



# Kenya Power

*The Kenya Power & Lighting Co. Ltd.  
Central Office – P.O. Box 30099, Nairobi, Kenya  
Telephone – 254-02-3201000  
Fax No. 254-02-3201889  
Stima Plaza, Koloboi Road*

*Our Ref:*

*1<sup>st</sup> October, 2019*

M/s .....

Dear Sir,

**RE: ADDENDUM NO. 2 TO THE TENDER NO KP1/9A.2/OT/007/CA/19-20 FOR DESIGN, SUPPLY, INSTALLATION, TESTING, COMMISSIONING, SERVICE AND MAINTENANCE OF IP CCTV SURVEILLANCE AND INTRUDER ALARM SYSTEMS FOR MAJOR COMMERCIAL OFFICES COAST**

The following amendments are made to the specified provisions of the Tender document.

## **1. RELATIONSHIP WITH THE PRINCIPAL TENDER DOCUMENT**

Save where expressly amended by the terms of this Addendum, the Principal Tender Document shall continue to be in full force and effect.

The provisions of this Addendum shall be deemed to have been incorporated in and shall be read as part of the Principal Tender Document.

## **2. Clarifications made to the interested bidders.**

- Schedule of Requirement and Price schedules of Section V page 28 revised as per the amended Schedule of requirement and price schedule attached.
- ISO Certification on Clause 7.2.1.1 under Evaluation criteria amended to allow bidders to submit Valid ISO certification or in case of expiry submit the previous certification and proof of an ongoing process of certification.
- Sub-contracting and Joint Ventures requirement clarified as per **Clauses 7.16,3.2, qualification information on Page 145** and other general/standard terms defining existence and conditions of Joint ventures and sub-contracting in the tender document.
- Warranty requirement under **Clause 3.23.3** of ITT amended to allow at least two years' warranty on CCTV Cameras and one year on any other equipment.
- NCA requirement Clarified as NCA 5 under **Clause 7.1.13** and above in relevant categorization.
- GENETEC Software requirement under Evaluation Criteria **Clause 7.2.1.1** amended to allow removal of mandatory submission of Manufactures Authorization on GENETEC and only allow bidders to submit GENETEC qualification and certification of at least one technical staff as per **Clause 7.1.14(b)**

- Mode of Award of Contract Clarified as per **clause 3.42** of the tender document under ITT to be as whole.
- NVR Clarified as not required as indicated in the Bill of quantities of the tender document

All the other terms and conditions remain as per the tender document.

Yours faithfully,

**For: KENYA POWER & LIGHTING COMPANY LIMITED.**



**JANE NDINYA**

**Ag. MANAGER, SUPPLY CHAIN(PROCUREMENT)**

**SCHEDULE OF REQUIREMENTS**

**A). SCHEDULE SUPPLY, INSTALLATION FOR IP CCTV SYSTEM COMMERCIAL OFFICES MOMBASA.**

Item No.	Brief Description	Voi office		Malindi office		Ukunda office		Electricity House Mombasa	
		Unit of Measure	Qty	Unit of Measure	Qty	Unit of Measure	Qty	Unit of Measure	Qty
1	Vari-focal WDR Dome/Bullet 2MPX WDR	NO.	10	NO.	8	NO.	10	NO.	0
2	32-inch Video Monitor	NO.	1	NO.	1	NO.	1	NO.	0
3	46-inch Video Monitor	NO.	0	NO.	0	NO.	0	NO.	1
4	Client Work station	NO	1	NO.	1	NO.	1	NO.	1
5	Network Video Recorders	NO.	0	NO.	0	NO.	0	NO.	0
6	POE Edge Network Switch	NO.	1	NO.	1	NO.	1	NO.	1
7	1.5kva UPS	NO.	1	NO.	1	NO.	1	NO.	1
8	Access control units	NO.	0	NO.	0	NO.	0	NO.	0
9	IP video licenses(Genetec)	NO.	10	NO	8	NO.	10	NO	0
10	Integration to Genetic NCC and Mombasa Control	Lot	1	Lot	1	Lot	1	Lot	1
11	Cabling, cabinets and associated accessories	Lot	1	Lot	1	Lot	1	Lot	1
12	Installation, Training testing and commissioning	Lot	1	Lot	1	Lot	1	Lot	1

**B) SCHEDULE SUPPLY, INSTALLATION AND COMMISSIONING OF INTRUDER ALARM SYSTEMS COMMERCIAL OFFICES MOMBASA.**

Item No.	Brief Description	Voi office		Malindi office		Ukunda office		Electricity House Mombasa	
		Unit of Measure	Qty	Unit of Measure	Qty	Unit of Measure	Qty	Unit of Measure	Qty
1	Control Panel	NO.	1	NO.	1	NO.	1	NO.	1
2	PIR Detectors	NO	3	NO.	6	NO.	8	NO.	8
3	Ceiling Mount	NO.	0	NO.	0	NO.	2	NO.	4
4	HD Magnetic Contacts	NO.	2	NO.	2	NO.	5	NO.	3
5	Panic buttons	NO.	4	NO.	8	NO.	9	NO.	23
6	GSM	NO.	1	NO.	1	NO.	1	NO.	1
7	Remote Kit	NO.	1	NO	1	NO.	1	NO	1
8	Alarm Expander module	Lot	0	Lot	0	Lot	1	Lot	3
9	Power Supply Unit	No.	1	No.	1	No.	2	No.	3
10	Siren Kit Complete with Strobe and box	No.	1	No.	1	No.	1	No.	1
11	GSM Monitoring Tablet	No.	0	No.	0	No.	0	No.	1
12	Oryx Alarm Monitoring Centre with Mini-base alarm decoder	No.	0	No.	0	No.	0	No.	1
13	Cabling, cabinets and associated accessories	Lot	1	Lot	1	Lot	1	Lot	1
14	Installation, Training and testing and commissioning	Lot	1	Lot	1	Lot	1	Lot	1



**C.) SCHEDULE OF IP CAMERAS TO BE INSTALLED**

**i) SCHEDULE OF IP CAMERAS TO BE INSTALLED –VOI COMMERCIAL OFFICE**

LOCATION	TYPE	QUANTITY
Main Entry street	Outdoor Vari-focal WDR IP- Dome 2MPX WDR– (0-15M-1no wide angle)-oversee main entry and the street	2
Banking hall	Indoor Vari-focal WDR IP- Dome 2MPX –indoor (0-10M)-General hall and main entrance	1
	Indoor Vari-focal WDR IP- Dome 2MPX –indoor (0-10M)-Cashier counters from outside	2
	Outdoor Vari-focal WDR IP- Dome 2MPX –indoor (0-5M-wide angle)-Cashier counters from inside1	1
Rear Entry	Outdoor Vari-focal WDR IP- bullet 2MPX –(0-10M-Covering rear entry grill gate and rear entry to the banking hall from outside	1
Main Entry Corridor	Outdoor Vari-focal WDR IP- bullet/Dome 2MPX (0-20M)-Main building entry corridor	1
Upstairs	Indoor Vari-focal WDR IP- Dome 2MPX –indoor (0-5M)-ICT room room/reception	1
	Indoor Vari-focal WDR IP- Dome 2MPX –indoor (0-5M)-reception	1
<b>TOTAL</b>		<b>10</b>

**ii) SCHEDULE OF IP CAMERAS TO BE INSTALLED –MALINDI  
COMMERCIAL OFFICE**

<b>LOCATION</b>	<b>TYPE</b>	<b>QUANTITY</b>
<b>Banking hall</b>	Indoor Vari-focal WDR IP- Dome 2MPX –indoor (0-10M)-Facing main entrance from the query counter	1
	Indoor Vari-focal WDR IP- Dome 2MPX –indoor (0-10M)-General hall and main entrance from counter	1
	Indoor Vari-focal WDR 2MPX –indoor (0-5M)-Cashier counters from inside	4
<b>Side Corridor</b>	Outdoor Vari-focal WDR IP- bullet 2MPX –(0-20M-Covering side corridor covering grill windows exterior	1
<b>Main Entry Corridor</b>	Outdoor Vari-focal WDR IP- bullet/Dome 2MPX (0-20M)-Main entry corridor	1
<b>TOTAL</b>		<b>8</b>

**iii) SCHEDULE OF IP CAMERAS TO BE INSTALLED –UKUNDA  
COMMERCIAL OFFICE**

<b>LOCATION</b>	<b>TYPE</b>	<b>QUANTITY</b>
Main Entry street	Outdoor Vari-focal WDR IP- Dome 2MPX WDR– (0-15M-1no wide angle)-oversee main entry and the street	2
Banking hall	Indoor Vari-focal WDR IP- Dome 2MPX –indoor (0-10M)-General hall and main entrance	1
	Indoor Vari-focal WDR IP- Dome 2MPX –indoor (0-10M)-General hall and rear entrance	1
Rear yard	Indoor Vari-focal WDR IP- Dome 2MPX –indoor (0-5M-wide angle)-Cashier counters from inside1	2
	Outdoor Vari-focal WDR IP- bullet 2MPX –(0-15M-Covering rear entry gate and yard	1
Main Entry Corridor	Outdoor Vari-focal WDR IP- bullet/Dome 2MPX (0-10M)-Main entry to the building	1
Stores Yard	Outdoor Vari-focal WDR IP- bullet/Dome 2MPX (0-15M)-Rear store Yard	3
Upstairs	Indoor Vari-focal WDR IP- Dome 2MPX –indoor (0-10M)-General hall	1
<b>TOTAL</b>		<b>12</b>

**D.) SCHEDULE OF INTRUDER ALARM SYSTEMS TO BE INSTALLED****i) SCHEDULE OF INTRUDER ALARMS SYSTEM –ELECTRICITY HOUSE**

<b>ITEM</b>	<b>TYPE</b>	<b>QUANTITY</b>
<b>Control Panel</b>	GSM-Based IP- Alarm Control panel 8-zone expandable with 3 keypads	1
<b>PIR Detectors</b>	Indoor Infra- Red detectors	8
<b>Ceiling Mount</b>	360 Deg. Ceiling mount	4
<b>HD Magnetic Contacts</b>	HD Magnet Contacts –front, rear and upstairs doors	3
<b>Panic buttons</b>	Mechanically strong Panics buttons fixed on the counters	23
<b>GSM</b>	GSM Module compatible with Control panel and Existing systems	1
<b>Remote Kit</b>	Long range single zone remote kit with 2 buttons	1
<b>Alarm Expander module</b>	8-Zone expander module	3
<b>Power Supply Unit</b>	3A Power supply Unit	3
<b>Siren Kit</b>	Complete siren Kit with siren, flasher and Box	1
<b>Oryx Alarm Monitoring Centre with Mini-base alarm decoder</b>	Complete with Alarm mini-base decoder, Oryx software with licensing for two years and SMS module to fully integrate the regional alarm and fence systems.	1
<b>A GSM Monitoring Tablet</b>	As per specifications	1
<b>Decommissioning of Existing Alarm System</b>	<b>Allow for removal of existing alarm system and hand over equipment to the client.</b>	<b>LOT</b>





iii) SCHEDULE OF INTRUDER ALARMS SYSTEM –MALINDI COMMERCIAL OFFICE

ITEM	TYPE	QUANTITY
Control Panel	GSM-Based IP- Alarm Control panel 8-zone expandable with 2 keypads	1
PIR Detectors	Indoor Infra- Red detectors	6
HD Magnetic Contacts	HD Magnet Contacts –front, rear and upstairs doors	2
Panic buttons	Mechanically strong Panics buttons fixed on the counters	8
GSM	GSM Module compatible with Control panel and Existing systems	1
Remote Kit	Long range single zone remote kit with 2 buttons	1
Power Supply Unit	3A Power supply Unit	1
Siren Kit	Complete siren Kit with siren, flasher and Box	1
Decommissioning of Existing Alarm System	Allow for removal of existing alarm system and hand over equipment to the client.	LOT
Vibration Sensors	As per Specifications	2

**iv) SCHEDULE OF INTRUDER ALARMS SYSTEM –UKUNDA COMMERCIAL OFFICE**

ITEM	TYPE	QUANTITY
Control Panel	GSM-Based IP- Alarm Control panel 8-zone expandable with 3 keypads	1
PIR Detectors	Indoor Infra- Red detectors(5 banking hall+3 stores)	8
Ceiling Mount	360 Deg. Ceiling mount(1 banking hall+1 stores)	2
HD Magnetic Contacts	HD Magnet Contacts –front, rear and upstairs door(3 banking hall+2 stores)	5
Panic buttons	Mechanically strong Panics buttons fixed on the counters(6 banking hall+3 stores)	9
GSM	GSM Module compatible with Control panel and Existing systems	1
Remote Kit	Long range single zone remote kit with 4 buttons	1
Alarm Expander module	8-Zone expander module(stores)	1
Power Supply Unit	3A Power supply Unit(1 banking hall+1 stores)	2
Siren Kit	Complete siren Kit with siren, flasher and Box	1

**b. DELIVERY OF WORKS.**

The Works to be completed within 12 weeks after signing of the contract.

## SCHEDULE OF RATES AND PRICES

*(TENDERER MUST INDICATE THE CURRENCY OF THE OFFER PRICE)*

### PRICE SCHEDULE FOR GOODS

#### **FOR GOODS FROM ABROAD/OVERSEAS**

(See attached Bill of Quantities)

#### **FOR GOODS FROM THE EMPLOYER'S COUNTRY**

(See attached Bill of quantities)

### PRICE SCHEDULE FOR INSTALLATION & COMMISSIONING

(See attached Bill of quantities)

### PRICE SCHEDULE FOR SERVICES

(See attached Bill of quantities- Unit Price shall include the 12 Months Warranty service and maintenance during the defect Liability period as described in the SLA)

#### NOTE:-

1. The offered unit price MUST be rounded to two decimal places. Where the Tenderer fails to round the offered unit price as required, then, the offered unit price shall be rounded down-wards to two decimal places and used for the purposes of this tender.

#### **Notes on Pricing**

1. The Tenderer shall be deemed to have satisfied himself before tendering as to the correctness and sufficiency of his tender for the work, rates and prices stated in the price schedule, which rates and prices shall cover all his obligations under the contract and all matters and things pertaining to the proper completion, maintenance and certification of the works.

#### **NOTE**

The price schedules as tabulated below serve as a guide and are not exhaustive. The bidder must itemize all items (Hardware, Software(s), Active devices, Passive devices, cabling materials etc) necessary to meet the specifications and requirements of the IP surveillance system as described elsewhere in this document.

2. The prices given shall be verified by the Tenderer as being totally inclusive of all activities required to supply the equipment in accordance with the Contract and to the approval of the Engineer or Engineer's Representative.
3. The bidder shall allow for all applicable Statutory Taxes and Duties.
4. Commissioning works shall include:
  - The charge for service engineers for onsite periods specified by the vendor.
  - Travel time and costs to and from site.
  - Costs of food and lodging



5. Training costs shall include:

- All costs at the training venue including transfers, cost of instructors, training materials, certifications, meals and any other costs related
- Cost of air travel, lodging and per diems shall be borne by the Kenya power and shall therefore be excluded where applicable.

6. Unit Price shall include the 12 Months Warranty service and maintenance during the defect Liability period as described in the SLA as well as the manufacturers equipment warranty as described in the tender.

**BILL OF QUANTITIES**

**(SEE ATTACHED NEXT PAGE)**



**1.0 VOI COMMERCIAL OFFICE -BILL OF QUANTITIES PAGE 1**

**1.1. CCTV SUPPLY, INSTALLATION AND COMMISSIONING**

No	Item Description	Unit	Quantity	Country of origin	Rate in KES	Amount	Part Numbers
			Voi office		KES	KES	
A	Vari-focal WDR Dome 2MPX WDR Dome IP Cameras C/W mount accessories	External	5				
		Internal	5				
B	32 Inch 1080P Industrial LED Monitor C/W mount accessories	No	1				
C	Supply installation and commissioning of Client workstation C/w operating system	No	1				
E	Network Video Recorders (NVR) Hardware servers C/w operating system and 1st Year Service /Support	No	0				
F	Power over Ethernet EDGE Switches – 24 Ports Switch (Catalyst 2960X-24PS-L 24/48-port Gigabit PoE or equivalent and approved by client)with all associated devices and accessories.	No	1				
<b>Total Carried to collection Page 1 Voi Office</b>							

**VOI COMMERCIAL OFFICE BILL OF QUANTITIES PAGE 2**

No	Item Description	Unit	Quantity	Country of origin	Rate in KES	Amount	Part Numbers	
			Voi Office			KES		
A	1.5 kVA Double conversion UPS TRUE online INCLUDING Batteries	No	1					
B	Supply installation and commissioning of IP camera license (per Camera-Genetic)	No	10					
C	Allow for integration of the system to existing GENETIC server NCC and Mombasa control room, which will be done in Liaison and by existing and contracted service provider and Kenya Power Technical team	Lot	1					
D	Cabling, cabinets and associated accessories	Lot	1					
E	Installation, Training testing and commissioning	Lot	1					
<b>Total Carried to collection Page 2 Voi Office</b>								

**VOI COMMERCIAL OFFICE BILL OF QUANTITIES PAGE 3**

**1.2. INTRUDER ALARMS SUPPLY, INSTALLATION AND COMMISSIONING**

ITEM	DESCRIPTION	UNIT	QTY	RATE	KSHS.
A	<b>CONTROL PANEL WITH SOFTWARE AND PROGRAMMING</b> 16-zones input expandable to more than 40 zones and with Keypad zones LCD Keypad with infrared receiver and battery as Pro - Sys 128 or equal and approved. At least more than 4-zones partitioning Accommodate more than 50 user codes 4 or more PGM (programmable output) Allow for IP Module and GSM connection to interface with computers, printer and other computer networks. GSM connectivity to allow events communication via mobile	NO	1		
B	<b>MOTION DETECTORS (PIR)</b> Indoor Dual element sensor. 12m (40ft), 110 view angle. False alarms reduction facilities. Interlock sensor geometry. Automatic temperature compensation. Sensitivity adjustment. Protection from UV rays.	NO	3		
C	<b>POWER SUPPLY UNIT(P.S.U.)</b> Complete with back-up battery (12v, 7AH). Output current 3A. Output voltage 13.6-14vdc on mains power. Load regulation 5% Battery recharges 13 hours.	NO	1		
D	<b>4-Channel LONG RANGE ALARM REMOTE RECEIVER KIT</b> Operating voltage 12vdc. Operating range more than 200m radius. Dip-switch coding facility Momentary/latching relay contacts Complete with two remote buttons.	NO	1		
E	Extra Remotes Buttons	NO	0		
F	<b>SIREN</b> Complete unit with built-in strobe Operating voltage 10-14.5vdc with reverse polarity protection. current(hold-off) siren-230mA(typical) Siren output-11dBA@1M,standby 108dBA@1M. Strobe flash rate-120/min,standby 30/min.	NO	1		
<b>Total Carried to collection Page 3 Voi Office</b>					

**VOI COMMERCIAL OFFICE BILL OF QUANTITIES PAGE 4**

<b>ITEM</b>	<b>DESCRIPTION</b>	<b>UNIT</b>	<b>QTY</b>	<b>RATE</b>	<b>KSHS</b>
<b>A</b>	Extra Keypad	NO	1		
<b>B</b>	Alarm Monitoring Centre Complete with Alarm mini-base decoder, Oryx software with licensing for two years and SMS module to fully integrate the regional alarm and fence systems and Stima Plaza Alarm monitoring system	Lot	0		
<b>C</b>	A GSM Monitoring Tablet	NO	0		
<b>D</b>	<b>ZONE EXPANDER MODULE</b> Compatible with supplied alarm control panel and related modules and accessories.	NO	0		
<b>E</b>	Cabling, cabinets and associated accessories	Lot	1		
<b>F</b>	<b>CEILLING MOUNT MOTION DETECTOR</b> detection range 12m(40ft) adjustable height(between 1.5m-5.1m) Dual MW + PIR technologies Microprocessor controlled Patented true temperature compensation Superior fluorescent interference rejection Superior RFI immunity LED walk test display Alternate polarity pulse count		0		
<b>G</b>	<b>PANIC BUTTONS</b> Strong mechanical composition.	No.	4		
<b>H</b>	<b>ADVANCED GSM/GPRS MODULE</b> Central station events reporting Via Voice/sms/E-mail To transmit zone activations and other alarm events such as specific alarm activation zones, arm/disarm users plus time of arm/disarm, loss of power on the system, system failure/restore and others. Support both prepaid and post-paid SIM Cards. Support remote upload and download.	No.	1		
<b>J</b>	Installation, Training testing and commissioning	Lot	1		
<b>K</b>	Radio response Services and 1 year maintenance of the Alarm systems	Quarter	4		
<b>Total Carried to collection Page 4 Voi Office</b>					

**VOI COMMERCIAL OFFICE BILL OF QUANTITIES PAGE 5  
SUMMARY PAGE VOI OFFICE**

No	Item Description	Amount
		KES
A	Total Carried to collection Page 1 Voi office	
B	Total Carried to collection Page 2 Voi Office	
C	<b>Sub-total-1 CCTV</b>	
D	Total Carried to collection Page 3 Voi office	
E	Total Carried to collection Page 4 Voi Office	
F	<b>Sub-total-2 Intruder Alarms</b>	
	<b>GRAND SUMMARY PAGE VOI</b>	
G	Total Cctv	
H	Total intruder alarms	
	<b>TOTAL CARRIED TO COLLECTION PAGE 5 VOI OFFICE</b>	



**2.0 MALINDI COMMERCIAL OFFICE -BILL OF QUANTITIES PAGE 1**

**2.1. CCTV SUPPLY, INSTALLATION AND COMMISSIONING**

No	Item Description	Unit	Quantity	Country of origin	Rate in KES	Amount	Part Numbers
			Malindi office			KES	
A	Vari-focal WDR Dome 2MPX WDR Dome IP Cameras C/W mount accessories	External	6				
		Internal	2				
B	32 Inch 1080P Industrial LED Monitor C/W mount accessories	No	1				
C	Supply installation and commissioning of Client workstation C/w operating system	No	1				
E	Network Video Recorders (NVR) Hardware servers C/w operating system and 1st Year Service /Support	No	0				
F	Power over Ethernet EDGE Switches – 24 Ports Switch (Catalyst 2960X-24PS-L 24/48- port Gigabit PoE or equivalent and approved by client)with all associated devices and accessories.	No	1				
<b>Total Carried to collection Page 1 Malindi Office</b>							

**MALINDI COMMERCIAL OFFICE BILL OF QUANTITIES PAGE 2**

No	Item Description	Unit	Quantity	Country of origin	Rate in KES	Amount	Part Numbers
			Malindi Office			KES	
A	1.5 kVA Double conversion UPS TRUE online INCLUDING Batteries	No	1				
B	Supply installation and commissioning of IP camera license (per Camera-Genetic)	No.	8				
C	Allow for integration of the system to existing GENETIC server NCC and Mombasa control room, which will be done in Liaison and by existing and contracted service provider and Kenya Power Technical team	Lot	1				
D	Cabling, cabinets and associated accessories	Lot	1				
E	Installation, Training testing and commissioning	Lot	1				
<b>Total Carried to collection Page 2 Malindi Office</b>							

**MALINDI COMMERCIAL OFFICE BILL OF QUANTITIES PAGE 3**

**2.2. INTRUDER ALARMS SUPPLY, INSTALLATION AND COMMISSIONING**

ITEM	DESCRIPTION	UNIT	QTY	RATE	KSHS
A	<b>CONTROL PANEL WITH SOFTWARE AND PROGRAMMING</b> 16-zones input expandable to more than 40 zones and with Keypad zones LCD Keypad with infrared receiver and battery as Pro - Sys 128 or equal and approved. At least more than 4-zones partitioning Accommodate more than 50 user codes 4 or more PGM(programmable output) Allow for IP Module and GSM connection to interface with computers, printer and other computer networks. GSM connectivity to allow events communication via mobile	NO	1		
B	<b>MOTION DETECTORS (PIR)</b> Indoor Dual element sensor. 12m (40ft), 110 view angle. False alarms reduction facilities. Interlock sensor geometry. Automatic temperature compensation. Sensitivity adjustment. Protection from UV rays.	NO	6		
C	<b>POWER SUPPLY UNIT(P.S.U.)</b> Complete with back-up battery (12v, 7AH). Output current 3A. Output voltage 13.6-14vdc on mains power. Load regulation 5% Battery recharges 13 hours.	NO	1		
D	<b>4-Channel LONG RANGE ALARM REMOTE RECEIVER KIT</b> Operating voltage 12vdc. Operating range more than 200m radius. Dip-switch coding facility Momentary/latching relay contacts Complete with two remote buttons.	NO	1		
E	Extra Remotes Buttons	NO	0		
F	<b>SIREN</b> Complete unit with built-in strobe Operating voltage 10-14.5vdc with reverse polarity protection. current(hold-off) siren-230mA(typical) Siren output-11dBA@1M,standby 108dBA@1M. Strobe flash rate-120/min,standby 30/min.	NO	1		
<b>Total Carried to collection Page 3 Voi Office</b>					

**MALINDI COMMERCIAL OFFICE BILL OF QUANTITIES PAGE 4**

<b>ITEM</b>	<b>DESCRIPTION</b>	<b>UNIT</b>	<b>QTY</b>	<b>RATE</b>	<b>KSHS</b>
<b>A</b>	Extra Keypad(safe)	NO	1		
<b>B</b>	Alarm Monitoring Centre Complete with Alarm mini-base decoder, Oryx software with licensing for two years and SMS module to fully integrate the regional alarm and fence systems and Stima Plaza Alarm monitoring system	Lot	0		
<b>C</b>	A GSM Monitoring Tablet	NO	0		
<b>D</b>	<b>ZONE EXPANDER MODULE</b> Compatible with supplied alarm control panel and related modules and accessories.	NO	0		
<b>E</b>	Cabling, cabinets and associated accessories	Lot	1		
<b>F</b>	<b>CEILING MOUNT MOTION DETECTOR</b> detection range 12m(40ft) adjustable height (between 1.5m-5.1m) Dual MW + PIR technologies Microprocessor controlled Patented true temperature compensation Superior fluorescent interference rejection Superior RFI immunity LED walk test display Alternate polarity pulse count		0		
<b>G</b>	<b>PANIC BUTTONS</b> Strong mechanical composition.	No.	8		
<b>H</b>	<b>ADVANCED GSM/GPRS MODULE</b> Central station events reporting Via Voice/sms/E-mail To transmit zone activations and other alarm events such as specific alarm activation zones, arm/disarm users plus time of arm/disarm, loss of power on the system, system failure/restore and others. Support both prepaid and post-paid SIM Cards. Support remote upload and download.	No.	1		
<b>J</b>	Installation, Training testing and commissioning	Lot	1		
<b>K</b>	Radio response Services and 1 year maintenance of the Alarm systems	Quarter	4		
<b>Total Carried to collection Page 4 Malindi Office</b>					



**MALINDI COMMERCIAL OFFICE BILL OF QUANTITIES PAGE 5  
SUMMARY PAGE MALINDI OFFICE**

No	Item Description	Amount
		KES
A	Total Carried to collection Page 1 Malindi office	
B	Total Carried to collection Page 2 Malindi Office	
C	<b>Sub-total-1 CCTV</b>	
D	Total Carried to collection Page 3 Malindi office	
E	Total Carried to collection Page 4 Malindi Office	
F	<b>Sub-total-2 Intruder Alarms</b>	
	<b>GRAND SUMMARY PAGE MALINDI</b>	
G	Total Cctv	
H	Total intruder alarms	
	<b>TOTAL CARRIED TO COLLECTION PAGE 5 MALINDI</b>	



**3.0 UKUNDA COMMERCIAL OFFICE -BILL OF QUANTITIES PAGE 1**

**3.1. CCTV SUPPLY, INSTALLATION AND COMMISSIONING**

No	Item Description	Unit	Quantity	Country of origin	Rate in KES	Amount	Part Numbers
			Ukunda office			KES	
A	Vari-focal WDR Dome 2MPX WDR Dome IP Cameras C/W mount accessories	External	7				
		Internal	5				
B	32 Inch 1080P Industrial LED Monitor C/W mount accessories	No	1				
C	Supply installation and commissioning of Client workstation C/w operating system	No	1				
E	Network Video Recorders (NVR) Hardware servers C/w operating system and 1st Year Service /Support	No	0				
F	Power over Ethernet EDGE Switches – 24 Ports Switch (Catalyst 2960X-24PS-L 24/48- port Gigabit PoE or equivalent and approved by client)with all associated devices and accessories.	No	1				
<b>Total Carried to collection Page 1 Ukunda Office</b>							

**UKUNDA COMMERCIAL OFFICE BILL OF QUANTITIES PAGE 2**

No	Item Description	Unit	Quantity	Country of origin	Rate in KES	Amount	Part Numbers
			Ukunda Office			KES	
A	1.5 kVA Double conversion UPS TRUE online INCLUDING Batteries	No	1				
B	Supply installation and commissioning of IP camera license (per Camera-Genetic)	No.	12				
C	Allow for integration of the system to existing GENETIC server NCC and Mombasa control room, which will be done in Liaison and by existing and contracted service provider and Kenya Power Technical team	Lot	1				
D	Cabling, cabinets and associated accessories	Lot	1				
E	Installation, Training testing and commissioning	Lot	1				
Total Carried to collection Page 2 Ukunda Office							

**UKUNDA COMMERCIAL OFFICE BILL OF QUANTITIES PAGE 3**

**3.2. INTRUDER ALARMS SUPPLY, INSTALLATION AND COMMISSIONING**

ITEM	DESCRIPTION	UNIT	QTY	RATE	KSHS
A	<b>CONTROL PANEL WITH SOFTWARE AND PROGRAMMING</b> 16-zones input expandable to more than 40 zones and with Keypad zones LCD Keypad with infrared receiver and battery as Pro - Sys 128 or equal and approved. At least more than 4-zones partitioning Accommodate more than 50 user codes 4 or more PGM(programmable output) Allow for IP Module and GSM connection to interface with computers, printer and other computer networks. GSM connectivity to allow events communication via mobile	NO	1		
B	<b>MOTION DETECTORS (PIR)</b> Indoor Dual element sensor. 12m (40ft), 110 view angle. False alarms reduction facilities. Interlock sensor geometry. Automatic temperature compensation. Sensitivity adjustment. Protection from UV rays.	NO	8		
C	<b>POWER SUPPLY UNIT(P.S.U.)</b> Complete with back-up battery (12v, 7AH). Output current 3A. Output voltage 13.6-14vdc on mains power. Load regulation 5% Battery recharges 13 hours.	NO	2		
D	<b>4-Channel LONG RANGE ALARM REMOTE RECEIVER KIT</b> Operating voltage 12vdc. Operating range more than 200m radius. Dip-switch coding facility Momentary/latching relay contacts Complete with two remote buttons.	NO	1		
E	Extra Remotes Buttons	NO	2		
F	<b>SIREN</b> Complete unit with built-in strobe Operating voltage 10-14.5vdc with reverse polarity protection. current(hold-off) siren-230mA(typical) Siren output-11dBA@1M,standby 108dBA@1M. Strobe flash rate-120/min,standby 30/min.	NO	1		
<b>Total Carried to collection Page 3 Ukunda Office</b>					

**UKUNDA COMMERCIAL OFFICE BILL OF QUANTITIES PAGE 4**

<b>ITEM</b>	<b>DESCRIPTION</b>	<b>UNIT</b>	<b>QTY</b>	<b>RATE</b>	<b>KSHS</b>
<b>A</b>	Extra Keypad	NO	2		
<b>B</b>	Alarm Monitoring Centre Complete with Alarm mini-base decoder, Oryx software with licensing for two years and SMS module to fully integrate the regional alarm and fence systems and Stima Plaza Alarm monitoring system	Lot	0		
<b>C</b>	A GSM Monitoring Tablet	NO	0		
<b>D</b>	<b>ZONE EXPANDER MODULE</b> Compatible with supplied alarm control panel and related modules and accessories.	NO	1		
<b>E</b>	Cabling, cabinets and associated accessories	Lot	1		
<b>F</b>	<b>CEILING MOUNT MOTION DETECTOR</b> detection range 12m(40ft) adjustable height(between 1.5m-5.1m) Dual MW + PIR technologies Microprocessor controlled Patented true temperature compensation Superior fluorescent interference rejection Superior RFI immunity LED walk test display Alternate polarity pulse count		2		
<b>G</b>	<b>PANIC BUTTONS</b> Strong mechanical composition.	No.	9		
<b>H</b>	<b>ADVANCED GSM/GPRS MODULE</b> Central station events reporting Via Voice/sms/E-mail To transmit zone activations and other alarm events such as specific alarm activation zones, arm/disarm users plus time of arm/disarm, loss of power on the system, system failure/restore and others. Support both prepaid and post-paid SIM Cards. Support remote upload and download.	No.	1		
<b>J</b>	Installation, Training testing and commissioning	Lot	1		
<b>K</b>	Radio response Services and 1 year maintenance of the Alarm systems	Quarter	4		
	<b>Total Carried to collection Page 4 Ukunda Office</b>				

**UKUNDA COMMERCIAL OFFICE BILL OF QUANTITIES PAGE 5  
SUMMARY PAGE UKUNDA OFFICE**

No	Item Description	Amount
		KES
A	Total Carried to collection Page 1 Ukunda office	
B	Total Carried to collection Page 2 Ukunda Office	
C	<b>Sub-total-1 CCTV</b>	
D	Total Carried to collection Page 3 Ukunda office	
E	Total Carried to collection Page 4 Ukunda Office	
F	<b>Sub-total-2 Intruder Alarms</b>	
	<b>GRAND SUMMARY PAGE UKUNDA</b>	
G	Total Cctv	
H	Total intruder alarms	
	<b>TOTAL CARRIED TO COLLECTION PAGE 5 UKUNDA OFFICE</b>	



**4.0 ELECTICITY HOUSE MOMBASA -BILL OF QUANTITIES PAGE 1**

**4.1. CCTV SUPPLY, INSTALLATION AND COMMISSIONING**

No	Item Description	Unit	Quantity	Country of origin	Rate in KES	Amount	Part Numbers	
			E-House Mbsa			KES		
A	Vari-focal WDR Dome 2MPX WDR Dome IP Cameras C/W mount accessories	External	0					
		Internal	0					
B	46 Inch 1080P Industrial LED Monitor C/W mount accessories	No	1					
C	Supply installation and commissioning of Client workstation C/w operating system	No	0					
E	Network Video Recorders (NVR) Hardware servers C/w operating system and 1st Year Service /Support	No	0					
F	Power over Ethernet EDGE Switches – 24 Ports Switch (Catalyst 2960X-24PS-L 24/48-port Gigabit PoE or equivalent and approved by client)with all associated devices and accessories.	No	0					
<b>Total Carried to collection Page 1 Electricity House Mombasa</b>								

**ELECTRICITY HOUSE MOMBASA BILL OF QUANTITIES PAGE 2**

No	Item Description	Unit	Quantity	Country of origin	Rate in KES	Amount	Part Numbers	
			E-House Mbsa			KES		
A	1.5 kVA Double conversion UPS TRUE online INCLUDING Batteries	No	0					
B	Supply installation and commissioning of IP camera license (Workstation-Genetic)	No.	1					
C	Allow for integration of the system to existing GENETIC server NCC and Mombasa control room, which will be done in Liaison and by existing and contracted service provider and Kenya Power Technical team	Lot	0					
D	Cabling, cabinets and associated accessories	Lot	0					
E	Installation, Training testing and commissioning	Lot	1					
<p><b>Total Carried to collection Page 2 Electricity House Mombasa</b></p>								

**ELECTRICITY HOUSE MOMBASA BILL OF QUANTITIES PAGE 3**

**3.2. INTRUDER ALARMS SUPPLY, INSTALLATION AND COMMISSIONING**

ITEM	DESCRIPTION	UNIT	QTY	RATE	KSHS
A	<b>CONTROL PANEL WITH SOFTWARE AND PROGRAMMING</b> 16-zones input expandable to more than 40 zones and with Keypad zones LCD Keypad with infrared receiver and battery as Pro - Sys 128 or equal and approved. At least more than 4-zones partitioning Accommodate more than 50 user codes 4 or more PGM(programmable output) Allow for IP Module and GSM connection to interface with computers, printer and other computer networks. GSM connectivity to allow events communication via mobile	NO	1		
B	<b>MOTION DETECTORS (PIR)</b> Indoor Dual element sensor. 12m (40ft), 110 view angle. False alarms reduction facilities. Interlock sensor geometry. Automatic temperature compensation. Sensitivity adjustment. Protection from UV rays.	NO	8		
C	<b>POWER SUPPLY UNIT(P.S.U.)</b> Complete with back-up battery (12v, 7AH). Output current 3A. Output voltage 13.6-14vdc on mains power. Load regulation 5% Battery recharges 13 hours.	NO	3		
D	<b>4-Channel LONG RANGE ALARM REMOTE RECEIVER KIT</b> Operating voltage 12vdc. Operating range more than 200m radius. Dip-switch coding facility Momentary/latching relay contacts Complete with two remote buttons.	NO	1		
E	Extra Remotes Buttons	NO	2		
F	<b>SIREN</b> Complete unit with built-in strobe Operating voltage 10-14.5vdc with reverse polarity protection. current(hold-off) siren-230mA(typical) Siren output-11dBA@1M,standby 108dBA@1M. Strobe flash rate-120/min,standby 30/min.	NO	1		
<b>Total Carried to collection Page 3 Electricity House Mombasa</b>					

**ELECTRICITY HOUSE MOMBASA BILL OF QUANTITIES PAGE 4**

<b>ITEM</b>	<b>DESCRIPTION</b>	<b>UNIT</b>	<b>QTY</b>	<b>RATE</b>	<b>KSHS</b>
<b>A</b>	Extra Keypad(safe&upstairs)	NO	3		
<b>B</b>	Alarm Monitoring Centre Complete with Alarm mini-base decoder, Oryx software with licensing for two years and SMS module to fully integrate the regional alarm and fence systems and Stima Plaza Alarm monitoring system	Lot	1		
<b>C</b>	A GSM Monitoring Tablet	NO	1		
<b>D</b>	<b>ZONE EXPANDER MODULE</b> Compatible with supplied alarm control panel and related modules and accessories.	NO	3		
<b>E</b>	Cabling, cabinets and associated accessories	Lot	1		
<b>F</b>	<b>CEILING MOUNT MOTION DETECTOR</b> detection range 12m(40ft) adjustable height (between 1.5m-5.1m) Dual MW + PIR technologies Microprocessor controlled Patented true temperature compensation Superior fluorescent interference rejection Superior RFI immunity LED walk test display Alternate polarity pulse count		4		
<b>G</b>	<b>PANIC BUTTONS</b> Strong mechanical composition.	No.	23		
<b>H</b>	<b>ADVANCED GSM/GPRS MODULE</b> Central station events reporting Via Voice/sms/E-mail To transmit zone activations and other alarm events such as specific alarm activation zones, arm/disarm users plus time of arm/disarm, loss of power on the system, system failure/restore and others. Support both prepaid and post-paid SIM Cards. Support remote upload and download.	No.	1		
<b>J</b>	Installation, Training testing and commissioning	Lot	1		
<b>K</b>	Radio response Services and 1 year maintenance of the Alarm systems	Quarter	4		
	<b>Total Carried to collection Page 4 Electricity House Mombasa</b>				



**ELECTRICITY HOUSE MOMBASA BILL OF QUANTITIES PAGE 5  
SUMMARY PAGE ELECTRICITY HOUSE MOMBASA**

No	Item Description	Amount
		KES
A	Total Carried to collection Page 1 Electricity House Mombasa	
B	Total Carried to collection Page 2 Electricity House Mombasa	
C	<b>Sub-total-1 CCTV</b>	
D	Total Carried to collection Page 3 Electricity House Mombasa	
E	Total Carried to collection Page 4 Electricity House Mombasa	
F	<b>Sub-total-2 Intruder Alarms</b>	
	<b>GRAND SUMMARY PAGE ELECTRICITY HOUSE MOMBASA</b>	
G	Total Cctv	
H	Total intruder alarms	
	<b>TOTAL CARRIED TO COLLECTION PAGE 5 ELECTRICITY HOUSE MOMBASA</b>	



**GRAND SUMMARY PAGE  
IP CCTV AND INTRUDER ALARM SYSTEMS MOMBASA COMMERCIAL OFFICES**

	<b>DESCRIPTION</b>	<b>AMOUNT IN KSHS.</b>	<b>CTS.</b>
1	TOTAL CARRIED TO COLLECTION VOI OFFICE		
2	TOTAL CARRIED TO COLLECTION MALINDI OFFICE		
3	TOTAL CARRIED TO COLLECTION UKUNDA		
4	TOTAL CARRIED TO COLLECTION ELECTRICITY HOUSE MOMBASA		
	<b>SUB-TOTAL</b>		
	<b>ADD 16% VAT</b>		
	<b>GRAND TOTAL</b>		

Amount in words-----

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Name of Tenderer

\_\_\_\_\_  
Name and Capacity of authorized person signing the Tender

\_\_\_\_\_  
Signature of authorized person signing the Tender

\_\_\_\_\_  
Stamp of Tenderer