

**COUNTY ASSEMBLY OF KILIFI**



**BILL OF QUANTITIES FOR THE TENDER FOR THE PROPOSED COMPLETION  
OF ICT CONNECTIVITY, CCTV, SECURITY ALARM INSTALLATION AND  
ACCESS CONTROL SYSTEM WORKS FOR THE COMPLETION OF  
ASSEMBLY OFFICE BLOCK FOR THE COUNTY ASSEMBLY OF KILIFI**

**(Quantities are estimated for tendering purposes only)**

**TENDER No: CAK/1661153/2024-2025**

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## **1.0 General**

- 1.1 The Bill of Quantities shall be read in conjunction with the Conditions of Contract, conditions of particular applications, Specifications and special provisions, Drawings and Employer's requirements and the Contractor shall provide against the bill rates or in the prices for the full scope of the work covered by the Contract, no claim or variations shall be considered on account of the Tender's failure to comply with this provision. The various documents collectively referred to herein as the Bill of Quantities shall jointly constitute the Bill of Quantities referred to in the Conditions of Contract and these preambles are to be read in conjunction with item descriptions in the Bill of Quantities.
- 1.2 Lump Sum values shall not be inserted where unit rates are applicable and the contractor shall ensure that identical items occurring in separate sections are not priced at different rates, unless this is the deliberate intention.
- 1.3 The contractor shall check against the summaries that each copy of the Bill of Quantities is complete in the number of pages and in the reproduction of each page.
- 1.4 Unit rates, prices and extensions shall be given in the Kenyan Shillings (KSh) with Cents taken to two decimal places.
- 1.5 The Quantities inserted against items in the Bill of Quantities are estimated quantities of the Works for the purpose of Tender Evaluations, and the Contractor shall be deemed to have checked and verified such quantities in the compilation of his Tender Price prior to the submission of his Tender. Upon the award of the Contract, the priced Bill of Quantities shall be used solely for evaluating interim payments due to the Contractor, and as a schedule of rates for establishing the value of variations.
- 1.6 The Contractor shall not use the Bill of Quantities for the purpose of ordering materials or arranging Subcontractors. References to these

activities shall be the Specifications and Drawings and instructions issued by the Engineer.

- 1.7 All items in the Bill of Quantities shall be deemed to have a monetary value, whether priced or un-priced. In the absence of a unit rate or price against any item, the cost shall be deemed to have been included elsewhere within the Contract Price and the work described to that item shall be executed by the Contractor without any additional payment.
- 1.8 The descriptions in the Bill of Quantities may be incomplete and the Contractor is referred to the Drawings, Photographs and Specifications for complete information in respect of all the relevant descriptions, quality, dimensions, capacities, design parameters and the like.

## **2.0 Format of Descriptions**

- 2.1 In addition to common abbreviations, the following have been adopted; POM (I), Principals of Measurement (International) for Works of construction dated June 1979 as published by the royal Institution of Chartered Surveyors, London.

mm	-	Millimeter	Pr	-	Pair
m	-	Linear Meter	No	-	Number
m <sup>2</sup>	-	Square Meter	Kg	-	Kilograms
m <sup>3</sup>	-	Cubic Meter			

## **3.0 Rates**

- 3.1 Rates and Prices shall be all inclusive, comprehensive and include the following:
- a) All obligations imposed by the Contract.
  - b) Complying in every respect with the requirements and the considerations of the Specifications and Drawings.
  - c) All considerations arising from the definitions incorporated in each Preamble section.
  - d) Laborer for fixing and all associated costs.
  - e) Materials and goods and all associated costs

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- f) Fitting and /or fixing materials and goods in any position, hoisting to any height.
- g) Use of Scaffolding, plant, equipment and tools.
- h) Any additional laborers usually associated with measured items.
- i) All necessary protection of the Works, removing all temporary installations and making good and clearing away upon completion.
- j) All applicable taxes, duties, charges, government levies, landing charges and transport.
- k) Overheads & profit.

#### **4.0 Measurements**

4.1 The pricing of materials shall take account of the following:

- a) Pricing Preambles, Drawings and specifications shall apply reciprocally between the various sections of the Works, unless otherwise described.
- b) Materials shall be of the specified quality unless otherwise described.
- c) All materials shall be transported, handled, stored and fixed in accordance with the printed instruction or recommendations of their manufacturer or suppliers.
- d) Protection of completed work, all casings and temporary coverings and making good and clearing away upon completion.

#### **5.0 Discrepancies**

5.1 Any discrepancy arising in terms of these Preambles and the items contained within the Bill of Quantities must be brought to the attention of the Engineer for his clarification prior to the submission of tender.

#### **Disclaimer**

The following quantities were prepared by the Department of ICT. The information contained in these estimates was gathered during their investigations and assessments.

The County Assembly of Kilifi (CAK) in no way warrants the information contained herein and will accept no liability for any misleading or wrong information. All bidders are reminded that they should prepare their tender based on their own investigations and site visit.

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The CAK will accept no liability for any costs incurred by the procurer using this information in the preparation of their tender.

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<b>LOCATION: GROUND FLOOR (GF)</b>					
<b>S/No</b>	<b>DESCRIPTION</b>	<b>QTY</b>	<b>UNIT</b>	<b>RATE</b>	<b>AMOUNT (KSh)</b>
	<b>Supply, delivery, installation and configuration of:</b>				
1	Unify Ubiquiti Wireless Access Points (Unify UAP AC Pro or any other approved equivalent)	22	No		
2	One (1) Meter Siemens Patch Cords or any other approved equivalent	55	No		
3	Three (3) Meter Siemens Patch Cords or any other approved equivalent	55	No		
4	CAT 6E (Siemon) Cable in boxes of 305Metres or any other approved equivalent	20	No		
5	48 Port Core Fibre Switch POE managed (Ubiquiti or any other approved equivalent)	2	No		
6	48 Port PoE Managed Catalyst Switch with 4 SFP SMD Fibre Ports	2	No		
7	48 Port Gigaset Data Patch Panel	2	No		
8	Data and Voice Faceplate	55	No		
9	Dual Data and Voice Face Plate	55	No		
10	42U Cable Managers	6	No		
11	6 Way Rack Mounted Power Extension	4	No		
12	12U Server Cabinet Wall Mounted 12U Cable Managers				
13	50mm x 100mm x 3M Double Compartment PVC Trunk	400	No		
14	Outdoor Armoured CAT 6E Cable (Siemens) in boxes of 305M	2	No		
	<b>POWER BACK UP SOLUTION Supply, delivery, installation and</b>				

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	<b>configuration of</b>				
15	10Kva UPS (APC or any other approved Equivalent)	1	No		
	<b>INTER CONNECTIVITY SOLUTION</b>				
16	8 Core Single Mode Fiber Optic Cable from Data Centre (Current Server room) to new office block	300	M		
17	Trenching and Laying of the Fiber Cable in 25mm Conduit Pipes	500	M		
18	Supply, delivery, installation and programming of a Biometric System (ZKTeco uface 800) or any other approved equivalent	1	No		
	<b>SERVER ROOM</b>				
	<b>Supply, install and set to work raised floor for 1 No. server room as described below:-</b>				
19	Raised access floor with props at 350mm high in 600 x 600mm panels with maximum imposed point load of 750kg/m <sup>2</sup> as per below details: Lafarge or equivalent				
20	<b>Laminated tiles</b> Laminated panel beveled Type 1 S Grey (Calcium Sulphate system), adjustable Head Stud, Pasilock Base 350, stringer perimeter head stud, pedestal Adhesive & panel Lifters double cap				
21	Perforated Tiles Ditto but perforated tiles Supply and fix 600 x 600mm panels with 30 percent openings for down floor cooling data centres				
<b>B</b>	<b>SERVER</b>				
	<b>Supply, delivery, installation and configuration of:</b>				
i	Local Area Network Server Machine – <b>HPE ProLiant DL380 Gen10 4214R 2.4GHz 12-core 1P</b>	1	No		

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	<b>32GB-R 1.2TB SAS MR416i-p 8SFF BC 800W PS Server</b> or any other approved equivalent (see full specifications on Appendix 1 below); HP M32F 31.5" Ultra Slim Screen, Wireless Mouse				
ii	Network Operating System – Microsoft Windows Server 2022 or any other approved equivalent with genuine Microsoft License.				
iii	Supply, delivery, installation and full configuration of SOPHOS XGS 2300 NextGen Firewall including all relevant software licenses				
iv	Configuration of the Local Area Network for the County Assembly of Kilifi-Setting up the Active Directory Domain Controller, Setting up the LAN Policies; proper cable management				
v	Network Cabinet /Server Cabinet 42U (Go-Metal brand or any other approved equivalent)	1	No		
	10KVa UPS (APC or equivalent)	1	No		
	Laptop: HP Spectra as per the below specifications				
	<b>Sub-Total Server Room to Collection Page</b>				
	<b>Sub-Total Ground Floor to Collection Page</b>				



## **APPENDIX I**

### **SERVER SPECIFICATIONS**

#### **HPE ProLiant DL380 Gen10 4214R 2.4GHz 12-core 1P 32GB-R 1.2TB SAS MR416i-p 8SFF BC 800W PS Server**

- Memory type: HPE DDR4 SmartMemory
- Memory, standard: 32 GB RDIMM 2R 2933 MT/s (1x 32 GB; P00924-B21)
- NVDIMM type: HPE NVDIMM-N \*Only available on 1st Generation Intel® Xeon® Scalable Processors
- NVDIMM rank: Not applicable
- NVDIMM capacity: Up to 1 TB per processor
- Included hard drives: None ship standard, 8 SFF drives supported
- Optical drive type: Optional
- Processor core available: 12, per processor
- Processor cache: 16.5 MB L3
- Processor name: Intel® Xeon® Scalable 4214R (12 core, 2.4 GHz, 16.5 MB, 100W)
- Processor number: 1 Processor
- Processor speed: 2.4 GHz
- Storage controller: 1x Broadcom MegaRAID MR416i-p x16 Lanes 4GB Cache NVMe/SAS 12G Controller for HPE Gen10 Plus
- Hard Drive: 1TB SAS

MONITOR : HP 18.5" LED TFT Screen or higher

## **Appendix II**

### **UNINTERRUPTIBLE POWER SUPPLY (UPS) SYSTEM SPECIFICATIONS**

#### **APC SRT10KXL Smart-UPS SRT 10kVA 230V Online UPS**

##### Key Features

- High density, double-conversion on-line power protection with scalable runtime
- Includes: CD with software, Documentation CD, Installation guide, Rack Mounting brackets, Rack mounting hardware, Rack Mounting support rails, Temperature Probe, USB cable, Web/SNMP Management Card
- 10/100 BaseT Connection
- Connect the device to a network using a 10 or 100 BaseT connection
- Battery failure notification
- Provides early-warning fault analysis on batteries enabling timely preventive maintenance
- Green mode
- Patent-pending operating mode that bypasses unused electrical components in good power conditions to achieve very high operating efficiency without sacrificing any protection.
- LCD graphics display

## **Appendix III**

### **LAPTOP SPECIFICATIONS : HP SPECTRA or any other approved equivalent**

HP Spectre x360 Convertible 14" Screen, Intel Core i7, 16GB RAM, (onboard), 1TB Hard Disk Drive, pre-installed with Windows 11 Pro, Microsoft Office 2019

<b>LOCATION: FIRST FLOOR (FF)</b>					
<b>S/No</b>	<b>DESCRIPTION</b>	<b>QTY</b>	<b>UNIT</b>	<b>RATE</b>	<b>AMOUNT (KSh)</b>
	<b>Supply, delivery, installation and configuration of:</b>				
1	Unify Ubiquiti Wireless Access Points (Unify UAP AC Pro or any other approved equivalent)	26	No		
2	One (1) Meter Patch Cords	55	No		
3	Three (3) Meter Patch Cords	55	No		
4	CAT 6E (Siemon) Cable in boxes of 305Metres	20	No		
5	48 Port Core Fibre Switch POE managed (Ubiquiti or any other approved equivalent)	1	No		
6	48 Port PoE Managed Catalyst Switch with 4 SFP SMD Fibre Ports	2	No		
7	48 Port Giganet Data Patch Panel	2	No		
8	Data and Voice Faceplate	55	No		
9	Dual Data and Voice Face Plate	55	No		
10	12U Server Cabinet Wall Mounted	2			
11	12U Cable Managers	4	No		
12	6 Way Rack Mounted Power Extension	2	No		
13	50mm x 100mm x 3M Double Compartment PVC Trunk	400	No		
	<b>POWER BACK UP SOLUTION Supply, delivery, installation and configuration of</b>				
14	5Kva UPS (APC or any other approved Equivalent)	1	No		
	<b>Sub-Total First Floor to Collection Page</b>				
	<b>Sub-Total Ground Floor to collection page</b>				

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<b>LOCATION: SECOND FLOOR (SF)</b>					
<b>S/No</b>	<b>DESCRIPTION</b>	<b>QTY</b>	<b>UNIT</b>	<b>RATE</b>	<b>AMOUNT (KSh)</b>
	<b>Supply, delivery, installation and configuration of:</b>				
1	Unify Ubiquiti Wireless Access Points (Unify UAP AC Pro or any other approved equivalent)	26	No		
2	One (1) Meter Patch Cords	55	No		
3	Three (3) Meter Patch Cords	55	No		
4	CAT 6E (Siemon) Cable in boxes of 305Metres	20	No		
5	48 Port Core Fibre Switch POE managed (Ubiquiti or any other approved equivalent)	1	No		
6	48 Port PoE Managed Catalyst Switch with 4 SFP SMD Fibre Ports	2	No		
7	48 Port Giganet Data Patch Panel	2	No		
8	Data and Voice Faceplate	55	No		
9	Dual Data and Voice Face Plate	55	No		
10	12U Server Cabinet Wall Mounted	2	No		
11	12U Cable Managers	4	No		
12	6 Way Rack Mounted Power Extension	2	No		
13	50mm x 100mm x 3M Double Compartment PVC Trunk	400	No		
	<b>POWER BACK UP SOLUTION Supply, delivery, installation and configuration of</b>				
14	5Kva UPS (APC or any other approved Equivalent)	1	No		
	<b>Sub-Total Second Floor to Collection Page</b>				
	<b>Sub-Total First Floor to collection page</b>				

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	<b>Sub-Total Ground Floor to collection page</b>				
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<b>LOCATION: THIRD FLOOR (TF)</b>					
<b>S/No</b>	<b>DESCRIPTION</b>	<b>QTY</b>	<b>UNIT</b>	<b>RATE</b>	<b>AMOUNT (KSh)</b>
	<b>Supply, delivery, installation and configuration of:</b>				
1	Unify Ubiquiti Wireless Access Points (Unify UAP AC Pro or any other approved equivalent)	30	No		
2	One (1) Meter Patch Cords	55	No		
3	Three (3) Meter Patch Cords	55	No		
4	CAT 6E (Siemon) Cable in boxes of 305Metres	20	No		
5	48 Port Core Fibre Switch POE managed (Ubiquiti or any other approved equivalent)	1	No		
6	48 Port PoE Managed Catalyst Switch with 4 SFP SMD Fibre Ports	2	No		
7	48 Port Giganet Data Patch Panel	2	No		
8	Data and Voice Faceplate	55	No		
9	Dual Data and Voice Face Plate	55	No		
10	12U Server Cabinet Wall Mounted	2	No		
11	12 U Cable Managers	4	No		
12	6 Way Rack Mounted Power Extension	2	No		
13	50mm x 100mm x 3M Double Compartment PVC Trunk	400	No		
	<b>POWER BACK UP SOLUTION</b>				
	<b>Supply, delivery, installation and configuration of</b>				
14	5Kva UPS (APC or any other approved Equivalent)	1	No		
	<b>Sub-Total Third Floor to Collection Page</b>				
	<b>Sub-Total Second Floor to collection page</b>				

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	<b>Sub-Total First Floor to Collection Page</b>				
	<b>Sub-Total Ground Floor to Collection Page</b>				
<b>LOCATION: FOURTH FLOOR (FF)</b>					
<b>S/No</b>	<b>DESCRIPTION</b>	<b>QTY</b>	<b>UNIT</b>	<b>RATE</b>	<b>AMOUNT (KSh)</b>
	<b>Supply, delivery, installation and configuration of:</b>				
1	Unify Ubiquiti Wireless Access Points (Unify UAP AC Pro or any other approved equivalent)	30	No		
2	One (1) Meter Patch Cords	55	No		
3	Three (3) Meter Patch Cords	55	No		
4	CAT 6E (Siemon) Cable in boxes of 305Metres	20	No		
5	48 Port Core Fibre Switch POE managed (Ubiquiti or any other approved equivalent)	1	No		
6	48 Port PoE Managed Catalyst Switch with 4 SFP SMD Fibre Ports	2	No		
7	48 Port Gigaset Data Patch Panel	2	No		
8	Data and Voice Faceplate	55	No		
9	Dual Data and Voice Face Plate	55	No		
	12U Server Cabinet Wall Mounted				
10	12U Cable Managers	4	No		
11	6 Way Rack Mounted Power Extension	2	No		
12	50mm x 100mm x 3M Double Compartment PVC Trunk	400	No		
	<b>POWER BACK UP SOLUTION</b>				
	<b>Supply, delivery, installation and configuration of</b>				
13	5Kva UPS (APC or any other approved Equivalent)	1	No		
	<b>Sub-Total Fourth Floor to Collection Page</b>				
	<b>Sub-Total Third Floor to collection page</b>				
	<b>Sub-Total Second Floor to Collection Page</b>				

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	<b>Sub-Total First Floor to Collection Page</b>				
	<b>Sub-Total Ground Floor to Collection Page</b>				
<b>SECURITY SUB-SYSTEM</b>					
<b>LOCATION: MULTIPLE OFFICES IN THE BUILDING</b>					
<b>S/No</b>	<b>DESCRIPTION</b>	<b>QTY</b>	<b>UNIT</b>	<b>RATE</b>	<b>AMOUNT (KSh)</b>
	<b>Supply, delivery, installation and configuration of:</b>				
1	Full HD Professional Outdoor Bullet Cameras (IP Camera, IR Night Vision, Motion Sensor)	8	No		
2	Full HD Outdoor Wide Area Range Angle Cameras (PTZ Camera with at least 1080P, 20X Optical Zoom, HD IP, 80M IR Distance)	8	No		
3	Full HD Dome Cameras (IP Camera, IR Night Vision, Motion Sensor)	56	No		
4	Supply and installation of 6M Aluminum Poles with Aluminum brackets for Outdoor Installation	6	No		
5	Giganet Indoor Coaxial Cable in boxes of 305m	9	No		
6	NVR 128 Channel	1	No		
7	55" LED Touch Screen Monitor	1	No		
8	42" Full HD LED Monitors	3	No		
9	Hybrid Power Back UP System	3			
	<b>Supply and installation of Storage Server/ Software for Camera management</b>	1	Lot		
10	40TB External Storage Disk	1			
i.	<b>Sub-Total Security Sub System to Collection Page</b>				

<b>IP TELEPHONE SYSTEM</b>					
<b>LOCATION: MULTIPLE OFFICES IN THE BUILDING</b>					
<b>S/No</b>	<b>DESCRIPTION</b>	<b>QTY</b>	<b>UNIT</b>	<b>RATE</b>	<b>AMOUNT (KSh)</b>
	<b>Supply, delivery, installation and configuration of:</b>				
1	Grandstream 6300 IP PBX System or any other approved equivalent	2	Lot		
2	Grandstream GRP2616 complete with expansion module	1	pc		
3	Cisco IP Phone CP-7821-K9 Charcoal, Black or any other approved equivalent	160	pc		
4	Cisco IP phone 8841 or any other approved compatible equivalent	1	pc		
5	AC Power Cord	2	No		
6	Console Cable 6ft with USB type A and Mini B	1	No		
7	CAT 6E (Siemon) Cable in boxes of 305m	7	pc		
i.	<b>Sub-Total Telephone System to Collection Page</b>				



## MAIN SUMMARY PAGE

	KSh	Cts
NETWORKING		
GROUND FLOOR.....		
FIRST FLOOR.....		
SECOND FLOOR.....		
THIRD FLOOR.....		
FOURTH FLOOR.....		
SERVER ROOM.....		
CCTV CAMERAS.....		
TELEPHONE SYSTEM.....		
TOTAL.....		
ADD VAT (16%)		
ADD KSH 500,000 FOR PROJECT MANAGEMENT FEE	500,000.	00
ADD KSH 1,500,000 FOR CONTINGENCIES	<u>1,500,000.</u>	<u>00</u>
GRAND TOTAL	<u>                    </u>	<u>                    </u>

AMOUNT            IN            WORDS:.....

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COMPANY SEAL

AUTHORIZED SIGNATURE