



**MINISTRY OF LANDS, HOUSING AND URBAN
DEVELOPMENT**

DIRECTORATE OF PUBLIC WORKS

TELEPHONE(064)52387.

When replying please quote.

COUNTY WORKS OFFICER
ISIOLO COUNTY,
P.O BOX 38,
ISIOLO.

Ref.No.MOPW/ISL/B47/VOL.II/29

DATE: 17th January 2018

THE HEAD SUPPLY CHAIN MANAGEMENT SERVICES,
ISIOLO COUNTY GOVERNMENT,
P.O.BOX 36-60300
ISIOLO.

RE:PROPOSED CONSTRUCTION OF PERIMETER FENCE AND GATE HOUSE

Your letter dated 20th December 2017 on above refers. Enclosed please find drawing and blank BQ for the said works. The works will cost approximately Kenya Shillings, Four Million, Nine Hundred thousand (Kshs. 4,900,000.00) Only.

**QS.L.K.MBIJIWE
COUNTY WORKS OFFICER
ISIOLO.**



REPUBLIC OF KENYA

DIRECORATE OF PUBLIC WORKS

**PROPOSED CONSTRUCTION OF PERIMETER FENCE AND GATE HOUSE AT
COUNTY TREASURY**

TENDER DOCUMENTS

W.P.ITEM NO.....

ISSUED BY:

COUNTY WORKS OFFICER,
DEPARTMENT OF PUBLIC WORKS
P.O BOX 38,
ISIOLO.

ISIOLO COUNTY GOVERNMENT
P.O BOX 36-60300
ISIOLO

JANUARY - 2018.

ITEM NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT KSHS	
A	<u>MASONRY PERIMETER FENCE AT COUNTY TREASURY</u>					
	Clear existing life fence and dispose as directed.	LM	195			
	B	Excavate trenches for strip foundation not exceeding 1.5m deep.	CM	198		
	<u>FILLING AND CARTING</u>					
C	Return,fill and ram selected excavated to column pit.	CM	106			
D	Load and cart away excavated material on site as directed.	CM	92			

ITEM NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT KSHS
A	<u>PLAIN CONCRETE OF MIX 1:4:8</u> 50mm thick blinding to column bases and foundation. <u>Vibrated reinforced concrete(1:2:4) in:-</u>	SM	132		
B	Beams	CM	15		
C	Column bases and columns	CM	27		
D	Strip foundation <u>Sawn formwork to:-</u>	CM	17		
E	Side columns.	SM	257		
F	Beams. <u>Natural stone walling in cement –sand including reinforcing with 20x3mm thick every alternate course.</u>	SM	148		
G	200mm thick quarry stone walling	SM	260		
H	150mm machine cut walling in cement sand(1:4) mortar	SM	485		
J	8mm diameter bar reinforcement	KG	1200		
K	12mm diameter ditto/10mm Diameter ditto	KG	2820		
L	12mm thick cement sand(1:3)plaster to columns/ beams.	SM	268		
M	Prepare and apply three coats of gloss oil paint to plastered surfaces.	SM	268		
N	300x50mm thick precast concrete coping in cement and sand mortar(1:3).	LM	174		
O	300x400x50mm ditto.	NO	65		
P	Extra over walling for keying with (1:3)cement sand mortar.	SM	485		
Q	<u>Expansion joints</u> 25mm thick flexcell,300mm wide.	LM	293		
R	25x25mm plastic sealant.	LM	195		

ITEM NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT KSHS
	<p><u>COLLECTION</u></p> <p>FROM PAGE MP/1</p> <p>FROM PAGE MP/2</p>				

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT KSH
	<u>PROPOSED CONSTRUCTION OF GATE HOUSE</u>				
	<u>ELEMENT NO.1</u>				
	<u>SUBSTRUCTURES</u>				
	<u>(ALL PROVISIONAL MEASURED)</u>				
	<u>The following works have been measured upto and including ground floor slab)</u>				
	<u>Earth works & excavatings</u>				
A	Excavate to remove vegetable soil average 200mm deep and deposit as directed	SM	21		
B	Excavate trenches for strip foundation starting from stripped level and not exceeding 1.5 metres deep.	CM	12		
C	Ditto columns bases	CM	4		
D	Extra over excavation for all class of rocks.	CM	1		
E	Approved hardcore 300mm thick filling well handpacked, rammed, watered and compacted in layers of 150mm thick.	SM	10		
F	50mm fine materials for blinding (murrum/quarry dust) to surface of hardcore well and leveled.	CM	10		
G	Return, fill and ram selected excavated materials around foundation.	CM	7		
H	Load and cart away excavated soil from site as directed.	CM	9		
J	"Termidor" or other equal and approved insecticide solution treatment to manufacture instructions on blinded surfaces and bottoms of foundations.	SM	13		
K	1000 Gauge polythene D.P.M under lay sheeting to bottom of slab with end and side laps of 150mm.	SM	13		
L	Allow for keeping excavations free from all waters by draining, pumping or otherwise.		ITEM		
M	Allow for maintaining and upholding sides of excavations as necessary clearing away any debris; rubbish e.t.c		ITEM		
	TOTAL CARRIED TO COLLECTION				

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT KSH
	<u>SUBSTRUCTURES (Continued)</u>				
	<u>Plain concrete (1:4:8)in:-</u>				
A	50mm Thick blinding to foundation and column bases	SM	11		
	<u>Vibrated Reinforced Concrete(1:2:4)</u>				
B	Foundation strip footing	CM	2		
C	Columns bases	CM	1		
D	100mm Thick ground floor slab	SM	13		
	<u>Sawn formwork to :-</u>				
E	Vertical sides of column	SM	4		
F	Edges of floor slab 75-150high	LM	14		
	<u>Steel reinforcements:</u>				
	<u>Supply and including all necessary tying wires and spacer blocks.</u>				
G	8mm High tensile square twisted steel bars	KG	15		
H	10mm/12mm Ditto	KG	100		
I	Steel fabric reinforcement mesh No. A142	KG	13		
	<u>Foundation walling</u>				
	<u>Natural stone walling in cement-sand (1:3) mortar including reinforcing with 20x3mm thick hoop-iron in every alternate course.</u>				
J	200 mm Thick walling	SM	16		
	TOTAL CARRIED TO COLLECTION				

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT KSH
	<u>SUBSTRUCTURES (Continued)</u>				
	<u>Plinths</u>				
A	12mm thick cement-sand (1:3) render to plinths.	SM	5		
B	Prepare and apply three coats of Bitumastic paints to rendered plinths externally.	SM	5		
	<u>Paving slabs around buildings</u>				
C	600x600mm thick grey pre-cast concrete (1:2:4) paving slabs with cement and sand Mortar (1:3) joints including 50mm bed of sand.	SM	9		
	<u>TOTAL CARRIED TO COLLECTION BELOW.....</u>				
	FROM PAGE GH/1				
	FROM PAGE GH/2				
	FROM ABOVE				
	TOTAL FOR ELEMENT NO.1 SUBSTRUCTURES CARRIED TO SUMARY PAGE.....				

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT KSH
	<u>SUPERSTRUCTURE</u> <u>ELEMENT NO.2</u> <u>REINFORCED CONCRETE SUPERSTRUCTURE</u>				
	<u>Vibrated Reinforced Concerete (1:2:4):-</u>				
A	Beams and columns	CM	2		
	<u>Sawn formwork to:-</u>				
B	Sides and Soffits of Beams and Lintols.	SM	4		
C	Sides of Columns	SM	11		
	<u>Steel reinforcements:</u> <u>Supply and fix including all necessary tying wires and</u> <u>spacer blocks.</u>				
D	8mm High tensile square twisted bars	KG	60		
E	12mm Ditto	KG	40		
D	12mm Ditto	KG	55		
	TOTAL FOR ELEMENT NO.2 REINFORCED CONCRETE SUPERSTRUCTURE TOTAL CARRIED TO SUMMARY.....				

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT KSH
	<u>ELEMENT NO.3</u> <u>WALLING</u>				
	<u>Natural building stones or concrete blocks in cement-sand (1:4) mortar and reinforced at every alternate course with 25mmx3mm thick hoop-iron.</u>				
A	150mm thick walling	SM	42		
B	Extra over walling for smooth face dressing and horizontal and vertical keying.	SM	33		
	<u>Bitumastic pamp proof course felt cement(1:4) mortar bed</u>				
C	150mm wide	LM	15		
	<u>Permanent ventilation</u>				
E	Leave make hole size 225x225mm through walling for vents.	NO	5		
F	225x225x12mm Thick precast concrete (1:2:4) vent block lined with Mosquito gauze internally including moulding around in cement- sand (1:3) Mortar.	PAIR	5		
	TOTAL FOR ELEMENT NO.3 WALLING CARRIED TO SUMMARY PAGE.....				

ITEM NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT KSHS
	<u>ELEMENT NO. 4</u>				
	<u>ROOFING</u>				
	<u>Wall-plate in first grade sawn celcured cypress.</u>				
A	100x50mm wall-plate on beam with 12mm cement /sand (1:3) mortar bed and hoop iron straps (m/s)	LM	4		
B	Make mortice in concrete beam for anchoring hoop iron straps	NO	4		
C	20x2mm thick hoop iron strapping's 800mm long once folded, cast into beams and other end run over and lapped over timber with adequate nailing.	NO	4		
	<u>Covering</u>				
D	28gauge IT4 roofing sheets on 75x50mm timber purlins (M/S) with adequate end side laps	SM	17		
E	Ditto Marching ridge and valley	LM	0		
F	Ditto flushing		11		
	<u>TRUSSES</u>				
	<u>The following double pitched sawn cypress celcured graded timber</u>				
G	100x50mm tie beam	LM	10		
H	150 x50mm rafters	LM	13		
I	75X50mm struts or ties	LM	11		
J	75x50mm purlins	LM	20		
	<u>Wrot 1st grade cypress in:-</u>				
K	250x25mm fascia / verge boards with one beveled edge and fixed to ends of rafters and purlins	LM	5		
	TOTAL CARRIED TO COLLECTION PAGE.....				

ITEM NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT KSHS
	<p><u>ROOFING (continued)</u> <u>1st grade sawn cypress timber in:-</u></p> <p>A 75x50mm brandering set at 600mm centres between tie beams</p> <p>B 50 x 50mm ditto</p> <p>Decoration and painting</p> <p><u>Knot,prime,stop,destain,prepare and apply one undercoal and two finishing gloss oil paint to:-</u></p> <p>C Surface of timber 200-300mm girth.</p>	LM	26		
	<p>TOTAL CARRIED TO CARRIED TO PAGE.....</p>				

ITEM NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT KSHS
	<p data-bbox="284 338 560 371">ROOFING (continued)</p> <p data-bbox="531 483 756 584" style="text-align: center;">COLLECTION FROM PAGE GH/6 FROM PAGE GH/7</p> <p data-bbox="284 1980 959 2011">TOTAL FOR ELEMENT NO. 1 ROOFING SUMMARY PAGE</p>				<p data-bbox="1193 1877 1262 1906" style="text-align: center;">KSHS</p>

ITEM NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT KSHS
	<p><u>ELEMENT NO. 5</u> <u>DOORS</u></p> <p><u>METAL DOORS</u></p> <p><u>The following purpose Aluminium doors complete with hanging locking accessories fabricated in accordance with the architectural designs and once primed with red oxide before delivery to the site cutting and pinning fixing lugs to walls and plastering reveals in cement (1:3) mortar with all main frames in 50x40mm RHS tubing.</u></p>				
A	Double leaf door size 1500x2100mm high overall comprising 50x25x3mm thick framing, 50x25mm RHS vertical infill flush welded and jointed to full width of door.	NO	2		
B	Ditto size 5000x3000mm double leave metal panel gate complete with ironmongery. And five level lock	NO	1		
	<p><u>TIMBER DOORS</u></p>				
C	100x50mm rebated and moulded framing	LM	10		
D	45x20mm architrave	LM	10		
E	30mm quadrant beading	LM	10		
F	850X20150mm high T&G door	NO	2		
	<p><u>IRONMONGERY</u> <u>Supply and fix only the following ironmongeries to manufactures instructions with matching screws.</u></p>				
G	100mm pressed brass hinges	Prs	3		
	TOTAL CARRIED TO COLLECTION PAGE				

ITEM NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT KSHS
A	Two lever mortice lock as "union" or other equal approved with set of lever furniture handles	NO	2		
B	100mm steel tower bolt	NO	2		
C	Rubber door stop with raw bolt screwed & plugged	NO	2		
	<u>Prepare and apply one undercoat and two finishing coats gloss oil painting to:-</u>				
D	Metal surfaces externally	SM	20		
E	Ditto Internally	SM	20		
	<u>Knot, prime, stop and apply one undercoat and two finishing coats gloss oil paint to:-</u>				
F	Wood surfaces internally	SM	8		
G	Ditto 100 – 200mm girth	LM	10		
H	Ditto 0 – 100mm girth	LM	10		
	<u>TOTAL CARRIED TO COLLECTION BELOW</u>				
	<u>COLLECTION</u>				
	FROM GH/9				
	FROM ABOVE				
	TOTAL FOR ELEMENT NO.5				
	DOORS CARRIED TO SUMMARY PAGE				

ITEM NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT KSHS
	<u>ELEMENT NO. 6</u> <u>WINDOWS</u> <u>The following purpose made burglar proofed metal steel window casements in standard 25mmx3mm T and Z-section framing in medium panes (0.35Sm) finished with one coat redoxide prime before fixing and all complete with necessary fastners and stays opneable parts and 75mm permanent vent hood filled with coffee-tray and mosquito gauze to full width all as per Architects designs including cutting sone and pinning fixing lugs and beddings and pointing ground reveals in Cment(1:3) mortar</u>				
A	Windows size 900x1200mm high with 3 equal 450mm high side-hung openable satchets, one 3 equal sized paned top-hung openable satch.	NO	2		
B	Ditto 800x850mm ditto.	NO	1		
	<u>GLAZING</u> <u>4mm thick class in medium panes including cutting and glazing to metal with lead putty</u>				
C	Clear sheet 0.10-0.50SM	SM	2		
D	Obscure sheet ditto	SM	1		
	<u>In-situ concrete (1:2:4) as described including formwork in:</u>				
E	Windows cill size (average) 65mm thick x 250mm wide weathered and throated	LM	4		
	<u>Pelment Boxes.</u>				
F	Wrot hardwood pelmet box comprising 150x25mm top fascia and ends fixed on 50x25mm sawn bearer plugged to wall	LM	4		
G	Brass 1-section curtain track complete with hocks and rollers	LM	4		
	<u>Prepare and apply one undercoat and two coats glass oil finishing paint to-:</u>				
H	Glazed metal surfaces externally	SM	3		
I	Ditto internally	SM	3		
J	Timber 200-300mm girth	LM	4		
	TOTAL FOR ELEMENT NO.6 WINDOWS CARRIED TO SUMMARY PAGE.....				

ITEM NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT KSHS
	ELEMENT NO. 7				
	FINISHINGS				
	External Walls				
A	12mm Thick cement-sand (1:4) render to beams and columns	SM	5		
B	15mm Thick ditto to wall surfaces	SM	4		
C	Three coats of 1 st grade plastic emulsion paint as per "crown berger" or other equal and approved to plastered/rendered surfaces.	SM	9		
	Internal walls				
D	15mm thick cement-sand (1:4) plaster finished smooth for painting	SM	34		
E	9mm thick ditto as backing to receive tile	SM	13		
F	6mm Thick ceramic wall tiling as "saj cerramic ltd" or equal and approved on plastered walling including mastic pointing.	SM	13		
G	Extra for rounded edge tile	LM	7		
	Floors				
H	30mm Thick coloured cement sand 1:4 screed	SM	10		
I	6mm thick floor tiles as saj ceramics, or equal and approved	SM	3		
	Ceiling				
J	12mm Thick chipboard ceiling boards nailed symmetrically onto timber brandering (m/s) with clout nails and v-jointed.	SM	10		
K	100x20mm wrot cypress mould cornice with mitre jointing at corners	SM	19		
L	Extra-over celotex ceiling for trap door size 600x600mm comprising loose 12mm board set on 50x25mm framing.	NO	1		
	PAINTING and DECORATIONS				
	Prepare AND APPLY THREE COATS" SILKY Vinly as Crown berger" Plastic Emulsion Painting to-:				
M	Plastered walls surfaces.	SM	34		
N	Ditto surfaces of ceiling and cornices	SM	10		
	ELEMENTS NO.7 FINISHES				
	TOTAL CARRIED TO SUMMARY PAGE.....				

ITEM NO.	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<u>ELEMENT NO.8 PLUMBING WORKS</u>				
	All works inn this element have been measured to the outside of the building)medium grade galvanized mild steel tubing and connections and jointing.				
A	12mm Tubing	LM	20		
B	19mm Ditto	LM	20		
C	12mm Brass fullway gate valve	NO	1		
D	19mm Ditto	NO	1		
E	200 Litres approved PVC Storage tank complete with valve and other necessary accessories including fixing to roof on bearings	NO	1		
F	Vitrous China wash hand basin fixed on semi concealed brackets complete with two chromium plated bib taps and other accessories.	NO	1		
G	Low level W.C suit comprising vitrous China pan with "P" trap gallon plastic cistern complete with necessary accessories	NO	1		
H	50mm diameter PVC gulley trap and grating setting in ground including excavations and concrete surround	NO	1		
I	32mm diameter medium grade pvc waste pipe	LM	2		
J	100mm ditto vent pipe	LM	4		
K	Allow for testing the whole of plumbing installation	ITEM			

ITEM NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<p><u>ELEMENT NO9 DRAINAGE</u></p> <p>Standard type manhole as MOW drawing No.(50)5300 and (50) 5301 inclding all excavations construction, benching, channels and approved light duty cast iron manhole cover and frame.</p>				
A	Mahnhole type 'A'	NO	3		
	Excavate trench for pipe not exceeding 150mm diameter, not exceeding 1.5 metres total depth parth backfill and remainder cart away				
B	Average depth 500 mm.	LM	30		
C	10mm diameter medium grade UPVC drain pipe	LM	30		
D	Provide for connection to the main sewer	ITEM			
E	Allow for testing drainage works.	ITEM			

ITEM NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<u>GATE HOUSE</u>				
	<u>SUMMARY</u>				
1	ELEMENT NO.1 SUBSTRUCTURES B/F FROM GH/3				
2	ELEMENT NO.2 R.C SUPERSTRUCTURE G/F FROM AB/4				
3	ELEMENT NO.3 WALLING B/F FROM GH/5.....				
4	ELEMENT NO. 4 ROOFING B/F FROM GH/8.....				
5	ELEMENT NO.5 DOORS B/F FROM GH/10.....				
6	ELEMENT NO.6 WINDOWS B/F FROM GH/11.....				
7	ELEMENT NO.7 FINISHING B/F FROM GH/12.....				
8	ELEMENT NO.8 PLUMBING WORKS B/F FROM GH/13.....				
9	ELEMENT NO.9 DRAINAGE B/F FROM GH/14.....				
	TOTAL ELEMENTAL SUMMARY FOR ADMINISTRATION BLOCK CARRIED TO GRAND SUMMARY.....				

ITEM NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT KSHS.
	<u>ELEMENT NO.10:ELECTRICAL</u> <u>Electrical Works</u>				
1.0	Supply and install Lighting points wired in 3x1.5mm ² sc/cn PVC cables(E.A) in relevant colour codes drawn inside 20mm HG PVC conduct.	NO	4		
2.0	10A Moulded Ivory switch plate as MEM or its approved equivalent 5A 2g 1W	NO	4		
3.0	Supply and install the following fitting as thorn or its approved equivalent				
	(a) 1200mmx36w fluorescent fitting complete with tube	NO	2		
	(b) 100w metal clad bulkhead fitting complete with energy saver bulb	NO	2		
	(c) 60W spherical fitting complete with energy saver bulb.	NO	2		
4.0	Supply and install 13A Twin power points wire in 3x2.5mm ² colour codes drawn inside 2mm HG PVC conduit.	NO	2		
4.1	Supply and install 13A Twin socket outlet plate as menu or its approved equivalent.	NO	2		
5.0	Supply and install 4ways consumer units as mem C/W 2xMCB, 2x30A MCB	NO	1		
6.0	Supply and install 3x2.50mm ² sub-main cables.	LM	20		
7.0	Supply and install cable loop in box cw 8A Double cutout.	NO	1		
8.0	Supply and install 2.50mm ² PVC SWA cable	LM	20		
9.0	Allow for builders work				
	TOTAL				

ITEM NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT KSHS
	<u>PC AND PROVISIONAL SUMS</u>				
A	Allow a provision sum of Kshs.100,000 for Contigencies				100,000
B	Allow a sum of Kshs. 50,000 for project management				50,000
	TOTAL FOR PC & PROVISIONAL SUMS CARRIED TO GRAND SUMMARY.....				

PROPOSED CONSTRUCTION OF MASONRY FENCE AT

COUNTY TREASURY

GRAND SUMMARY

ITEM NO	DESCRIPTION	FOR TENDERERS USE ONLY(KSHS)	OFFICIAL USE ONLY(KSHS)
1	PARTICULAR PRELIMINARIES		
2	GENERAL PRELIMINARIES		
3	PERIMETER FENCE		
4	GATE HOUSE		
5	ELECTRICAL WORK		
6	PC AND PROVISIONAL SUMS		
7	SUB-TOTAL		
8	ADD 16% V.A.T OF SUB -TOTAL		
9	GRAND TOTAL		

Amount in words.....

Tenders Signature and stamp.....

Name

Name of witness.....

Signature.....Date.....

Address.....