPRING | | | | |
| 1.22 | Supply all materials and erect 2400mm cedar posts at 2m centers in 600mm deep holes anchored with 1:3:6 concrete mix with 10 No. cedar posts for supports at collected points. | No | 50 | | |
| 1.23 | Supply and fix 6 strands of barbed wire gauge 16 at 300mm centers | Roll | 1 | | |
| 1.24 | Double leave steel gate comprising of 100mm dia.GI end posts 2.5M long. Gate dimensions to be 1.0m x 2.0m high with 0.80M wide pedestal gate. The gate to be of 50 x 25mm R.H.S. framing with 50mm x 25mm R.H.S grilles spaced at 200mm centers welded to frame | No | 1 | | |
| | Gloss paint to gate | Ltrs | 4 | | |
| | Sub Total to be carried to SUMMARY SHEET FOR BILL NO. 3 | | | | |

SUMMARY SHEET

| BILL NO | ITEM DESCRIPTION | AMOUNT |
|----------------|---|-----------------|
| 1. | Embolomoiwo Spring Protection Community Water project | |
| 2. | Embomokoiwo Spring Protection Community Water project | |
| 3. | Emboben Spring Protection Community Water Project project | |
| 4. | Add Engineers Supervision | 30,000/= |
| | Grand Total to be carried to Form Of Tender | |

AMOUNT IN WORDS (KSHS).....

CONTRACTOR'S NAME.....

ADDRESS.....

SIGN.....

STAMP.....