

CONSULTING ENGINEERS



**PROPOSED WEST POKOT COUNTY ASSEMBLY,
IN KAPENGURIA**

TENDER NO.WPCA/01c/2018-2019

**SPECIFICATIONS & BILLS OF QUANTITIES
FOR
MULTIMEDIA SYSTEMS INSTALLATIONS
SUB-CONTRACT**

Architects:

Scope Design Systems
P.O. Box 10591-00100
NAIROBI

Services Engineer

Edson Engineers
P.O. Box 5647 - 00100
NAIROBI

NOVEMBER 2018

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FT

FORM OF TENDER

TENDER FOR:

PROPOSED WEST POKOT COUNTY ASSEMBLY

Multimedia System Installations Sub-Contract

West Pokot County Assembly

P.O.Box 222-30600

Kapenguria

Dear Sir/Madam,

- 1. I/We, the undersigned, offer to contract for the above sub-contract works all in accordance with the attached Conditions of Sub-Contract, Specifications and Bills of Quantities for the sum of:

KShs..... (In words) Kenya

Shillings.....

.....

- 2. I/We agree that our tender shall remain valid for and shall not be withdrawn for ninety days from the date of opening of the tenders for this sub-contract
- 3. I/We agree that you are not responsible for any expenses incurred by me/us in submitting this tender
- 4. I/We agree that you are not bound to accept the lowest or any other tender.

Name & Address of Tenderer:.....

Telephone:.....

Signature of Tenderer:.....

Date:.....

D1

DEFINITION OF TERMS

The following words and expressions used in this document shall have the following meanings attached to them:

- Employer : West Pokot County Assembly
P.O.Box 222-30600
Kapenguria
- Architect : Scope Designs Systems
P. O. Box 10591 -00100
Nairobi
- Services Engineer : Edson Engineers
P O Box 5647 - 00100
Nairobi
- Main contractor : shall mean the firm or company appointed to carry out the project building Works
- Sub-contractor : shall mean the firm or company appointed to carry out the sub-contract works described in this document
- Works : shall mean the materials and the plant to be provided and labours to be performed by the sub-contractor in fulfillment of the terms of this document and the sub-contract made for that purpose
- Contract drawings : shall mean the drawings listed in or referred to in this document and forming part of this document
- m. : shall mean metre
- mm : shall mean millimetres
- mm² : shall mean square millimetres
- k : shall mean kilo

DEFINITION OF TERMS

A.	: shall mean amperes
V.	: shall mean volts
W.	: shall mean watts
Hz	: shall mean Hertz or cycles per second
PVC	: shall mean polyvinyl chloride
SWA	: shall mean steel wire armoured
S.P.& N.	: shall mean single pole and neutral
T.P.& N.	: shall mean triple pole and neutral
NO. or No.	: shall mean numerical number
dia.	: shall mean diameter
rpm	: shall mean revolutions per minute
KBS	: shall mean Kenya Bureau of Standards
B.S. & B.S.C.P.	: shall mean British Standard Specification & British Standard Code of Practice
K.P.& L.	: shall mean Kenya Power & Lighting Company Limited
Ditto	: shall mean in all respects as described in a previous item in the bills of quantities
I.E.E.	: shall mean the Institution of Electrical Engineers of the United Kingdom
L.V.	: shall mean low voltage as defined by the 16 th edition of the I.E.E. wiring Regulations
H.V.	: shall mean high voltage as defined by the 16 th edition of the I.E.E. wiring Regulations

NOTES FOR TENDERERS

1. DOCUMENT CHECK

Before submitting his tender, the tenderer is required to:

- a) Check that no page/s of this document is/are missing or illegible and to have this rectified
- b) Ensure that all ambiguities, doubts or obscure points in this document are cleared with the engineer.

No claims for alleged deficiencies in the information given in this document shall be considered at a later date.

2. ALTERATION TO THIS DOCUMENT

Unauthorized alteration or qualification made to the text of this document by the tenderer shall disqualify the tenderer.

3. CORRECTION OF TENDERS

Arithmetic errors in the tenders will be corrected by the engineer in the following manner:

a) *Errors in Extensions*

If a total extension figure is entered, the extended total shall be a product of the tendered unit rate and the quantity of the item, and the product shall be added to the tender sum.

If the total extension entered in the bill of quantities is less than the product of the tendered unit rate and the quantity of the item, a corrected unit rate shall be obtained by dividing the extension total and the quantity of the item. The tender sum shall thus not be amended.

If the total extension entered in the bill of quantities is greater than the product of the tendered unit rate and the quantity of the item, the extension total shall be reduced to the correct product of the tendered unit rate and the quantity of the item, and the tender sum shall be reduced correspondingly.

b) *Omission of Unit Rates:*

If an extension total is entered in the bill of quantities but no unit rate is entered therein, the unit rate shall be calculated as the extension total divided by the quantity of the item.

N2

c) *Omission of Extension Rate & Extension Total:*

If no unit rate and extension total is entered against any item in the bills of quantities, it will be assumed that the cost of the item is fully and completely covered elsewhere in the bills of quantities.

d) *Errors in Addition:*

All errors in addition, irrespective of where they occur in the bills of quantities shall be corrected and the tender sum amended correspondingly.

4. DISCOUNTS

No lump sum discounts shall be made in the tender and if such a discount does appear in the tender, it shall be disregarded and the tender sum will be considered to be the total of the bills of quantities.

PART A

**GENERAL CONDITIONS FOR MULTIMEDIA
SYSTEMS INSTALLATIONS**

SUB-CONTRACT

GC1

1.01 SUB-CONTRACT AGREEMENT

The sub-contractor shall be required to enter into a sub-contract agreement with the main contractor. The form of sub-contract agreement shall be the latest edition of the Agreement and Schedule of Conditions of Building Sub-Contract, published by The Kenya Association of Building and Civil Engineering Contractors.

The tenderer shall be deemed to have examined, fully understood and accepted the requirements of all clauses in the above document.

1.02 PRELIMINARIES

It shall be deemed that the tenderer in pricing the "Preliminaries" item in the Summary of Tender contained in this document, has priced for all items in this section of the document and in the Agreement & Schedule of Conditions of Building Sub-Contract, which have financial implications.

1.03 FIRM PRICE CONTRACT

This is a firm price contract and the tenderer must allow in his pricing of this tender for any increases in the cost of labour and materials during the currency of the sub-contract. No claims for increased cost will be allowed.

1.04 SITE

The site of the proposed works is situated in **Kapenguria in West Pokot County.**

The tenderer is recommended to visit the site and will be deemed to have satisfied himself with regard to access to the site, the conditions under which the sub-contract works will have to be carried out, the supply of and conditions affecting labour and facilities for obtaining materials and equipment referred in this document.

1.05 EXISTING PROPERTY

The sub-contractor shall take every precaution to avoid damage to all existing property and he shall be held responsible for all damages arising from the execution of this sub-contract and he shall make good all such damage at his own expense to the satisfaction of the architect.

1.06 CONSTRUCTION PROGRAMME

The tenderer shall be deemed to have: (a) been informed about the duration of the main contract before submitting their tender and (b) allowed for in his tender all

necessary costs to enable him to execute and complete the sub-contract works within the main contractor's construction programme.

GC2

1.07 SITE MEETINGS

The sub-contractor shall be required to attend all site meetings and contractor's meetings.

1.08 SERVICES AND ATTENDANCE

Services and attendance shall be provided by the main contractor in accordance with the provisions in the main contract agreement.

The above will be limited to the builder's work in connection with this sub-contract, use of temporary water supply and electrical power and main contractor's scaffolding.

Except for drilling holes, forming concrete bases, chasing, cutting and making good the building fabric will be done by the main contractor. The sub-contractor shall mark out in advance and shall be responsible for the accuracy of the sizes of and positions of the bases, chases and holes required for his works.

The sub-contractor shall be responsible for providing any special internal and/or external scaffolding, trestle, etc specifically required for carrying out the sub-contract works. The tenderer is deemed to have allowed in his prices for the above requirement.

1.09 PROGRAMME OF WORKS

The sub-contract works will commence immediately upon the appointment of the sub-contractor. The sub-contractor shall be required to phase his works in accordance with the main contractor's programme of works.

The sub-contractor shall prepare such Critical Path Programmes or Progress Chart as the main contractor considers necessary to assist him in the preparation of and maintenance of his overall Programmes and Charts.

Copies of the sub-contractor's programmes shall be submitted to the main contractor, architect and engineer.

1.10 MATERIALS AND WORKMANSHIP

The sub-contractor shall be responsible for the provision of all materials, special scaffolding, tools and tradesmen required for the execution of the sub-contract works.

Plant, equipment and materials to be used in the execution of the sub-contract works shall be of sound condition to ensure they shall be serviceable for the duration of the sub-contract and that they do not pose any danger to those employed on the project

GC3

1.10 Materials and Workmanship/continued

The tenderer shall allow for in prices for hoisting all items of equipment and materials for the sub-contract to be installed in the locations and heights shown on the sub-contract drawings or noted in this document.

1.11 MEASURED WORKS

The Bill of Quantities contained in this document has been prepared in accordance with the Standard Method of Measurement of Building Works for Republic of Kenya: Metric Edition.

All “provisional” and other work liable to adjustment under this sub-contract shall be left uncovered for a reasonable time to allow any measurements needed to be taken by the engineer. The sub-contractor shall inform the engineer when the work is ready for measurement.

If the sub-contractor defaults in the above requirement, he shall uncover the works for measurement to be taken and reinstate afterwards, all at his expense.

1.12 PROVISIONAL SUMS

Quantities given as “Provisional” in this document shall not be held to gauge, or limit the amount or description of the work to be executed by the sub-contractor. But, the value thereof shall be deducted from the sub-contract sum and the value of the work ordered by the engineer shall be added to the sub-contract sum as provided by the sub-contract agreement.

1.13 VARIATIONS

Except in emergency, or for reasons over which the sub-contractor has no control, works likely to involve a claim for extra payment shall not be initiated without the written instruction from the engineer.

Addition to or reduction from the sub-contract in respect of extra work, alteration or omission authorised by the engineer shall be agreed and confirmed in writing at the time such variations are decided and shall not affect the validity of the sub-contract.

No allowance shall be made for loss of profit on omitted works.

Any claim involving additional work on site, must be accompanied by authorised site instruction signed by the engineer or his representative.

The sub-contractor shall submit to the engineer claim/s for any work or circumstances on account of which he may want extra payment within seven days

GC4

1.13 Variations/Continued.

from the time of the commencement of such work or circumstances. Any such claim must be in writing with full particulars of such claim/s.

1.14 MATERIALS ORDERS

The sub-contractor shall order and/or procure all materials and equipment for the sub-contract within two weeks after his appointment. Documentary evidence of all orders and purchases shall be submitted to the engineer within the above time.

No claims for extra payment shall be considered, if the sub-contractor does not comply with the above requirement.

1.15 DUTIES, TAXES, ETC.

The tenderer shall include in his prices all mandatory Government duties, taxes and levies; **except for VAT which shall be added at the Summary of Tender Page**, Supply to site, insurances, storage, fix in position, testing, commissioning and all other obligations under this sub-contract.

1.16 DEFECTS LIABILITY

The complete sub-contract works shall be guaranteed for a period of six months from the date of the architect's certificate of completion. Under this guarantee the sub-contractor shall make good at his own cost all defects in materials, equipment or workmanship which may develop in that period. The sub-contractor shall also make good any damage caused to other works, equipment and materials due to defects in the sub-contract works.

This clause shall not in any way invalidate manufacturer's guarantee on equipment, which may extend for periods longer than six months.

1.17 STORAGE ON SITE

Space on site or certain areas of partially completed building, when available, may be allocated to the sub-contractor for storing his material and equipment for the sub-contract.

The main contractor will be responsible for making the storage area waterproof but the sub-contractor shall be responsible for his own lock-up facilities and sheds.

The sub-contractor shall, when reasonably called upon at any time by the main contractor, move his material or plant elsewhere notwithstanding his having previously been allocated that space.

GC5

1.18 CONTRACT DRAWINGS

The sub-contract drawings are intended to indicate the intent and extent of the sub-contract works. The sub-contract drawings and this document are meant to explain each other and shall be read together.

Measures with dimensions shown on the contract drawings and measures noted in this document are to be followed in preference to dimensions scaled from the contract drawings; but whenever possible, dimensions are to be taken on the site or from the buildings.

Before any work is commenced, dimensions shall be checked on the site and/or the buildings and discrepancies reported to the engineer. The sub-contractor shall be responsible for ensuring the accuracy of such dimensions.

One copy of all the sub-contract drawings and a copy of this document, issued to the sub-contractor, shall be retained on site at all times and be available for reference by the engineer and the architect.

1.19 SITE REPRESENTATIVE

It is a specific requirement of this sub-contract that the successful tenderer shall provide on site, throughout the project construction period, a literate, suitably qualified and competent person to represent him and to ensure that the sub-contract works are carried out to the standard required by this document.

Instructions and directions given by the architect and/or the engineer to the sub-contractor's site representative shall be deemed to have been given to the sub-contractor.

1.20 INSPECTION

The engineer shall be allowed all facilities for inspecting materials and workmanship on site during the execution of the contract.

A similar reservation for inspecting at the manufacturer's works shall be included in all orders for specifically manufactured equipment issued by the sub-contractor. In such cases notice shall be given to the engineer that equipment has been manufactured and is ready for inspection and testing, so that this may be carried out before the equipment is packed for shipping.

1.21 SAMPLES

The sub-contractor shall, when required, provide at no extra cost, samples of materials or workmanship forming part of the works. Such samples when approved shall be retained on the site and shall form the standard required for the works.

GC6

Any condemned material as unfit for use in the works shall be immediately removed from the site without any recompense to the sub-contractor.

1.22 FAULTY WORKS

The engineer shall have the right to reject any material or workmanship, which in his opinion does not comply with the requirements of the specifications or is not satisfactory.

The sub-contractor shall replace such rejected materials or rectify such bad workmanship forthwith, at his own expense. In event of undue delay on the part of the sub-contractor to rectify the rejections, the engineer will have the right to employ others to supply suitable materials and re-execute the works and deduct the cost thereof from the value of the sub-contract.

1.23 PROTECTION

The sub-contractor shall be responsible for casing up or otherwise protecting all parts of the sub-contract works liable to damage or injury and for removing such protection and making good on completion.

1.24 CLEARING OF SITE

The sub-contractor shall ensure that the areas where his works are being carried out are, at all times, and kept clear of all debris and surplus materials.

PART B
SCOPE OF WORK & GENERAL PARTICULAR
SPECIFICATIONS FOR MULTIMEDIA
SYSTEM
SUB-CONTRACT

5.0 4.1.5.21 TECHNICAL SPECIFICATIONS:

C.2 KEY FEATURES

The envisaged system will be laid out as per the schematic diagram shown in Fig.1, on the next page. The core of the system will be a software application that will manage publishing of the agenda, attendance register and user identification, microphone management, delegate discussion, electronic voting, requests to speak, "point of order" by a member to interrupt a speech in progress, chairman priority and digital recording.

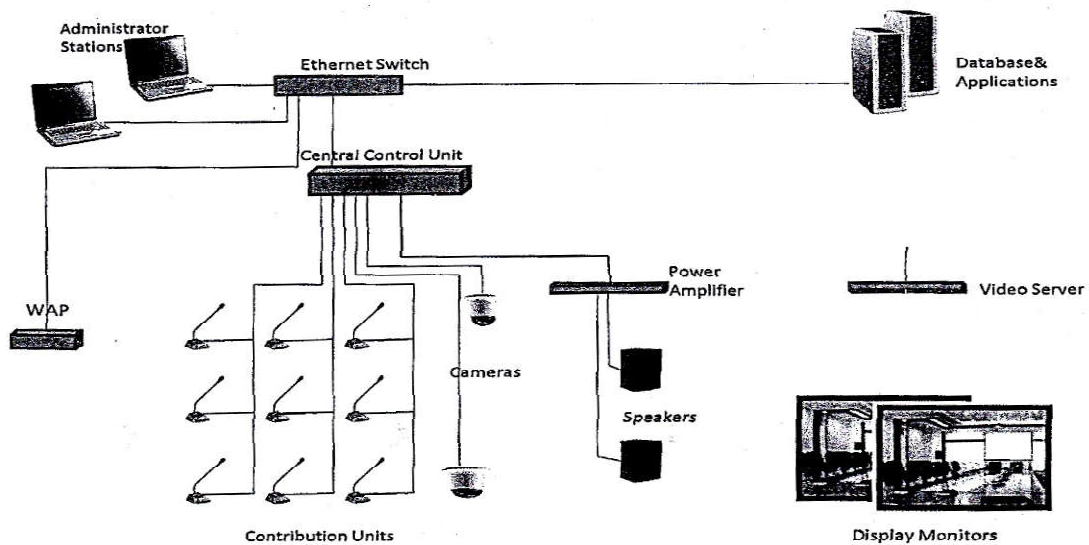
The system will also have a video switching interface and camera tracking system to facilitate displaying of various items on multiple LCD screens in the chamber. The various components of the desired system are now described.

C.2.1 OPERATION

Through the system interface, the following should be achieved:

- Management of agenda items, sub-items, document, etc
- Execution of session's attendance control, accepting absent members with justification, for example
- Authentication of users
- Management of requests for speaking, assigning times, giving priorities and enabling/ disabling the microphones
- Obtaining quorum on the sessions
- Management of the voting processes by choosing the type of votes, their duration, when they are opened and closed, etc
- Definition of the information to be sent to the central screens
- Generation and review of several types of reports
- Export/import of information to/from external systems.

FIG. 1. PROPOSED LAYOUT SCHEMATIC



This will be used to store all information, activities and votes that take place during each session of County Assembly. The software will run on a Windows environment and have direct links to all the contribution and control units thereby bringing into a single point of control all aspects of conference management, for increased ease of use, efficiency and data distribution. The following application modules must be supported in this environment:

- Installation and startup
- Chipcard encoding
- Attendance registration
- Delegate database
- Microphone management
- Synoptic microphone control
- electronic voting/voting procedures
- Text display
- Video display
- Automatic camera control

The conference software will run on a server whose specifications are given under **Annexes**.

C.2.3 ADMINISTRATION STATIONS

The system requires two administration stations for its operation, one for the session manager and the other for the chairman. These will be standard desktop computers running the administration application interface. The session manager's station allows the user, once authenticated, to operate the system. The chairman's station runs the same interface as the session manager, but has different permission levels. Specifications for the administrative stations are contained under Annexes.

C.2.4 Delegate Units

These are required to have the following features:

- Push button for on/ off microphone
- Yes/No/ Abst keys for voting
- Point-of-Order button/Interjection
- Red ring luminant to indicate active microphone
- Unidirectional electrets condenser microphone
- Card reader for user identification
- OLED screen
- 3.5mm phone jacks with level control
- Support automatic camera tracking
- Power input: 24V DC
- Frequency response: 50Hz to 18KHz
- S/N ration at 1mV input level: -95dB
- Sensibility: -46 ± 4 dB
- Optimal pick-up range: 50-100mm
- Stem length: 504mm
- Clock
- Engrave insignia or Logo to be provided by the Employer, County Assembly of West Pokot.

C.2.5 CHAIRPERSON'S UNITS

These are required to have the following features:

- Push button for on/ off microphone
- Priority button to override/ mute delegate units
- Ability to handle Point-of-Order interjections from members.
- Note: The chairman is not supposed to vote.

- Red ring luminant to indicate active microphone
- Unidirectional electrets condenser microphone
- Card reader for user identification
- OLED screen
- 3.5mm phone jacks with level control
- Support automatic camera tracking
- Power input: 24V DC
- Frequency response: 50Hz to 18KHz S/N ration at 1mV input level: -95dB
- Sensibility: -46±4dB
- Optimal pick-up range 50-100mm
- Stem length: 504mm
- Engrave insignia or Logo to be provided by the Employer, County Assembly of West Pokot.

C.2.6 CENTRAL CONTROL UNITS

These are required to have the following features:

- Control and power supply unit with 19" rackmount chassis
- Master, treble, bass volume level control
- Feedback suppression facility
- Supports 4 lines for delegate units
- RS-232 port for computer input/ control
- Camera control via TCP/IP
- Support for Sony or compatible PTZ Cameras
- 3G-SDI via BNC
- Symmetric XLR connectors
- Preset positions for automatic camera tracking: 128
- RCA recording audio outputs: 0-2.8Vpp
- Power input: 220V, 50Hz
- Max power: 300W
- Frequency response: 50Hz-18KHz
- S/N ratio: -95dB/1mV Distortion at 1KHz: <0.3%

C.2.7 CHIP CARD ENCODER

This will be required to encode delegate smart cards that will then be used for authentication in the system during County Assembly proceedings. The encoder will have the following features: Chip card reader /writer (-+rw)

Speed: <0.2 sec

Memory size: > 128 KB

C.2.8 Smart Cards

These will be the primary mode of identifying delegates into the system. The cards will have the following features:

- Unique 32-bit serial number
- Software set password
- Material: PVC
- Rewrite time: > 100,000 times
- Lifetime > 10 years
-

C.2.9 VIDEO RECORDING SYSTEM

This will be required to show on the screens a real time video shooting of the chambers, recording members that are speaking in every moment. The system will use high-definition robotised cameras.

C.2.10 CONNECTIVITY SYSTEM

A wired Ethernet segment will be used to connect server equipment to central control unit and administrative stations. Wireless Ethernet will provide connectivity for computers elsewhere within the chambers. The specifications for wireless access point are given in under Annexes.

C.2.11 MANUFACTURERS VISIT

Bidders may be required to arrange for a manufacturers factory visit to include four(4) Project personnel from West Pokot County Assembly.

C.2.10 TRAINING

Bidders are required to undertake training for 5 technical staff and 50 users selected by West Pokot County Assembly.

C.2.11 MAINTENANCE AND SUPPORT

Bidders are required to undertake maintenance and support with a Service level Agreement covering two years after installation.

C.3. TECHNICAL SCHEDULE OF MAJOR ITEMS TO BE SUPPLIED FOR PA AND EVS SOLUTION

Note: Should tenderer find the space insufficient for adequate response, tenderer may reproduce this table in a wider format. Tenderer must highlight in the brochures the specific features that respond to the technical specifications provided that these must be cross-referenced.

SERVER SPECIFICATIONS

REQUIREMENT	
Additionally configured as follows:	Minimum Requirements
	Rack
Height	42U
Accessories	Blanking Panels, Grounding Kit, 2 x Power Distribution Units (PDU), 17" Rack mountable monitor with keyboard and mouse and pre-installed fans
	Per/Each SERVER
Processor	Intel® Xeon® 7560 processors; 8 cores, up to min 2.66 GHz. scalable to 4 processors
Number of Processors	Two installed processors
Cache Memory	16MB Level 3 Cache
Memory	64GB PC3-8500 CL7 ECC DDR3 1066MHz RAM Installed
Storage Array Controller	ServeRAID M5015 SAS/SATA Controller
Hot Plug Bays	16 hot swap SAS SSD
Internal Storage & Hard Disks	8 TB (16 x 500GB 7200 6Gbps Hot-plug hard drives)
Optical Drive	DVD-RW
Fan	Hot Plug Fans with full redundancy
Power Supply	Power Supply with full redundancy
Network Interface Card	10 Gbps Fibre Channel over Ethernet Dual Channel Converged Network Adapter plus integrated dual Gigabit Ethernet with TCP-IP off-load engine
Graphics	16MB ATI ES1000
No. of Backup Tape Drives	1
Backup Tape Technology	LTO Ultrium 5
No. of Cartridges	20 Cartridges
KVM Switch	8 IP Console Switch with 17" Rack mount Keyboard, Mouse and Monitor
Warranty (parts/labor/ onsite)	1-1-1

Remote Management	Alert on LAN 2, Automatic Server Restart, Systems Director, Server Guide™, Integrated Management Module (IMM), light path diagnostics (independently powered), Predictive Failure Analysis on hard disk drives, processors, VRMs, fans and memory, Wake on LAN, Dynamic System Analysis, QPI Fail down, single-node failover
Supported Operating System	Microsoft®Windows Sever®2008 (Standard, Enterprise and Data Center Editions 32-bit and 64-bit), 32- and 64-bit Red Hat Enterprise Linux® , SUSE Enterprise Linux, (Server and Advanced Server), VMware ESX Set-ver/ ESXi 4.0

Annex C.2. Audio Amplifier

Output Power	1kHz, 4 [□] THD+N = 1% 8 8 br	250W x 4 210W x 4 500W x 2	
	20Hz ~ 4 [□] 20kHz, 8 THD+N = 0.1% 8 br	230W x 4 180W x 4 460W x 2	
	Constant Voltage Line 70V	300W x 2/16 (Bridge)	-
Voltage Gain RL=8 [□]		30dB	
Input Sensitivity RL=8 [□]			+4dBu
S/N Ratio 20Hz~20kHz, DIN AUDIO			103dB
Power Consumption	1/8 power (4 pink)	600W	
	Idle	40W	
	Standby	5W	
THD+N 20Hz~20kHz, 1/2 power,		Less than 0.1%	
Frequency Response RL=8 , Po=1W,		+0dB, -0.5dB	
Crosstalk 1kHz, half power, 8 Att. max, input		Less than -60dB	
Damping Factor RL=8 , 1kHz		More than 100	
Maximum Input Level			+22dBu
Input Impedance		20k (balanced), 10k(unbalanced)	
Controls	Front Panel	POWER switch x 1 (push on/push off), Attenuator x 4 (31position)	
	Rear panel	MODE switch x 2 (STEREO/BRIDGE/PARALLEL), HPF switch x 2 (20Hz/55Hz/OFF) (12dB/oct)YS	
Connectors	Input	XLR-3-31 type x 4, Euroblock connector x 4 pairs (balanced)	

	Output	5-way binding post x 4 pairs
	Monitor/Remote	D-SUB 15P x 1
	AC IN	AC inlet x 1
Indicators		POWER/STAND-BY x 1 (Green/Orange), PROTECT/MUTE x 4 (Red), SIGNAL x 4 (Green), CLIP/LIMIT x 4 (Red)
Load Protection		POWER switch on/off mute, DC-fault: output relay Off (Restored automatically) Clip Limiting: THD 0.5%
Amplifier Protection		Thermal: Output Mute (heatsink temp 90°C) (Restored automatically), VI limiter (RL 2): Limits the
Power Supply Protection		Thermal: Amplifier shuts down automatically (Operation not restored automatically, heatsink temp 90°C)
Cooling Fan		Variable-speed fan x 1
Power Requirements		120V, 220V-240V; 50Hz/60Hz

Stereo Speakers

- Single 8" woofer (IF2108) or dual 8" woofers (IF2208) plus 1.7" high compression
- frequency compression driver with 1" exit.
- 90° x 60° dispersion pattern.
- Multi-angle cabinet design enables floor monitor applications.
- Horn can be rotated 90-degrees, allowing vertical or horizontal mounting.
- Eleven 10mm-screw (M10) and six 8mm-screw (M8) suspension points • screw (M6) provided for flexible rigging.
- Durable black or white finish (can be painted to match any interior).
- Optional matching U-bracket available.
- Parallel-wired two Neutrik NL4 and barrier strip connectors.
- Pole socket featured for easy pole mounting

Audio Mixer

Fader Configuration	: 16 + 1 (Master)
Mixing Capacity	
- Input Channels	40(32 mono + 2 stereo+2 return)
- Main Buses	Stereo + Sub
- Auxiliary Bus	20(8 mono + 6 stereo)
- Groups	8 DCA Groups
I/O Connectors - Inputs	16 mic/line(XLR/TRS Combo) + 2 stereo line (RCA pin)
Outputs	16 XLR
Expansion Slots	1
Signal Processor	8 effects + 10 GEQ
Recording - Via Windows/Mac	34x34 USB Audio Interface
- Via USB Storage device	2 track
Sampling Frequency	48 KHz
Signal Delays	<2.6mS, Input to OMNI OUT, Fs=48KHz

Fader	100 mm motorized, Resolution=10 bit, +10 dB to -138 dB
Frequency Response	+0.5,-1.5 dB 20Hz to 20 KHz, refer to +4dBu output@1 KHz, INPUT TO OMNI OUT
Total Harmonic Distorsion	,0.05% 20Hz-20KHz@+4dBu into 600 ohms, INPUT TO OMNI OUT, Input Gain=Min.
Hum and Noise	-128 dBu typ, Equivalent Input Nise, Input gain=Max, -85 dBu, residual Output Noise, ST Master Off
Dynamic range	110 dB typ, DA Converter. 107 dB typ. INPUT TO OMNI OUT, Input gain=Min
Crosstalk@1 KHz	-100 dB, adjacent INPUT/OMNI OUT channels, Input Gain=Min

AV Switcher Specifications

INPUTS:
8 universal Y/CV, Pb/C, Pr (composite, s+Video and component) 1 Vpp/75Q on RCA connectors;
2 UXGA on a 15-pin HD connector (VGA through UXGA);
2 HDMI connectors;
1 USB connector;
OUTPUTS:
1 HDMI connector
1 UXGA format on a 15-pin HD connector;
1 unbalanced audio stereo output (1V nom./SOQ) on RCA connectors;
1 digital stereo S/PDIF output (32kHz to 96kHz sample frequency /75Q) on an RCA connector.
COMPLIANCE WITH HDMI STANDARD:
Supports HDMI and HDCP.
OUTPUT RESOLUTION:
Native HDMI, 640x480x60Hz, 640x480x75Hz, 800x600x50Hz, 800x600x60Hz, 800x600x75Hz, 1024x768x50Hz, 1024x768x60Hz, 1024x768x75Hz, 1280x768x50Hz, 1280x768x60Hz, 1280x720x60Hz, 1280x800x60Hz, 1280x1024x50Hz, 1280x1024x60Hz, 1280x1024x75Hz, 1366x768x50Hz, 1366x768x60Hz, 1400x1050x50Hz, 1400x1050x60Hz, 1600x1200x50Hz, 1600x1200x60Hz, 1680x1050x60Hz, 1920x1080x60Hz, 1920x1200x60Hz, 480px60Hz, 576px60Hz, 720px50Hz, 720px60Hz, 1080i.x50Hz, 1080ix60Hz, 1080px50Hz, 1080px60Hz, 720x480x59.94Hz, 1280x720x59.94Hz, 1920x1080ix59.94Hz, 1920x1080x23.98Hz, 1920x1080x29.97Hz, 1920x 1080x59.94 Hz or custom.
CONTROL:
Front panel buttons/OSD, IR remote control, RS-232 on a 9-pin D-sub connector.
EXTRA CONTROLS:

Picture-In-Picture: Video-in-Graphics (or vice versa), Picture-and-Picture or Split Screen (two images side-by-side), freeze, zoom, different selectable vertical refresh rates, video and audio ProcAmp control, output image scaling and aspect ratio change, EDID capture, text overlay, slide show.

POWER CONSUMPTION:

100-240V AC, 50/60Hz, 30VA automatic power supply
Rack mountable.

ACCESSORIES TO INCLUDE:

Null-modem adapter, rack "ears", IR remote control, 2 sets of C-SF /2RVM-0.5 cables, power cord, control application program via RS-232 (PC) and via Ethernet (i-Phone® and PC).

INTEGRATED CONTROLLER SPECIFICATIONS

Serial Ports
7 Configurable RS-232 / RS-422 / RS-485 Serial ports
8 Relays
8 IR / Serial ports
8 Digital I/ O ports
Communication Networks
3 Communication Networks: Ax.Link, ICSNet and Ethernet (TCP /IP)
Processor Speed
404 MIPS processor speed
RAM
64 MB RAM or 256 MB RAM
Flashcom
2 GB CompactFlash (upgradeable to 4 GB)
1 MB Non-Volatile Memory
CONTROLLER TOUCH SCREEN DISPLAY
Panel Type TFT Color Active-Matrix
Active Screen Area (VH) 7 3/4" x 4 1/2" (19.7 cm x 11.8 cm), 9" (diagonal)
Resolution (WH) 800 x 480 pixels (HV) @ 60 Hz refresh rate

Aspect Ratio (WH) 16:9
Brightness 400 cd/ m2
Channel Transparency 8-bit Alpha blending
Contrast Ratio 900:1 max
Dot/pixel pitch 0.246 mm
Viewing Angle (Up/Down/Left/Right) 85/85/85/85
AUDIO
Mono Speaker 4 Ohm, 2 Watts 300Hz cut-off frequency

INTEGRATED CAMERA SPECIFICATIONS

MAIN FEATURES

- 18xOptical zoom (10xdigital zoom)
- 1 /3 TYPE Full-HD MOS Sensor
- Dynamic range stretch for minimizing saturation in highlight and block in dark area
- Pan, Tilt, Zoom and Focus operations equipped
- Hybrid Digital Noise Reduction that allows clear shooting with minimal afterimages even in dimly lit situations
- Versatile terminals: HD/SD SDI output, analog component(D-sub15) output and HDMI connector
- Pan of ± 175 degrees
- Tilt of ± 90 to -30 degrees

TECHNICAL SPECIFICATIONS**IP Image Transmission**

- Image compression method: J-PEG(M-JPEG)/H.264
- Image Resolution: VGA (640x480) (16.9 Letterbox:640x320)
QVGA (320X240) (16.9 Letterbox: 320x180)

Camera • Image sensors: 1/3 TYPE Full-HD MOS

- Lens : Motorized 18xzoom, F1.6 to F2.8(f=4.7mm to 84.6mm, 35mm equivalent:36.9mm to 664.Srrun)
- Focus Distance : Entire zooming range l .Om wide end:30cm
- Output Format: 1080/59.94p/i, 1080/29.97PsF, 720/59.94p, 480/59.94p/i,
1080/50p/i, 1080/25PsF, 720/50p, 576/50p/i

Pan Tilt Mechanism

Installation Method : Stand-alone(desktop) or suspended(hanging) Pan/Tilt Operation Speed :

Max 90 degrees per second

Tilt Range : 90 to -30 degrees

Quietness: NC36(at normal speed), NC40(when preset)

Preset Positions : 100

Input/output Connector: RJ45(IP)/rs422A(I'v1ulti-IF)

Camera Controller: Must be compatible in all respects with proposed cameras.

LAPTOP SPECIFICATIONS

Specifications	Minimum Requirement	
Make & Model		

CPU	Intel® Core™ 2 Duo Processor min 2.6GHz (FSB 1066Mhz) 4MB L2 Cache
Memory	4096 MB SDRAM (DDR2) Two Dual Channel DDRII 667Mhz SODIMM Slot
Video System	15.4" WXGA LCD (1280 X 800) Resolution, Daylight Readable with touch screen.
Hard Disk	320GB hard drive Anti Shock Mounted HDD (Safety of Vibration & Transportation)
Communication	Internal 56Kbps V.90 Fax/Modem
LAN/Wireless	Integrated 10/100/1000Mbps Ethernet . Integrated Mobile broadband (WWAN). Internal Intel® Pro/Wireless 3945ABG 802.11a/b/g. Intel® Mini Express Wireless LAN 802.11n. Bluetooth EDR 2.0
PCM CIA	PCMCIA 2.1 Compliance, Supports One Type II PC Card Slot 32-Bit PC Card Bus 1.0 Architecture
Keyboard & Input	Spill Proof Keyboard (85 US Keys with Windows Logo) Spill-Resistant CFace (including Keyboard, Touchpad, Speakers, LED)
Optical Media Drive	DVD Writer
I/O Devices	One Smart Card Socket 4 in 1 Media Card Reader Support MS I MS Pro / SD / MMC
I/O Ports	Three USB2.0, 15 Pin D-Sub Connector for External Monitor, Line-Out Phone Jack for External Speakers. Mic-In Phone Jack for External Microphone, RJ-11 (56K V.90Modem), RJ-45(Ethernet -10/100/1000MB). IEEE-1394 Fire Wire, 9 Pin D-Sub Connector for RS-232 Serial Port, DC- In Jack, Type II Express Card 34/54 Slot
Audio	Compliant to Intel® High Definition Audio (Azalia) 24Bit output. Built in Stereo Mic. Array. 2 1.5Watt Stereo Speakers
AC Adapter	Input: 100 - 240V Auto-Sensing, 50 - 60Hz Output: 20Volts, 3.25 Amps, 65 Watts
Battery	Lithium ion battery pack(11.7V, 7.8 Ah). Battery operation: approx. 8hrs
Operating System	Preinstalled Genuine Windows 7 Professional / XP Professional Down gradable and preinstalled restore partition to restore to factory settings
Carry Bag	Standard: Vinyl Carrying Bag with Strap
Available mandatory Accessories	Transflective Sunlight Readable LCD, Touch Screen stylus with tether hole, Battery Charger, A/C Adapter
Environmental Specifications	
Temperature	Operating: 5°C to 35°C; Storage Temperature: -20°C to 60°C
Humidity	20% to 80% RH, Non-condensing

Vibration	MIL-STD-810F, Method 514.4, Procedure I, Category 10, Fig 16 & 17/ASTM 4169 Truck Transport, 11.5.2 Random Test, Assurance Level II	
Drop	MIL-STD-810F, Method 516.4, Procedure IV.	
Enclosure/Case	Magnesium Alloy Case Rubber Protection Surrounding LCD	
Security	Administrator Password, Boot Password, Trusted Platform Module (TPM1.2) Cable lock slot	
Warranty	1-year limited warranty, Parts and labor	

WAP SPECIFICATIONS

This access Point should cover about 200 Meters radius creating a secure wireless hotspot around the county Assembly chambers and meet the following specifications.

Feature	Required
Data Rates	Data rates of 54 Mbps in the 2.4-GHz band Supported 802.11g: 1, 2, 5.5, 6, 9, 11, 12, 18, 24, 36, 48, and 54 Mbps
Range	Bridge range of 1 kilometers (km) at 54 Mbps
Throughput	Aggregate throughput approaching 28 Mbps
Frequency Band	Americas (FCC) 2.412 to 2.462 GHz; 11 channels ETSI 2.412 to 2.472 GHz; 13 channels Israel 2.432 to 2.472 GHz; 9 channels Japan (TELEC) 2.412 to 2.472 GHz; 13 channels Orthogonal Frequency Division Multiplexing (OFDM) 2.412 to 2.484 GHz; 14 channels Complementary Code Keying (CCK)
Antenna	2.4 GHz, Dual RP-TNC connectors

Security	<p>Authentication</p> <p>Security Standards</p> <ul style="list-style-type: none"> •WPA <ul style="list-style-type: none"> • WPA2 (802.1 li) • TKIP • Message integrity check (MIC) • IEEE 802.11 WEP keys of 40 bits and 128 bits <p>802.IX EAP types:</p> <ul style="list-style-type: none"> • EAP-Flexible Authentication via Secure Tunneling (EAP-FAST) • Protected EAP-Generic Token Card (PEAP-GTC) • PEAP-Microsoft Challenge Authentication Protocol Version 2 (PEAP- MSC HAP) • EAP-Transport Layer Security (EAP-TLS) • EAP-Tunneled TLS (EAP-TfLS) • EAP-Subscriber Identity Module (EAP-SHvI) • LEAP <p>Encryption</p> <ul style="list-style-type: none"> • AES-CCMP encryption (WPA2) • TKIP (WPA) <ul style="list-style-type: none"> •TKIP <ul style="list-style-type: none"> • WPA TKIP • IEEE 802.11 WEP keys of 40 bits and 128 bits
Housing	Die-cast aluminum

CABINETS Specifications

- EIA 310-D Standards
- Must have 4-gang power outlet
- 16U
- **Load Rating** 147 kg.
- Wall mounted
- Removable top, bottom, and side panels make for easy moves, adds, and changes (MAC's)
- Easily integrates with accessories such as power, cooling, and cable management
- Field reversible doors for left or right swing
- Includes M6 hardware - (25 pk. cage nuts and screws)
- Powder coating for a durable high-quality finish

PRINTER Specifications

Duplex Print options: Manual and Automatic

Print Speed: Up to 40 ppm

Print Technology: Laser

Print resolution: Up to 1200 x 1200 dpi

Cartridge Technology: Job Storage with PIN printing

Connectivity

Standard connectivity 1 Hi-Speed USB 2.0; 1 Host USB; 1 Gigabit Ethernet 10/100/1000T network 1 HiSpeed USB 2.0; 1 Host USB; 1 Gigabit Ethernet 10/100/1000T network; 1 Wireless 802.11b/g/n Network ready Standard (built-in Gigabit Ethernet) Standard (built-in Ethernet, Wi-Fi) [Operates as both an AP (with Wi-Fi Direct) and STA]

Network capabilities Via built-in 10/100/1000Base-TX Ethernet, Gigabit; Auto-crossover Ethernet; Authentication via 802.1X Via built-in 10/100/1000 Base-TX Ethernet, Gigabit;

Auto-crossover Ethernet; Authentication via 802.1X

Built-in Wi-Fi; Authentication via WEP, WPA/WPA2, WPA Enterprise;

Encryption via AES or TKIP; WPS; Wi-Fi Direct

Memory Standard/Maximum: 128 MB

Duty cycle⁴: Up to 80,000 pages;

Paper handling: Input 100-sheet tray 1, 250-sheet input tray 2; **Optional:** third 550-sheet tray, Output 150sheet output bin

Fonts and typefaces: 84 scalable TrueType fonts

Control panel : 2-line backlit LCD graphic display; Buttons (OK, Menu, Cancel, Back); LED indicator lights (Attention, Ready) 2-line backlit LCD graphic display; Buttons (OK, Menu, Cancel, Back,Wi-Fi); LED indicator lights (Attention, Ready, Wi-Fi)

Power supply required: 220 to 240 VAC (+/- 10%), 50/60 Hz (+/- 2 Hz)

Power consumption: 591 watts (Active Printing)

Acoustic Acoustic power emissions: 7 6.8 B (A);

Acoustic power emissions (ready): Inaudible;

Acoustic pressure emissions bystander (active, printing): 54 dB(A);

Environmental ranges Operating temperature range: 15 to 32.5° C (59 to 90.5° F);

Recommended operating temperature: 17.5 to 25° C (63.5 to 77° F);

Recommended operating humidity range: 30 to 70% RH;

Security management Embedded Web Server: password-protection, secure browsing via SSL/TLS;

Network: enable/disable network ports and features, SNMPv1 & SNMPv2 community password change; SASL authentication; Firewall and ACL; SNMPv3, 802.1X, Secure Boot

Embedded Web Server: password-protection, secure browsing via SSL/TLS; Network: enable/disable network ports and features, SNMPv1 & SNMPv2 community password change;

SASL authentication; Firewall and ACL; SNMPv3, 802.1X, Secure Boot, authentication via WEP, WPA/WPA2 Personal, WPA2 Enterprise; Encryption via AES or TKIP

Safety approvals and requirements: IEC 60950-1:2005 +A1:2009+A2:2013/EN 60950-1:2006
+A11:2009+A1:2010+A12:2011+A2:2013; IEC 60825-1:2007/EN 60825-1:2007 (Class 1 Laser/LED Product); IEC 62479: 2010/EN 62479: 2010; GB4943-2011

Supported network protocols: TCP/IP, IPv4, IPv6; Print: TCP-IP port 9100 Direct Mode, LPD (raw queue support only), Web Services Printing etc

UN-INTERRUPTIBLE POWER SUPPLY Specifications

Output

Output Power Capacity	10 kVA
Max Configurable Power	10 kVA
Nominal Output Voltage	230V
Output Voltage Distortion	Less than 5%
Output Frequency (sync to mains)	50/60 Hz +/- 3 Hz user adjustable +/- 0.1
Other Output Voltages	220, 240
Crest Factor	3 : 1
Topology	Double Conversion Online
Waveform Type	Sine wave

Output Connections

	(1) Hard Wire 3-wire (H N + G)
	(1) Hard Wire 5-wire (3PH + N + G)
	(8) IEC 320 C19
	(2) IEC Jumpers
Overload Operation	60 seconds @ 125% and 30 seconds @ 150%
Bypass	Built-in Static Bypass, Internal Bypass (Automatic and Manual), Optional External Bypass

Input

Nominal Input Voltage	230V, 400V 3PH
Input Frequency	40 - 70 Hz (auto sensing)

Input Connections

Hard Wire 3 wire (1PH+N+G)

Hard Wire 5-wire (3PH + N + G)

Input voltage range for main 280V operations	160 -
Other Input Voltages	220, 240
Maximum Input Current	90A
Input Total Harmonic Distortion	Less than 5% for full load

Batteries & Runtime

Battery Type	Maintenance-free sealed Lead-Acid battery
Typical recharge time	<= 2.50 hour(s)
Nominal Battery Voltage	+/-192 V (split battery referenced to neutral)
Efficiency in Battery Operation	>= 93.00%

Communications & Management

Interface Port(s)	DB-9 RS-232, RJ-45 10/100 Base-T, Smart-Slot
Control panel	Multi-function LCD status and control console
Audible Alarm	Audible and visible alarms : configurable delays
Surge Protection and Filtering	
Filtering	Full time multi-pole noise filtering : 0.3% IEEE surge let-through : zero clamping response time : meets UL 1449
Online Thermal Dissipation	2800.00 BTU/hr
Conformance	
Regulatory Approvals	EN/IEC 62040-2, EN/IEC 62040-1-1, VDE
Standard Warranty	2 years
RoHS	Compliant

5.1.5.21 TRAINING

- The supplier is to provide training on operations of the equipment to the County Assembly's Technical personnel on all system
- On-site training (On the Job Training)
- Manufacturers' Premises Based Training (Optional)

5.1.5.22 SUPPLY INSTALLATION, TESTING AND COMMISSIONING

- The supplier is responsible for the supply and delivery of the equipment up to the County Assembly, complete installation, testing and commissioning to hand over a complete working system.
- All cables to be labeled properly and installation diagram provided. (Documentation)

5.1.5.23 WARRANTY AND SPARE PARTS

- The supplier is to provide warranty for the equipment for not less than one (1) year and;
- The supplier to provide a list of required spare parts for the next 5 years after commissioning

5.1.5.24 INTEGRATION

- The supplier is responsible for the total integration of the system including conformance to the Kenya electrical power supply system of 240 V, 50 HZ and tropicalization of the equipment.

5.1.5.25 ITEMIZED COSTING

The supplier will be required to provide itemized costs for the items listed in the Tender.

EVALUATION CRITERIA**Table 1: Pre- qualification checklist for Completeness and responsiveness**

S/No.	Completeness and Responsiveness Criteria	Requirement
1.	Form of Bid	- Amount must be indicated - Properly fill and sign
2.	Bid Security	- Bid Security required
3.	Confidential Business Questionnaire	-Properly fill and sign -Provide all required information
4.	Tax Compliance Certificate	- Valid
5.	Registration with National Construction Authority	- Attached
6.	Certificate of Incorporation	-Attached
7.	Priced Bill of Quantities	- Fill rates as necessary, prices and amounts
8.	Eligibility	- Copies of National ID or passport for at least two directors
9.	Conflict of interest	- Properly fill and sign
10.	Debarment	- Properly fill and sign
11.	Litigation History	- Fill in information and sign
12.	Schedule of Key Personnel	- Properly fill and sign
13.	Works Completed Satisfactorily	- Properly fill and sign

14.	Schedule of Ongoing Projects	- Properly fill and sign
15.	Schedule of other Supplementary Information / Financial Standings	- Properly fill and sign
16.	Copy of Bid Document	- Replica of the original
17.	Original Bid Document	- All information requested fully filled/signed
18.	Signatures	-All signatures should be the ones in the Power of Attorney
REMARKS		

Key: QC – Qualification Criteria

Table 2: Post-qualification/Technical Score

Points Award Guidelines

		Evaluation Factor	Evaluation Items	Maximum Points	
1	a) Business Registration		i) Multinational Company	3	
			ii) Limited company	2	
			iii) Partnership	1	
			iv) Sole Proprietorship	1	
			v) Business Permit	1	
			vi) PIN Certificate	1	
			vii) VAT Certificate	1	
			viii) Tax Compliance Certificate	1	
	b) Registration Status by MOR&PW		i) Registered Contractor Class A	3	
			ii) Registered Contractor Class B	2	
			iii) Registered Contractor Class C	1	
			iv) Ministry of Energy Regulatory Commission, Class A	Mandatory	
			v) Registered by National Construction Authority	Mandatory	
	c) Operations Business Experience		i) Over 11 years	10	
			ii) 10 years	9	
			iii) 9 years	8	
			iv) 8 years	7	
			v) 7 years	6	
			vi) 6 years	5	
			vii) 5 years	4	
			viii) 4 years	3	
	d) Construction Experience on relevant projects		i) 3 works similar in nature and complexity over last 5 yrs	10	
			ii) Storeyed works	4	
iii) High class finishing			N/A		
iv) Value of works			5		
e) Recommendations from Referees worked for		i) More than 2 referees	3		
		ii) 2 referees	2		
		iii) 1 referee	1		
		iv) Completion certificates	1		
		v) Diversification of projects	1		
2 PERSONNEL, RESOURCES & EQUIPMENT	a) Personnel resources	i) Contract Project Manager	Competence and Relevant Qualification	Degree	4
			National Diploma	3	
		Years of experience	Certificate	2	
			5 - 10 years	3	
		10 years and above	5		
		ii) Qualified Accountant		1	
	iii) Procurement Officer		1		
	iv) Number of Additional Technical Staff		5		
	b) Plant & Equipment		i) Organization's Plant and Equipment	8	
			ii) Any Additional Equipment	3	
			iii) Head Office and Organization Premises	3	
	c) Financial Resources		i) 3 Years' Audited Accounts	6	
			ii) 3 Years' average annual turnover twice estimated(KSh.40M)	2	
			iii) Twice as above (KSh.80M)	4	
			iv) Current proof of access to credit of maximum KSh. 5M	3	
			v) Financial Ratios, Acid-test Ratio (awarded by multiplying ratio by3)	3	
vi) Cash Ratio			2		
Total Points				154	

KEY PERSONNEL

DESIGNATION	NAME	NATIONALITY	SUMMARY OF QUALIFICATIONS AND EXPERIENCE		
			Qualifications	General Experience (Yrs)	Specific Experience (Yrs)
Headquarters Partner/Director or other key staff (give designation)					
Site Office Site Agent Other					

Note: The Bidder shall list in this schedule the key personnel he will employ from the Contractor's headquarters and from the Contractor's site office to direct and execute the work together with their qualifications, experience, position held and nationality. Bidders shall attach certified copies of academic certificates, evidence of current employment (employment letter), signed and certified CVs of all key staff and certified copies of academic certificates.

I certify that the above information is correct.

.....
(Signature of Bidder)

.....
(Date)

SCHEDULE OF BUILDING CONSTRUCTION WORKS CARRIED OUT BY THE BIDDER IN THE LAST THREE YEARS

DESCRIPTION OF WORKS	NAME OF CLIENT	VALUE OF WORKS (KSHS) *	YEAR COMPLETED/ REMARKS
<u>A) Non-completed Works (beyond completion date)</u> <u>B) Completed Works</u> <u>C) Specific Construction Experience</u>			

Note: Bidders shall attach certified copies of letters of award (for each listed project), certified copies of completion certificates (for completed projects) and any certified evidence for executed works for non-completed projects e.g. copy of recent payment certificate.

I certify that the above works were successfully carried out by this Bidder.

.....
(Signature of Bidder)

.....
(Date)

SCHEDULE OF ONGOING PROJECTS

DESCRIPTION OF WORKS	NAME OF CLIENT	DATE OF COMMENCEMENT	DATE OF COMPLETION	VALUE OF WORKS (KSHS)	VALUE COMPLETED UP TO DATE %	PHYSICALLY COMPLETED UP TO DATE %

Note: 1. Bidders shall attach certified copies of letters of award (for each listed project) and any certified evidence for executed works e.g copy of recent payment certificate.

2. Bidders must indicate all their on-going works as at the time of bidding. Any nondisclosure shall constitute non-responsiveness)

I certify that the above works are being carried out by me and that the above information is correct.

.....
(Signature of Bidder)

.....
(Date)

FINANCIAL STANDING

- 1 Submit copies of audited profit and loss statements, balance sheet and Cash flow statements for the last two calendar years and estimated projection for the next two years with certified English translation where appropriate. These must be signed by Certified Public Accountant recognized by ICPAK and at least one Director.
- 2 Give turnover figures for each of the last two (2) financial years. Quote in millions and decimal thereof.

	Year 2016	Year 2017
	Ksh.	Ksh.
Lift Installations		
Other (specify)		
Total		

SUMMARY OF ASSETS AND LIABILITIES OF THE AUDITED FINANCIAL STATEMENTS OF THE LAST TWO (2) FINANCIAL YEARS.

	Year 2016	Year 2017
	Ksh.	Ksh.
1. Total Assets		
2. Current Assets		
3. Bank Credit Line Value		
4. Total Liabilities		
5. Current Liabilities		
6. Net Worth (1-5)		
7. Working capital (2+3-5)		

- (a) Name/Address of Commercial Bank providing credit line

.....

- (b) Total amount of credit line Ksh.....

Attach certified copies of financial bank statements of the last two years.

Attach a certified copy of Undertaking of the Bank to providing the credit.

OTHER SUPPLEMENTARY INFORMATION

Financial reports for the last two years, balance sheets, profit and loss statements, auditors' reports etc. List them below and attach copies.

.....
.....
.....
.....

Evidence of access to financial resources to meet the qualification requirements. Cash in hand, lines of credit etc. List below and attach copies of supporting documents

.....
.....
.....
.....

Name, address, telephone, telex, fax numbers of the Bidders Bankers who may provide reference if contacted by the Contracting Authority.

.....
.....
.....

Sign

Date

LITIGATION HISTORY

Information on current litigation in which the Bidder is involved.

OTHER PARTY (IES)	CAUSE OF DISPUTE	AMOUNT INVOLVED (KSHS)

I certify that the above information is correct.

.....
Signature of Bidder

.....
Date

DEBARMENT FORM

We (name and address) _____ declare the following:

- a) Have not been debarred from participating in public procurement.
- b) Have not been involved in and will not be involved in corrupt and fraudulent practices regarding public procurement.

Name of Bidder

Signature

Date

(To be signed by authorized representative and officially stamped)

PART C

BILLS OF QUANTITIES

FOR MULTIMEDIA SYSTEM INSTALLATIONS

SUB-CONTRACT

**WEST POKOT COUNTY ASSEMBLY - ELECTRICAL SERVICES
PARLIAMENTARY MULTIMEDIA SYSTEM AND AUDIO VISUAL INSTALLATION**

ALL RATES TO INCLUDE 16% VAT

Page 1

ITEM NO.	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
					KSHS
	SUPPLY, DELIVER, INSTALL, TEST, & COMMISSION THE FOLLOWING.				
A	Speaker points wired in 245 Ohms PVC insulated speaker copper cables drawn in already installed conduits by others with all accessories but excluding Speakers	8	No.		
B	IP integrated robotic video camera broadcast quality as per the technical specification which is capable of interacting with the delegate units as Vaddio RoboSHOT 12 HDBT or an approved superior	4	No.		
C	Integrated controller	1	No.		
	AUDIO EQUIPMENT				
D	Conference gooseneck microphone equipment with push-to-speak buttons c/w delegate units, necessary cabling as Bosch or an approved equivalent	50	No.		
E	Chairperson's microphone unit	1	No.		
F	Central control unit with upto 100 microphones	1	No.		
G	10 KVA Uninterruptible Power Supplies (w/o IEC power cord) for 40 to 60 Microphone Stations Rack mountable	1	No.		
H	Conference Management System software to support 60 complete with all modules, attendant work station including digital recording software	1	No.		
I	Wireless handheld microphones system c/w with all it's accessories as per the technical specification	2	No.		
J	Ceiling Speakers 8" 70/100v 6/10/15/20/30 Watts as Mitsuba or approved equivalent	4	No.		
K	Wall mounted Speakers as TOA PC 70/100v 6/10/15/20/30 Watts or approved equivalent	4	No.		
Total carried forward to price next page					

**WEST POKOT COUNTY ASSEMBLY - ELECTRICAL SERVICES
PARLIAMENTARY MULTIMEDIA SYSTEM AND AUDIO VISUAL INSTALLATION**

Page 2

ALL RATES TO INCLUDE 16% VAT

ITEM NO.	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
					KSHS
				<u>B/F</u>	
A	Delegate units - Braille	1	No.		
B	Smart card encoders	1	No.		
C	Smart cards	51	No.		
D	Interpreter console	1	No.		
E	Stereo headsets	1	No.		
	PRESENTATION EQUIPMENT				
F	LCD/LED flat screen 60" as Samsung or approved equivalent	2	No.		
G	Touch-screen desktop for the speaker, clerks and controllers	3	No.		
H	Live streaming system	1	No.		
I	Stylus pen, wireless mouse and keyboard	3	No.		
	Total carried forward to price next page				

**WEST POKOT COUNTY ASSEMBLY - ELECTRICAL SERVICES
PARLIAMENTARY MULTIMEDIA SYSTEM AND AUDIO VISUAL INSTALLATION**

Page 3

ALL RATES TO INCLUDE 16% VAT

ITEM NO.	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
					KSHS
	CHAMBER CONTROL ROOM			<u>B/F</u>	
A	Video/Audio switcher-Portable as per the technical specification	1	No.		
B	Video distribution amplifier as per the technical specification	1	No.		
C	Audio distribution amplifier as TOA Video Matrix per the technical specification or an approved equivalent	1	No.		
D	Central control unit as per the technical specification	1	No.		
E	Audio power amplifier as per the technical specification	1	No.		
F	Audio mixer	1	No.		
G	LED/LCD/Plasma monitor as Samsung 60" or approved equivalent	1	No.		
H	Audio monitors as presonus eriss 8.5 or an approved equivalent	1	No.		
I	DVD player/Recorder as per the technical specification	1	No.		
J	Analog and DVB-T TV receivers	1	No.		
K	Viewer distribution control/selector switch	1	No.		
L	Equipment racks	1	No.		
	EDITING ROOM				
M	Editing workstation as per the technical specification	1	No.		
N	Recording/player machine as per the technical specification	1	No.		
O	Video monitor with inbuilt speakers as per the technical specification	1	No.		
P	Audio monitors as per the technical specification	1	No.		
Total carried forward to price next page					

**WEST POKOT COUNTY ASSEMBLY - ELECTRICAL SERVICES
PARLIAMENTARY MULTIMEDIA SYSTEM AND AUDIO VISUAL INSTALLATION**

Page 4

ALL RATES TO INCLUDE 16% VAT

ITEM NO.	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
					KSHS
	MAIN CONTROL ROOM			<u>B/F</u>	
A	AV/RF CONVERTER/ RF Modulator as per the technical specification	1	No.		
B	Multiplexer/RF combiner as per the technical specification	1	No.		
C	Splitter units/ Video distribution modules as per the technical specification	1	No.		
D	Video storage server as per the technical specification	1	No.		
E	Printer	1	No.		
F	Cabling and trunking materials (lot)	1	Lot		
Total carried forward to summary page					

WEST POKOT COUNTY ASSEMBLY - ELECTRICAL SERVICES

SUMMARY OF TENDER PAGE

PARLIAMENTARY MULTIMEDIA SYSTEM AND AUDIO VISUAL INSTALLATION

Total Brought Forward from :

: PC SUM FOR SMATV.....KShs..... 700,000

: Page 4 (AUDIO VISUAL).....KShs.....

Sub Total inclusive of VAT.....KShs.....

TOTAL CARRIED TO FORM OF TENDER.....KShs.....

**NB: Drawings are part of tender documents.
Rates to include VAT and other relevant taxes**

Name of Tenderer:.....

Address of Tenderer:.....

Signature and Stamp of Tenderer:..... Date: