



Kenya Power

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Stima Plaza, Kolobot Road, Nairobi, Kenya

Our Ref: KP1/9A.2/OT/042/SS/23-24/JN/skk

Date: 2nd January ,2024

Your Ref:

TO: ALL PROSPECTIVE BIDDERS

Dear Sir/ Madams

RE: ADDENDUM NO. 2 SUPPLY & INSTALLATION OF FIRE ALARM & PROTECTION SYSTEMS FOR OFFICES & STORES TENDER NO. KP1/9A.2/OT/042/SS/23-24

Please refer to the above Tender.

The following clarifications and amendments are made to the Principal Tender Document (hereinafter abbreviated as the PTD) for Supply & Installation of Fire Alarm & Protection Systems for Offices & Stores.

1. RELATIONSHIP WITH THE PRINCIPAL TENDER DOCUMENT

Save where expressly amended by the terms of this Addendum, the PTD 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 and construed as part of the PTD.

2. AMENDMENT OF SECTION IV – TENDERING FORM (PRICE SCHEDULE

The price schedule has been amended to include a breakdown of the Public Address and Voice Evacuation (PAVA) (item no.52) as per the attached **Appendix I**.

3. AMENDMENT OF PART 2 – KPLC REQUIREMENTS/SPECIFICATIONS

The principal Tender Document has been amended to include the following:

- a. Schedule of Equipment and Accessories for Lot 2 – Electricity House Kisumu as per attached **Appendix II**.
- b. Schedule of Equipment and Accessories for Lot 3 – Electricity House Mombasa as per attached **Appendix III**.
- c. Additional Technical specifications PAVA as per attached **Appendix IV**

4. DEADLINE FOR SUBMISSION OF TENDER.

The tender closing date has been extended from **5th January, 2024** to **12th January, 2024** at 10.00 a.m. The procuring entity will open the bids online through our E- Procurement Web- Portal at 10.30 am on the closing day at Stima Plaza.

5. TENDER SECURITY

The tender security validity period shall be considered from date **5th January, 2023**.



PETER MUCHORI
AG. SUPPLY CHAIN MANAGER, PROCUREMENT

APPENDIX I

PRICE SCHEDULE

SCHEDULE NO. 1

LOT 1 – ISIOLO RD STORES & WORKSHOP

S/NO	DESCRIPTION	UOM	QTY	UNIT PRICE (VAT EXCL.)	TOTAL COST (VAT EXCL.)	TOTAL COST (VAT INCL.)
PART I	FIRE HYDRANT SYTSEM					
Section A	Supply and Install the following:-					
1.	6" GI pipe c/w interconnecting fittings for connection in the pump room	LM	12			
2.	4" GI pipes; allow for welding to interconnect the pipework	LM	250			
3.	2" GI pipes; allow for welding to interconnect the pipework	LM	160			
4.	1" GI pipes; allow for welding to interconnect the pipework	LM	12			
5.	4" GI bends	PCS	13			
6.	4" GI tee	PCS	7			
7.	4"x2.5" reducing socket	PCS	6			
8.	4" flanges --2pcs per set including bolts and nuts	SETS	10			
9.	2.5" GI pipe c/w fittings for connection of the hydrant valve on each hydrant point	LM	18			
10.	4"/6" sluice valves	PCS	3			
11.	4" x 1" reducing bush	PCS	2			
12.	1" air release valves	PCS	2			
13.	Allow for excavation and making good where pipes will be laid underground	ITEM	1			
14.	Allow For Pipes anchorage	ITEM	1			
15.	Hydrant hose cabinet comprising of 3pcs 30m length x2.5" dia delivery fire hose, 1pc controllable branch pipe	SETS	6			
16.	30m x 3/4" Swinging Manual Hose Reels	PCS	4			
17.	Pillar hydrant valves	PCS	4			
18.	Dual wheeled operated water cum foam monitor -63mm	PCS	1			

S/NO	DESCRIPTION	UOM	QTY	UNIT PRICE (VAT EXCL.)	TOTAL COST (VAT EXCL.)	TOTAL COST (VAT INCL.)
19.	Fire brigade - inlet breechings	PCS	1			
20.	Duty of the main electric fire pumps; 2500lpm @10bars	SET	1			
21.	Duty of the jockey pumps; 2.5l/s @10.5bars	SET	1			
22.	Control panel inclusive of a changeover (to support dual power sources)	SET	1			
23.	Foam bladder tank c/w foam mix, necessary accessories and its booster pump, control panel	SET	1			
24.	Allow for electrical cabling for pumps connection	ITEM	1			
25.	10,000litres PVC tanks c/w interconnecting valves and fittings	PCS	2			
26.	PUMP HOUSING (also to act as base for the tanks)					
	PUMP HOUSING	UOM	QTY			
26A.01	Provide, place and compact class 30/20 concrete	m ³	5			
26A.02	As item 26A.01 but class 15/20 for blinding	m ³	4			
	Formwork: Provide, erect and afterwards dismantle and remove					
26A.03	Vertical formwork to achieve class F3 finish	m ²	15			
26A.04	Vertical formwork to achieve class F2 finish	m ²	8			
26A.05	As item 26A.03 but horizontal	m ²	40			
26A.06	As item 26A.04 but horizontal	m ²	20			
	Reinforcement: Provide, bend and fix into position					
26A.07	High yield steel bars to BS 4461 of sizes 16mm and above	Kgs	100			

S/NO	DESCRIPTION				UOM	QTY	UNIT PRICE (VAT EXCL.)	TOTAL COST (VAT EXCL.)	TOTAL COST (VAT INCL.)
	26A.08	As item 26A.07 but of size 12mm and below	Kgs	50					
		Finishing:							
	26A.09	Masonry walls	m ²	40					
	26A.10	Plastering	m ²	40					
	26A.11	Water proofing with of type SikaTop Seal-107 proofing	m ²	30					
	26A.12	Construction of roof with appropriate drainage cutters	m ²	24					
	26A.13	Paint work	Item	1					
	26A.13	Door & Vents/Windows	Item	1					
	26A.14	Tiling & Flooring works	Item	1					
	26A.15	Roofing & tanks protective wiremesh	Item	1					
27.		Integrated wall sounder and Beacon complete with clip fixing assembly and relays			ITEM	1			
28.		Allow for painting of the hydrant pipes with fire red paint			ITEM	1			
29.		Allow any other accessories to make system complete			SET	1			

PART II Section B	FIRE ALARM SYTSEM – GODOWNS & OFFICES Supply and Install the following:-				
30.	Intelligent Addressable Fire Alarm Control Panel with manual and automatic alarm initiation; automatic sensitivity control of certain smoke detectors; and multiplexed signal transmission dedicated to fire alarm service only integrated with Paging Microphone Console and Fire Telephone Handset. The system must have a capability of networking at-least 200 panels. The FACP should have On-board printer. 2 loop Panel expandable to 4 loops. Include Power Supply and Battery Backup Pack.	Item	1		
31.	Remote Display and Control Panel , allowing the full network information to be transparent on the repeater. Up to 199 of them on the network.	No.	1		
32.	Loop Control Driver/Module	No.	2		
33.	Network Communication Module to enable distribution of fire alarm control panels and remote terminals throughout KPLC buildings or group of buildings.	No.	1		
34.	IP Gateway Network card Allows fire alarm control panels to be linked with other similar panels or control and remote terminals on a single network which can be configured either from the panel or from a PC.	No.	1		
35.	BMS Module to allow integration of FACP and remote terminals with (BMS) and graphics PCs.	No.	1		
36.	Bacnet/IP/Modbus Integrator protocol conversion for BACNET, IP and MODBUS networks to link the fire detection and alarm network with third-party building management systems	No.	1		
37.	Allow for End user Training, fire marshals to familiarize with equipment location and evacuation response in the event of fire inclusive of a fire Drill	Item	1		
38.	Allow for Technical Training at the Manufacturers (Factor only the cost of training i.e venue ,trainers, transport to and from the training venue and certification)	Item	1		
39.	Allow for As Built Documentation	Item	1		
40.	Allow for cabling Ducting, trunking and Civil works	Item	1		

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41.	Allow for making good disturbed surfaces and Remediying of other Defects	Item	1		
42.	Allow for provision of Clean Power back up and protection for all Fire Alarm equipment including the PAVA as adequately required by the entire installation.	Item	1		
43.	Addressable Integrated wall sounder and Beacon complete with clip fixing assembly	No.	12		
44.	Installation & configuration of remote microphone	Item	1		
45.	Addressable optical smoke detectors wired in fire resistant low voltage cables drawn in 25mm diameter PVC heavy gauge conduits as shown in the contract drawings	No.	85		
46.	Addressable optical Heat detectors wired in fire resistant low voltage cables drawn in 25mm diameter PVC heavy gauge conduits as shown in the contract drawings	No.	17		
47.	Addressable Break glass Call points wired in fire resistant low voltage cables drawn in 25mm diameter PVC heavy gauge conduits as follows:	No.	23		
48.	Supply and Installation of Integrated Automatic Monitored Fire Exit alarm door, complete with Push bar and all accessories Including door Monitoring module.	No.	3		
49.	Supply and Installation of Illuminated Signage and Exit signs	No.	5		
50.	Allow for Marking of Fire Points, Drawing of Evacuation procedure and Mapping. (for various sections)	Set	1		
51.	Isolator modules	No.	5		
52.	PUBLIC ADDRESS AND VOICE EVACUATION Allow for Public address and voice evacuation system complete with the following as per technical specifications				
a)	Stackable Voice Alarm system, 8+2In x8 Out, Master module incl. local network, EN54-16	No	1		
b)	Dedicated Ethernet Networking card	No	1		
c)	4 Channel Multipurpose 0dB/MIC Audio Input Card	No	1		
d)	Color touch screen security paging microphone	No	1		
e)	5" Metal Fire rated Speaker	No	15		
f)	Class-D, digital Power amplifier 4x125Watt/100V-230/24V-19"/2U	No	1		

g)	22U Rack 19", 600 mm deep with accessories	No	1		
h)	Clean Power and protection as APC with a minimum of 3KVA smart UPS type	No	1		
53.	Allow for two years' Service and Maintenance Contract done quarterly as per the SLA	Item	1		
54.	Allow for any other item necessary to complete the works. (Itemize)	Item	1		
	TOTAL LOT 1				

Name of Tenderer _____ Signature & Official Stamp _____



LOT 2 – ELECTRICITY HOUSE KISUMU

S/NO	DESCRIPTION	UOM	QTY	UNIT PRICE (VAT EXCL.)	TOTAL COST (VAT EXCL.)	TOTAL COST (VAT INCL.)
Section A	<u>Supply and Install the following:-</u>					
1.	Intelligent Addressable Fire Alarm Control Panel with manual and automatic alarm initiation; automatic sensitivity control of certain smoke detectors; and multiplexed signal transmission dedicated to fire alarm service only integrated with Paging Microphone Console and Fire Telephone Handset. The system must have a capability of networking at-least 200 panels. The FACP should have On-board printer. 2 loop Panel expandable to 4 loops. Include Power Supply and Battery Backup Pack.	Item	1			
2.	Remote Display and Control Panel , allowing the full network information to be transparent on the repeater. Up to 199 of them on the network.	No.	1			
3.	Loop Control Driver/Module	No.	2			
4.	Graphical Control Software , to control fire alarm equipment by means of graphical maps, images, and text for monitoring installation sites and program graphical command buttons for enabling or disabling devices. Should have Simple control buttons to permit the user to Enable/Disable field devices, and also provide a means for Silence/Reset functionality.	Item	1			
5.	Client Software and license for the above Software. A minimum of 5 client licenses.	Item	1			
6.	Network Communication Module to enable distribution of fire alarm control panels and remote terminals throughout KPPLC buildings or group of buildings.	No.	1			
7.	IP Gateway Network card Allows fire alarm control panels to be linked with other similar panels or control and remote terminals on a single network which can be configured either from the panel or from a PC.	No.	1			
8.	BMS Module to allow integration of FACP and remote terminals with (BMS) and graphics PCs.	No.	1			
Section B	<u>Supply and Install the following:-</u>					

S/NO	DESCRIPTION	UOM	QTY	UNIT PRICE (VAT EXCL.)	TOTAL COST (VAT EXCL.)	TOTAL COST (VAT INCL.)
9.	Bacnet/IP/Modbus Integrator protocol conversion for BACNET, IP and MODBUS networks to link the fire detection and alarm network with third-party building management systems	No.	1			
10.	Allow for Server for graphical control software above	No.	1			
11.	Allow for Desktop PC for item client software above	No.	1			
12.	Allow for End user Training, fire marshals to familiarize with equipment location and evacuation response in the event of fire inclusive of a fire Drill	Item	1			
13.	Allow for Technical Training at the Manufacturers (Factor only the cost of training i.e venue, trainers, transport to and from the training venue and certification)	Item	1			
14.	Allow for As Built Documentation	Item	1			
15.	Allow for cabling Ducting, trunking and Civil works	Item	1			
16.	Allow for making good disturbed surfaces and Remediying of other Defects	Item	1			
17.	Allow for provision of Clean Power back up and protection for all Fire Alarm equipment including the PAVA as adequately required by the entire installation.	Item	1			
18.	Addressable Integrated wall sounder and Beacon complete with clip fixing assembly	No.	23			
19.	Installation & configuration of remote microphone	Item	1			
20.	Addressable optical smoke detectors wired in fire resistant low voltage cables drawn in 25mm diameter PVC heavy gauge conduits as shown in the contract drawings	No.	86			
21.	Addressable optical Heat detectors wired in fire resistant low voltage cables drawn in 25mm diameter PVC heavy gauge conduits as shown in the contract drawings	No.	36			
22.	Addressable Break glass Call points wired in fire resistant low voltage cables drawn in 25mm diameter PVC heavy gauge conduits as follows:	No.	23			
23.	Supply and Installation of Integrated Automatic Monitored Fire Exit alarm door, complete with Push bar and all accessories Including door Monitoring module.	No.	5			

S/NO	DESCRIPTION	UOM	QTY	UNIT PRICE (VAT EXCL.)	TOTAL COST (VAT EXCL.)	TOTAL COST (VAT INCL.)
24.	Supply and Installation of Illuminated Signage and Exit signs	No.	21			
25.	Allow for Marking of Fire Points, Drawing of Evacuation procedure and Mapping.	Item	1			
26.	Isolator modules	No.	13			
27.	PUBLIC ADDRESS AND VOICE EVACUATION Allow for Public address and voice evacuation system complete with the following as per technical specifications.					
a)	Stackable Voice Alarm system, 8+2In x8 Out, Master module incl. local network, EN54-16	No	1			
b)	Dedicated Ethernet Networking card	No	1			
c)	4 Channel Multipurpose 0dB/MIC Audio Input Card	No	1			
d)	Color touch screen security paging microphone	No	1			
e)	5" Metal Fire rated Speaker	No	15			
f)	Class-D, digital Power amplifier 4x125Watt/100V-230/24V-19"/2U	No	1			
g)	22U Rack 19", 600 mm deep with accessories	No	1			
h)	Clean Power and protection as APC with a minimum of 3KVA smart UPS type	No	1			
28.	Allow for two years' Service and Maintenance Contract done quarterly as per the SLA	Item	1			
29.	Allow for any other item necessary to complete the works.(Itemize)	Item	1			
	Total Lot 2					

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Name of Tenderer _____ Signature & Official Stamp _____

LOT 3 – ELECTRICITY HOUSE MOMBASA

S/NO	DESCRIPTION	UOM	QTY	UNIT PRICE (VAT EXCL.)	TOTAL COST (VAT EXCL.)	TOTAL COST (VAT INCL.)
Section A	<u>Supply and Install the following:-</u>					
1.	Intelligent Addressable Fire Alarm Control Panel with manual and automatic alarm initiation; automatic sensitivity control of certain smoke detectors; and multiplexed signal transmission dedicated to fire alarm service only integrated with Paging Microphone Console and Fire Telephone Handset. The system must have a capability of networking at-least 200 panels. The FACP should have On-board printer. 2 loop Panel expandable to 4 loops. Include Power Supply and Battery Backup Pack.	Item	1			
2.	Remote Display and Control Panel , allowing the full network information to be transparent on the repeater. Up to 199 of them on the network.	No.	1			
3.	Loop Control Driver/Module	No.	2			
4.	Graphical Control Software , to control fire alarm equipment by means of graphical maps, images, and text for monitoring installation sites and program graphical command buttons for enabling or disabling devices. Should have Simple control buttons to permit the user to Enable/Disable field devices, and also provide a means for Silence/Reset functionality.	Item	1			
5.	Client Software and license for the above Software. A minimum of 5 client licenses.	Item	1			
6.	Network Communication Module to enable distribution of fire alarm control panels and remote terminals throughout KPLC buildings or group of buildings.	No.	1			
7.	IP Gateway Network card Allows fire alarm control panels to be linked with other similar panels or control and remote terminals on a single network which can be configured either from the panel or from a PC.	No.	1			
8.	BMS Module to allow integration of FACP and remote terminals with (BMS) and graphics PCs.	No.	1			
Section B	<u>Supply and Install the following:-</u>					
9.	Bacnet/IP/Modbus Integrator protocol conversion for BACNET, IP and MODBUS networks to link the fire detection	No.	1			

S/NO	DESCRIPTION	UOM	QTY	UNIT PRICE (VAT EXCL.)	TOTAL COST (VAT EXCL.)	TOTAL COST (VAT INCL.)
	and alarm network with third-party building management systems					
10.	Allow for Server for graphical control software above	No.	1			
11.	Allow for Desktop PC for item client software above	No.	1			
12.	Allow for End user Training, fire marshals to familiarize with equipment location and evacuation response in the event of fire inclusive of a fire Drill	Item	1			
13.	Allow for Technical Training at the Manufacturers (Factor only the cost of training i.e venue, trainers, transport to and from the training venue and certification)	Item	1			
14.	Allow for As Built Documentation	Item	1			
15.	Allow for cabling Ducting, trunking and Civil works	Item	1			
16.	Allow for making good disturbed surfaces and Remediying of other Defects	Item	1			
17.	Allow for provision of Clean Power back up and protection for all Fire Alarm equipment including the PAVA as adequately required by the entire installation.	Item	1			
18.	Addressable Integrated wall sounder and Beacon complete with clip fixing assembly	No.	35			
19.	Installation & configuration of remote microphone	Item	1			
20.	Addressable optical smoke detectors wired in fire resistant low voltage cables drawn in 25mm diameter PVC heavy gauge conduits as shown in the contract drawings	No.	307			
21.	Addressable optical Heat detectors wired in fire resistant low voltage cables drawn in 25mm diameter PVC heavy gauge conduits as shown in the contract drawings	No.	49			
22.	Addressable Break glass Call points wired in fire resistant low voltage cables drawn in 25mm diameter PVC heavy gauge conduits as follows:	No.	35			
23.	Supply and Installation of Integrated Automatic Monitored Fire Exit alarm door, complete with Push bar and all accessories Including door Monitoring module.	No.	18			
24.	Supply and Installation of Illuminated Signage and Exit signs	No.	47			

S/NO	DESCRIPTION	UOM	QTY	UNIT PRICE (VAT EXCL.)	TOTAL COST (VAT EXCL.)	TOTAL COST (VAT INCL.)
25.	Fire suppression system in I.T Room 6m*4m*2.7m in 2nd floor to fully discharge clean/Inert fire suppression agent within 10/60sec seconds after receiving an actuation signal. (i.e Minimum of 37kg FM200 OR 3x200bar x80litres IG55/IG541). The system should be complete with Standard Detection and Control Equipment; Control Panel, Smoke sensors, Manual Call Point, Sounders 1 st and 2 nd Stage, Maintenance switch	Item	1			
26.	Allow for Marking of Fire Points, Drawing of Evacuation procedure and Mapping.	Item	1			
27.	Isolator modules	No.	36			
28.	PUBLIC ADDRESS AND VOICE EVACUATION Allow for Public address and voice evacuation system complete with the following as per technical specifications.					
a)	Stackable Voice Alarm system, 8+2In x8 Out, Master module incl. local network, EN54-16	No	1			
b)	Dedicated Ethernet Networking card	No	1			
c)	4 Channel Multipurpose 0dB/MIC Audio Input Card	No	1			
d)	Color touch screen security paging microphone	No	1			
e)	5" Metal Fire rated Speaker	No	20			
f)	Class-D, digital Power amplifier 4x125Watt/100V-230/24V-19"/2U	No	1			
g)	22U Rack 19", 600 mm deep with accessories	No	1			
h)	Clean Power and protection as APC with a minimum of 3KVA smart UPS type	No	1			
29.	Allow for two years' Service and Maintenance Contract done quarterly as per the SLA	Item	1			
30.	Allow for any other item necessary to complete the works.(Itemize)	Item	1			
Total Lot 3						

Name of Tenderer _____

Signature & Official Stamp _____

SCHEDULE OF REQUIREMENT

A) SCHEDULE OF EQUIPMENT AND ACCESSORIES FOR LOT 2-ELECTRICITY HOUSE KISUMU

FIRE ALARM AND DETECTION KISUMU			
No	DESCRIPTION	QTY.	UNIT
A	Addressable Integrated wall sounder and Beacon complete with clip fixing assembly		
	Banking Hall	4	No.
	3rd Floor	4	No.
	2nd Floor	4	No.
	Parking	4	No.
	Roof top	1	No.
	Emergency Section	2	No.
	Basement	2	No.
	Ken Shop	2	No.
		23	
B	Addressable optical smoke detectors wired in fire resistant low voltage cables drawn in 25mm diameter PVC heavy gauge conduits as shown in the contract drawings		
	Banking Hall	19	No.
	3rd Floor	18	No.
	2nd Floor	20	No.
	Parking	2	No.
	Roof top	2	No.
	Emergency Section	11	No.
	Basement	0	No.
	Ken Shop	14	No.
		86	
C	Addressable optical Heat detectors wired in fire resistant low voltage cables drawn in 25mm diameter PVC heavy gauge conduits as shown in the contract drawings		
	Banking Hall	1	No.
	3rd Floor	1	No.
	2nd Floor	1	No.
	Parking	14	No.
	Roof top	0	No.
	Emergency Section	0	No.
	Basement	15	No.
	Ken Shop	4	No.
		36	
D	Addressable Break glass Call points wired in fire resistant low voltage cables drawn in 25mm diameter PVC heavy gauge conduits as follows:		
	Banking Hall	4	No.
	3rd Floor	4	No.
	2nd Floor	4	No.
	Parking	4	No.
	Roof top	1	No.
	Emergency Section	2	No.



	Basement	2	No.
	Ken Shop	2	No.
		23	
E	Supply and Installation of Integrated Automatic Monitored Fire Exit alarm door, Including door Monitoring module.		
	Banking Hall	2	No.
	3rd Floor	1	No.
	2nd Floor	2	No.
	Parking	1	No.
	Roof top	0	No.
	Emergency Section	1	No.
	Basement	0	No.
	Ken Shop	1	No.
		8	
F	Supply and Installation of Illuminated Signage and Exit signs		
	Banking Hall	4	No.
	3rd Floor	3	No.
	2nd Floor	3	No.
	Parking	3	No.
	Roof top	1	No.
	Emergency Section	2	No.
	Basement	2	No.
	Ken Shop	3	No.
		21	
G	PAVA systems as per Bill of quantities		

APPENDIX III

B) SCHEDULE OF EQUIPMENT AND ACCESSORIES FOR LOT 3-ELECTRICITY HOUSE MOMBASA

LOT 3-ELECTRICITY HOUSE MOMBASA			
No	DESCRIPTION	QTY.	UNIT
A	Addressable Integrated wall sounder and Beacon complete with clip fixing assembly		
	ground floor	5	No.
	Mezzanine floor	4	No.
	Mezzanine II floor	4	No.
	Mezzanine roof	2	No.
	First floor	2	No.
	Second floor	2	No.
	Third floor	2	No.
	Fourth floor	2	No.
	Fifth floor	2	No.
	Sixth floor	2	No.
	Seventh floor	2	No.
	Eighth floor	2	No.
	Roof plan	1	No.
	Basement	3	No.
		35	
B	Addressable optical smoke detectors wired in fire resistant low voltage cables drawn in 25mm diameter PVC heavy gauge conduits as shown in the contract drawings		
	ground floor	42	No.
	Mezanine floor	36	No.
	MezanineII floor	30	No.
	Mezzanine roof	9	No.
	First floor	20	No.
	Second floor	20	No.
	Third floor	20	No.
	Fourth floor	20	No.
	Fifth floor	24	No.
	Sixth floor	24	No.
	Seventh floor	24	No.
	Eighth floor	24	No.
	Roof plan	14	No.
	Basement	0	No.
		307	
C	Addressable optical Heat detectors wired in fire resistant low voltage cables drawn in 25mm diameter PVC heavy gauge conduits as shown in the contract drawings		
	ground floor	4	No.
	Mezanine floor	2	No.
	MezanineII floor	1	No.
	Mezzanine roof	8	No.
	First floor	1	No.

	Second floor	1	No.
	Third floor	1	No.
	Fourth floor	1	No.
	Fifth floor	1	No.
	Sixth floor	1	No.
	Seventh floor	1	No.
	Eighth floor	1	No.
	Roof plan	0	No.
	Basement	26	No.
		49	
D	Addressable Break glass Call points wired in fire resistant low voltage cables drawn in 25mm diameter PVC heavy gauge conduits as follows:		
	ground floor	5	No.
	Mezzanine floor	4	No.
	Mezzanine II floor	4	No.
	Mezzanine roof	2	No.
	First floor	2	No.
	Second floor	2	No.
	Third floor	2	No.
	Fourth floor	2	No.
	Fifth floor	2	No.
	Sixth floor	2	No.
	Seventh floor	2	No.
	Eighth floor	2	No.
	Roof plan	1	No.
	Basement	3	No.
		35	
E	Supply and Installation of Integrated Automatic Monitored Fire Exit alarm door, Including door Monitoring module.		
	ground floor	2	No.
	Mezzanine floor	2	No.
	Mezzanine II floor	2	No.
	Mezzanine roof	2	No.
	First floor	1	No.
	Second floor	1	No.
	Third floor	1	No.
	Fourth floor	1	No.
	Fifth floor	1	No.
	Sixth floor	1	No.
	Seventh floor	1	No.
	Eighth floor	1	No.
	Roof plan	1	No.
	Basement	1	No.
		18	
F	Supply and Installation of Illuminated Signage and Exit signs		
	ground floor	4	No.



	Mezzanine floor	4	No.
	Mezzanine II floor	4	No.
	Mezzanine roof	2	No.
	First floor	3	No.
	Second floor	3	No.
	Third floor	3	No.
	Fourth floor	3	No.
	Fifth floor	3	No.
	Sixth floor	3	No.
	Seventh floor	3	No.
	Eighth floor	3	No.
	Roof plan	3	No.
	Basement	6	No.
		47	
G	PAVA systems as per Bill of quantities		
H	Fire suppression system as per Bill of quantities		

Country of Origin Declaration Form

Item	Description	Code	Country

SCHEDULE NO. 2. ONE-YEAR MAINTENANCE SERVICE COST TO BE CARRIED TO THE FORM OF TENDER (AFTER THE WARRANTY PERIOD)

Item	Description	UoM	Qty	Unit Price VAT Excl. (Ksh)	Total Price VAT Excl. (Ksh)
1	Quarterly Maintenance Service Cost Lot 1: Isiolo Rd Stores & Workshop	No	4		
2	Quarterly Maintenance Service Cost Lot 2: Electricity House Kisumu	No	4		
3	Quarterly Maintenance Service Cost Lot 3: Electricity House Mombasa	No	4		

SCHEDULE NO. 3. GRAND SUMMARY

Item	Description	Total Price VAT Excl.(Ksh)	Total Price VAT Incl (Ksh)
	Total Schedule No. 1. Fire Alarm & Protection Systems for Offices & Stores		
Lot 1	Isiolo Rd Stores & Workshop		
Lot 2	Electricity House Kisumu		
Lot 3	Electricity House Mombasa		
	TOTAL (to Tender Form)		

Name of Tenderer _____ Signature & Official Stamp

¹Specify currency in accordance with ITT 18. Create and use as many columns for Foreign Currency requirement as there are foreign currencies

SCHEDULE NO. 4. RECOMMENDED SPARE PARTS

Item	Description	Qty	Unit Price VAT Excl. (Ksh)	Total Price VAT Excl. (Ksh)	Total Price VAT Incl. (Ksh)
		(1)	(2)	(3)	(4)
Totals					

Name of Tenderer _____ Signature & Official Stamp



APPENDIX IV

ADDITIONAL TECHNICAL SPECIFICATIONS-PAVA

NO	ITEMS NAME	MINIMUM REQUIREMENT	BIDDER'S RESPONSE (QUOTED BRAND)
1.	Digital Voice Command Center	<p>The Digital Voice Command Center located with the FACP shall contain all equipment required for all audio control, emergency telephone system control, signaling and supervisory functions. This shall include speaker zone indication and control, telephone circuit indication and control, digital voice units, microphone and main telephone handset.</p> <p>Function: The Voice Command Center equipment shall perform the following functions:</p> <ul style="list-style-type: none"> a. Operate as a supervised multi-channel emergency voice communication system. b. Operate as a two-way emergency telephone system control center. c. Audibly and visually annunciate the active or trouble condition of every speaker circuit and emergency telephone circuit. d. Audibly and visually annunciate any trouble condition for digital tone and voice units required for normal operation of the system. e. Provide all-call Emergency Paging activities through activation of a single control switch. f. As required, provide vectored paging control to specific audio zones via dedicated control switches. g. Provide a factory recorded "library" of voice messages and tones in standard WAV. File format, which may be edited and saved on a PC running a current Windows® operating system. h. Provide a software utility capable of off-line programming for the VCC operation and the audio message files. This utility shall support the creation of new programs as well as editing and saving existing program files. Uploading or downloading the VCC shall not inhibit the emergency operation of other nodes on the fire alarm network. i. Support an optional mode of operation with four analog audio outputs capable of being used with UL 864 fire-listed analog audio amplifiers and SCL controlled switching. j. The Digital Voice Command shall be modular in construction, and shall be capable of being field programmable without requiring the return of any components to the manufacturer and without requiring use of any external computers or other programming equipment. k. The Digital Voice Command and associated equipment shall be protected against unusually high voltage surges or line transients. 	

2.	Audio Amplifiers	<ul style="list-style-type: none"> a) Class-D, digital Power amplifier 4x125Watt/100V-230/24V-19"/2U b) The Audio Amplifiers will provide Audio Power (@25 Volts RMS) for distribution to speaker circuits c) Multiple audio amplifiers may be mounted in a single enclosure, either to supply incremental audio power, or to function as an automatically switched backup amplifier(s). d) The audio amplifier shall include an integral power supply, and shall provide built-in LED indicators for the following conditions: Earth Fault, Audio Amplifier Failure, Short circuit on speaker circuit, media connection, Power supply conditions etc. e) The audio amplifier shall provide the following built-in controls: Amplifier Address, Selection Switches, Signal Silence of communication loss annunciation Reset, Level adjustment for background music, enable/Disable for Earth Fault detection on DAP A, Enable/Disable for Earth Fault detection on DAP A. f) Adjustment of the correct audio level for the amplifier shall not require any special tools or test equipment. g) Includes audio input and amplified output supervision, back up input, and automatic switch over function, (if primary amplifier should fail). h) System shall be capable of backing up digital amplifiers. i) One-to-one backup shall be provided by either a plug-in amplifier card or a designated backup amplifier of identical model as the primary amplifier. j) One designated backup amplifier shall be capable of backing up multiple primary amplifiers mounted in the same or adjacent cabinets. k) Multi-channel operation from a single amplifier shall be supported by the addition of an optional plug-in amplifier card. 	
3.	Audio Message Generator/Speaker Control	<ul style="list-style-type: none"> a) Each initiating zone or intelligent device shall interface with an emergency voice communication system capable of transmitting a prerecorded voice message to all speakers in the building. b) Actuation of any alarm initiating device shall cause a prerecorded message to sound over the speakers. The message shall be repeated four (4) times. Pre- and post-message tones shall be supported. c) A built-in microphone shall be provided to allow paging through speaker circuits. d) System paging from emergency telephone circuits shall be supported. 	

		e) The audio message generator shall have the following indicators and controls to allow for proper operator understanding and control: Lamp Test, Off-line, trouble, microphone Trouble,-Phone Trouble, Busy/Wait, Page Inhibited, Pre/Post Announcement Tone	
4.	Horn/Strobes:	Operate on 24 VDC; Have two selectable tone options of temporal 3 and non-temporal continuous pattern; Have at least 2 audibility options; Maximum Pulse, Duration: 0.2 second; Strobe Intensity: UL 1971,Flash Rate: UL 1971,Strobe,Candela Rating: Determine by positioning selector switch on back of device.	
5.	Speakers	<ul style="list-style-type: none"> a) 5" Metal Fire rated Speaker b) All speakers shall operate on 25 VRMS or with field selectable output taps from 0.5 to 2.0 Watts. c) Speakers in corridors and public spaces shall produce a nominal sound output of 84 dBA at 10 feet (3m). d) Frequency response shall be a minimum of 400 HZ to 4000 HZ. e) The back of each speaker shall be sealed to protect the speaker cone from damage and dust. 	
6.	System Circuit Supervision	<ul style="list-style-type: none"> a) FACP shall supervise all circuits to intelligent devices, transponders, annunciators and peripheral equipment and annunciate loss of communication with these devices. b) The CPU shall continuously scan above devices for proper system operation and upon loss of response from a device shall sound an audible trouble, indicate which device or devices are not responding and print the information in the history buffer and on the printer 	

Name of Tenderer _____ Signature _____

