BILL OF QUANTITIES FOR EQUIPPING AND DISTRIBUTION OF KWA WALA BOREHOLE

KILOME SUB COUNTY, KIIMAKIU KALANZONI WARD FY 2025/2026

Preamble: The rates entered shall include, third party fees, levies, input costs, labour and contractor's overheads and profits.

| | eamble: The rates entered shall include, third party fees, levies | | | | 1 |
|------------|---|------|----------|-----------|------------|
| Item | Item Description | Unit | Quantity | Unit Rate | Amount |
| BILL 1 | Preliminary & General Items | | | | |
| 1.1 1.1 | Publicity Sign Board Fabricate erect and maintain public sign post 1200x1200x1.5mm metal sheet, 1500mm above ground level. It should be anchored 600mm deep motorised in mass concrete and well supported with 50x25mm RHS frame to detail as provided in the drawing and as instructed by the Allow Kshs. 210,000 for Technical Supervision | No | 1 | | 210,000.00 |
| 1.2 | Total carried from Bill 1 to Main summary | | | | 210,000.00 |
| | Total Callica Irolli Dili 1 to Maili Sullillary | | | | |
| BILL 2 | BH EQUIPPING SOLAR PUMPING SYSTEM | | | | |
| A | Supply, Deliver and Install on the steel tower, Solar Array System of total output 28125Watts, including highefficiency tier 1 monocrystalline modules As Jinko Solar 625W monofacial panels in 3string of 45panels with maximum string voltage VOC ≤850 VDC as approved using 6 mm sq dc cable and MC4 terminated on both sides to be mounted on the structure | W | 28,125 | | |
| | | | | | |
| В | Fabricated Steel Tower, use square tubes, 4" x 4" x 4mm, for solar Array System, minimum height 5 meters, well oriented towards north-south direction, tower inclination angle 10-15 degrees and a solar controller box 1000mm by 500mm by 300mm well ventilated to be included. To be installed as directed by the supervising Engineer | NO | 1 | | |
| С | Supply and install DC enclosure complete with inline 1100VDC fused isolator | NO | 1 | | |
| D | Supply install, test and commission 6mm PV Cable Single Core1000VDC Tinnd Copper; Insulation: XLPO; Insulation Color: Red and black in a 25mm HG PVC conduit | М | 180 | | |
| Е | Supply and lay Armored Cable, 10mm ² X 4 core copper cable in a 25mm HG PVC Conduit | М | 50 | | |
| F | Allow for system earthing, lightening arrestor and balance of system installation and equipotential bonding. | Lot | 1 | | |
| G | Allow for installation sundries as Hg flex conduit, cable ties, MC4 Connectors, cable lugs cable clips and all necessary assortment | Lot | 1 | | |
| 2.08 | Supply and Deliver a solar three-phase submersible electric pump with a flow rate of 8 cubic metre per hr at 370 meters Preferably DS 17-34; 18.5kW ~ or equivalent approved. The pump impellers and pump shaft should be of Stainless Steel. Provide Copies of Pump Characteristic /Performance Curves (Brochures) for approval. Install and test as directed and approved by the Supervising Engineer | No | 1 | | |
| 2.09 | Supply a three phase 18.5kw motor compatible to item above, Dayliff or equivalent approved by the Supervising Engineer | No | 1 | | |
| 2.10 | Supply a 4PD sacrificial anode compatible to item 2.03 above, Pedrollo or equivalent approved by the Supervising Engineer | No | 1 | | |

| Supply, Deliver & Install an AC/DC Solar inverter Incorporating: - Hybrid Capability with the option of DC solar power, generator or main grid power inputs, patiented MPPT fast response, good stability and up to 99% efficiency, rated power 22kw, Detachable Control Interface, Settable Min/Max Frequency & open Circuit Voltage, Display of operating Parameters, including frequency, voltage, amperage, input power & pump speed; Display of Historical Data, including Energy generation, maximum power & operating times; Protection against over/under voltage, over current, system overload and module over temperature; Fault | |
|---|--|
| system overload and module over temperature; Fault detection with error code display; Display of dry run sensors and automatic controls (SV3/22T) or equivalent as approved by the Supervising Engineer | |
| 2.12 Electrodes set 1 | |
| 2.13 PV disconnect switch 16Amps, single No 1 | |
| 2.14 Sensor Cable, Twin, Double Insulated, 0.75mm ² M 210 | |
| | |
| | |
| 2.16 Armored Copper Cable, 4mm ² X 4 core M 30 | |
| 2.17 Armored Copper Cable, 1.5mm ² X 2 core M 30 | |
| 2.18 UPVC Conduit, HG, 1"Ø No. 2 | |
| 2.19 Airline Pipes 3/4" Class D No. 35 | |
| 2.20 Borehole cover, slab and well end Sundries and fittings as shall be directed 1 | |
| 2.21 Borehole chamber with cover/ lid as per the provided drawing No. 1 | |
| 2.22 GI Borehole Pipes, 21/2"Ø X 6m, STD No. 21 | |
| 2.23 Adaptor set, 63mm No. 1 | |
| 2.24 Splicing Kit, medium No. 1 | |
| 2.25 Cold water smart meter 1 ¹ / ₄ " c/w fittings No. 1 | |
| 2.26 PPR pipes 1 ¹ / ₄ " m 4 | |
| 2.27 Non return Valve 21/2"Ø No. 1 | |
| | |
| 2.28 GI equal tee 21/2"Ø No. 1 | |
| 2.29 Gate valve pegler 21/2" c/w hex niples No. 1 | |
| 2.30 GI Union 21/2"Ø' No. 1 | |
| Total for Bill 2 carried to Summary | |
| BILL 3 PIPELINE | |
| BILL 5 FIFELINE | |
| 3 LINE TO KWA WALA PRIMARY SCHOOL | |
| CLASS D: DEMOLITION AND SITE CLEARANCE | |
| The rate quoted is for site clearance and demolition along construction wayleave. Rate shall be deemed to include removal of the material, natural and artificial articles, objects and obstructions which are above the original surface and carting away to tips, identified by the contractor in liaison with the Local Authority | |
| General clearence | |
| Site clear and excavate to pipe invert level 600 mm n.e 1m | |
| 3.01 below existing ground level and backfill/ reinstate to original ground level after testing pipeline, all to the approval of the engineer | |
| CLASS I: PIPEWORK - PIPES | |
| | |
| The rate quoted is for supply and transport to site storage, transport from site storage, excavate, lay and joint pipes complete with all jointing materials and but fusing. The rate is deemed to include excavation, bed lining, installation and backfilling of the pipe trenches. keep trenches and ther excavations free of water. | |
| transport from site storage, excavate, lay and joint pipes complete with all jointing materials and but fusing. The rate is deemed to include excavation, bed lining, installation and backfilling of the pipe trenches. keep | |
| transport from site storage, excavate, lay and joint pipes complete with all jointing materials and but fusing. The rate is deemed to include excavation, bed lining, installation and backfilling of the pipe trenches. keep trenches and ther excavations free of water. 3.02 PN10 OD63mm HDPE PE100 ISO4427 m 1,200 | |
| transport from site storage, excavate, lay and joint pipes complete with all jointing materials and but fusing. The rate is deemed to include excavation, bed lining, installation and backfilling of the pipe trenches. keep trenches and ther excavations free of water. 3.02 PN10 OD63mm HDPE PE100 ISO4427 m 1,200 | |

| | CLASS J: PIPEWORK - FITTINGS AND VALVES | | | | |
|---|---|----------------------|---|----------------|------------|
| | The rate quoted is for provision and fixing | | | | |
| | Junctions and branches | | | | |
| 3.04 | OD 75mm×50" tee with all the necessary accessories for | nr | 4 | | |
| | Airvalves | | | | |
| 3.05 | Supply and install DN50mm anti-shock/ anti-surge Air Valves as per the attached technical specifications with threaded or flanged base, c/w isolating valve, including tees and reducers for connecting Airvalve | nr | 2 | | |
| | Sluice Valves | | | | |
| 3.06 | Supply and install DN50 PN16 gate valves Pegler or equivalent approved for Air Valves and Washouts | nr | 2 | | |
| | CLASS K: PIPEWORK - MANHOLES AND PIPEWORK ANCILLARIES | | | | |
| | The rate quoted is for chambers, culverts, crossings and reinstatements and other ancilleries as specified. | | | | |
| | Air Valve/Washout/Sluice Valve Chambers | | | | |
| 3.07 | Construct 900mm by 900mm masonary valve chamber. Depth not exceeding 1m, all in accordance with details shown on drawings. Include for provision and fixing of cast iron step irons and heavy duty rectangular mild steel frame with locking devices as per details on drawing | nr | 4.00 | | |
| | Marker Posts | | | | |
| | Construct concrete marker posts and install along the water supply pipeline, all in accordance with details shown on drawings. (Reinforced concrete 1:2:4(class 20/20, bars D12), as per details on drawing | | | | |
| 3.08 | Pipeline marker post inscribed WL | nr | 2.00 | | |
| 3.09 | Air valve marker post Inscribed AV | | | | |
| L | All valve market post moetibed Av | nr | 2.00 | | |
| 3.1 | Washout marker post inscribed WO | nr | 2.00 | | |
| 3.1 | Washout marker post inscribed WO Amount for Bill 3 carried to Summary | nr | 2.00 | | |
| 3.1 BILL 4 | Washout marker post inscribed WO Amount for Bill 3 carried to Summary WATER POINT- WATER KIOSK WITH 1.5M F | nr | 2.00 | EM AND 10M3 PL | ASTIC TANK |
| 3.1 | Washout marker post inscribed WO Amount for Bill 3 carried to Summary WATER POINT- WATER KIOSK WITH 1.5M F FOUNDATION | nr | 2.00 | M AND 10M3 PL | ASTIC TANK |
| 3.1 BILL 4 | Washout marker post inscribed WO Amount for Bill 3 carried to Summary WATER POINT- WATER KIOSK WITH 1.5M F | nr | 2.00 | M AND 10M3 PL | ASTIC TANK |
| 3.1 BILL 4 4 | Washout marker post inscribed WO Amount for Bill 3 carried to Summary WATER POINT- WATER KIOSK WITH 1.5M F FOUNDATION Cut to spoil top soil n.e. 150mm below g.l. over Kiosks and | nr HGH T | 2.00 ANK PLATFOR | M AND 10M3 PL | ASTIC TANK |
| 3.1 BILL 4 4 4.01 | Washout marker post inscribed WO Amount for Bill 3 carried to Summary WATER POINT- WATER KIOSK WITH 1.5M F FOUNDATION Cut to spoil top soil n.e. 150mm below g.l. over Kiosks and fetching bay areas into a permanent heap Cut to spoil a strip foundation trench n.e. 600mm below g.l. 300mm thick hardcore filling well watered and compacted in layers of 150mm maximum thickness to make up levels | nr HIGH T. m2 | 2.00 ANK PLATFOR 7.0 | M AND 10M3 PL | ASTIC TANK |
| 3.1 BILL 4 4 4.01 4.02 | Washout marker post inscribed WO Amount for Bill 3 carried to Summary WATER POINT- WATER KIOSK WITH 1.5M F FOUNDATION Cut to spoil top soil n.e. 150mm below g.l. over Kiosks and fetching bay areas into a permanent heap Cut to spoil a strip foundation trench n.e. 600mm below g.l. 300mm thick hardcore filling well watered and compacted | m2 | 2.00 ANK PLATFOR 7.0 2.4 | M AND 10M3 PL | ASTIC TANK |
| 3.1 BILL 4 4 4.01 4.02 | Washout marker post inscribed WO Amount for Bill 3 carried to Summary WATER POINT- WATER KIOSK WITH 1.5M F FOUNDATION Cut to spoil top soil n.e. 150mm below g.l. over Kiosks and fetching bay areas into a permanent heap Cut to spoil a strip foundation trench n.e. 600mm below g.l. 300mm thick hardcore filling well watered and compacted in layers of 150mm maximum thickness to make up levels 50mm thick quarry dust/Murram blinding to surfaces of | m2 m3 | 2.00 ANK PLATFOR 7.0 2.4 3.7 | M AND 10M3 PL | ASTIC TANK |
| 3.1 BILL 4 4 4.01 4.02 4.03 4.04 | Washout marker post inscribed WO Amount for Bill 3 carried to Summary WATER POINT- WATER KIOSK WITH 1.5M F FOUNDATION Cut to spoil top soil n.e. 150mm below g.l. over Kiosks and fetching bay areas into a permanent heap Cut to spoil a strip foundation trench n.e. 600mm below g.l. 300mm thick hardcore filling well watered and compacted in layers of 150mm maximum thickness to make up levels 50mm thick quarry dust/Murram blinding to surfaces of hardcore Chemical anti-termite treatment (as gladiator or equally approved) executed complete by an approved specialist under ten (10) year guarantee to surfaces of blinded hardcore 1000gauge polythene or any other equally approved Damp proof membrane laid under surface bed with 300mm side | m2 m3 m2 m2 | 2.00 ANK PLATFOR 7.0 2.4 3.7 7.0 7.0 | M AND 10M3 PL | ASTIC TANK |
| 3.1 BILL 4 4 4.01 4.02 4.03 4.04 | Washout marker post inscribed WO Amount for Bill 3 carried to Summary WATER POINT- WATER KIOSK WITH 1.5M F FOUNDATION Cut to spoil top soil n.e. 150mm below g.l. over Kiosks and fetching bay areas into a permanent heap Cut to spoil a strip foundation trench n.e. 600mm below g.l. 300mm thick hardcore filling well watered and compacted in layers of 150mm maximum thickness to make up levels 50mm thick quarry dust/Murram blinding to surfaces of hardcore Chemical anti-termite treatment (as gladiator or equally approved) executed complete by an approved specialist under ten (10) year guarantee to surfaces of blinded hardcore 1000gauge polythene or any other equally approved Damp proof membrane laid under surface bed with 300mm side and end laps (measured nett - allow for laps) | m2 m3 m2 | 2.00 ANK PLATFOR 7.0 2.4 3.7 7.0 | M AND 10M3 PL | ASTIC TANK |
| 3.1 BILL 4 4 4.01 4.02 4.03 4.04 | Washout marker post inscribed WO Amount for Bill 3 carried to Summary WATER POINT- WATER KIOSK WITH 1.5M F FOUNDATION Cut to spoil top soil n.e. 150mm below g.l. over Kiosks and fetching bay areas into a permanent heap Cut to spoil a strip foundation trench n.e. 600mm below g.l. 300mm thick hardcore filling well watered and compacted in layers of 150mm maximum thickness to make up levels 50mm thick quarry dust/Murram blinding to surfaces of hardcore Chemical anti-termite treatment (as gladiator or equally approved) executed complete by an approved specialist under ten (10) year guarantee to surfaces of blinded hardcore 1000gauge polythene or any other equally approved Damp proof membrane laid under surface bed with 300mm side and end laps(measured nett - allow for laps) Natural stone walling, roughly chisel dressed on both sides and jointed in cement and sand (1:3) mortar 200mm foundation walling | m2 m3 m2 m2 | 2.00 ANK PLATFOR 7.0 2.4 3.7 7.0 7.0 | M AND 10M3 PL | ASTIC TANK |
| 3.1 BILL 4 4 4.01 4.02 4.03 4.04 4.05 | Washout marker post inscribed WO Amount for Bill 3 carried to Summary WATER POINT- WATER KIOSK WITH 1.5M FOUNDATION Cut to spoil top soil n.e. 150mm below g.l. over Kiosks and fetching bay areas into a permanent heap Cut to spoil a strip foundation trench n.e. 600mm below g.l. 300mm thick hardcore filling well watered and compacted in layers of 150mm maximum thickness to make up levels 50mm thick quarry dust/Murram blinding to surfaces of hardcore Chemical anti-termite treatment (as gladiator or equally approved) executed complete by an approved specialist under ten (10) year guarantee to surfaces of blinded hardcore 1000gauge polythene or any other equally approved Damp proof membrane laid under surface bed with 300mm side and end laps (measured nett - allow for laps) Natural stone walling, roughly chisel dressed on both sides and jointed in cement and sand (1:3) mortar 200mm foundation walling Mass concrete class 15 (1:4:8) in 50mm thick surface blinding under strip footings | m2 m3 m2 m2 m2 LM m3 | 2.00 ANK PLATFOR 7.0 2.4 3.7 7.0 9.0 | M AND 10M3 PL | ASTIC TANK |
| 3.1 BILL 4 4.01 4.02 4.03 4.04 4.05 | Washout marker post inscribed WO Amount for Bill 3 carried to Summary WATER POINT- WATER KIOSK WITH 1.5M FOUNDATION Cut to spoil top soil n.e. 150mm below g.l. over Kiosks and fetching bay areas into a permanent heap Cut to spoil a strip foundation trench n.e. 600mm below g.l. 300mm thick hardcore filling well watered and compacted in layers of 150mm maximum thickness to make up levels 50mm thick quarry dust/Murram blinding to surfaces of hardcore Chemical anti-termite treatment (as gladiator or equally approved) executed complete by an approved specialist under ten (10) year guarantee to surfaces of blinded hardcore 1000gauge polythene or any other equally approved Damp proof membrane laid under surface bed with 300mm side and end laps(measured nett - allow for laps) Natural stone walling, roughly chisel dressed on both sides and jointed in cement and sand (1:3) mortar 200mm foundation walling Mass concrete class 15 (1:4:8) in 50mm thick surface blinding under strip footings Mesh fabric reinforcement A98 to B.S 4483 (measured nett | m2 m3 m2 m2 m2 LM m3 | 2.00 ANK PLATFOR 7.0 2.4 3.7 7.0 7.0 0.4 | M AND 10M3 PL | ASTIC TANK |
| 3.1 BILL 4 4 4.01 4.02 4.03 4.04 4.05 | Washout marker post inscribed WO Amount for Bill 3 carried to Summary WATER POINT- WATER KIOSK WITH 1.5M FOUNDATION Cut to spoil top soil n.e. 150mm below g.l. over Kiosks and fetching bay areas into a permanent heap Cut to spoil a strip foundation trench n.e. 600mm below g.l. 300mm thick hardcore filling well watered and compacted in layers of 150mm maximum thickness to make up levels 50mm thick quarry dust/Murram blinding to surfaces of hardcore Chemical anti-termite treatment (as gladiator or equally approved) executed complete by an approved specialist under ten (10) year guarantee to surfaces of blinded hardcore 1000gauge polythene or any other equally approved Damp proof membrane laid under surface bed with 300mm side and end laps (measured nett - allow for laps) Natural stone walling, roughly chisel dressed on both sides and jointed in cement and sand (1:3) mortar 200mm foundation walling Mass concrete class 15 (1:4:8) in 50mm thick surface blinding under strip footings | m2 m3 m2 m2 m2 LM m3 | 2.00 ANK PLATFOR 7.0 2.4 3.7 7.0 9.0 | M AND 10M3 PL | ASTIC TANK |
| 3.1 BILL 4 4.01 4.02 4.03 4.04 4.05 4.06 4.07 4.08 | Washout marker post inscribed WO Amount for Bill 3 carried to Summary WATER POINT- WATER KIOSK WITH 1.5M FOUNDATION Cut to spoil top soil n.e. 150mm below g.l. over Kiosks and fetching bay areas into a permanent heap Cut to spoil a strip foundation trench n.e. 600mm below g.l. 300mm thick hardcore filling well watered and compacted in layers of 150mm maximum thickness to make up levels 50mm thick quarry dust/Murram blinding to surfaces of hardcore Chemical anti-termite treatment (as gladiator or equally approved) executed complete by an approved specialist under ten (10) year guarantee to surfaces of blinded hardcore 1000gauge polythene or any other equally approved Damp proof membrane laid under surface bed with 300mm side and end laps (measured nett - allow for laps) Natural stone walling, roughly chisel dressed on both sides and jointed in cement and sand (1:3) mortar 200mm foundation walling Mass concrete class 15 (1:4:8) in 50mm thick surface blinding under strip footings Mesh fabric reinforcement A98 to B.S 4483 (measured nett allow for laps) | m2 m2 m2 m2 m2 LM m3 | 2.00 ANK PLATFOR 7.0 2.4 3.7 7.0 7.0 9.0 10.0 0.4 9.0 | M AND 10M3 PL | ASTIC TANK |

| 4.2 | WALLING | | | |
|------|---|-----------|--------------|---|
| | Hessian based bituminous felt DPC 225mm wide | | | |
| 4.21 | horizontally placed below masonry walling | LM | 10.0 | |
| | Dressed Natural stone / Block walling: 200mm thick, | | | |
| | bedded and jointed with cement and sand mortar (1:3), | | | |
| | reinforced with 20SWG hoop iron in alternate courses to | | | |
| 4.22 | external wall including gable ends | m2 | 30.0 | |
| 4.23 | Vibrated reinforced concrete 1:2:4 (class 20 (20/20mm) in Ringbeams | m3 | 0.5 | |
| 4.23 | | ms | 0.5 | |
| | High yield square twisted steel reinforcement bars to BS 4461 including for cutting, bending to shape, tying, | | | |
| 4.24 | hooking and spacer blocks as described in: | | | |
| 4.25 | 8mm diameter ditto | KG | 10.0 | |
| 4.26 | 12mm diameter ditto | KG | 50.0 | |
| 4.27 | Sawn formwork to Sides of ringbeam | m2 | 2.7 | |
| | Horizontal key pointing in masonry joints in external wall | | | |
| 4.28 | surfaces | m2 | 27.0 | |
| | 15mm thick Cement sand plaster to walls surfaces (1:3) | | | |
| 4.29 | finished to walls to receive paint internally | m2 | 30.0 | |
| 4.3 | ROOFING: | 1 3 4 | 17.0 | |
| 4.31 | Wrought Cypress Timber 4x2 Wrought Cypress Timber 3" x 2" | LM | 17.0 | |
| 4.32 | Wrought Cypress Timber 3" x 2" Wrought Cypress Timber 2" x 2" | LM LM | 39.0 39.0 | |
| 4.55 | wrought Cypress ritiber 2 x 2 | TAVI | 39.0 | |
| 4.34 | G30 2m Corrugated Iron Sheets. | m2 | 4.0 | |
| 4.35 | Roofing Nails | Kg | 1.5 | |
| 4.36 | Assorted Ordinary Wire Nails | Kg | 5.0 | |
| | 2.1M x 1M Standard steel door complete with frame, hinges | | | |
| 4.37 | latch bolts and padlock. | No | 1.0 | |
| | 1M X 1M Standard steel window complete with frame | | | |
| 4.38 | hinges and latch bolts. | No | 1.0 | |
| 4.4 | FINISHES: | | | |
| 4.41 | ROOF: 8" x 1" planed timber fascia board | LM | 36.0 | |
| | METAL SURFACES: Prepare and apply three coats plastic | | | |
| 4.42 | enamel paint to General metal surfaces (both sides) (Red oxide primer glossy) | m2 | 3.5 | |
| 4.42 | INTERNAL PLASTERED WALLS: Prepare and apply three | 1112 | 5.5 | |
| | coats plastic silk emulsion paint to Plastered wall surfaces | | | |
| 4.43 | internally | m2 | 29.0 | |
| | EXTERNAL WALLS: Prepare and apply three coats | | | |
| | permaplast external wall paint to Rendered sides of beam | | | |
| | and walls externally and allow for branding of the kiosk as | | | |
| 4.44 | directed by the supervising engineer | m2 | 7.0 | |
| 4.5 | PLUMBING: | | 0.0 | |
| 4.51 | 1.5" diameter uPVC pipe class C | No. | 3.0 | |
| 4.52 | 1.5" diameter uPVC Elbow 1.5" diameter uPVC couplers. | No No. | 4.0 | |
| 4.53 | 1.5" diameter upvC couplers. 1.5" by 3/4" reducing socket | No. | 1.0 | |
| 4.55 | Water meter 3/4" dia. Kent | No. | 2.0 | |
| 4.56 | 3/4" diameter assorted length G.I nipples | No. | | |
| 4.56 | 3/4" diameter assorted length G.I hippies 3/4" diameter GI Pipe class B | No. | 5.0 1.0 | |
| 4.57 | 3/4" diameter G1 Fipe class b 3/4" diameter Gate valve-peglar type | No. | 3.0 | |
| 4.59 | 3/4" diameter valve sockets | No. | 2.0 | |
| 4.6 | 3/4" diameter GI union. | No. | 4.0 | |
| 4.61 | 3/4" diameter GI Elbow | No. | 4.0 | |
| 4.62 | Pipe joining material: | 1,0 | 7.0 | |
| 4.63 | Boss white for G.I Pipes | Kg | 0.5 | |
| 4.64 | Solvent Cement | Kg | 0.5 | |
| 4.65 | Coolant | Lts | 1.0 | |
| 4.66 | Sealing thread | Pcs | 2.0 | |
| - | Supply, Deliver & Install 1no. 10m3 Double Laminated | | | |
| | Plastic Water Tanks, c/w GI Inlet, Outlet & Overflow | Item | | |
| 4.67 | Fixtures, 2" dia. | | 1 | |
| | Construct 1no. 1.5m high masonry platforms with | | | |
| 4.68 | reinforced concrete slab, ensure to accommodate the tank comfortably. | Item | 1 | |
| 7.00 | | | 1 | 1 |

| | Sub-total for water kiosk | | | |
|--------|---|------|----|-----------|
| | Total for 2 water point | | | |
| | Sub Total Water Points | | | |
| | | | | |
| BILL 5 | FENCING AT SOURCE | | | |
| 5.1 | Supply and install 2.1 m high x 14 gauge chainlink complete with 14 Gauge x 4 strand galvanised plain wired fencing and 2 stands barbed wire at cranked section (430mm) complete with complete with 100 x 125 mm cranked precast concrete posts anchored 600mm deep and at 2.5m centres mortised in mass concrete sorround. Anchor the chainlink with 200x150mm mass concrete class ratio 1:3:6. Inlcude stainer posts at corners and after every 30m | LM | 60 | |
| 5.2 | Construct 4m wide 2.1 m height double leaf opening steel gates clad in high grade mesh wire, anchored on reinforced concrete columns using 4 No. Y10 Rebars each column c/w padlocks | No. | 1 | |
| 5.3 | Supply, install, and test one CCTV 4G camera unit with an upper static part and lower remote PTZ part, complete with two stand-alone 400 W flood lights, cabling, power connections and all accessories. | Item | 1 | |
| | Total for fencing one site | | | |
| | SUMMARY | | | |
| | | | | |
| BILL | BILL DESCRIPTION | | | AMOUNT |
| BILL 1 | PRELIMINARIES AND GENERAL ITEMS | | | |
| BILL 2 | HIGH LIFT SOLAR PUMPING SYSTEM | | | |
| BILL 3 | PIPELINE | | | |
| BILL 4 | WATER POINT | | | |
| BILL 5 | FENCING AND SURVEILLANCE AT SOURCE | | | |
| | SUB TOTAL | | | |
| | Contigencies | | | |
| | Allow a provisional sum of Kshs. 30,000 for contigencies | | | 30,000.00 |
| | TOTAL | | | |
| | ADD | | | |
| | Public Procurement Capacity Building Levy (0.03%) | | | |
| | TOTAL III | | | |
| | ADD VAT (16%) | | | |
| | GRAND TOTAL FOR BUILDER'S WORK | | | |