



NAROK COUNTY GOVERNMENT
OPEN TENDER (RESERVED FOR WOMEN)

**STRATEGIC INTEGRATED WARD DEVELOPMENT PROGRAMME
FOR NAROK COUNTY.**

**PROPOSED CONSTRUCTION OF SUB COUNTY AND WARD
OFFICES**

TENDER NO: NCG/OT/044/2022-2023

TENDER CLOSING DATE 18-01-2023 AT 11:00 AM

**DEPARTMENT OF PUBLIC
SERVICE MANAGEMENT**
**NAROK COUNTY
GOVERNMENT, P.O. BOX 898–
20500, NAROK.**

**THE GOVERNOR,
NAROK COUNTY
GOVERNMENT, P.O. BOX 898–
20500, NAROK.**

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**BILLS OF QUANTITIES FOR: PROPOSED
CONSTRUCTION OF SUB COUNTY AND
WARD OFFICES**

**TENDER NO: NCG/OT/044/2022-
2023**

PREAMBLES AND PRICING NOTES

A. GENERALLY

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

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 Public Works "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 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 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 manufacture, he must inform the Project Manager and obtain approval in writing.

C. STRUCTURAL STEELWORK

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

A. PLASTERWORK AND OTHER FINISHES

All finishings shall be as described in the general specifications and in these Bills of Quantities.

Prices for pavings are to include for brushing concrete clean, wetting and coating with cement and sand grout 1:1.

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.

B. GLAZING

Where polished plate glass is specified, this refers to general glazing quality.

Prices for glazing shall include for priming of rebates before placing putty.

The Contractor will be responsible for replacing any broken or scratched glass and handing over in perfect condition.

C. PAINTING

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 mordant solution as necessary.

DESCRIPTION	AMOUNT
<p>PRICING ITEMS OF PRELIMINARIES Prices SHALL BE INSERTED against items of “preliminaries” in the tenderer’s priced Bills of Quantities. The Contractor is advised to read and understand all preliminary items.</p> <p>DESCRIPTION OF THE WORKS The works consist of Ward based development projects as stated in the introduction.</p> <p>SCOPE OF WORKS The works to be carried out under this contract comprises builder's work and associated civil works</p> <p>MEASUREMENTS In the event of any discrepancies arising between the Bills of Quantities and the actual works, the site measurements shall generally take precedence. However, such discrepancies between any contract documents shall immediately be referred to the PROJECT MANAGER . The discrepancies shall then be treated as a variation and be dealt with in accordance with the Conditions of Contract..</p> <p>LOCATION OF SITE The site of the proposed works is at the various wards within Narok County The Contractor is advised to visit the site, to familiarize with the nature and position of the site. Claims arising from the Contractor’s failure to do so will NOT be entertained.</p> <p>PAYMENTS The Tenderers’ attention is drawn to the fact that the GOVERNMENT OF KENYA MAKES NO ADVANCE PAYMENTS, pays for work done and materials delivered to site: all in accordance with the Conditions of Contract agreement. In order to facilitate this, a list of the general component elements for the works is given in the summary page of these specifications and the Tenderer is requested to break down his tender sum commensurate to the said elements</p> <p>PREVENTION OF ACCIDENT, DAMAGE OR LOSS The Contractor is notified that these works are to be carried out on a restricted site where the client is going on with other normal activities. The Contractor is instructed to take reasonable care in the execution of the works as to prevent accidents, damage or loss and disruption of normal activities being carried out by the Client. The Contractor shall allow in his rates any expense he deems necessary by taking such care within the site.</p> <p>WORKING CONDITIONS The Contractor shall allow in his rates for any interference that he may encounter in the course of execution of the works for the Client may in some cases ask the Contractor not to proceed with the works until some activities within the site are completed, as the residents will be occupying the premises as usual during the course of the contract.</p>	
Carried to collection	

DESCRIPTION	AMOUNT
<p>SIGNBOARD Allow for providing, erecting, maintaining throughout the course of the Contract and afterwards clearing away a signboard as designed, specified and approved by the Project Manager.</p> <p>LABOUR CAMPS The Contractor shall not be allowed to house labour on site. Allow for transporting workers to and from the site during the tenure of the contract.</p> <p>CLAIMS It shall be a condition of this contract that upon it becoming reasonably apparent to the Contractor that he has incurred losses and/or expenses due to any of the contract conditions, or by any other reason whatsoever, he shall present such claim or intent to claim notice to the PROJECT MANAGER within the contract period. No claims shall be entertained upon the expiry of the said contract period.</p> <p>MATERIALS FROM DEMOLITIONS Any materials arising from demolitions and not re-used shall become the property of the Narok County Government.</p> <p>PRICING RATES The tenderer shall include for all costs in executing the whole of the works, including transport, replacing damaged items, fixing, all to comply with the Conditions of Contract.</p> <p>BID SECURITY The tenderer shall furnish, as part of his bid, a bid security in the sum prescribed. The bid security shall, at the tenderer's option be in the form of a certified Cheque, Bank draft, stand by Letter of Credit or Guarantee from an approved bank/insurance co. located in Kenya or a foreign bank that has been determined to be acceptable to the government of Kenya. The format of the bank guarantee shall be in accordance with one of the sample forms of bid security included in the post qualification. Other formats may be permitted subject to prior approval of the government Letters of Credit, bank guarantee issued, as security for bid shall be valid for 30 days beyond the validity of the bid.</p> <p>URGENCY OF THE WORKS The Contractor is notified that these "Works are Urgent" and should be completed within the period state in these Particular Preliminaries. The Contractor shall allow in his rates for any costs he deems that he/she may incur by having to complete the works within the stipulated contract period.</p> <p>PAYMENT FOR MATERIALS ON SITE All materials for incorporation in the works must be stored on site before payment is effected, unless specifically exempted by the Project Manager. This is to include materials of the Contractor, nominated sub-Contractors and nominated suppliers.</p>	
Carried to collection	

DESCRIPTION	AMOUNT
<u>Collection</u> <i>Brought forward from P.P/1</i> <i>Brought forward from P.P/2</i> <i>Brought forward from P.P/3</i>	
TOTAL FOR PARTICULAR PRELIMINARIES CARRIED TO THE MAIN SUMMARY	

ITEM	DESCRIPTION	AMOUNT
	<p style="text-align: center;">GENERAL PRELIMINARIES</p> <p>A PRICING OF ITEMS OF PRELIMINARIES AND PREAMBLES</p> <p>Prices will be inserted against items of Preliminaries in the Contractor's priced Bills of Quantities and Specification.</p> <p>The Contractor shall be deemed to have included in his prices or rates for the various items in the Bills of Quantities or Specification for all costs involved in complying with all the requirements for the proper execution of the whole of the works in the Contract.</p> <p>B ABBREVIATIONS</p> <p>Throughout these Bills, units of measurement and terms are abbreviated and shall be interpreted as follows:-</p> <p>C.M. Shall mean cubic metre</p> <p>S.M. Shall mean square metre</p> <p>L.M. Shall mean linear metre</p> <p>MM Shall mean Millimetre</p> <p>Kg. Shall mean Kilogramme</p> <p>No. Shall mean Number</p> <p>Prs. Shall mean Pairs</p> <p>B.S. Shall mean the British Standard Specification Published by the British Standards Institution, 2 Park Street, London W.I., England.</p> <p>Ditto Shall mean the whole of the preceding description except as qualified in the description in which it occurs.</p> <p>m.s. Shall mean measured separately.</p> <p>a.b.d Shall mean as before described.</p>	
	Carried to collection	

ITEM	DESCRIPTION	AMOUNT
A.	<p>EXCEPTION TO THE STANDARD METHOD OF MEASUREMENT</p> <p><i>Attendance</i> ; Clause B19(a) of the Standard Method of Measurement is deleted and the following clause is substituted:- Attendance on nominated Sub-Contractors shall be given as an item in each case shall be deemed to include: allowing use of standing scaffolding, mess rooms, sanitary accommodation and welfare facilities; provision of special scaffolding where necessary; providing space for office accommodation and for storage of plant and materials; providing light and water for their work: clearing away rubbish; unloading checking and hoisting: providing electric power and removing and replacing duct covers, pipe casings and the like necessary for the execution and testing of Sub- Contractors' work and being responsible for the accuracy of the same.</p> <p><i>Fix Only</i>:-</p> <p>Fix Only shall mean take delivery at nearest station (Unless otherwise stated), pay all demurrage charges, load and transport to site where necessary, unload, store, unpack, assemble as necessary, distribute to position, hoist and fix only.</p>	
B	<p>EMPLOYER</p> <p>The term "Employer" and "Narok County Government" wherever used in the contract document shall be synonymous</p>	
C	<p>PROJECT MANAGER</p> <p>The term "P.M." wherever used in these Bills of Quantities shall be deemed to imply the Project Manager as defined in Condition 1 of the Conditions of Contract or such person or persons as may be duly authorised to represent him on behalf of the Government. In this project the PM is the Director -Department of Public Works - Narok County. P.O. Box 898-20500 NAROK</p>	
D	<p>ARCHITECT</p> <p>The term "Architect" shall be deemed to mean "The Project Architect." whose address unless otherwise notified is the Department of Public Works -Narok County P.O. Box 898-20500 NAROK</p>	
E	<p>QUANTITY SURVEYOR</p> <p>The term "Quantity Surveyor" shall be deemed to mean "The Project Quantity Surveyor" whose address unless otherwise notified is Department of Public works -Narok County P.O. Box 898-20500, NAROK.</p>	
F	<p>ELECTRICAL ENGINEER</p> <p>The term "Electrical Engineer" shall be deemed to mean "The Project Electrical Engineer." whose address unless otherwise notified is Department of Public works -Narok County P.O. Box 898-20500, NAROK.</p>	
G	<p>MECHANICAL ENGINEER</p> <p>The term "Mechanical Engineer" shall be deemed to mean "The Project Mechanical Engineer" whose address unless otherwise notified is Department of Public Works -Narok County P.O. Box 898-20500, NAROK.</p>	
	Carried to collection	

ITEM	DESCRIPTION	AMOUNT
A	<p>STRUCTURAL ENGINEER Engineer." whose address unless otherwise notified is Department of Public works -Narok County P.O. Box 898-20500, NAROK.</p>	
B	<p>FORM OF CONTRACT The Form of Contract shall be as stipulated in the Conditions of Contract The Conditions of Contract are also included herein</p> <p>Particulars of insertions to be made in the Appendix to the Contract Agreement will be found in the Particular Preliminaries part of these Bills of Quantities</p>	
C	<p>OCCUPATIONAL HEALTH AND SAFETY</p> <p>Allow a Sum for Occupational health and safety measures.</p>	
D	<p>PLANT, TOOLS AND VEHICLES</p> <p>Allow for providing all scaffolding, plant, tools and vehicles required for the works except in so far as may be stated otherwise herein and except for such items specifically and only required for the use of nominated Sub-Contractors as described herein. No timber used for scaffolding, formwork or temporary works of any kind shall be used afterwards in the permanent work.</p>	
E	<p>TRANSPORT.</p> <p>Allow for transport of workmen, materials, etc., to and from the site at such hours and by such routes as may be permitted by the competent authorities.</p>	
F	<p>MATERIALS AND WORKMANSHIP.</p> <p>All materials and workmanship used in the execution of the work shall be of the best quality and description unless otherwise stated. The Contractor shall order all materials to be obtained from overseas immediately after the Contract is signed and shall also order materials to be obtained from local sources as early as necessary to ensure that they are onsite when required for use in the works. The Bills of Quantities shall not be used for the purpose of ordering materials.</p>	
G	<p>SIGN FOR MATERIALS SUPPLIED.</p> <p>The Contractor will be required to sign a receipt for all articles and materials supplied by the PROJECT MANAGER at the time of taking deliver thereof, as having received them in good order and condition, and will thereafter be responsible for any loss or damage and for replacements of any such loss or damage with articles and/or materials which will be supplied by the PROJECT MANAGER at the current market prices including Customs Duty and V.A.T., all at the Contractor's own cost and expense, to the satisfaction of the PROJECT MANAGER</p>	
H	<p>STORAGE OF MATERIALS</p> <p>The Contractor shall provide at his own risk and cost where directed on the site weather proof lock-up sheds and make good damaged or disturbed surfaces upon completion to the satisfaction of the PROJECT MANAGER Nominated Sub-Contractors are to be made liable for the cost of any storage accommodation provided especially for their use.</p>	
	Carried to collection	

ITEM	DESCRIPTION	AMOUNT
	<p><u>COLLECTION</u></p> <p><i>Brought forward from G.P/1</i></p> <p><i>Brought forward from G.P/2</i></p> <p><i>Brought forward from G.P/3</i></p>	
	<p>TOTAL FOR GENERAL PRELIMINARIES CARRIED TO THE MAIN SUMMARY</p>	

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT (Kshs)
	<u>ELEMENT NO. 1</u>				
	<u>SUBSTRUCTURES</u>				
	<u>Site clearance</u>				
A	Clearing site of all bushes, shrubs, undergrowth and the like; small trees not exceeding 600mm girth; disposing arisings	SM	310		
	<u>Excavations</u>				
B	Excavating oversite to reduce levels commencing from ground level not exceeding 1.50m deep	CM	140		
C	Excavating trenches in normal soil to receive foundations not exceeding 1.50m deep starting from reduced level	CM	148		
D	Excavate for column bases not exceeding 1500 mm deep commencing from reduced level	CM	14		
E	Extra over all excavations and earthworks for breaking up hard rock where encountered	CM	5		
F	Plank and strut to uphold sides of excavations: keep excavations free from all fallen material	Item			
G	Keep excavations free from ground and surface water	Item			
H	Load and cart away surplus excavated material from site	CM	64		
I	Return, fill and ram excavated material around foundations	CM	98		
	<u>Hardcore filling</u>				
J	300mm thick natural stone hardcore or other approved inert material: well watered and compacted in 150 mm thick (maximum) layers	SM	178		
	<u>Hardcore blinding</u>				
K	50 mm Thick approved quality murrum blinding to surfaces of hardcore	SM	178		
	<u>Polythene underlay</u>				
L	Gauge 1000 polythene underlay laid on hardcore blinding	SM	178		
	<u>Antitermite treatment</u>				
M	"Termidor" anti-termite chemical treatment: applied by Insecta ltd. or other approved professional pest control specialist: applied strictly in accordance with the manufacturer's instructions: 10 year guarantee	SM	178		

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT (Kshs)
	<u>Carried to collection</u>				
	<u>50 mm thick mass concrete (1:4:8) in:-</u>				
A	Blinding under strip foundation	SM	100		
B	Ditto under column bases	SM	12		
	<u>In situ reinforced concrete class 20/20: vibrated: in</u>				
C	Strip foundation	CM	20		
D	Ditto in column bases	CM	4		
E	Ditto in columns	CM	2		
G	Ditto but 150 mm thick floor slab	SM	210		
H	750 mm (top) x 500 mm (bottom) x 125 mm thick slab thickening	LM	4		
	<u>Sawn formwork to:-</u>				
I	Sides: strip foundation	SM	66		
J	Sides: Column bases	SM	8		
K	Sides: Columns	SM	8		
L	Edges: slabs over 75 but not exceeding 150 mm girth	LM	102		
	<u>Reinforcement</u>				
	<u>High tensile square twisted steel bars to B.S. 4441</u>				
M	Assorted Bars	Kg	108		
	<u>Mesh fabric reinforcement ref. A-142 to B.S 4483 and setting in concrete with 300mm side and end laps (measured nett - allow for laps).</u>				
N	Fabric ref. A-142 weighing 2.22kg/ sq.metre,in surface bed.	SM	210		

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT (Kshs)
Carried to collection					
A	<p><u>Approved natural stonework; roughly squared; bedded in cement mortar (1:4); 25 mm wide x 20 Gauge hoop iron strapping every alternate course</u></p> <p>200mm thick foundation walls</p>	SM	198		
Carried to collection					
<p><u>Collection</u></p> <p>From page 1</p> <p>From page 2</p> <p>From page 3</p>					

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT (Kshs)
TOTAL FOR SUBSTRUCTURES CARRIED TO SUMMARY					
	<u>ELEMENT No. 2</u>				
	<u>REINFORCED CONCRETE WORKS</u>				
	<u>In situ reinforced concrete class 20/20: vibrated: in</u>				
A	Ring beams	CM	10		
B	Columns	CM	2		
	<u>Reinforcement (Provisional)</u>				
	<u>High tensile, square twisted bar reinforcement to BS 4461</u>				
C	Assorted bars	Kgs.	762		
	<u>Sawn formwork as described to:-</u>				
D	Sides and soffites of beams	SM	86		
E	Sides: Columns	SM	22		

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT (Kshs)
TOTAL FOR REINFORCED CONCRETE WORKS CARRIED TO SUMMARY					
	<u>ELEMENT No. 3</u>				
	<u>EXTERNAL WALLS</u>				
	<u>Chisel dressed natural stone jointed and bedded in cement and sand mortar (1:4) as described in:-</u>				
A	200mm thick walls with and including 25x3mm thick hoop iron strips every alternate course.	SM	222		
	<u>Dump proof course</u>				
B	200mm wide "Pluvex" or other equal and approved dumproof course laid and bedded in and including cement and sand mortar (1:4)	LM	102		

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT (Kshs)
TOTAL FOR EXTERNAL WALLS CARRIED TO SUMMARY					
	<u>ELEMENT No. 4</u>				
	<u>INTERNAL WALLS</u>				
	<u>Fine Chisel dressed natural stone jointed and bedded in cement and sand mortar (1:4) as described in :-</u>				
A	200mm thick walls with and including 25x3mm thick hoop iron strips every alternate course.	SM	156		
	<u>Dump proof course</u>				
B	200mm wide "Pluvex" or other equal and approved dumproof course laid and bedded in and including cement and sand mortar (1:4)	LM	64		

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT (Kshs)
TOTAL FOR INTERNAL WALLS CARRIED TO SUMMARY					
<u>ELEMENT No. 5 - ROOF (ALL PROVISIONAL)</u>					
<u>ROOF STRUCTURE</u>					
<u>All in sawn cypress: second grade: clean: treated with approved wood preservative: including jointing and connections as necessary</u>					
<u>The following in Trusses</u>					
<u>T1 - 18 No.</u>					
A	50 x 150 mm Rafter	LM	196		
B	Ditto: ceiling joist	LM	160		
C	100x50mm: struts and ties	LM	296		
<u>T2 - 8 No.</u>					
D	150 x 50 mm Rafter	LM	96		
E	Ditto: ceiling joist	LM	88		
F	100x50mm: struts and ties	LM	164		

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT (Kshs)
Carried to collection					
<p><u>Common Members</u></p> <p>A 150 x 50 mm Intermediate rafters LM 156</p> <p>B Ditto hip rafter LM 24</p> <p>C Ditto valley rafter LM 14</p> <p>D 50 x 38 mm battens LM 214</p> <p>E 200x50mm: ridge board LM 42</p> <p>F 100 x 50 mm Wall plate: fixed to concrete or masonry with approved bolts at 1000 mm centres LM 164</p>					

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT (Kshs)
Carried to collection					
<u>ROOF COVERING</u>					
<u>IT5 Profiled sheets 26 Gauge; in accordance with the manufacturer's printed instructions</u>					
A	Roof coverings	SM	232		
B	Angle ridge overall girth 660 mm tapered length wise	LM	42		
C	Ditto but hip capping	LM	24		
D	350 mm Girth valley capping	LM	14		
<u>RAINWATER GOODS</u>					
<u>26 gauge, galvanised iron sheet with one coat red oxide primer before fixing as described in:</u>					
F	150 x 200 mm box gutter, fixed to timber fascia (m.s.) with approved straps	LM	112		
G	Extra over ditto for 100 mm diameter nozzle outlet.	NO	4		
H	Ditto, but for stopped ends	NO	8		
I	Ditto, but for bends	NO	4		
J	100 mm diameter rain water down pipe fixed to masonry with approved holderbats	LM	14		
K	Extra over ditto for swan-neck	NO	4		
L	Ditto, but for shoe	NO	4		

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT (Kshs)
Carried to collection					
	<u>EAVES FINISHES</u>				
	<u>Wrot cypress: prime grade</u>				
A	200 x 25 mm Fascia/barge board	LM	110		
	<u>vista Ceiling:</u>				
	<u>Profiled UPVC plastic ceilings as 'Vista' manufactured by Vista Windows Ltd or other equal and approved fixed with and including supporting framework and beading as per the Manufacturer's printed instructions in:</u>				
B	T & G ceilings: wood grain pattern to eaves soffites laid flat	SM	66		
C	Vista' cornice strip as described	LM	220		
	<u>Prepare and apply three coats gloss oil paint on:-</u>				
D	Surfaces of woodwork, 200 - 300 mm girth externally	LM	220		
E	External metal surfaces of large pipe	LM	14		
F	General metal surfaces of gutters	SM	56		
Carried to collection					
	<u>Collection</u>				
	From page 7				
	From page 8				
	From page 9				
	From Above				

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT (Kshs)
TOTAL FOR ROOFING CARRIED TO SUMMARY					
	<u>ELEMENT NO. 6</u>				
	<u>WINDOWS</u>				
	<u>Approved red clay tile cill: bedded and jointed in cement (sand (1:3) mortar: pointed in matching coloured cement</u>				
A	150 x 100 x 25 mm Thick cill	LM	58		
	<u>Wrot cypress: prime grade</u>				
B	150 x 25 mm Thick window board: plugged	LM	58		
C	15mm diameter quadrant beading plugged	LM	58		
	<u>Casements</u>				
	<u>Steel casement windows purpose made primed steel complete in opening and fixed lights complete with fasteners and stays ;steel lugs built into stone work and complete with burglar proofing in 15 mm diamond patten solid bars to architects approval.</u>				
D	Window size 2400 x 1400 mm high	No.	16		
E	Ditto 1500 x 1400 mm	No.	4		
F	Ditto 1200 x 1400 mm	No.	8		
G	Ditto 1000 x 1400 mm	No.	6		
H	Ditto 800 x 1000 mm	No.	10		

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT (Kshs)
Carried to collection					
	<u>Glazing</u>				
A	4 mm thick clear sheet glass and glazing to metal with metallic putty in different panes	SM	64		
B	Ditto obscure glass	SM	8		
	<u>Painting</u>				
C	Prepare and apply three coats of gloss oil paint to metal surfaces of windows externally	SM	72		
D	Ditto internally	SM	72		
	<u>Prepare and apply one coat of aluminium wood primer on timber surfaces in contact with concrete or masonry</u>				
E	Over 100 but not exceeding 200 mm girth: window board	LM	58		
	<u>Prepare surfaces: apply three coats gloss oil paint on wood: to surfaces</u>				
F	Over 100 but not exceeding 200 mm girth: window board	LM	58		
	<u>Curtain Rods</u>				
G	20/15 mm Nominal diameter medium duty black pipe twin draper rods complete with 12 mm thick ring hooks at 150 centre and balloon end finials on matching mild steel support brackets, including approved tie-backs, one coat red oxide primer, one undercoat and one finishing coat gloss oil paint (39 No. pairs)	LM	60		
Carried to collection					
	<u>Collection</u>				
	From page 12				
	From above				

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT (Kshs)
TOTAL FOR WINDOWS CARRIED TO SUMMARY					
	<u>ELEMENT No. 7</u>				
	<u>EXTERNAL DOORS</u>				
	<u>Supply, assemble and fix the following purpose made welded steel casement doors complete with all necessary ironmongery, handles, lever or finger pulls and pins: and building lugs to jambs and reveals, bedding frames in</u>				
A	<u>waterproof cement mortar, including priming with one coat of red oxide primer, including all necessary coupling mullions, transomes and clear glazed fanlight over and jointing in approved mastic externally and afterward easing and oiling and adjusting opening lights on completion</u>				
B	Single leaf door overall size, 900 x 2400 mm high comprising 60 x 38 mm top and bottom rails, divided by 1 No. transome into: top fanlight size 900 x 300 mm high further divided by 2 No. mullions into panels size 750 x 300 mm high; partly glazed with and including 6 mm thick toughened sheet glass	NO	4		
	<u>Glazing</u>				
E	6mm Thick clear sheet glass and glazing to metal in panes exceeding 0.10sm but not exceeding 0.5sm	SM	2		
	<u>Prepare surfaces and apply one undercoat and two finishing coats of gloss oil paint on:</u>				
F	General glazed metal surfaces	SM	10		

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT (Kshs)
TOTAL FOR EXTERNAL DOORS CARRIED TO SUMMARY					
	<u>ELEMENT No. 8</u>				
	<u>INTERNAL DOORS</u>				
	<u>Solid Cored flush door: mahogany lipped edges: mahogany veneered both sides</u>				
A	45mm thick door overall size 820 x 2060 mm high .	No.	16		
	<u>Prime grade wrot mahogany</u>				
C	200 x 50 mm Door frame: rebated: plugged	LM	82		
D	200 x 50 mm Transome; twice rebated	LM	16		
E	40 x 20 mm Architrave: splayed	LM	82		
F	15 mm Quadrant	LM	82		
	<u>Ironmongery</u>				
G	150mm brass butt hinges	Prs	24		
H	Two lever mortice lock set complete with handle furniture	No.	16		
I	Dowels	No.	16		
J	Fixing lugs	No.	48		
K	38mm rubber door stops as described	No.	16		
	<u>Glazing</u>				
L	5 mm thick clear sheet glass and glazing to timber with glazing beads (m.s.)	SM	6		
	<u>Painting</u>				
M	Prepare and apply three coats of clear varnish to timber surfaces	SM	150		
N	Ditto 100 - 200mm girth	LM	82		
O	Ditto but not exceeding 100mm girth	LM	164		

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT (Kshs)
TOTAL FOR INTERNAL DOORS CARRIED TO SUMMARY					
<u>ELEMENT NO. 10 - WALL FINISHES</u>					
<u>EXTERNAL</u>					
<u>Key pointing</u>					
A	Extra over walling for horizontal recessed and flush vertical key pointed joints in cement and sand (1:4) mortar.	SM	222		
<u>INTERNAL</u>					
<u>Gauged plaster 1:1:9 as described to:</u>					
D	Walls and concrete surfaces internally	SM	380		
<u>Cement and sand 1:4 as described to:</u>					
E	10mm thick backing to receive wall tiles (ms)	SM	154		
<u>Coloured and glazed ceramic wall tiles</u>					
F	150x150x6mm thick wall tiles as SAJ or other equal and approved complete with cement grouting to joints to match.	SM	154		
<u>Paintwork</u>					
G	Prepare and apply three coats plastic emulsion paint to plastered surfaces.	SM	380		

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT (Kshs)
TOTAL FOR WALL FINISHES CARRIED TO SUMMARY					
	<u>ELEMENT No. 11</u>				
	<u>FLOOR FINISHES</u>				
	<u>Woodfloat cement and sand screed (1:4) in:</u>				
A	32 mm to receive ceramic tiles	SM	210		
	<u>Coloured Non-slip ceramic floor tiles</u>				
B	8 mm thick non slip floor tiles as SAJ or other equal and approved fixed with and including cement slurry	SM	210		
C	100 x 20 mm thick skirting	LM	188		
TOTAL FOR FLOOR & STAIRCASE FINISHES CARRIED TO SUMMARY					
	<u>ELEMENT No. 12</u>				
	<u>CEILING FINISHES</u>				
	<u>12 mm thick Celotex softboard lining or other equal including brandering and approved in:-</u>				
D	Horizontal ceiling board fixed to timber brandering (m.s.)	SM	178		
E	75 x 25mm wrot cypress cornice	LM	188		
	<u>Prepare and apply two undercoats and one gloss finishing coat eggshell paint on wood surfaces</u>				
F	Horizontal ceilings internally	SM	178		
G	Surfaces over 100mm but not exceeding 200mm girth	LM	188		

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT (Kshs)
	<u>SUMMARY</u>				
1	SUBSTRUCTURES				
2	REINFORCED CONCRETE WORKS				
3	EXTERNAL WALLS				
4	INTERNAL WALLS				
5	ROOFING				
6	WINDOWS				
7	EXTERNAL DOORS				
8	INTERNAL DOORS				
10	WALL FINISHES				
11	FLOOR & STAIRCASE FINISHES				
12	CEILING FINISHES				
TOTAL CARRIED TO GRAND SUMMARY					

ITEM	DESCRIPTION	UNI	QTY	RATE	AMOUNT (Kshs)
	<u>ELEMENT NO. 1</u>				
	<u>SUBSTRUCTURES (ALL PROVISIONAL)</u>				
	<u>Site clearance</u>				
A	Clearing site of all bushes, shrubs, undergrowth and the like; small trees not exceeding 600mm girth; disposing arisings	SM	9		
	<u>Excavations</u>				
B	Excavating trenches in normal soil to receive foundations not exceeding 1.50m deep starting from reduced level	CM	6		
C	Ditto; but pit starting from reduced level	CM	6		
D	Ditto; depth over 1.5m but n.e 3.0m	CM	6		
E	Ditto; depth over 3.0m but n.e 4.5m	CM	6		
F	Ditto; depth over 4.5m but n.e 6.0m	CM	6		
G	Ditto; depth over 6.0m but n.e 7.5m	CM	6		
H	Ditto; depth over 7.5m but n.e 9.0m	CM	6		
I	Extra over all excavations and earthworks for breaking up hard rock where encountered	CM	6		
	Excavation including maintaining and supporting sides and keeping free from water, mud and fallen				
J	To reduce levels	CM	18		
K	Load and cart away surplus excavated material from site	CM	18		

ITEM	DESCRIPTION	UNI	QTY	RATE	AMOUNT (Kshs)
Carried to collection					
	<u>50 mm thick mass concrete (1:4:8) in:-</u>				
A	Blinding under strip foundation	SM	5		
	<u>In situ reinforced concrete class 20/20: vibrated: in</u>				
B	Strip foundation & Ground Beam	CM	1		
C	Ditto but 100mm thick floor slab	SM	6		
	<u>Sawn formwork to:-</u>				
D	Sides: strip foundation	SM	7		
E	Sides: Ground Beam	SM	15		
F	Edges: slabs over 75 but not exceeding 150 mm girth	LM	17		
	<u>Deformed mild steel reinforcement to B.S 4449 in structural concrete work including cutting, bending, hoisting, fixing, tying wire and spacer blocks (All Provisional)</u>				
G	Assorted Bars	Kgs.	68		
	<u>Mesh fabric reinforcement to B.S 4483 and setting in concrete with 300mm side and end laps (measured nett - allow for laps).</u>				
H	Fabric ref. A-142 weighing 0.54kg/ sq.metre, in surface bed.	SM	6		

ITEM	DESCRIPTION	UNI	QTY	RATE	AMOUNT (Kshs)
Carried to collection					
A	<p><u>Approved Taveta Blocks; roughly squared; bedded in cement mortar (1:4); 25 mm wide x 20 Gauge hoop iron strapping every alternate course</u></p> <p>200mm thick foundation walls</p>	SM	7		
Carried to collection					
	<p><u>Collection</u></p> <p>From page 1</p> <p>From page 2</p> <p>From page 3</p>				

ITEM	DESCRIPTION	UNI	QTY	RATE	AMOUNT (Kshs)
TOTAL FOR SUBSTRUCTURES CARRIED TO SUMMARY					
<u>ELEMENT No. 2 - REINFORCED CONCRETE</u>					
<u>In situ reinforced concrete class 20/20: vibrated: in</u>					
A	Beams	CM	1		
<u>Deformed mild steel reinforcement to B.S 4449 in structural concrete work including cutting, bending, hoisting, fixing, tying wire and spacer blocks (All Provisional)</u>					
B	Assorted Bars	Kgs.	8		
<u>Sawn formwork as described to:-</u>					
C	Sides and soffites of beams	SM	4		

ITEM	DESCRIPTION	UNI	QTY	RATE	AMOUNT (Kshs)
TOTAL FOR REINFORCED CONCRETE WORKS CARRIED TO SUMMARY					
	<u>ELEMENT No. 3</u>				
	<u>EXTERNAL WALLS</u>				
	<u>Approved Taveta Blocks bedded and jointed in cement and sand (1:3) mortar and reinforced with 25mm wide x 20 gauge hoop iron in alternate courses as described in:</u>				
A	200mm thick walls with and including 25x3mm thick hoop iron strips every alternate course.	SM	12		
	<u>Damp proof course</u>				
B	200mm wide "Pluvex" or other equal and approved damp-proof course laid and bedded in and including cement and sand mortar (1:4)	LM	6		
	<u>Precast Concrete Window Vents</u>				
C	200 mm thick	SM	2		

ITEM	DESCRIPTION	UNI	QTY	RATE	AMOUNT (Kshs)
	<p>TOTAL FOR EXTERNAL WALLS CARRIED TO SUMMARY</p>				
<p>A</p>	<p><u>ELEMENT No. 4</u></p> <p><u>INTERNAL WALLS</u></p> <p><u>Approved Machine cut stones bedded and jointed in cement and sand (1:3) mortar and reinforced with 25mm wide x 20 gauge hoop iron in alternate courses as described in:</u></p> <p>100mm thick walls with and including 25x3mm thick hoop iron strips every alternate course.</p>	<p>SM</p>	<p>6</p>		

ITEM	DESCRIPTION	UNI	QTY	RATE	AMOUNT (Kshs)
	TOTAL FOR INTERNAL WALLS CARRIED TO SUMMARY				
	<p><u>ELEMENT No. 5 - ROOF</u></p> <p><u>ROOF STRUCTURE</u></p> <p><u>All in sawn cypress: second grade: clean: pressure impregnated: including jointing and connections as necessary</u></p> <p><u>The following in Trusses</u></p> <p><u>The following in 4 No. trusses each size 1700mm clear span overall fabricated and jointed to the Structural Engineer's details, including hoisting and placing in position approximately 2.80 metres above ground level</u></p> <p>A 100 x 50mm rafter LM 7</p> <p><u>Common Members</u></p> <p>B 75 x 50 mm purlins LM 9</p> <p>C 100 x 50 mm Wall plate: fixed to concrete or masonry with approved bolts at 1000 mm centres LM 8</p> <p><u>ROOF COVERING</u></p>				

ITEM	DESCRIPTION	UNI	QTY	RATE	AMOUNT (Kshs)
D	<p><u>Supply and fix corrugated sheets GCI 28 Gauge; in accordance with the manufacturer's printed instructions</u></p> <p>Roof coverings</p>	SM	6		
TOTAL FOR ROOF CARRIED TO SUMMARY					
<u>ELEMENT No. 6</u>					
<u>DOORS</u>					
<u>Semi-solid core flush door: including mahogany lipped edges:3mm thick mahogany veneer lining both sides</u>					
A	50mm thick door overall size 820 x 2060 mm high .	No.	2		
<u>Prime grade wrot mahogany</u>					
B	150 x 50 mm Door frame: rebated: plugged	LM	11		
C	40 x 20 mm Architrave: splayed	LM	11		
D	15 mm Quadrant	LM	11		
<u>Ironmongery</u>					
E	150mm brass butt hinges	Prs	3		
F	Two lever mortice lock set complete with handle furniture	No.	2		

ITEM	DESCRIPTION	UNI	QTY	RATE	AMOUNT (Kshs)
G	Dowels	No.	4		
H	Fixing lugs	No.	12		
I	38mm rubber door stops as described	No.	2		
	<u>Painting</u>				
J	Prepare and apply three coats of clear varnish to timber surfaces	SM	7		
K	Ditto 100 - 200mm girth	LM	11		
L	Ditto but not exceeding 100mm girth	LM	22		
TOTAL FOR INTERNAL DOORS CARRIED TO SUMMARY					
<u>ELEMENT NO. 7 - WALL FINISHES</u>					
<u>EXTERNAL</u>					
<u>Key pointing</u>					
A	Extra over walling for horizontal recessed and flush vertical key pointed joints in cement and sand (1:4) mortar	SM	12		
<u>INTERNAL</u>					
<u>Gauged plaster 1:1:9 as described to:</u>					
B	Walls and concrete surfaces internally	SM	35		
TOTAL FOR WALL FINISHES CARRIED TO SUMMARY					

ITEM	DESCRIPTION	UNI	QTY	RATE	AMOUNT (Kshs)
A	<u>ELEMENT No. 8 - FLOOR FINISHES</u> <u>Woodfloat cement and sand screed (1:4) in:</u> 32 mm thick internally	SM	6		
TOTAL FOR FLOOR FINISHES CARRIED TO SUMMARY					

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT (Kshs)
	<u>SUMMARY</u>				
1	SUBSTRUCTURES				
2	REINFORCED CONCRETE WORKS				
3	EXTERNAL WALLS				
4	INTERNAL WALLS				
5	ROOF				
6	DOORS				
7	WALL FINISHES				
8	FLOOR FINISHES				
TOTAL CARRIED TO GRAND SUMMARY					

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT (Kshs)
	<u>SECTION - MECHANICAL & ELECTRICAL SERVICES</u>				
A	ELECTRICAL SERVICES				600,000.00
A	MECHANICAL INSTALLATION				400,000.00
	SECTION - MECHANICAL & ELECTRICAL SERVICES Carried to Main summary				
			Kshs.		1,000,000.00

NAROK COUNTY SUB COUNTY OFFICE

MAIN SUMMARY

ITEM	DESCRIPTION	AMOUNT (KSHS)
1	OFFICE	
2	LATRINE	
3	MECHANICAL & ELECTRICAL SERVICES FROM PAGE M/E	
	SUB-TOTAL FOR 1 NO. SUB COUNTY	-

ITEM	DESCRIPTION	UNI	QTY	RATE	AMOUNT (Kshs)
	<u>ELEMENT NO. 1</u>				
	<u>SUBSTRUCTURES (ALL PROVISIONAL)</u>				
	<u>Site clearance</u>				
A	Clearing site of all bushes, shrubs, undergrowth and the like; small trees not exceeding 600mm girth; disposing arisings	SM	9		
	<u>Excavations</u>				
B	Excavating trenches in normal soil to receive foundations not exceeding 1.50m deep starting from reduced level	CM	6		
C	Extra over all excavations and earthworks for breaking up hard rock where encountered	CM	3		
	Excavation including maintaining and supporting sides and keeping free from water, mud and fallen				
D	To reduce levels	CM	18		
E	Load and cart away surplus excavated material from site	CM	18		

ITEM	DESCRIPTION	UNI	QTY	RATE	AMOUNT (Kshs)
Carried to collection					
	<u>50 mm thick mass concrete (1:4:8) in:-</u>				
A	Blinding under strip foundation	SM	5		
	<u>Insitu reinforced concrete class 20/20: vibrated: in</u>				
B	Strip foundation & Ground Beam	CM	1		
C	Ditto but 100mm thick floor slab	SM	6		
	<u>Sawn formwork to:-</u>				
D	Sides: strip foundation	SM	7		
E	Sides: Ground Beam	SM	15		
F	Edges: slabs over 75 but not exceeding 150 mm girth	LM	17		
	<u>Deformed mild steel reinforcement to B.S 4449 in structural concrete work including cutting, bending, hoisting, fixing, tying wire and spacer blocks (All Provisional)</u>				
G	Assorted Bars	Kgs.	68		
	<u>Mesh fabric reinforcement to B.S 4483 and setting in concrete with 300mm side and end laps (measured nett - allow for laps).</u>				
H	Fabric ref. A-142 weighing 0.54kg/ sq.metre,in surface bed.	SM	6		

ITEM	DESCRIPTION	UNI	QTY	RATE	AMOUNT (Kshs)
Carried to collection					
A	<p><u>Approved Taveta Blocks; roughly squared; bedded in cement mortar (1:4); 25 mm wide x 20 Gauge hoop iron strapping every alternate course</u></p> <p>200mm thick foundation walls</p>	SM	7		
Carried to collection					
	<p><u>Collection</u></p> <p>From page 1</p> <p>From page 2</p> <p>From page 3</p>				

ITEM	DESCRIPTION	UNI	QTY	RATE	AMOUNT (Kshs)
TOTAL FOR SUBSTRUCTURES CARRIED TO SUMMARY					
	<u>ELEMENT No. 2 - REINFORCED CONCRETE</u>				
	<u>In situ reinforced concrete class 20/20: vibrated: in</u>				
A	Beams	CM	1		
	<u>Deformed mild steel reinforcement to B.S 4449 in structural concrete work including cutting, bending, hoisting, fixing, tying wire and spacer blocks (All Provisional)</u>				
B	Assorted Bars	Kgs.	8		
	<u>Sawn formwork as described to:-</u>				
C	Sides and soffites of beams	SM	4		

ITEM	DESCRIPTION	UNI	QTY	RATE	AMOUNT (Kshs)
TOTAL FOR REINFORCED CONCRETE WORKS CARRIED TO SUMMARY					
	<u>ELEMENT No. 3</u>				
	<u>EXTERNAL WALLS</u>				
	<u>Approved Taveta Blocks bedded and jointed in cement and sand (1:3) mortar and reinforced with 25mm wide x 20 gauge hoop iron in alternate courses as described in:</u>				
A	200mm thick walls with and including 25x3mm thick hoop iron strips every alternate course.	SM	12		
	<u>Damp proof course</u>				
B	200mm wide "Pluvex" or other equal and approved damp-proof course laid and bedded in and including cement and sand mortar (1:4)	LM	6		
	<u>Precast Concrete Window Vents</u>				
C	200 mm thick	SM	2		

ITEM	DESCRIPTION	UNI	QTY	RATE	AMOUNT (Kshs)
	TOTAL FOR EXTERNAL WALLS CARRIED TO SUMMARY				
A	<p><u>ELEMENT No. 4</u></p> <p><u>INTERNAL WALLS</u></p> <p><u>Approved Machine cut stones bedded and jointed in cement and sand (1:3) mortar and reinforced with 25mm wide x 20 gauge hoop iron in alternate courses as described in:</u></p> <p>100mm thick walls with and including 25x3mm thick hoop iron strips every alternate course.</p>	SM	6		

ITEM	DESCRIPTION	UNI	QTY	RATE	AMOUNT (Kshs)
	TOTAL FOR INTERNAL WALLS CARRIED TO SUMMARY				
	<u>ELEMENT No. 5 - ROOF</u>				
	<u>ROOF STRUCTURE</u>				
	<u>All in sawn cypress: second grade: clean: pressure impregnated: including jointing and connections as necessary</u>				
	<u>The following in Trusses</u>				
	<u>The following in 4 No. trusses each size 1700mm clear span overall fabricated and jointed to the Structural Engineer's details, including hoisting and placing in position approximately 2.80 metres above ground level</u>				
A	100 x 50mm rafter	LM	7		
	<u>Common Members</u>				
B	75 x 50 mm purlins	LM	9		
C	100 x 50 mm Wall plate: fixed to concrete or masonry with approved bolts at 1000 mm centres	LM	8		
	<u>ROOF COVERING</u>				
	<u>Supply and fix corrugated sheets GCI 28 Gauge; in accordance with the manufacturer's printed instructions</u>				
D	Roof coverings	SM	6		

ITEM	DESCRIPTION	UNI	QTY	RATE	AMOUNT (Kshs)
TOTAL FOR ROOF CARRIED TO SUMMARY					
<u>ELEMENT No. 6</u>					
<u>DOORS</u>					
<u>Semi-solid core flush door: including mahogany lipped edges:3mm thick mahogany veneer lining both sides</u>					
A	50mm thick door overall size 820 x 2060 mm high .	No.	2		
<u>Prime grade wrot mahogany</u>					
B	150 x 50 mm Door frame: rebated: plugged	LM	11		
C	40 x 20 mm Architrave: splayed	LM	11		
D	15 mm Quadrant	LM	11		
<u>Ironmongery</u>					
E	150mm brass butt hinges	Prs	3		
F	Two lever mortice lock set complete with handle furniture	No.	2		
G	Dowels	No.	4		
H	Fixing lugs	No.	12		
I	38mm rubber door stops as described	No.	2		
<u>Painting</u>					

ITEM	DESCRIPTION	UNI	QTY	RATE	AMOUNT (Kshs)
J	Prepare and apply three coats of clear varnish to timber surfaces	SM	7		
K	Ditto 100 - 200mm girth	LM	11		
L	Ditto but not exceeding 100mm girth	LM	22		
TOTAL FOR INTERNAL DOORS CARRIED TO SUMMARY					
<u>ELEMENT NO. 7 - WALL FINISHES</u>					
<u>EXTERNAL</u>					
<u>Key pointing</u>					
A	Extra over walling for horizontal recessed and flush vertical key pointed joints in cement and sand (1:4) mortar	SM	12		
<u>INTERNAL</u>					
<u>Gauged plaster 1:1:9 as described to:</u>					
B	Walls and concrete surfaces internally	SM	35		
TOTAL FOR WALL FINISHES CARRIED TO SUMMARY					
<u>ELEMENT No. 8 - FLOOR FINISHES</u>					
<u>Woodfloat cement and sand screed (1:4) in:</u>					
A	32 mm thick internally	SM	6		

ITEM	DESCRIPTION	UNI	QTY	RATE	AMOUNT (Kshs)
TOTAL FOR FLOOR FINISHES CARRIED TO SUMMARY					

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT (Kshs)
	<u>ELEMENT NO. 1</u>				
	<u>SUBSTRUCTURES</u>				
	<u>Site clearance</u>				
A	Clearing site of all bushes, shrubs, undergrowth and the like; small trees not exceeding 600mm girth; disposing arisings	SM	100		
	<u>Excavations</u>				
B	Excavating oversite to reduce levels commencing from ground level not exceeding 1.50m deep	CM	70		
C	Excavating trenches in normal soil to receive foundations not exceeding 1.50m deep starting from reduced level	CM	74		
D	Excavate for column bases not exceeding 1500 mm deep commencing from reduced level	CM	7		
E	Extra over all excavations and earthworks for breaking up hard rock where encountered	CM	2		
F	Plank and strut to uphold sides of excavations: keep excavations free from all fallen material	Item			
G	Keep excavations free from ground and surface water	Item			
H	Load and cart away surplus excavated material from site	CM	31		
I	Return, fill and ram excavated material around foundations	CM	25		
	<u>Hardcore filling</u>				
J	300mm thick natural stone hardcore or other approved inert material: well watered and compacted in 150 mm thick (maximum) layers	SM	100		
	<u>Hardcore blinding</u>				
K	50 mm Thick approved quality murrum blinding to surfaces of hardcore	SM	100		
	<u>Polythene underlay</u>				
L	Gauge 1000 polythene underlay laid on hardcore blinding	SM	100		
	<u>Antitermite treatment</u>				
M	"Termidor" anti-termite chemical treatment: applied by Insecta ltd. or other approved professional pest control specialist: applied strictly in accordance with the manufacturer's instructions: 10 year guarantee	SM	100		
	Carried to collection				

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT (Kshs)
	<u>50 mm thick mass concrete (1:4:8) in:-</u>				
A	Blinding under strip foundation	SM	75		
B	Ditto under column bases	SM	12		
	<u>Insitu reinforced concrete class 20/20: vibrated: in</u>				
C	Strip foundation	CM	20		
D	Ditto in column bases	CM	4		
E	Ditto in columns	CM	2		
F	Ditto but 150 mm thick floor slab	SM	100		
G	750 mm (top) x 500 mm (bottom) x 125 mm thick slab thickening	LM	4		
	<u>Sawn formwork to:-</u>				
H	Sides: strip foundation	SM	66		
I	Sides: Column bases	SM	8		
J	Sides: Columns	SM	8		
K	Edges: slabs over 75 but not exceeding 150 mm girth	LM	50		
	<u>Reinforcement</u>				
	<u>High tensile square twisted steel bars to B.S. 4441</u>				
L	Assorted Bars	Kg	70		
	<u>Mesh fabric reinforcement ref. A-142 to B.S 4483 and setting in concrete with 300mm side and end laps (measured nett - allow for laps).</u>				
M	Fabric ref. A-142 weighing 2.22kg/ sq.metre,in surface bed.	SM	100		
	Carried to collection				

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT (Kshs)
A	<p><u>Approved natural stonework; roughly squared; bedded in cement mortar (1:4); 25 mm wide x 20 Gauge hoop iron strapping every alternate course</u></p> <p>200mm thick foundation walls</p>	SM	100		
Carried to collection					
<p><u>Collection</u></p> <p>From page 1</p> <p>From page 2</p> <p>From page 3</p>					
TOTAL FOR SUBSTRUCTURES CARRIED TO SUMMARY					

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT (Kshs)
	<u>ELEMENT No. 2</u>				
	<u>REINFORCED CONCRETE WORKS</u>				
	<u>In situ reinforced concrete class 20/20: vibrated: in</u>				
A	Ring beams	CM	10		
B	Columns	CM	2		
	<u>Reinforcement (Provisional)</u>				
	<u>High tensile, square twisted bar reinforcement to BS 4461</u>				
C	Assorted bars	Kgs.	500		
	<u>Sawn formwork as described to:-</u>				
D	Sides and soffites of beams	SM	86		
E	Sides: Columns	SM	22		
TOTAL FOR REINFORCED CONCRETE WORKS CARRIED TO SUMMARY					

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT (Kshs)
	<p><u>ELEMENT No. 3</u></p> <p><u>EXTERNAL WALLS</u></p> <p><u>Chisel dressed natural stone jointed and bedded in cement and sand mortar (1:4) as described in:-</u></p> <p>A 200mm thick walls with and including 25x3mm thick hoop iron strips every alternate course.</p> <p><u>Dump proof course</u></p> <p>B 200mm wide "Pluvex" or other equal and approved dumproof course laid and bedded in and including cement and sand mortar (1:4)</p>	SM	175		
	TOTAL FOR EXTERNAL WALLS CARRIED TO SUMMARY				

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT (Kshs)
	<u>ELEMENT No. 4</u>				
	<u>INTERNAL WALLS</u>				
	<u>Fine Chisel dressed natural stone jointed and bedded in cement and sand mortar (1:4) as described in :-</u>				
A	200mm thick walls with and including 25x3mm thick hoop iron strips every alternate course.	SM	100		
	<u>Dump proof course</u>				
B	200mm wide "Pluvex" or other equal and approved dumproof course laid and bedded in and including cement and sand mortar (1:4)	LM	50		
TOTAL FOR INTERNAL WALLS CARRIED TO SUMMARY					

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT (Kshs)
	<u>ELEMENT No. 5 - ROOF (ALL PROVISIONAL)</u>				
	<u>ROOF STRUCTURE</u>				
	<u>All in sawn cypress: second grade: clean: treated with approved wood preservative: including jointing and connections as necessary</u>				
	<u>The following in Trusses</u>				
	<u>T1 - 18 No.</u>				
A	50 x 150 mm Rafter	LM	196		
B	Ditto: ceiling joist	LM	160		
C	100x50mm: struts and ties	LM	296		
	<u>T2 - 8 No.</u>				
D	150 x 50 mm Rafter	LM	96		
E	Ditto: ceiling joist	LM	88		
F	100x50mm: struts and ties	LM	164		
	Carried to collection				

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT (Kshs)
Common Members					
A	150 x 50 mm Intermediate rafters	LM	156		
B	Ditto hip rafter	LM	24		
C	Ditto valley rafter	LM	14		
D	50 x 38 mm battens	LM	214		
E	200x50mm: ridge board	LM	42		
F	100 x 50 mm Wall plate: fixed to concrete or masonry with approved bolts at 1000 mm centres	LM	164		
Carried to collection					

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT (Kshs)
	<u>ROOF COVERING</u>				
	<u>IT5 Profiled sheets 26 Gauge; in accordance with the manufacturer's printed instructions</u>				
A	Roof coverings	SM	125		
B	Angle ridge overall girth 660 mm tapered length wise	LM	42		
C	Ditto but hip capping	LM	24		
D	350 mm Girth valley capping	LM	14		
	<u>RAINWATER GOODS</u>				
	<u>26 gauge, galvanised iron sheet with one coat red oxide primer before fixing as described in:</u>				
E	150 x 200 mm box gutter, fixed to timber fascia (m.s.) with approved straps	LM	75		
F	Extra over ditto for 100 mm diameter nozzle outlet.	NO	4		
G	Ditto, but for stopped ends	NO	8		
H	Ditto, but for bends	NO	4		
I	100 mm diameter rain water down pipe fixed to masonry with approved holderbats	LM	14		
J	Extra over ditto for swan-neck	NO	4		
K	Ditto, but for shoe	NO	4		
	Carried to collection				

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT (Kshs)
	<u>EAVES FINISHES</u>				
	<u>Wrot cypress: prime grade</u>				
A	200 x 25 mm Fascia/barge board	LM	75		
	<u>vista Ceiling:</u>				
	<u>Profiled UPVC plastic ceilings as 'Vista' manufactured by Vista Windows Ltd or other equal and approved fixed with and including supporting framework and beading as per the Manufacturer's printed instructions in:</u>				
B	T & G ceilings: wood grain pattern to eaves soffites laid flat	SM	66		
C	Vista' cornice strip as described	LM	220		
	<u>Prepare and apply three coats gloss oil paint on:-</u>				
D	Surfaces of woodwork, 200 - 300 mm girth externally	LM	220		
E	External metal surfaces of large pipe	LM	14		
F	General metal surfaces of gutters	SM	56		
Carried to collection					
	<u>Collection</u>				
	From page 7				
	From page 8				
	From page 9				
	From Above				

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT (Kshs)
TOTAL FOR ROOFING CARRIED TO SUMMARY					
	<u>ELEMENT NO. 6</u>				
	<u>WINDOWS</u>				
	<u>Approved red clay tile cill: bedded and jointed in cement (sand (1:3) mortar: pointed in matching coloured cement</u>				
A	150 x 100 x 25 mm Thick cill	LM	11		
	<u>Wrot cypress: prime grade</u>				
B	150 x 25 mm Thick window board: plugged	LM	11		
C	15mm diameter quadrant beading plugged	LM	11		
	<u>Casements</u>				
	<u>Steel casement windows purpose made primed steel complete in opening and fixed lights complete with fasteners and stays ;steel lugs built into stone work and complete with burglar proofing in 15 mm diamond patten solid bars to architects approval.</u>				
D	Ditto 1200 x 1200 mm	No.	8		
	Carried to collection				

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT (Kshs)
	<u>Glazing</u>				
A	4 mm thick clear sheet glass and glazing to metal with metallic putty in different panes	SM	12		
B	Ditto obscure glass	SM	-		
	<u>Painting</u>				
C	Prepare and apply three coats of gloss oil paint to metal surfaces of windows externally	SM	12		
D	Ditto internally	SM	12		
	<u>Prepare and apply one coat of aluminium wood primer on timber surfaces in contact with concrete or masonry</u>				
E	Over 100 but not exceeding 200 mm girth: window board	LM	11		
	<u>Prepare surfaces: apply three coats gloss oil paint on wood: to surfaces</u>				
F	Over 100 but not exceeding 200 mm girth: window board	LM	11		
	<u>Curtain Rods</u>				
G	20/15 mm Nominal diameter medium duty black pipe twin draper rods complete with 12 mm thick ring hooks at 150 centre and balloon end finials on matching mild steel support brackets, including approved tie-backs, one coat red oxide primer, one undercoat and one finishing coat gloss oil paint (39 No. pairs)	LM	20		
Carried to collection					
	<u>Collection</u>				
	From page 12				
	From above				
TOTAL FOR WINDOWS CARRIED TO SUMMARY					

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT (Kshs)
	<u>ELEMENT No. 7</u>				
	<u>EXTERNAL DOORS</u>				
	<u>Supply, assemble and fix the following purpose made welded steel casement doors complete with all necessary ironmongery, handles, lever or finger pulls and pins; and building lugs to jambs and reveals, bedding frames in waterproof cement mortar, including priming with one coat of red oxide primer, including all necessary coupling mullions, transomes and clear glazed fanlight over and jointing in approved mastic externally and afterward easing and oiling and adjusting opening lights on completion</u>				
A	Single leaf door overall size, 900 x 2400 mm high comprising 60 x 38 mm top and bottom rails, divided by 1 No. transome into: top fanlight size 900 x 300 mm high further divided by 2 No. mullions into panels size 750 x 300 mm high; partly glazed with and including 6 mm thick toughened sheet glass	NO	2		
	<u>Glazing</u>				
B	6mm Thick clear sheet glass and glazing to metal in panes exceeding 0.10sm but not exceeding 0.5sm	SM	1		
	<u>Prepare surfaces and apply one undercoat and two finishing coats of gloss oil paint on:</u>				
C	General glazed metal surfaces	SM	5		
TOTAL FOR EXTERNAL DOORS CARRIED TO SUMMARY					

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT (Kshs)
	<u>ELEMENT No. 8</u>				
	<u>INTERNAL DOORS</u>				
	<u>Solid Cored flush door: mahogany lipped edges: mahogany veneered both sides</u>				
A	45mm thick door overall size 820 x 2060 mm high .	No.	5		
	<u>Prime grade wrot mahogany</u>				
B	200 x 50 mm Door frame: rebated: plugged	LM	30		
C	200 x 50 mm Transome; twice rebated	LM	5		
D	40 x 20 mm Architrave: splayed	LM	30		
E	15 mm Quadrant	LM	30		
	<u>Ironmongery</u>				
F	150mm brass butt hinges	Prs	10		
G	Two lever mortice lock set complete with handle furniture	No.	5		
H	Dowels	No.	5		
I	Fixing lugs	No.	15		
J	38mm rubber door stops as described	No.	5		
	<u>Glazing</u>				
K	5 mm thick clear sheet glass and glazing to timber with glazing beads (m.s.)	SM	2		
	<u>Painting</u>				
M	Prepare and apply three coats of clear varnish to timber surfaces	SM	100		
N	Ditto 100 - 200mm girth	LM	15		
O	Ditto but not exceeding 100mm girth	LM	30		
TOTAL FOR INTERNAL DOORS CARRIED TO SUMMARY					

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT (Kshs)
	<u>ELEMENT NO. 10 - WALL FINISHES</u>				
	<u>EXTERNAL</u>				
	<u>Key pointing</u>				
A	Extra over walling for horizontal recessed and flush vertical key pointed joints in cement and sand (1:4) mortar.	SM	130		
	<u>INTERNAL</u>				
	<u>Gauged plaster 1:1:9 as described to:</u>				
D	Walls and concrete surfaces internally	SM	200		
	<u>Cement and sand 1:4 as described to:</u>				
E	10mm thick backing to receive wall tiles (ms)	SM	-		
	<u>Coloured and glazed ceramic wall tiles</u>				
F	150x150x6mm thick wall tiles as SAJ or other equal and approved complete with cement grouting to joints to match.	SM	-		
	<u>Paintwork</u>				
G	Prepare and apply three coats plastic emulsion paint to plastered surfaces.	SM	200		
TOTAL FOR WALL FINISHES CARRIED TO SUMMARY					

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT (Kshs)
	<u>ELEMENT No. 11</u>				
	<u>FLOOR FINISHES</u>				
	<u>Woodfloat cement and sand screed (1:4) in:</u>				
A	32 mm to receive ceramic tiles	SM	100		
	<u>Coloured Non-slip ceramic floor tiles</u>				
B	8 mm thick non slip floor tiles as SAJ or other equal and approved fixed with and including cement slurry	SM	100		
C	100 x 20 mm thick skirting	LM	80		
	<u>CEILING FINISHES</u>				
	<u>12 mm thick Celotex softboard lining or other equal including brandering and approved in:-</u>				
D	Horizontal ceiling board fixed to timber brandering (m.s.)	SM	100		
E	75 x 25mm wrot cypress cornice	LM	80		
TOTAL FOR CEILING FINISHES CARRIED TO SUMMARY					

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT (Kshs)
	<u>SUMMARY</u>				
1	SUBSTRUCTURES				
2	REINFORCED CONCRETE WORKS				
3	EXTERNAL WALLS				
4	INTERNAL WALLS				
5	ROOFING				
6	WINDOWS				
7	EXTERNAL DOORS				
8	INTERNAL DOORS				
10	WALL FINISHES				
11	FLOOR & CEILING FINISHES				
TOTAL CARRIED TO GRAND SUMMARY					

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT (Kshs)
	<u>SUMMARY</u>				
1	SUBSTRUCTURES				
2	REINFORCED CONCRETE WORKS				
3	EXTERNAL WALLS				
4	INTERNAL WALLS				
5	ROOF				
6	DOORS				
7	WALL FINISHES				
8	FLOOR FINISHES				
TOTAL CARRIED TO GRAND SUMMARY					

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT (Kshs)
	<u>SECTION - MECHANICAL & ELECTRICAL SERVICES</u>				
A	ELECTRICAL SERVICES				100,000.00
A	MECHANICAL INSTALLATION				50,000.00
	SECTION - MECHANICAL & ELECTRICAL SERVICES Carried to Main summary				
			Kshs.		150,000.00



MAIN SUMMARY

ITEM	DESCRIPTION	AMOUNT (KSHS)
1	OFFICE	
2	LATRINE	
3	MECHANICAL & ELECTRICAL SERVICES FROM PAGE M/E	
	SUB-TOTAL FOR 1 NO. WARD OFFICE	-

GRAND SUMMARY OF BILLS OF QUANTITIES
STRATEGIC INTEGRATED WARD DEVELOPMENT PROGRAMME FOR NAROK COUNTY

**PROPOSED CONSTRUCTION OF THE SUB COUNTY OFFICES AND
THE WARD OFFICES (LOT 39)
TENDER NO: NCG/OT/044/2022-2023**

BILL NO.	DESCRIPTION	AMOUNT (Kshs)
1	PARTICULAR PRELIMINARIES	
2	GENERAL PRELIMINARIES	
3	PROPOSED 1 NO SUB COUNTY OFFICES	
4	PROPOSED 1 NO WARD OFFICES	
A	SUB TOTAL (A)	
B	Add 2.5% of subtotal of bills for contingencies to be expended in whole ' or in part as directed by the Project Manager ((A) x 0.025).	
C	Add 16% VAT = (SUB TOTAL A) X 16%.	
	(SUB TOTAL A + B(Contingencies) + C (16% V.A.T)	
TOTAL GRAND SUMMARY CARRED TO THE FORM OF TENDER KSH		