

REPUBLIC OF KENYA



PROPOSED CONSTRUCTION OF  
MATERNITY WING TO KENYORO HEALTH  
CENTRE -BASI CHACHE WARD

KISII COUNTY

KCG/WPHS/0029/2016-2017

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BILLS OF QUANTITIES

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PREPARED BY:  
COUNTY QUANTITY SURVEYOR  
MINISTRY OF PUBLIC WORKS  
P.O. BOX 6  
KISII

ISSUED BY: 16 FEB 2017  
COUNTY WORKS OFFICER  
MINISTRY OF PUBLIC WORKS  
P.O. BOX 6  
KISII

FEB : 2017

Approved  
16 FEB 2017  
P.O. Box 4850 40200, KISII

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# KISII COUNTY GOVERNMENT



Supplied as part of the Contract for **the above works**

.The contract for the above-mentioned works entered into this ..... day of ..... 2014. by the undersigned refers to these Bills of Quantities and the Department of Public Works General Specification dated March, 1976 (together with any amendments issued thereto) shall be read and construed as part of the said contract.

.....  
**C O N T R A C T O R**

.....  
**C L I E N T**

Date: .....

Date: .....

## **SPECIAL NOTES**

The Contractor is required to check the numbers of the pages of these Bills of Quantities and should he find any missing or in duplicate or figures indistinct he must inform the County Works Office, Kisii at once and have the same rectified.

Should the Contractor be in doubt about the precise meaning of any item or figure for any reason whatsoever, he must inform the County Quantity Surveyor, Department of Public Works, Kisii in order that the correct meaning may be decided before the date for submission of tenders.

No liability will be admitted nor claim allowed in respect of errors in the Contractor's Tender due to mistakes in the Specifications which should have been rectified in the manner described above.

## **SIGNATURE PAGE AND NOTES**

## PREAMBLES AND PRICING NOTES

### A. GENERALLY

All work to be carried out in accordance with the Ministry of Roads, Public Works and Housing General Specifications for Building Works issued in 1976 or as qualified or amended.

### B. MANUFACTURERS' NAMES

Where manufacturers' names and catalogue references are given for guidance to quality and standard only, alternative manufacturer of equal quality will be accepted at the discretion of the Project Manager.

### C. WALLING

All precast concrete blocks shall be manufactured by the methods and to the sizes specified in the Ministry of Roads, Public Works and Housing "Specification for Metric Sized Concrete Blocks for Building (1972)"

Walling of 100 mm thickness or under shall be reinforced with hoop iron every alternate course.

Prices for walling must allow for all costs in preparing, packing and sending sample blocks for testing as and when required by the Project Manager.

### D. CARPENTRY

The grading rules for cypress shall be the same as for podocarpus and all timber used for structural work shall be select (second grade). All structural timber must conform to the minimum requirements for moisture content and preservative treatment and timber prices must allow for preparing, packing and sending samples for testing when required.

Prices must also include for all nails and fasteners.

### A. JOINERY

Cypress for joinery shall be second grade in accordance with the latest grading rules of the Kenya Government.

Where Mahogany is specified, this refers to prime grade only. The Contractor may with the approval of the Project Manager, use either Msharagi or Mvuli in lieu of Mahogany but such approval will be given only in the case of shortages of the hardwoods specified.

Plugging shall be carried out by drilling walling or concrete with masonry drill and filling with propriety plugs of the correct sizes. Cutting with hammer and chisel will not be allowed.

Prices for joinery must include for pencil rounded arises, protection against damage, nails, screws, framing and bedding in cement mortar as required.

Sizes given for joinery items are nominal sizes and exact dimensions of doors, etc, must be ascertained on site.

## **B. IRONMONGERY**

Ironmongery shall be as specified in the Bills of Quantities or equal and approved.

Prices must include for removing and re-fixing during and after painting, labeling all keys, and for fixing to hardwood, softwood, concrete or blockwork.

Catalogue references given for ironmongery are for purposes of indicating quality and size of item(s). Should the Contractor wish to substitute the specified item(s) with others of equal quality, he must inform the Project Manager and obtain approval in writing.

## **A. STRUCTURAL STEELWORK**

- a. All structural steelwork shall comply with the Ministry of Roads, Public Works and Housing "Structural Steelwork Specification (1973) and shall be executed by an approved Sub-contractor.

## **B. PLASTERWORK AND OTHER FINISHES**

- a. All finishings shall be as described in the general specifications and in these Bills of Quantities.
- b. Prices for pavings are to include for brushing concrete clean, wetting and coating with cement and sand grout 1:1.
- c. Rates for glazed wall tiling are to include for a 12 mm cement and sand (1:4) backing screed unless otherwise specified in these Bills of Quantities.

### C. GLAZING

- a. Where polished plate glass is specified, this refers to general glazing quality.
- b. Prices for glazing shall include for priming of rebates before placing putty.
- c. The Contractor will be responsible for replacing any broken or scratched glass and handing over in perfect condition.

### D. PAINTING

- a. All paint shall be 1<sup>st</sup> quality "Crown" or other equal and approved
- b. Painting shall be applied in accordance with the manufacturers' instructions.

Prices for painting are to include for scaffolding, preparatory work, priming coats, protection of other works and for cleaning up on completion. Prices for painting on galvanized metal are to include for morda

**FORM OF TENDER**

TO: \_\_\_\_\_[Name of Employer] \_\_\_\_\_[Date]  
\_\_\_\_\_ [Name of Contract]

Dear Sir,

1. In accordance with the Conditions of Contract, Specifications, Drawings and Bills of Quantities/Schedule of Rates for the execution of the above named Works, we, the undersigned offer to construct, install and complete such Works and remedy any defects therein for the sum of Kshs. \_\_\_\_\_ [Amount in figures] Kenya Shillings \_\_\_\_\_ [Amount in words]
2. We undertake, if our tender is accepted, to commence the Works as soon as is reasonably possible after the receipt of the Employer's Representative's notice to commence, and to complete the whole of the Works comprised in the Contract within the time stated in the Appendix to Conditions of Contract.
3. We agree to abide by this tender until \_\_\_\_\_ [Insert date], and it shall remain binding upon us and may be accepted at any time before that date.
4. Unless and until a formal Agreement is prepared and executed this tender together with your written acceptance thereof, shall constitute a binding Contract between us.
5. We understand that you are not bound to accept the lowest or any tender you may receive.

Dated this \_\_\_\_\_ day of \_\_\_\_\_ 20\_\_\_\_\_

Signature \_\_\_\_\_ in the capacity of \_\_\_\_\_

duly authorized to sign tenders for and on behalf of  
\_\_\_\_\_ [Name of Tenderer] of  
\_\_\_\_\_ [Address of Tenderer]

Witness; Name \_\_\_\_\_

Address \_\_\_\_\_

Signature \_\_\_\_\_

Date \_\_\_\_\_

*(Amend accordingly if provided by Insurance Company)*

## FORM OF AGREEMENT

THIS AGREEMENT, made the \_\_\_\_\_ day of \_\_\_\_\_ 20 \_\_\_\_\_ between \_\_\_\_\_ of or whose registered office is situated at] \_\_\_\_\_ (hereinafter called “the Employer”) of the one part AND \_\_\_\_\_ of [or whose registered office is situated at] \_\_\_\_\_ (hereinafter called “the Contractor”) of the other part.

WHEREAS THE Employer is desirous that the Contractor executes

\_\_\_\_\_ (*name and identification number of Contract* ) (hereinafter called “the Works”) located at \_\_\_\_\_ [*Place/location of the Works*] and the Employer has accepted the tender submitted by the Contractor for the execution and completion of such Works and the remedying of any defects therein for the Contract Price of Kshs \_\_\_\_\_ [*Amount in figures*], Kenya Shillings \_\_\_\_\_ [*Amount in words*].

NOW THIS AGREEMENT WITNESSETH as follows:

1. In this Agreement, words and expressions shall have the same meanings as are respectively assigned to them in the Conditions of Contract hereinafter referred to.
2. The following documents shall be deemed to form and shall be read and construed as part of this Agreement i.e.
  - (i) Letter of Acceptance
  - (ii) Form of Tender
  - (iii) Conditions of Contract Part I
  - (iv) Conditions of Contract Part II and Appendix to Conditions of Contract
  - (v) Specifications
  - (vi) Drawings
  - (vii) Priced Bills of Quantities/Priced Schedule of Rates [whichever is applicable]
3. In consideration of the payments to be made by the Employer to the Contractor as hereinafter mentioned, the Contractor hereby covenants with the Employer to execute and complete the Works and remedy any defects therein in conformity in all respects with the provisions of the Contract.



4. The Employer hereby covenants to pay the Contractor in consideration of the execution and completion of the Works and the remedying of defects therein, the Contract Price or such other sum as may become payable under the provisions of the Contract at the times and in the manner prescribed by the Contract.

IN WITNESS whereof the parties thereto have caused this Agreement to be executed the day and year first before written.

The common Seal of \_\_\_\_\_

Was hereunto affixed in the presence of \_\_\_\_\_

Signed Sealed, and Delivered by the said \_\_\_\_\_

Binding Signature of Employer \_\_\_\_\_

Binding Signature of Contractor \_\_\_\_\_

In the presence of (i) Name \_\_\_\_\_

Address \_\_\_\_\_

Signature \_\_\_\_\_

[ii] Name \_\_\_\_\_

Address \_\_\_\_\_

Signature \_\_\_\_\_

**PROPOSED TYPICAL TWO BED-ROOMED STAFF HOUSE TO KENYORO DISPENSARY**

ITEM	DESCRIPTION	QNTY	UNIT	RATE	AMOUNT
	<u>ELEMENT NO. 1</u> <u>SUBSTRUCTURES</u> <u>(All provisional)</u>				
A	Clear site of all grass and small trees not exceeding 600mm girth and cart away or burn	80	SM		
B	Reduce level to remove top vegetable soil average 250mm deep and spread as directed on site.	59	SM		
C	Excavate for foundation strip footing in normal soil not exceeding 1.5m deep.	45	CM		
D	Allow for keeping excavations free from all water by pumping or otherwise.		ITEM		
E	Ditto; for plunking and strutting to sides of excavations.		ITEM		
	<b>Disposals</b>				
F	Return fill and ram selected excavated material around foundations.	29	CM		
G	Load, wheel and cart away from site surplus excavated material and deposit in approved	16	CM		
	<b>Imported Filling</b>				
H	300 mm Thick (average) approved broken quarry stone hardcore filling in two equal layers well compacted.	59	SM		
J	50 mm thick stone dust blnding to surfaces of hardcore	59	SM		
	<b>Total to collection</b>				

**PROPOSED TYPICAL TWO BED-ROOMED STAFF HOUSE TO KENYORO DISPENSARY**

ITEM	DESCRIPTION	QNTY	UNIT	RATE	AMOUNT
	<u>ELEMENT NO.1 CONT'D</u>				
	<u>50 mm plain concrete (1:4:8 - class 15/20mm)</u> blinding to:				
A	Strip footing.	34	SM		
	<u>Plain concrete in:</u>				
B	150mm thick Strip footing. Ditto	34	SM		
C	Ditto 100mm thick ground floor slab	91	SM		
	<u>Damp proof membrane</u>				
D	1000 gauge polythene sheeting laid under concrete floor bed.	124	SM		
	<u>Anti-termite treatment</u>				
F	"Dragnet" or other equal and approved antitermite insecticide treatment to blinded hardcore surfaces applied in accordance with manufacturer's instructions.	59	SM		
	Carried to collection				

**PROPOSED TYPICAL TWO BED-ROOMED STAFF HOUSE TO KENYORO DISPENSARY**

ITEM	DESCRIPTION	QNTY	UNIT	RATE	AMOUNT
	<u>ELEMENT NO. 1 CONT'D</u>				
	<u>Sawn formwork to :</u>				
A	Sides of strip footing.	150	LM		
B	Edges of ground floor bed exceeding 75mm but not exceeding 150mm girth.	49	LM		
	<b>Load bearing fired clay bricks in cement and sand mortar</b>				
C	150 mm thick ditto	64	SM		
	<u>Bituminous Damp Proof Course bedded and jointed in cement sand mortar 1:3.</u>				
D	200 mm wide.	76	LM		
	<u>Cement and sand (1:4) rendering</u>				
E	12mm thick cement and sand render mix 1:4 to plinth surfaces.	15	SM		
F	Prepare and apply three coats of butimastic paint to rendered surfaces.	15	SM		
	<b>Total to Collection</b>				
	<b>COLLECTION</b>				
	Brought forward from page GH/ 1				
	Brought forward from page GH/ 2				
	Brought forward from above				
	<b>Total for Element No. 1 (Substructure) carried to summary</b>				

**PROPOSED TYPICAL TWO BED-ROOMED STAFF HOUSE TO KENYORO DISPENSARY**

ITEM	DESCRIPTION	QNTY	UNIT	RATE	AMOUNT
	<u>ELEMENT NO.2</u>				
	<u>REINFORCED CONCRETE</u>				
	<u>Vibrated reinforced concrete (1:2:4 ) Class 20/20mm in :</u>				
A	Ring Beams	1	CM		
	<u>Reinforcement</u>				
	<u>High tensile square twisted bars BS 4461 as described in :</u>				
B	12mm diameter ditto in ringbeam	290	KG		
	Mild steel round bars as described in				
C	8mm ditto in ringbeam rings	170	KG		
	<u>Sawn formwork to :</u>				
D	Verticle sides of Ring Beams	45	SM		
	<b>Total for Element No. 2 Carried to collection</b>				

**PROPOSED TYPICAL TWO BED-ROOMED STAFF HOUSE TO KENYORO DISPENSARY**

ITEM	DESCRIPTION	QNTY	UNIT	RATE	AMOUNT
	<u>ELEMENT NO. 3</u>				
	<u>WALLING</u>				
	Fired clay bricks on the vertical and horizontally raked, dressed and rubbed in various course sizes and approved pattern and shape bedded and jointed in cement and sand mortar mix 1:4 reinforced with 25x2mm hoop iron every alternate course				
A	150 mm thick ditto external walling including	121	SM		
B	150mm thick ditto internal walling	98	SM		
	<b>Total for Element No. 3 (Walling) to Summary</b>				

**PROPOSED TYPICAL TWO BED-ROOMED STAFF HOUSE TO KENYORO DISPENSARY**

ITEM	DESCRIPTION	QNTY	UNIT	RATE	AMOUNT
	<u>ELEMENT NO. 4</u>				
	<u>ROOFING AND RAIN WATER DISPOSALS</u>				
	<u>Trusses</u>				
	<u>The following in timber trusses rising approximately 2.7m above ground level</u>				
A	100 x 50 mm rafters.	174	LM		
B	100 x 50 mm ties and struts.	146	LM		
	<u>Roofing</u>				
	Sawn cypress treated as described in trusses including templates, fillets, nailing , straps, splices and hoisting 2.70 metres above ground level and with a moisture content not exceeding 12%				
C	100 x 50 mm Wall plate.	54	LM		
D	75 X 50 mm Purlins	220	LM		
	<u>Roof covering</u>				
F	30Gauge prepainted GCI sheet roofing as IT5/BP950 Profiled Sheets 906mm wide (857mm effective cover)	146	SM		
G	Ditto; ridge cover	28	LM		
H	200x25mm wrot cypress verge board	56	LM		
	Carried to collection				

**PROPOSED TYPICAL TWO BED-ROOMED STAFF HOUSE TO KENYORO DISPENSARY**

ITEM	DESCRIPTION	QNTY	UNIT	RATE	AMOUNT
	<u>ELEMENT NO. 4 Cont'd</u>				
	<u>Testing</u>				
A	Allow for testing the whole of the rainwater disposal installation to the satisfaction of the Architect and for replacing any defective work		ITEM		
	-				
	75mm diameter PVC heavy gauge down pipes jointed with mastic and fixed to walls with brackets to BS1091				
B	Ditto grey down pipes	9	LM		
C	200mm diameter PVC gutters	28	LM		
D	Ditto Gutter droppers	2	NO.		
E	Ditto gutter connectors	4	NO		
F	Ditto gutter clips	36	NO		
G	Ditto end covers	6	NO		
H	Ditto conner joint	2	NO		
	Total carried to collection				
	<u>COLLECTION</u>				
	Brought forward from GH/6				
	Brought forward from above				
	<b>Total for Element No. 4 to Summary</b>				



**PROPOSED TYPICAL TWO BED-ROOMED STAFF HOUSE TO KENYORO DISPENSARY**

ITEM	DESCRIPTION	QNTY	UNIT	RATE	AMOUNT
	<u>ELEMENT NO. 5</u>				
	<u>DOORS.</u>				
	<u>External Doors</u>				
A	Double swinging double leaf steel door overall size 1050 x 2100mm high comprising of opening and closing accessories	1	NO		
B	Single swinging single leaf steel door overall size 900 x 2100mm high comprising of opening and closing accessories	1	NO		
C	40mm thick single swinging single leaf solid core flush door type D02 overall size 900 x 2100mm high comprising of leaf size 800 x 2100	4	NO		
	<u>The following in wrot mahogany.</u>				
D	100 X 50 mm hardwood door frame with one labour.	24	LM		
E	40 x 25 mm hardwood architrave with one	24	LM		
F	25 mm quadrant.	24	LM		
	<u>Ironmongery.</u>				
	<u>Supply and fix the following to wood with matching screws.</u>				
G	Ditto; Two lever.	4	NO		
H	38 mm rubber door stop fixed with rawl bolt.	4	NO		
J	100 mm pressed steel butt hinges.	6	Prs		
	<u>Prepare and apply one coat of aluminium wood primer</u>				
K	back of wood before fixing not exceeding 100 mm	24	LM		
L	Ditto to door surfaces	16	SM		
M	Prepare and apply to coats of polyurethane clear varnish to timber general surfaces	16	SM		
N	Ditto; not exceeding 100 mm girth.	24	LM		
	<b>Total carried to summary page</b>				

**PROPOSED TYPICAL TWO BED-ROOMED STAFF HOUSE TO KENYORO DISPENSARY**

ITEM	DESCRIPTION	QNTY	UNIT	RATE	AMOUNT
	<u>ELEMENT NO. 6</u> <u>WINDOWS.</u>				
	<u>Metal Windows.</u> <u>Supply and Fix the following purpose-made Mild Steel vertically hung casement finished with one coat red oxide primer complete with opening accessories including cutting and fixing lugs and pointing all round in cement mortar class 1:6 with vertically pivoted sashes as described;</u>				
A	1200 x 1200 mm high window with 2 No. openable casements.	4	NO		
B	1000 x 1200 mm high window with 2No openable casements .	1	NO		
D	600 x 600 mm high window with 1No openable casement .	1	NO		
	<u>Glazing</u>				
E	4 mm thick clear sheet glass and glazing in panes 0.1 - 1.0 SM with approved metal putty.	9	SM		
F	4 mm thick clear sheet glass and glazing in panes 0.1 - 1.0 SM with approved metal putty.	1	SM		
G	150 x 50 x 25 mm thick concrete window cill to	11	LM		
	125 x 125 x 15mm precast concrete permant vents	22	NO		
	<b>Total for Element No 6 Windows Carried to</b>				

**PROPOSED TYPICAL TWO BED-ROOMED STAFF HOUSE TO KENYORO DISPENSARY**

ITEM	DESCRIPTION	QNTY	UNIT	RATE	AMOUNT
	<u>ELEMENT NO. 7</u>				
	<u>FINISHES</u>				
	<u>EXTERNAL FINISHES.</u>				
	<u>Wall Finishes</u>				
A	Horizontal keying and pointing to fired clay bricks external wall surfaces	121	SM		
	<u>Floor Finish</u>				
B	50mm thick paving slabs	32	SM		
C	50mm thick quarry dust blinding to receive paving blocks	32	SM		
	<u>Eaves Detail</u>				
D	200 x 25mm thick Fascia board	55	LM		
	<b>Total for Element No.7 Carried to Summary</b>				

**PROPOSED TYPICAL TWO BED-ROOMED STAFF HOUSE TO KENYORO DISPENSARY**

ITEM	DESCRIPTION	QNTY	UNIT	RATE	AMOUNT
	ELEMENT NO. 8				
	<u>INTERNAL FINISHES.</u>				
	<u>Floor finishes.</u>				
A	32 mm thick cement and sand (1:4) bedding screed bedded and water proofed with cement grout	59	SM		
B	Extra over screed paving for 100mm high skirting	106	LM		
	<u>Wall finishes.</u>				
	Lime plaster, 15mm thick (1:2:9)				
C	12 mm thick cement and sand plaster 1:4; steel trowelled to receive wall paint (m/s)	261	SM		
	<b>Total for Element No.8 Carried to Summary</b>				

**PROPOSED TYPICAL TWO BED-ROOMED STAFF HOUSE TO KENYORO DISPENSARY**

ITEM	DESCRIPTION	QNTY	UNIT	RATE	AMOUNT
	<p><u>ELEMENT NO. 9:</u></p> <p><u>BUILDER'S WORKS</u></p> <p>In connection to Mechanical works</p> <p>Builder's work in connection with Electrical Work and making good for small pipe in: - [All Provisional]</p> <p>Cut for and attend in all trades on the Sub-Contractor installing the following points in a mainly concealed system, including chases, holes and recesses, notching timber, etc, and making good all finishes</p>				
A	Power distribution boards	1	No.		
B	Lighting points with associated switches	8	No.		
C	Socket outlet points	6	No.		
	Total for Element No.9 Carried to Summary.				

**PROPOSED TYPICAL TWO BED-ROOMED STAFF HOUSE TO KENYORO DISPENSARY**

ITEM	DESCRIPTION				AMOUNT
	<u>BILL SUMMARY</u>				
1	SUBSTRUCTURE				
2	REINFORCED CONCRETE STRUCTURE				
3	WALLING				
4	ROOF CONSTRUCTION				
<b>GRAND TOTAL</b>					

ITEM	DESCRIPTION	Tenderer's Amount Kshs.	Official Use Only Kshs.
	GRAND SUMMARY		
1	Preliminaries General and Particular		
2	Builders work		
3	provisional sums		
	GRAND TOTAL		

Amount in words : .....

.....

Tenderer's signature and stamp.....

.....

Address .....

Date : .....

Witness's name : .....

Signature.....

Address.....

Date : .....

KISumu COUNTY GOVERNMENT  
CHIEF OFFICER  
ROADS, PUBLIC WORKS & TRANSPORT

15 FEB 2017

KISumu COUNTY GOVERNMENT  
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